SVC | Skagit Valley College

CATALOG 2023-2024

Academic Calendar

SUMMER QUARTER 2023 ..... JULY 6 TO AUG. 24

Tuition due ..... June 22

Classes begin..... July 6

Last day to withdraw without a "W" notation on transcript..... July 19

Last day to drop a class..... Aug. 24

Finals week..... No finals week

FALL QUARTER 2023 ..... SEPT. 19 TO DEC. 8

Tuition due ..... Sept. 5

Classes begin..... Sept. 19

Last day to withdraw without a "W" notation on transcript..... Oct. 2

Veterans Day Observed (Holiday)..... Nov. 10

Thanksgiving break (Holiday) ..... Nov. 23-24

Last day to drop a class..... Dec. 8

Finals week..... Dec. 4 to 8

Last day of classes..... Dec. 8

Winter break ..... Dec. 11 to Jan. 2

WINTER QUARTER 2024 ..... JAN. 4 TO MARCH 18

Tuition due ..... Dec. 12

Classes begin..... Jan. 3

Martin Luther King Day (Holiday)..... Jan. 15

Last day to withdraw without a "W" notation on transcript..... Jan. 17

Presidents Day (Holiday)..... Feb. 19

Last day to drop a class..... March 15

Finals week..... March 11 to 15

Last day of classes..... March 15

Spring break ..... March 18 to April 1

SPRING QUARTER 2024..... APRIL 2 TO JUNE 14

Tuition due ..... Feb. 19

Classes begin..... April 2

Last day to withdraw without a "W" notation on transcript..... April 14

Memorial Day (Holiday)..... May 27

Last day to drop a class..... June 14

Finals week..... June 10 to 14

Last day of classes..... June 14

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Credits and Disclaimers

This edition of the Skagit Valley College Catalog is effective beginning with Summer Quarter, 2023, through Spring Quarter, 2024. Every effort has been made to ensure the accuracy of the information contained in this publication. Students are advised, however, that such information is subject to change without notice, and advisors should, therefore, be consulted on a regular basis for current information. This catalog was published in May 2023.

Skagit Valley College catalogs, class schedules, web site, fee schedules, and so on, do not create binding contracts between Skagit Valley College and its students. The college and its divisions reserve the right at any time to make changes in any regulations or requirements governing instruction in and graduation from the college and its various divisions. Changes shall take effect whenever the proper authorities determine and shall apply not only to prospective students but also to those who are currently enrolled at the college. Except as other conditions dictate, the college will make every reasonable effort to ensure that students currently enrolled in programs, and making normal progress toward completion of any requirements, will have the opportunity to complete any program which is to be discontinued. The college's total liability for student claims related to classes or programs shall be limited to the tuition and expenses paid by the student to the college for those classes. In no event shall the college be liable for any special, indirect, incidental or consequential damages, including but not limited to, loss of earnings or profits.

Tuition is set by the Washington state legislature and is subject to change without notice. For a current list of fees or other information, visit www.skagit.edu/tuitionfees or contact the Vice President of Student Services' Office.

All Skagit Valley College publications and documents are available in alternate formats upon request by calling Disability Access Services, 360.416.7818.

Skagit Valley College (SVC) offers academic transfer pathways, workforce education degrees and certificates, basic education for adults, and lifelong learning opportunities. SVC is committed to equity as its framework in providing access, supporting achievement, and strengthening community. SVC will take steps to ensure that the lack of English language skills will not be a barrier to admission and participation in all educational programs.

SVC provides a drug-free environment and does not discriminate on the basis of race, color, religion, national origin, sex, gender identity, sexual orientation, disability, marital status, or age in its programs and employment. The following person has been designated to handle inquiries regarding the non-discrimination policies:

Associate Vice President of Human Resources
and Title IX Coordinator
2405 East College Way
Mount Vernon, WA 98273
360.416.7794

1 About Our College

President's Message

Whether you want to finish high school, upgrade your skills, pursue a bachelor's degree, or prepare for a career, Skagit Valley College (SVC) has options for you. SVC serves Skagit, Island, and San Juan counties by providing access to higher education for all who seek a better future.

SVC is deeply committed to equity in access, achievement, and community. Choose from on-campus, virtual, or hybrid classes and enjoy a diverse learning environment where you are a valued member of the Cardinal community. You belong here, and we will be here to provide the support you need to succeed. Our faculty and staff are ready to meet you where you are right now. We continue to adapt our instruction, services, and resources to meet your needs and support the health and safety of the SVC community.

On behalf of the SVC Board of Trustees, faculty, and staff, welcome to our community of learners. We look forward to supporting your educational goals and celebrating your academic success!

Sincerely,

Dr. Christopher Villa
President, Skagit Valley College

President and Board of Trustees

Dr. Christopher Villa, SVC President

Megan Scott O'Bryan, Board of Trustess Chair
Mariko K. Doerner, Board of Trustees Member, Vice-Chair
Kathryn Bennett, Board of Trustees Member
Ozell Jackson, III, Board of Trustees Member
Flora Perez-Lucatero, Board of Trustees Member

Mission

SVC cultivates student learning and achievement; contributes to the educational, personal, and economic success of students; and promotes equitable and thriving communities.

Vision

The primary focus of SVC is student-centered teaching and learning. We are committed to:

- Equitable student outcomes in access, achievement, and community;
- Our Guiding Principles;
- Decisions based on strategy and evidence;
- Development of our employees, and
- A diverse and inclusive college community where everyone belongs.

Guiding Principles

- Respect
- Integrity
- Open and Honest Communication
- Collaboration
- Compassion

A Quick Look at Skagit Valley College

SVC is a public community college, operating under the supervision of a local Board of Trustees appointed by the governor. SVC's district includes Skagit, Island, and San Juan counties.

Accreditation

SVC is accredited by the Northwest Commission on Colleges and Universities.

Accreditation of an institution of higher education by the Northwest Commission on Colleges and Universities indicates that it meets or exceeds criteria for the assessment of institutional quality evaluated through a peer review process. An accredited college or university is one which has available the necessary resources to achieve its stated purposes through appropriate educational programs, is substantially doing so, and gives reasonable evidence that it will continue to do so in the foreseeable future. Institutional integrity is also addressed through accreditation.

Accreditation by the Northwest Commission on Colleges and Universities is not partial but applies to the institution as a whole. As such, it is not a guarantee of every course or program offered, or the competence of individual graduates. Rather, it provides reasonable assurance about the quality of opportunities available to students who attend the institution.

Inquiries regarding an institution's accredited status by the Northwest Commission on Colleges and Universities should be

1 About Our College

directed to the administrative staff of the institution. Individuals may also contact:

Northwest Commission on Colleges and Universities
8060 165th Avenue N.E., Suite 100
Redmond, WA 98052
425.558.4224
www.nwccu.org

Brief History

Skagit Valley College (SVC), originally named Mount Vernon Junior College, began serving students in 1926 as an adjunct to Union High School in Mount Vernon. The name was changed to Skagit Valley Junior College in 1948, and in 1958 the present name was adopted. SVC has the proud distinction of being the second oldest community college in Washington state.

During the early years, classes were held on the top floor of the high school building. In 1955, a permanent site of 35 acres was purchased and a complex of six buildings was completed in 1959. Because of immediate increases in student enrollment, another 10 acres of land was purchased and a new Library building was constructed. Additional purchases of land have brought the total campus area in Mount Vernon to more than 110 acres.

Currently, SVC serves students at the Mount Vernon Campus in Mount Vernon and at the Whidbey Island Campus in Oak Harbor. The college also operates three centers: San Juan Center in Friday Harbor, Marine Technology Center in Anacortes, and the Cardinal Craft Brewing Academy in Burlington.

Skagit Valley College Foundation

Since 1978, generous donors, enthusiastic alums, and dedicated volunteers have helped sustain and grow the SVC Foundation with their donations, talent, and insight to build one of the premier community college foundations in Washington. The SVC Foundation is a 501(c)(3) nonprofit organization that assists students with scholarships, emergency funds, and childcare vouchers, enhances innovative instruction, and supports campus development programs. A volunteer Board of Governors provides leadership to the SVC Foundation. To learn more about opportunities to support SVC programs and students, visit **skagitfoundation.org** or call 360.416.7717.

2 The SVC Advantage

A Learning College

SVC has a deep commitment to putting learning first and providing you with challenging and affordable educational opportunities through many delivery modes.

Affordability

We know you look for the best value: SVC is an affordable option. Our tuition is lower than tuition at a four-year college or university, resulting in a real savings to you. If you find that you need financial assistance, scholarships, loans, and grants may be available to you. Find out more about Financial Aid and Scholarships in this catalog.

Diverse Course and Program Options

- As a transfer degree student, you can take your first two years of college at SVC and then transfer to a four-year college or university as a junior. Our graduates who go on to universities do as well or better than students who begin college at four-year schools.
- Or, if your goal is to retool or launch a new career, we offer Professional/Technical degrees and certificates in some of today's most in-demand fields: Nursing and Diesel Power Technology, to mention two.
- If you have been away from college for some time, our advising staff can help make the transition less stressful.
- Our Basic Skills courses are designed to help you brush up on subjects like Math, English and Reading, complete high school or get your GED®.
- Learn in the classroom or online.
- We also offer English Language Acquisition courses.
- Of course, you are also welcome to take courses for personal enrichment.

Exceptional Faculty/Small Class Size

At SVC, we keep class sizes small to allow personal interaction with your instructors and with other students. We believe communication, interaction, and critical thinking are essential skills to your success at SVC. Faculty members at SVC are dedicated to helping you achieve the well-rounded education and up-to-date skills that you expect. They bring their enthusiasm for learning into the classroom.

Quality Curriculum

If you want to challenge your mind, SVC is right for you! SVC is a national leader in teaching interdisciplinary classes. For example, you can study Drama and Physics in a Learning Community or study English linked with a distribution course. These innovative courses link faculty from different departments and have earned high praise from SVC graduates.

Commitment to Diversity, Inclusion, and Safety

SVC believes that you are a unique individual and that you deserve an opportunity to learn and live in a positive environment. Our goal is to foster values that promote open-mindedness, awareness, sensitivity, and respect for differences.

Research and Assessment Activities

In order to determine whether we are accomplishing our college mission, vision, and guiding principles, we evaluate and assess our programs, courses, services, and students.

Assessment starts with what matters most-you, the student. You may be asked to cooperate in various surveys, interviews, focus groups, and other data-collection efforts by the college. Since our mission is directed to the education of the whole person, your achievement can be measured only by evidence concerning the whole person. We use the information gathered through assessment for research purposes. The college protects the privacy of student records in keeping with the Family Education Rights and Privacy Act (FERPA.) For more information about FERPA, visit Enrollment Services at your campus or center. Our goal through assessment is to increase your learning, satisfaction, and success. We value your contribution to the assessment effort. Contact the Institutional Planning and Effectiveness Office at 360.416.7738 for more information.

3 Enrollment Services

Eligibility

SVC admits students on a quarterly first-come, first-served basis. If you are a high school graduate and you apply to the college, you are eligible for admission. If you are not a high school graduate, and you are 18 years of age or older, you may be admitted if:t

1. Your high school class has graduated; *or*
2. Your high school district has released you; *or*
3. You have successfully completed the General Educational Development (GED®) or other high school equivalency test

If you are under the age of 18 and a high school junior or senior, you may apply to participate in the Running Start Program. If you are not a high school junior or senior, you may seek to be conditionally admitted after receiving permission to enroll from the high school district in which you reside and the SVC Dean of Enrollment Services and Veterans Services.

Students are admitted to SVC in the order applications are received, as well as the quarter in which they want to begin. During registration, if a course fills, students who could not enroll in the course may place themselves on a course wait list. As vacancies occur, students on the course wait list will be enrolled in the order in which they appear on the wait list. See additional information about wait list procedures on the SVC website.

How to Apply

Mount Vernon Campus ••••••••360.416.7700
Whidbey Island Campus •••••••360.679.5319
San Juan Center ••••••••••••••360.378.3220

Submit a SVC Application, available online through the SVC website. Learn more about your steps to becoming a Cardinal here: **skagit.edu/getstarted**.

Nuestros empleados que hablan en español están disponibles para responder tus preguntas acerca de Skagit Valley College. Por favor llama a la línea directa en español al 360.416.7740. También puedes llamar al 360.416.7600 y marcar 8.

Running Start

To become a Running Start student, students should speak with their high school counselor and review the **skagit.edu/runningstart** website. Students must submit an admissions application and a current high school transcript as part of the enrollment process. A signed Running Start Enrollment Verification Form is required each quarter at the time a Running Start student registers.

How to Apply as a Drop-in Student

If you would like to attend SVC but are not seeking a degree or certificate, you may register as a "drop-in" student. Go to **skagit.edu/drop-in-students** for more information and current registration dates.

Veterans and Dependents of Veterans

Mount Vernon Campus ••••••••360.416.7610
Whidbey Island Campus •••••••360.679.5389

If you are a veteran, or a dependent of a veteran, you may be eligible to utilize Veterans Education benefits. For more information on Veterans benefits opportunities, see the Veterans Education Services section located in the Support Services section of this catalog, or contact one of our Veterans Education Offices.

Skagit Valley College complies with the Department of Veterans Affairs 85/15 rule for benefit enrollment purposes.

Selected programs of study at SVC are approved by the *Workforce Training and Education Coordinating Board's State Approving Agency (WTECB/SAA)* for enrollment of those eligible to receive benefits under Title 38 and Title 10, USC.

International Students

Mount Vernon Campus ••••••••360.416.7891

The International Programs and Study Abroad Office provides services to international students attending Skagit Valley College.

If you choose to study at Skagit Valley College, you are sure to have the opportunity to receive an excellent education. You will find many qualities that may meet your needs: a family-like atmosphere where everyone is welcome, an appreciation of diversity and a desire to enrich the education we provide with a global perspective.

Students from throughout the world choose SVC for many reasons including:

- Safer, smaller town environment
- Family-like atmosphere
- No TOEFL test is required for admission
- Dynamic Conversation Partner Program

3 Enrollment Services

- Peer Mentor Program
- Small classes, personal attention
- One-to-one attention through an International Student Office with staff members to help you with all your needs
- Excellent transfer record to 4-year institutions
- Academic English as a Second Language Program, if needed
- SVC International Homestay program
- Convenient on-campus student housing (dormitories)
- Access to personal academic and transfer advisors
- English tutoring services through the Tutoring Center
- Excellent technical programs for career training
- Active clubs and student organizations
- Close to Seattle and Vancouver, Canada
- Conveniently located to year-round recreation (skiing, hiking, scuba diving, golfing, and kayaking)
- Public transportation and airport pickup upon first arrival

ENGLISH LANGUAGE REQUIREMENTS

NO TOEFL POLICY

Skagit Valley College (SVC) does not require student applications to have a TOEFL score. Effective August 2015, student applications taking advantage of our NO TOEFL policy will be issued an I-20 for Language Training until proficiency has been met.

If you do not have an English proficiency test score (TOEFL, IELTS, or Duolingo) you will be given an English Placement Test (CAMLA) before registering for classes. Students whose test results show skills adequate for college work will be excused from English for Academic Purposes (EAP). Others will be required to take EAP classes until the language requirements are met.

The results of the English Placement Test will determine your placement in any one of the following areas of study: Intensive English, Bridge 1, Bridge 2, or Regular (College Level).

If you have a TOEFL, IELTS, or Duolingo score, the charts below show your placement.

Test of English as a Foreign Language (TOEFL)

SCORE RANGES	INTERNET-BASED	COMPUTER-BASED	PAPER-BASED
Intensive English	44 and Below	133 and Below	450 and Below
Bridge 1	45-52	133-150	450-473
Bridge 2	53-60	153-170	477-497
Regular (College Level)	61 and Above	173 and Above	500 and Above

International English Language Testing System

Intensive English	N/A
Bridge 1	N/A
Bridge 2	N/A
Regular (College Level)	5.5 or Above in Each Sub-Test

DuoLingo

Intensive English	70 and Below
Bridge 1	75-80
Bridge 2	85
Regular (College Level)	90 and Above

Intensive English

You may be placed in one of three levels. Each level takes three months (one quarter) to complete.

Bridge 1

Students in Bridge 1 are considered matriculated college students. Classes at the Bridge 1 level consist of a combination of academic and English preparatory classes. These classes are pre-selected and some count toward your graduation requirement for your degree.

Bridge 2

Like Bridge 1, these classes are a combination of academic and English preparatory.

Regular (College Level)

Students will be allowed to take regular SVC courses.

TRANSFER CREDITS

Many students receive transfer credits from their previous institutions which are located overseas. In some cases, students have received between 50 and 60 transfer credits. Students will need to go through a two-step process of having foreign transcripts evaluated. First, submit transcripts for initial evaluation by one of the member organizations from the *National Association of Credential Evaluation Services (NACES)* (**www.naces.org**). Second, after receiving the official evaluation from the NACES member organization, submit official evaluation results along with original transcripts and the SVC transcript request form to Enrollment Services for an official credit evaluation (Please note that all transcripts should be in English or accompanied by an official English translation). *It is recommended that students start this process as soon as possible.*

APPLICATION PROCESS

All documents should be written in English or accompanied by an official English translation. Original documents are required with all applications. It is your responsibility to make copies before submitting. We will not make copies for you. An admission decision will be made after all documents have been submitted and evaluated.

APPLICATION STEPS

1. Complete the on-line international Student Application.
2. Submit official bank statement and complete Certificate of Financial Responsibility (sponsor letter), located on the back of the application. (See **skagit.edu/international** for current costs.)
3. Submit official transcripts from high school and any previous colleges, including any ESL training.

3 Enrollment Services

4. Copy of picture page in passport.
5. If applicable, include a TOEFL score.** The SVC code for your TOEFL score is 4699.
6. $50 (U.S.) application fee.

In addition to the above application process, international students already attending school in the U.S. on an F-1 student visa and who plan to transfer to SVC should also submit:

- Copy of I-94
- Copy of all previous I-20s issued
- Transfer student information sheet completed by your current International Student Advisor
- Copy of passport pages that contain photograph and VISA information.

FOR ADDITIONAL INFORMATION:

Phone: 360.416.7891 | Fax: 360.416.7868
Email: internationaladmissions@skagit.edu
Web: **skagit.edu/international**

Determination of Residence

Residency status is determined at the time your application for admission or class registration is processed. The presumption is that before domicile is established, an individual must do everything a resident of Washington is required to do as stated below:

1. Students must prove conclusively that they have not come to Washington State primarily for educational purposes.
2. Have a domicile in Washington State for at least one year immediately before their term begins. The term Domicile is a legal term used to describe a person's true, fixed, and permanent home. A person can only have one legal domicile in the U.S. at a time. To establish a domicile in Washington, a person must prove physical presence in the state plus the intent to permanently remain in the state.
3. Establish domicile:
   - Permanent employment of 30+ hours/week will be a factor (if taking more than 6 credits a quarter during the first year of being present in Washington State).
   - Driver's license/state ID. Students must obtain a Washington State Driver's License or Washington State Identification Card within 30 days of arrival if they have a current out-of-state driver's license.
   - All motor vehicles, RV, boat, trailer registrations. All registrations must be registered in Washington. Students who own or drive a vehicle in Washington must be registered in Washington within 30 days of arrival.
   - Voter registration. Students who have a current out-of-state voter's registration must register to vote in Washington within 30 days of arrival. If an individual has previously registered to vote in another state, they must register to vote in Washington. If the student does not register to vote in Washington, this means that s/he may still vote absentee in the prior state of residency
   - Update all financial institutions with the current Washington State address.
   - Be financially independent for the current and prior calendar years or students under 25 years of age, not financially independent, will have residency determined based on domicile of at least one parent.
   - Financially independent students under 25 years of age must prove independence.

A student may be eligible for in-state tuition 12 months from the date they began to establish domicile in Washington State This is because the Washington statute says that domicile must be in existence for one year immediately prior to the first day of the quarter for which the student wants to be classified as a resident.

The determination for residency can be complicated and other factors may help students establish proof of domicile. After filling out the residency questionnaire, a residency expert will review it and may request additional documentation.

PROOF OF RESIDENCY

No single factor or specific combination of factors provide a guarantee that a student will be eligible for residency status. A student can begin to establish and document residency in the state of Washington by completing the following:

- Obtain a Washington State driver license or identification card.
- Register all motor vehicles, recreational vehicles, boat, and trailers in the state of Washington.
- Register to vote in the state of Washington
- Provide copies of your rent receipts (or lease agreements or home purchase papers).
- Open (or transfer) your checking/savings account to a bank branch in Washington State.
- Submission of a copy of the Federal Tax return.
- Keep receipts from Immigration and Naturalization Service that show the date your application for Permanent Resident Status was filed (if applicable).

After you have established domicile in the state of Washington for the required period, it is your responsibility to request a change in residency status. Applications for a change in classification will be accepted up to the thirtieth calendar day following the first day of the quarter for which application is made.

FOR ADDITIONAL INFORMATION

Contact residency@skagit.edu or call 360.679.5329.

RESIDENCY FOR ACTIVE DUTY MILITARY PERSONNEL

If you are active duty military, stationed in the state of Washington, you, your spouse, and dependents qualify for in-state resident tuition. In order to receive the resident tuition rate, you, your spouse, or dependent family members must provide documentation such as a copy of your military ID card or other appropriate documents, at the time of application for admission to Skagit Valley College.

3 Enrollment Services

STUDENT ELIGIBILITY TO PAY IN-STATE TUITION

The State Legislature adopted RCW 28B.15.011 through RCW 28B.15.15, which sets forth the requirements related to establishing residency in the State of Washington. On May 12, 2021, Governor Inslee signed S.B. 5194, which updates the residency requirements under the Affidavit of Residency.

Students wanting to establish in-state residency must fill out a residency questionnaire, provide documentation, and consult with the college residency officer.

Students must apply for residency by the 30th calendar day during the current quarter in which they seek reclassification. Students submitting documentation after the deadline may be eligible for residency by the first day of the next quarter.

For more information, please contact Enrollment Services at residency@skagit.edu or call 360.416.7700

4 Support Services

Counseling and Advising Services

Phone ••••••••••••••••••••••••••360.416.7654
Website ••••••••••••••••••••••skagit.edu/counseling

Counseling services: are also available for current or returning SVC students to provide academic/educational counseling, career counseling, confidential crisis intervention and/or short-term personal counseling, as well as referral to community resources to help students adjust to, cope with, and succeed in college.

Advising Services: for help in planning a course of study, completing an Education Plan, or choosing quarterly courses contact Counseling and Advising Services at the phone numbers or web page listed above.

For on campus employment options an online job board lists current work study opportuniti

Planning Your Program

Determining your class placement is the first step toward student success. To determine the best classes for you, your writing, reading, and mathematics skills will be assessed. This will tell us the level of coursework for which you are prepared, as well as your readiness for entry into specific programs.

If you place into different courses based on different placement methods, SVC will honor the highest of your course placements. Therefore, you want to make sure to review all your options. Go online to learn more information about each option.

Most new degree seeking students are required to complete a **First Quarter Experience** during their first quarter, this may be *CSS 103 - First Quarter Experience, BUS& 101 - Introduction to Business, CSS 109 - Career Emphasis or CSS 110 - College Orientation and Success* depending on their program of study. This course will provide you with a solid foundation for academic success and ensure that you have the tools and support you need.

In the First Quarter Experience, you will develop an education plan that outlines which courses you need to complete for your degree program. Ensuring that you have an appropriate plan to follow will help you to graduate in a timely manner and meet your goals. You are encouraged to schedule regular quarterly meetings with your advisor, before quarterly class registration, to help you decide on your classes and to update your degree plan. Prior to the advising appointment, you should study the class offerings listed in this catalog and in the quarterly schedule.

In you first quarter at SVC, you will be assigned an advisor to help you choose classes and plan your quarterly class schedule. Your advisor will discuss academic and employment opportunities in your field of study and answer your questions. It is recommended that students meet with their advisor prior to registration each quarter.

Academic Transfer Services

Phone ••••••••••••••••••••••••••360.416.7654
Website ••••••••••••••••••••••skagit.edu/counseling

Transfer services at each campus and center provide information and resources to assist you in choosing and planning your transfer to a four-year college or university.

It is highly recommended that you contact the college or university of your choice to learn about their application requirements. In addition, many academic majors have prerequisite courses, and admission criteria for entrance. It is important for you to contact your desired school at our transfer admission fair or directly, to learn these requirements. Contact information is available from your advisor.

TRIO Student Support Services Program

Phone ••••••••••••••••••••••••••360.416.7636
Website•••••••••••••••••••••••• skagit.edu/trio

TRIO welcomes you into a caring community that provides a sense of place at SVC. Our services support you in reaching your academic goals. Your success is our mission. TRIO Student Support Services is a federally funded program, one of more than 900 similar programs nationwide. TRIO staff and tutors provide a broad range of academic support services to first-generation students, low-income students, and students with disabilities. The following services are free to eligible students:

- **Tutoring**
  Our skilled student tutors provide one-on-one or group tutoring to help you excel in math, science, English and many other classes.
- **College Success Skills Classes**
  Our instructors will help you learn the study strategies used by the most successful college students. These include effective test-taking strategies, memory enhancement, time management, note-taking, reading comprehension and use of technology. You will develop an individual academic plan.

4 Support Services

- **Academic Planning and Preparation for Transfer**
  Advisors will work with you to look at your strengths and weaknesses, interests and personal situation, and make a plan that is right for you. We can help you understand our programs and degrees, including the variety of university transfer options and SVC Bachelor of Applied Science programs. You can also join us on university visitations.
- **Personal Support**
  If you would like help dealing with the personal demands, stress and responsibilities of being a college student, our staff will take the time to listen to your concerns and can help you arrive at effective solutions. They can direct you to campus and community resources and opportunities for personal growth.
- **Resources for Financing College**
  Financing one's education is often a concern. Our counselors and navigators will help you understand the many resources available to you for financing your college attendance, including transferring to the university or staying at SVC for a Bachelor of Applied Science program, and can provide assistance and advocacy within these systems. Additionally, they will provide an understanding of money management concepts, so you are able to make informed decisions about your financial choices.

Tutoring

Phone ••••••••••••••••••••••••••360.679.5393
Mount Vernon Campus ••••••••Lewis Hall 209
Whidbey Island Campus •••••••Oak Hall 107

Drop-in and online tutoring is available free of charge if you would like to supplement your classroom instruction. Subject areas most often tutored include math, writing, sciences, and more online and on both the Whidbey Island and Mount Vernon campuses. Tutoring in other subject areas may also be available at either campus. Please contact the Tutoring Center to learn more about tutoring subjects and schedules.

Veterans' Education Services

Mount Vernon Campus ••••••••360.416.7610 - Lewis Hall-115
Whidbey Island Campus •••••••360.679.5389 - Oak Hall-203

SVC has two Veterans' Education offices, located on the Mount Vernon Campus and the Whidbey Island Campus. These offices are staffed by veteran and military-affiliated students and staff who specialize in certifying students for their veteran and dependent education benefits, as well as helping students navigate college resources.

Services offered through the Veterans' Education Office include, but are not limited to:

- Assistance with obtaining necessary documents to utilize VA educational benefits.
- Eligibility requirements for and certification of VA educational benefits.
- Information on tuition waivers and residency status for eligible military-affiliated students.
- Understanding and assistance with navigating various college policies and processes (registration, applying for other financial resources, etc.)

More information on funding and educational benefits available for military-affiliated students can be found in the Tuition, Financial Aid and Funding section of the catalog

Disability Access Services

Phone ••••••••••••••••••••••••••360.416.7654

SVC offers a number of support services for students with disabilities to ensure equal and timely access to content, programs and facilities. Each campus is organized to provide reasonable accommodations, including core services to qualified students with disabilities.

You are eligible for services if you have a physical, mental or sensory impairment that substantially limits one or more of your life activities; if you are perceived to have such impairment; if you have a record of such impairment or have a condition that is recognizable and/or diagnosable.

WHAT SERVICES ARE AVAILABLE?

Services and accommodations will be determined on an individual basis. They may include, but are not limited to: accessible facilities, alternate educational media, alternate testing, manual and oral interpreters, note-taking, alternative text, scribes, and equipment. Prior to receiving services, students must schedule and meet with the Disability Access Services Coordinator for the purposes of an Access Planning Meeting, to identify which accommodations the student qualifies.

WHAT ARE YOUR RESPONSIBILITIES?

- Identify yourself as a student with a qualified disability.
- Provide documentation regarding your disability.
- Request reasonable accommodations at SVC in a timely manner.
- Meet and maintain academic standards.

Office for Student Equity and Inclusion Services

Mount Vernon Campus, C-190E
Phone ••••••••••••••••••••••••••360.416. 7611

Services available in Spanish (Servicios disponibles en español)

The Office for Student Equity and Inclusion Services (OSEI) assists traditionally under-represented students achieve academic success through programs and programming activities. Our programs facilitate student success by fostering and sustaining an inclusive campus community. Our goal is to develop programs and resources that promote equity, inclusion, and social justice awareness, education and appreciation for diversity. We support a welcoming, safe and constructive environment for all students.

On the Mount Vernon Campus, the OSEI is located in the Gary Knutzen Cardinal Center within the Center for Student Leadership, Equity, and Community (C-190).

4 Support Services

THE OFFICE FOR STUDENT EQUITY AND INCLUSION SERVICES OFFERS

- Monthly heritage events (for example, Hispanic Heritage Month, American Indian and Alaska Native Heritage Month, Women's History Month, Black History Month, Asian and Pacific Islander, and many more).
- Diversity and Equity Talks
- Support Services for Undocumented Students
- Leadership Development Opportunities
- American Indian/Alaska Native Community Gatherings
- Workshops and Diversity Conferences
- Champions of Diversity Scholarships
- Multicultural and Diversity Clubs
- Summer bridge programs for high school students
- Referrals to resources both on and off campus

Corrections Education

Mount Vernon Campus ••••••••360.416.7849

Corrections Education is a program designed to provide support and guidance to formerly incarcerated students who would like to further their education in order to achieve educational and/or employment goals. The program offers academic advising, career guidance, planning, and support throughout the student's time at Skagit Valley College. For more information, call 360.416.7849 or email aaron.kirk@skagit.edu.

International Programs

Mount Vernon Campus ••••••••360.416.7734

SVC has welcomed international students from all over the world since the late 1960s. Currently there are nearly 190 of these students studying at SVC, representing over 20 different countries. Understanding the unique needs of students studying abroad, the International Programs Office provides comprehensive support throughout the student's tenure at SVC. This means that from the time international students apply, are picked up at the airport, and until their graduation, the International Programs Office is constantly supporting students in their new environment, helping them to succeed.

Please note that the International Programs Office is also the International Admissions Office where I-20s are issued and students are tracked according to policies set by Student and Exchange Visitor Information System (SEVIS) that has been created by the Department of Homeland Security.

Learning Resources

TECHNOLOGY FOR YOUR USE

SVC has a continuing commitment to provide current technologies to assist you in the successful pursuit of your education. The SVC library has laptops for individual student use, general access and tutoring labs are equipped with student computers, and classrooms and study lounges have wireless access and multimedia units to support eLearning and educational networking. For added convenience to students, both Mount Vernon and Oak Harbor campus computer labs operate with extended hours while classes are in session.

Student Online Services (SOS) is available via phone, email, chat, and the walk-in window, as well as various online and face-to-face tutoring sessions. Help and training are available so you can successfully navigate Canvas, SVC's online eLearning environment. Knowledgeable computer support is available in the multimedia production lab to help you with audio visual projects as well assistance with collaborative computer tools such as Tegrity, Collaborate, and Skype.

LIBRARY SERVICES

Website••••••••••••••••••••••••library.skagit.edu
Email ••••••••••••••••••••••••••mv.library@skagit.edu
MV General Information •••••••360.416.7850
Reference Desk ••••••••••••••••360.416.7847
Circulation Desk ••••••••••••••360.416.7837
Whidbey Island Campus •••••••360.679.5322

The library is an essential part of educational life at SVC. Many classes require library research to complete assignments. Our library collection of more than 78,000 print, e-books, and media titles is developed to support the different disciplines taught at SVC. The SVC library subscribes to multiple online databases, including Academic Search Premier and ProQuest Research Library, which index over 10,000 periodicals, ebooks, and newspapers. More than 5,000 of the indexed titles are full text. Other databases provide access to reference books and articles in various disciplines such as health, science, social science, literature, and art. The library collection and online databases are accessible through the library's website. A daily courier service between the campuses allows quick access to materials at either the Mount Vernon Campus or Whidbey Island Campus libraries.

THE LIBRARIES OFFER

- Individual reference help offered in person or by telephone
- Online chat and email reference help available on the library web site by clicking "Ask a Librarian".
- Online Research Guides that provide library research assistance for specific courses and college initiatives.
- Research Instruction workshops taught by library faculty in the library or in the classroom.
- Conference rooms for group study with large screen monitors and computer equipment (Mount Vernon Campus only).
- Silent Study Room with study carrels.
- Meeting room with large screen monitor and computer equipment (Mount Vernon Campus only.)
- Desktop computers with Microsoft Office (Word, Excel, PowerPoint, Access, and other program-specific software) at the Mount Vernon and Whidbey Island campuses (Mount Vernon also offers Apple computers).
- Laptop computers with Microsoft Office for library use only and for one-week checkout with wireless connectivity.
- Interlibrary loan services to enrolled students.

4 Support Services

Library hours at Mount Vernon and Whidbey Island campuses are planned to accommodate both day and evening students. Please check the web site for current hours of operation. Learners are served on a 24-hour, seven-day basis through internet access to the library collection and periodical databases.

Library services for students at San Juan and Marine Technology Centers are available via the library website. Materials may be requested online. They will be mailed to the appropriate center.

Housing - Mount Vernon Campus

Mount Vernon Campus ••••••••360.416.7650

Campus View Village is the affordable and active on-campus student housing complex offered through the Skagit Valley College Foundation. Campus View Village is just steps away from the Mount Vernon campus and is a popular living community among student-athletes, international students, and others looking for affordable housing and close campus proximity.

Leases are quarter-by-quarter, making it an ideal option for students who may not be here for a full year. Also, rent is all-inclusive of utilities-one price covers housing, heat, gas, electricity, garbage, water, cable TV, and WiFi. Each fully furnished unit is a four-person apartment, with individual bedrooms and shared bathroom and kitchen/common space.

Applications are on a rolling basis and occupancy is filled on a first come, first served basis, so apply early! For more information about on-campus housing or to fill out an application, visit **skagit.edu/cvv**, email us at mv.cvv@skagit.edu, or call 360.416.7650. Hours are: 8:00 a.m. to 7:00 p.m. Monday through Friday (Monday through Thursday during the months of July and August).

Food Services

A cafeteria on the Mount Vernon Campus is open every school day. The Culinary Arts students prepare meals, bringing quality and variety to the menu. Additionally, there is an assortment of pre-packaged grab and go items.

Bookstores

Mount Vernon Campus ••••••••360.416.7728
Whidbey Island Campus •••••••360.679.5313

The Cardinal Bookstore is located on the Mount Vernon and Whidbey Island Campuses, with support for San Juan Center available at either store.

The bookstore stocks a wide variety of items, including course materials and textbooks-both new and used-as well as school supplies, uniforms, SVC insignia items and clothing, backpacks, and art materials.

At the end of each quarter, the bookstore offers a textbook buy-back service. The bookstore web site **www.cardinalbookstore.com** can be used to purchase textbooks as well as to look up textbook information and pricing. These services can also be accessed through the College's online registration process.

Both bookstore locations remain open in the evenings on selected days during the first week of the quarter.

Cardinal Complete

The Cardinal Complete Program offers funding and scholarship support to cover the cost of tuition and fees for students who are within 15 credits of completion of an eligible degree or certificate program. In addition to being within 15 quarters of completion, a student must not owe a debt to SVC or be on Financial Aid Suspension to qualify. Awards are based on funding levels. For more information, please visit: **skagit.edu/funding-your-education/**.

Student Emergency Assistance

The Student Emergency Assistance Fund was established to provide assistance to students at risk of not continuing their education due to unexpected financial dilemmas. The fund is only allocated for sudden, urgent, or unforeseen occurrences that require immediate attention and would impact the student's ability to stay in college and complete their educational goal. Students must demonstrate "emergency" financial need.

For more information about Emergency Assistance and to apply, visit **skagit.edu/financial-aid/types-of-aid/student-emergency-assistance-grant/**.

Childcare Assistance

The Childcare Assistance fund can assist you with the cost of out-of-pocket dependent care expenses for dependents residing with you during the academic year for care incurred as a result of attending classes at SVC (that is, during periods that include but are not limited to class time, study time, fieldwork, internships, and commuting time to and from SVC). Dependents can include: any children for whom you are the legal guardian, step children, or siblings who reside in your household for whom you are responsible for providing care. Childcare providers must be licensed by the Washington State Department of Early Learning. Does not include children over the age of 12. Must meet income guidelines to qualify.

For more information about Childcard Assistance and to apply, visit **skagit.edu/financial-aid/types-of-aid/emergency-assistance/**.

5 Tuition, Financial Aid, and Funding

Tuition

For academic purposes and certification for various benefits (insurance, student loans and financial aid, social security, tax credits, etc.), full-time status is defined as 12 or more credits. The tuition schedule, special fees and other class fees are listed in this catalog, on the website (**skagit.edu/admissions/tuition-fees/**), or you can call one of the following numbers for more information:

- **Mount Vernon** 360.416.7600
- **Whidbey Island** 360.679.5330
- **San Juan** 360.378.3220

Note: *Tuition rates are subject to change, please check the SVC website (**skagit.edu/admissions/tuition-fees/**) for updates.*

LOWER DIVISION TUITION TABLE

Courses below 300-level; does not apply to CCB, ELA, or HSC courses

NO. OF CREDITS	WASHINGTON RESIDENT	NON-STATE RESIDENT	NON-US RESIDENT
1	$123.58	$185.18	$317.95
2	$247.16	$370.36	$635.90
3	$370.74	$555.54	$953.85
4	$494.32	$740.72	$1,271.80
5	$617.90	$925.90	$1,589.75
6	$741.48	$1,111.08	$1,907.70
7	$865.06	$1,296.26	$2,225.65
8	$988.64	$1,481.44	$2,543.60
9	$1,112.22	$1,666.62	$2,861.55
10	$1,235.80	$1,851.80	$3,179.50
11	$1,296.82	$1,919.00	$3,248.46
12	$1,357.84	$1,986.20	$3,317.42
13	$1,418.86	$2,053.40	$3,386.38
14	$1,479.88	$2,120.60	$3,455.34
15	$1,540.90	$2,187.80	$3,524.30
16	$1,601.92	$2,255.00	$3,593.26
17	$1,662.94	$2,322.20	$3,662.22
18	$1,723.96	$2,389.40	$3,731.18

5 Tuition, Financial Aid, and Funding

UPPER DIVISION TUITION TABLE

300- and 400-level courses

NO. OF CREDITS	WASHINGTON RESIDENT	NON-STATE RESIDENT	NON-US RESIDENT
1	$240.10	$361.76	$674.70
2	$480.20	$723.52	$1,349.40
3	$720.30	$1,085.28	$2,024.10
4	$960.40	$1,447.04	$2,698.80
5	$1,200.50	$1,808.80	$3,373.50
6	$1,440.60	$2,170.56	$4,048.20
7	$1,680.70	$2,532.32	$4,636.45
8	$1,920.80	$2,894.08	$5,397.60
9	$2,160.90	$3,255.84	$6,072.30
10	$2,401.00	$3,617.60	$6,747.00
11	$2,413.33	$3,630.85	$6,760.25
12	$2,425.66	$3,644.10	$6,773.50
13	$2,437.99	$3,657.35	$6,786.75
14	$2,450.32	$3,670.60	$6,800.00
15	$2,462.65	$3,683.85	$6,813.25
16	$2,474.98	$3,697.10	$6,826.50
17	$2,487.31	$3,710.35	$6,839.75
18	$2,499.64	$3,723.60	$6,853.00

Fees

Subject to change by the Washington State Legislature and/or the Skagit Valley College Board of Trustees.

ADDITIONAL FEES

CCB-ELA-HSC21 Fee ..... $25 per person per quarter

STUDENT FEES

Student Technology Fee ..... $5 per credit ($40 maximum)
General Use Fee ..... $5.50 per credit ($82.50 maximum)
Universal Technology Fee ..... $15 per credit
Student Building Fee ..... $1.50 per credit ($15 maximum
Student Self-Assess Fee ..... $1.50 per credit ($15 maximum))
State Classified Employees $20
Expedited Transcript ..... $25 per transcript
Enrollment Services Digital Transcript $3
Student ID Card Replacement $10
Replacement Diploma $10

CLASS FEES (PER QUARTER)

ALLIED HEALTH EDUCATION (AHE)

AHE 105, 110, 200 ..... $50
AHE 107, 114, 221 ..... $150
AHE 106, 133,135 ..... $75
AHE 101 ..... $20
AHE 132, 134, 201, 203 ..... $25
AHE 108, 113, 115, 120, 122, 123 ..... $125
AHE 117 ..... $350
AHE 202 ..... $35
Allied Health and Nurse Name Tag Replacement $5

ART

ART(&) 100, 142, 143, 144, 160 ..... $10
ART(&) 101, 102, 107, 111, 112, 181, 182, 201, 202, 241S, 242, 242S, 251, 253 ..... $40

AUTOMOTIVE TECH (AT)

AT 101, 201 ..... $105
AT 206 ..... $140
AT 121, 131, 207, 215 ..... $245
AT 107, 124, 133, 212, 215, 220, 225 ..... $280
AT 141 ..... $420

BASEC LAB FEES

ENVC 302 ..... $25
CHEM 301, ENVC 304, 310, 315, 320, 327, 405, 407, 410, 412, 420, 422, 424 ..... $80

BASM FEES

BASM 324, HCM 327 ..... $10
BASM 332, HCM 339, PSYC 412 ..... $15
BASM 301, 332, 334 ..... $15
BASM 410 ..... $20
PHIL 440, 446 ..... $20

BIOLOGY

All courses with lab components, except BIOL 150 and BIOL& 260 ..... $65

5 Tuition, Financial Aid, and Funding

Marine Biology (BIOL 205)
Summer Field Study Course Fee $1,000
BIOL 150 ..... $100
BIOL 270, 271 ..... $1,500

COMPOSITES TECHNOLOGY (CMPST)
CMPST 121, 123, 126, 127, 128, 129, 130, 220 ..... $200

COMPUTER INFORMATION SYSTEMS (CIS)
CIS 146, 147 ..... $5

COMPUTER SCIENCE (CS)
CS Courses (per course) $20

CRAFT BREW (BRW)
BRW 101, 103, 105, 120, 135 ..... $25
BRW 160 ..... $250
BRW 161 ..... $300
BRW 198 ..... $75

CRIMINAL JUSTICE (CJ)
CJ 215 ..... $35

CULINARY ARTS (CUL)
CUL 123 ..... $130
CUL 298 ..... $125
CUL 165, 171, 185, 237, 238, 239, 240, 241, 242 ..... $200

DATA MANAGEMENT AND ANALYTICS (DATA)
DATA 130, 199, 230 ..... $10
DATA 120 ..... $25
DATA 101, 105, 110, 215, 225, 245 ..... $100

DENTAL FOUNDATIONS (DEN)
DEN 110, 112, 114 ..... $50

DESERT ODYSSEY LEARNING COMMUNITY
..... $1,000

DIESEL POWER TECHNOLOGY (DSL)
DSL 102, 103 104, 202, 203, 204 ..... $150

DRAMA
DRMA 101, 133, 134, 135, 136, 137, 138, 139, 151, 152, 153, 154, 230, 235 ..... $20

EARLY CHILDHOOD EDUCATION (ECED, EDUC)
ECED& 105, 160, 190 ..... $10
EDUC& 122 ..... $10

ENGINEERING
ENGR& 144, ENGR 216 ..... $100

ENGLISH LAB FEE
ART(&) 100, 142, 143, 144, 160 ..... $10
DRMA(&) 101, 236, 237, 238 ..... $10
ENGL(&) 99, 101, 102, 103, 112, 113, 115, 120, 152, 202, 220, 233, 250, 254, 283, 299, 324 ..... $10
HIST& 146, 147, 148, 214, 242 ..... $10
MUSC(&) 105, 127, 128, 129 ..... $10
PHIL(&) 101,115 ..... $10
POLS& 101,102 ..... $10
PSYC& 100 ..... $10
SOSC 100 ..... $10

ENVIRONMENTAL SCIENCE
Course Fee: Intro to Environmental Science(ENVS& 101)
Summer Field Study $500

ENVIRONMENTAL CONSERVATION LAB FEE:
ENVC 225 ..... $40
ENVC 101, 102, 106, 112, 122, 123, 130, 140, 165, 201, 202, 210, 211, 212, 220, 221, 222, 231, 232, 244, 249 ..... $75

FIRE SCIENCE FEES
FIRE 120 ..... $900
FIRE 121, 122 ..... $450
FIRE 126 ..... $55
FIRE 130 ..... $30
FIRE 140 ..... $100
FIRE 160 ..... $260
FIRE 240 ..... $120
FIRE 242 ..... $235
FIRE 243 ..... $270
FIRE 246 ..... $68
FIRE 247, 248 ..... $70

GENERAL LIABILITY INSURANCE COVERAGE
AHE 199, AT 199, BUS 199, CUL 199, DTA 199, DSL 199, ECED& 120, ENVC 199, FIRE 199, HSERV 199, MANF 199, MT 199, MIT 199, WT 199 ..... $10

GEOGRAPHIC INFORMATION SYSTEMS LAB FEE
GIS 101, 102, 107, 202, 203 ..... $30

HUMAN SERVICES
HSERV 198, 203, 232, 245 ..... $10

MANUFACTURING
MANF 102, 110, 121, 140, 145, 150, 156 ..... $35
MANF 103, 122, 125, 177, 210, 215, 250, 256 ..... $70
MANF 114, 120 ..... $75
MANF 115, 132, 137, 190, 205, 227, 277 ..... $100
MANF 148, 149 ..... $125
MANF 218 ..... $5
MANF 242, 247, 278 ..... $150
MANF 262, 267, 279 ..... $200

MARINE MAINTENANCE TECHNOLOGY LAB FEE
MT 105, 132, 133, 136, 160, 161, 204, 270 ..... $105
MT 216, 236, 240 ..... $50

MATH
Math Lab Course Fee $22

MULTIMEIDA GAME AND WEB DEVELOPMENT
MIT 205 ..... $20

MUSIC/MUSIC LAB FEES
MUSC(&) 105, 127, 128, 129 ..... $10
Music Lab Fees:
MUSC(&) 108, 111, 112, 113, 121, 122, 123, 137, 138, 141, 142, 143, 144, 160, 211, 212, 221, 222, 223, 241, 242, 243 ..... $20

5 Tuition, Financial Aid, and Funding

Music Lab Fees:
MUSC 174, 181, 274, 28 ..... $600

NATURAL SCIENCE
Natural Science Field Study Course Fee BIOL 270/272; NASC 160, 161 ..... $1,000

NURSING
NURS 102 ..... $95
NURS 285, 288, 298 ..... $30
NURS 173, 273 ..... $360
NURS 276, 279 ..... $180
NURS 171, 181, 191, 271, 281 ..... $50
NURS 182, 192, 282 ..... $135
NURS 183 ..... $300
NURS 272 ..... $170
NURS 291 ..... $485
NURS 292 ..... $60
NURS 294 ..... $80
Allied Health and Nurse Name Tag Replacement $5
Nursing Medical Malpractice Insurance and General Liability Insurance (combined) (per year):
NURS 102, 171, 275, 281, 294 ..... $19
Medical Malpractice Insurance and General Liability Insurance (per year): AHE 116, 130, 136; DEN 105, FIRE 243, NURS 102, 171, 275, 281, 294 ..... $19

NUTRITION
Nutrition Lab fee $20

OFFICE AND BUSINESS TECHNOLOGY FEES
OBT 122, 162 ..... $10

PARK RANGER LAW ENFORCEMENT ACADEMY (PRLEA)
PRLEA 241 ..... $1,750

PHYSICAL EDUCATION LAB FEE
PE All (Except PE 114, 200) $3
PE 105, 106, 107, 167 ..... $10
PE 114 ..... $23
PE 200 ..... $25

SCIENCE LABS
BIOL& 260 ..... $100
EASC 102, ENVS& 101, OCEA& 101 (Distance Education) $58
BIOL&, ENVS&, NASC lab courses $65
ASTR&, EASC&, CHEM&, GEOL& PHYS& lab courses $58

STUDENT INTERN
Professional Liability (Non-Medical) Insurance (per year)
AHE, AT, BFET, BUS, CUL, DATA, DSL, EDUC, ENVC, FIRE, GIS, HSERV, MANF, MT, MIT, WT, any 199 course $10

SWIMMING
Whidbey Island Campus $10

WELDING
WT 111, 112, 113, 114, 116, 117 ..... $25
WT 131, 133, 231, 234 ..... $65
WT 200, 211, 212, 213, 221, 222, 223 ..... $250

LOCKERS
Non-disable $5

PARKING FINES
General $10
Carpool Parking without permit $20
If parked in handicapped without permit $75
If parked in fire lanes $50

TESTING
Credit by exam (per credit). Tuition costs must be paid in addition to the $2/credit $2
Retest for COMPASS/ACCUPLACER $25
GED® $150
Writing and other Retests $30
GED® Transcript $4
Prior Learning Credit (per credit) $60
Prior Learning Assessment ..... $250/flat fee
Non-SVC proctored private tests ..... $35 for 1st hr.and $20 ea additional hr.

State Support of Higher Education Students

The average cost to educate a resident full-time community or technical college student for the 2022-23 academic year is $15,023. Students pay an average of $3,527 in tuition toward this cost. The remaining $11,496 is an "opportunity pathway" provided by the State and is funded by state taxes and other sources. The amounts shown are averages for a full-time, resident student. The actual tuition a student pays will vary due to credit load, residency status, and other factors.

Pursuant to RCW 28B.15.0681 the sources of all institutional revenue received during the prior academic year and the uses of tuition revenue collected during the prior academic year can be found online: **skagit.edu/hb-1975-disclosure**.

Net Price Calculator

SVC has provided a tool intended to assist you in determining the *estimated* net price of your education. The net price is calculated as estimated cost of attendance (tuition and required fees, books and supplies, room and board (meals), and other approved related expenses) minus estimated grant and scholarship aid. All figures provided by the calculator are estimates and are subject to change. While all efforts are made to ensure the accuracy of the calculator, every student's situation is different, so students are encouraged to do their own calculations as well. The calculator can be found on the college website at **skagit.edu/netpricecalculator.**

Basic Education

Tuition for the program is $25 per quarter. Students may qualify for a tuition waiver based on income. Students who want to improve English language skills, complete a HS21+ Adult High School Diploma or GED®, or improve academic math, reading, and writing skills to prepare for college-level course work may be eligible for Basic Education classes. To

5 Tuition, Financial Aid, and Funding

enroll in English Language Acquisition (ELA), High School Completion (HSC), or College and Career Bridge (CCB), students must complete a registration form for an orientation class (ELA 010 or CCB 010). During the orientation, students will be assessed and placed in the appropriate classes. For more information or assistance, call 360-416-7640 or visit Lewis Hall room 127 on the Mount Vernon Campus.

Penalties for Non-Payment

Tuition and fees are the student's responsibility. Failure to attend a class does not constitute a course drop/withdrawal. Students who do not officially withdraw will be assessed full tuition and fees, and refunds will not be made. Requests for late drops will not be granted simply because the student was unaware of the policies, or failed to submit a drop form.

In the event of non-payment, the college may pursue the collection of amounts due as allowed by law, and will add collection costs to the amount due. Unpaid accounts may be sent to an outside collection agency and may be reported to one or more credit bureau reporting services. Collection agency fees of up to 50% will be assessed on the unpaid balance of an account, after internal collection efforts have failed to result in full payment. Students are responsible for paying all collection fees assessed. In the event of a disagreement about payments due, you may request an informal hearing with the Vice President of Student Services.

Refund Policy

Information on the Refund Policy can be found in Policies and Regulations (pp. 238).

Veterans/Military-Affiliated Tuition Funding

SVC offers a variety of Veterans' Education resources and services, including, but not limited to the administration of education benefits and tuition assistance. For more information on these services, please see the Veterans' Education Services section located in the Student Services section of the catalog.

ELIGIBILITY FOR RESIDENT RATE TUITION

ESSB 5355 modified the definition of resident student to comply with federal requirements established by the Veterans Access, Choice, and Accountability Act of 2014 (Choice Act). The Choice Act requires states to charge in-state tuition and fees to "covered individuals" training under the Post-9/11 GI Bill® and the Montgomery GI Bill®.

A "covered individual" is defined in the Choice Act as:

- A Veteran who lives in Washington (regardless of his/her formal state of residence) and enrolls at SVC within three years of discharge from a period of active duty service of 90 days or more.
- A spouse or child using transferred benefits who lives in Washington (regardless of his/her formal state of residence) and enrolls at SVC within 3 years of the transferor's discharge from active duty.
- A spouse or child using benefits under the Marine Gunnery Sergeant John David Fry Scholarship who lives in Washington (regardless of his/her formal state of residence) and enrolls at SVC within 3 years of the service member's death in the line of duty following a period of active duty service of 90 days or more.
- Veteran students utilizing Chapter 31 Vocational Rehabilitation and Employment Benefits (Effective March 1, 2019).

Individuals who initially meet the requirements above will maintain "covered individual" status as long as they remain continuously enrolled at SVC even if they are outside the 3-year window or enroll in multiple programs. Continuity of enrollment is not broken by holiday vacations, vacation periods, periods during the school year between quarters, or by non-enrollment in summer quarter.

It is not necessary for the student to take steps to establish Washington as their permanent domicile although they may want to do so if they plan to stay in Washington, especially if they plan to attend college after they exhaust their benefits.

Effective August 1, 2021, veteran students utilizing VA Educational Benefits to pay for at least one class qualify for resident tuition. These benefits include:

- Montgomery GI Bill® - Active Duty
- Vocational Rehabilitation and Employment
- Post-9/11 GI Bill®
- Marine Gunnery Sergeant John Fry Scholarship
- Edith Nourse Rogers STEM Scholarship

Additionally, veteran dependents (spouses and children) actively using the Post 9/11 GI Bill® who live in Washington also qualify for resident tuition, regardless of domicile or how long they have lived in Washington.

Note: *This does not meet definitions of a "resident student" as defined in RCW 28B.15.012(2), to meet eligibility for state aid.*

VETERANS BENEFITS AND TRANSACTION ACT OF 2018 VA PENDING PAYMENT COMPLIANCE

In accordance with Title 38 US Code 3679 subsection (e), this school adopts the following additional provisions for any students using U.S. Department of Veterans Affairs (VA) Post 9/11 G.I. Bill® (Ch. 33) or Vocational Rehabilitation and Employment (Ch. 31) benefits, while payment to the institution is pending from the VA. This school will not:

- Prevent the students enrollment.
- Assess a late penalty fee to.
- Require student secure alternative or additional funding.
- Deny their access to any resources (access to classes, libraries, or other institutional facilities) available to other students who have satisfied their tuition and fee bills to the institution.

However, to qualify for this provision, such students may be required to:

- Produce the Certificate of Eligibility by the first day of class.
- Provide written request to be certified.
- Provide additional information needed to properly certify the enrollment as described in other institutional policies.

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In addition

- SVC complies with the Department of Veterans Affairs 85/15 rule for benefit enrollment purposes.
- Selected programs of study at SVC are approved by the Workforce Training and Education Coordinating Board's State Approving Agency (WTECB/SAA) for enrollment of those eligible to receive benefits under Title 38 and Title 10, USC.

The Veterans Education Offices at SVC require the following documents from students who will be using Veterans Education Benefits:

- Proof of Eligibility (up-to-date Award letter, Certificate of Eligibility, other Eligibility Document).

VETERANS TUITION DISCOUNT

A veteran who was honorably discharged from the United States Armed Forces may be eligible for a 20% tuition waiver.

The veteran must meet ONE of the following criteria:

- While serving as an active or reserve member in the U.S. Armed Forces or National Guard, the veteran served in a war, conflict fought on foreign soil, international waters, or in another location in support of U.S. Armed Forces that were on foreign soil or international waters.

  OR
- The veteran served in an Active Duty component of the U.S. Armed Forces, but did not serve in a war, conflict fought on foreign soil, international waters, or in another location in support of the U.S. Armed Forces that were on foreign soil or international waters.

And must meet BOTH of the following criteria:

- A Washington Domiciliary
- Qualifying services is recorded on the veteran's DD214 or other official documents

TUITION WAIVERS FOR FAMILIES OF FALLEN OR 100% DISABLED VETERANS AND NATIONAL GUARD MEMBERS

SVC will waive all tuition and certain fees for the children, adopted children or stepchildren, and spouses of eligible veterans or National Guard members, who died while on active duty, are permanently and totally disabled because of service connected injury or illness, are missing in action, are prisoners of war, or who are rated by the Veteran's Administration as 100% disabled.

To be eligible, a child must be between the age of 17 and 26 and the child of a Washington State domiciliary. A surviving spouse must be a Washington domiciliary, and it must have been ten years or less since the loss. In addition, the spouse must not have remarried. Each recipient's continued eligibility is subject to the school's satisfactory progress policy.

Total credits earned using this waiver may not exceed two hundred quarter credits, or the equivalent semester credits. The **250 quarter credit limit** applies to all combined credits earned via this waiver at state of Washington colleges and universities.

Note: *An "eligible veteran or national guard member" means a Washington domiciliary who was an active or reserve member of the U.S. military in a war or conflict fought on foreign soil or in international waters, and if discharged from service, has received an honorable discharge.*

MILITARY TUITION ASSISTANCE (TA)

Tuition Assistance (TA) offers financial support for eligible active duty military personnel, to assist with the cost of tuition. Students utilizing TA are provided with a waiver of all college fees. Active duty military personnel using TA for the first time must contact the VEC (Virtual Education Center) or ESO (Education Service Office) for their appropriate branch of service. It is recommended that you submit applications to your command a minimum of 30 days prior to the start of the quarter for which you plan to attend. TA requests must be approved by your command between 120 and 14 days prior to the start of the quarter. In addition to applying to your command, you also need to complete the admission process with Skagit Valley College.

For further assistance, or general questions regarding Military Tuition Assistance, contact: Enrollment Services on the Whidbey Island Campus: 360.679.5329.

MY CAREER ADVANCEMENT ACCOUNT SCHOLARSHIP (MyCAA)

The MyCAA Scholarship is available for eligible military spouses to pursue licenses, certificates, certifications, or certain associate degrees necessary to gain employment. To use MyCAA, you must create an account online at **https://aiportal.acc.af.mil/mycaa**. All approvals for MyCAA must be completed 15 days prior to the start of the quarter. In addition to applying through the MyCAA portal, you also need to complete the admission process with Skagit Valley College.

For further assistance, or general questions regarding MyCAA, contact: Enrollment Services on the Whidbey Island Campus: 360.679.5329.

Financial Aid

Mount Vernon ••••••••••••••••••360.416.7666
Whidbey Island••••••••••••••••••360.679.5320

As a student at Skagit Valley College, financial aid in the form of grants, loans, and employment may be available to assist with educational expenses. Financial aid is awarded according to policies set by the U.S. Department of Education, the state of Washington, and Skagit Valley College. To determine your financial need, you must first complete a Free Application for Federal Student Aid (FAFSA) at **www.fafsa.gov** or, if you are

5 Tuition, Financial Aid, and Funding

ineligible to complete the FAFSA, the Washington Application for Student Financial Aid (WASFA) application at **www.readysetgrad.org**. Please visit the Financial Aid Office for assistance with completing the applications. Most financial aid is awarded on a first-come, first-served basis relative to need and subject to availability of funds. Priority funding dates are established on an annual basis and are published on the Financial Aid website (**skagit.edu/financial-aid/**).

ELIGIBILITY DETERMINATIONS

The information provided on the FAFSA/WASFA determines your Expected Family Contribution (EFC). The EFC will then be subtracted from the budgeted "cost of attendance" to determine your financial need. Need-based aid (grants and waivers) is awarded based on unmet financial need. After your FAFSA/WASFA application has been received, additional information will be requested of you to verify the information provided and to assist in an equitable distribution of available funds. Students who have not been awarded financial aid are still responsible for the payment of their tuition and fees. Students who do not have completed applications submitted by the priority deadlines established by SVC will not be guaranteed to have financial aid awarded by tuition deadlines. Students should familiarize themselves with the priority filing deadlines on the SVC Financial Aid website (**skagit.edu/financial-aid/**).

Federal regulations require that students must have obtained a high school diploma or GED® or have demonstrated an ability to benefit in an adult learning environment (as defined by the U.S. Department of Education) in order to be eligible for financial aid funding. If you receive financial aid, you must maintain satisfactory academic progress (SAP), in accordance with the SAP policy, which is available on the SVC Financial Aid web page (**skagit.edu/financial-aid/**).

FINANCIAL AID REFUND AND REPAYMENT POLICY

Financial aid students are subject to the Federal Title IV, State, and institutional refund and repayment policies. It is the responsibility of the financial aid recipient to carefully review these policies to determine the ramifications of withdrawing or ceasing attendance. Refund and repayment policies are outlined in the Conditions of Award, available on the SVC Financial Aid website (**skagit.edu/financial-aid/**). Sample repayment calculations are available upon request. Financial Aid students who officially or unofficially withdraw from all classes may owe a repayment of federal, state, and/or institutional aid.

GRANTS

FEDERAL PELL GRANT

A federal grant program, based on significant financial need, for students enrolled in an eligible degree or certificate program. Eligibility is established by completing the FAFSA.

FEDERAL SUPPLEMENTAL EDUCATIONAL OPPORTUNITY GRANTS (SEOG)

A federal grant program for students with exceptional financial need, who are enrolled at least half-time (6+ credits). Preference is given to students receiving Pell Grants.

WASHINGTON COLLEGE GRANT (WCG)
(FORMERLY STATE NEED GRANT)

An income-based state grant program for low-income state residents based on family size and income. State Need Grant is dependent on limited state funding, and is awarded on a first-come, first-served basis with priority given to students who are in the College Bound Scholarship program. Eligibility is established by completing the FAFSA or WASFA. Students must be enrolled in at least 3 aid-eligible credits.

COLLEGE BOUND SCHOLARSHIP (CBS)

The College Bound Scholarship program provides financial assistance to low-income students who want to achieve the dream of a college education. Students who enrolled in the CBS program in 7th or 8th grade, completed high school with a 2.0 GPA or higher, and meet all other SVC financial aid requirements will be eligible for the maximum award amount each year. Students must be enrolled in at least 3 aid-eligible credits.

WASHINGTON STATE TUITION WAIVER

State tuition waivers may be awarded to state residents with demonstrated financial need, to assist with tuition payment.

SVC GRANTS

An institutional grant awarded to students with demonstrated financial need, to assist with direct and indirect costs associated with their cost of attendance, as determined by SVC. Students must meet residency requirements to qualify.

EMPLOYMENT

FEDERAL, STATE, AND INSTITUTIONAL WORK-STUDY

Work-Study programs offer part-time on-campus work for students with demonstrated financial need. If eligible, you may work up to 19 hours per week and choose from a variety of jobs that offer valuable career-related experience. Work-Study allows you to earn an hourly wage for work. Paychecks are issued twice a month. Placements are not guaranteed. Program eligibility is available to enrolled students who have room in their cost of attendance and who meet all other eligibility requirements. Funding for these programs is based on federal, state, and institutional allocations. Jobs are posted to the online job board, located on the Financial Aid website (**skagit.edu/financial-aid/types-of-aid/work-study-jobs/**).

LOANS

FEDERAL DIRECT SUBSIDIZED AND UNSUBSIDIZED STUDENT LOANS

Federal Direct Loans are long-term, low-interest/fee loans available through the school and the U.S. Department of Education. Interest rates/fees change July 1 each year. Current interest rates and fees are updated on the SVC Financial Aid website (**skagit.edu/financial-aid/**). A FAFSA is required in order to determine eligibility and receive Direct Loans. Students must be pursuing an aid-eligible degree or certificate and must be enrolled in at least 6 eligible credits. First-time borrowers will have their funds delayed until 30 days into the first quarter.

5 Tuition, Financial Aid, and Funding

A separate application is required by SVC in order to receive Direct Loans. The application is available on the Financial Aid website and should be completed once the student has received their award notification and determines additional funding may be needed. The SVC application is in addition to the Entrance Counseling and Master Promissory Note requirements mandated by the Department of Education.

DIRECT SUBSIDIZED LOANS

The U.S. Department of Education pays the interest on Direct Subsidized Loans while you are enrolled at least half-time. Subsidized Loans are only available to student borrowers.

Students are eligible to receive Subsidized Loans for 150% of their degree/certificate length. If the maximum timeframe is exceeded, loss of interest subsidy will occur. See "Federal Direct Loans-Getting-Started" under the Financial Aid portion of our website for more details.

DIRECT UNSUBSIDIZED LOANS* (SEE TABLE ON FOLLOWING PAGE)

Unsubsidized Loans do not require demonstrated financial need and begin accruing interest upon first disbursement. Students are responsible for paying the interest on Direct Unsubsidized Loans. If students choose not to pay the interest while attending school and during the grace period, interest will accrue and be added to the principal amount of the loan.

FEDERAL DIRECT PARENT PLUS LOANS

Federal Direct Parent PLUS (Parent Loans for Undergraduate Students) Loans are not based on need, however, the student must complete the FAFSA and all other requested documents. PLUS loans are obtained by parents of dependent students to help meet their educational costs. The interest rate/fees for this loan changes July 1 each year and interest is not deferred. Current interest rates and fees are updated on the SVC Financial Aid website (**skagit.edu/financial-aid/**).

Scholarships

The SVC Foundation scholarship application process for the following school year, begins in December or January of each year, with submission deadlines in late-February or early March each year. All prospective, current, and graduating SVC students are eligible to apply. Other departmental and outside agency scholarships may be available throughout the year. For more information on SVC Foundation Scholarships, visit the Foundation website:
skagitfoundation.org/student-scholarships

Workforce Grant Scholarship Programs

WORKER RETRAINING

360.416.7649

Worker Retraining is a state-funded program that provides job-related training and employment services to dislocated and unemployed workers to help them gain additional training in their existing field or get started on a new career path. You may be eligible for Worker Retraining if you:

- Have been laid off or have received a layoff notice from a WA State employer *AND*
- Are currently receiving or are eligible to receive Washington State unemployment benefits; *OR*
- Have exhausted Washington State unemployment insurance benefits within the past 48 months.
- Have accepted Stop Gap Employment.
- Are a Displaced Homemaker.
- Are in danger of losing your current job if you do not gain new skills.
- Are a Veteran who has been discharged within the past 48 months.

WORKFIRST PROGRAM

360.416.7971

The WorkFirst Program assists eligible parents with job skills training and preparation. Parents who qualify for the program may be eligible to receive WorkFirst Tuition Assistance to pay for one quarter of tuition, fees, and textbooks for approved classes. Parents who are working in paid employment and meet the income guidelines may be eligible. Those on Temporary Assistance for Needy Families (TANF) referred by their case manager for vocational training receive priority. For more information, please contact the Workforce Grants office.

BASIC FOOD EMPLOYMENT AND TRAINING PROGRAM

360.416.7971

The Basic Food Employment and Training Program (BFET) assists Food Stamp recipients who have been assessed as needing basic education, high school, GED®/CCB, ELA, or vocational training in order to increase their opportunities for employment. Allowable costs include tuition, fees and books for education and support services. All Food Stamp recipients not receiving TANF may be eligible for the Food Stamp

*** DIRECT UNSUBSIDIZED LOANS: BORROWER LIMITS**

YEAR	DEPENDENT STUDENTS	INDEPENDENT STUDENTS
Annual Loan Limit (0-45 credits)	$5,500: No more than $3,500 of this amount may be subsidized loan.	$9,500: No more than $3,500 of this amount may be subsidized loan.
Annual Loan Limit (46-90 credits)	$6,500: No more than $4,500 of this amount may be subsidized loan.	$10,500: No more than $4,500 of this amount may be subsidized loan.
Annual Loan Limit (90+ credits)	$7,500: No more than $5,500 of this amount may be subsidized loan.	$12,500: No more than $5,500 of this amount may be subsidized loan.

5 Tuition, Financial Aid, and Funding

Employment and Training Program. For more information, please contact the Workforce Grants office.

OPPORTUNITY GRANT

360.416.7971

The goal of the Opportunity Grant is to help low-income adults reach the educational tipping point-and beyond-in high-wage, high-demand careers. Reaching the tipping point allows the least prepared individuals to complete 45 credits, receive a credential and increase job skills and knowledge through career pathways. Eligible students pursuing approved pathways including Early Childhood Education; Allied Health; Nursing, Manufacturing; Welding; Manufacturing, Office and Accounting Technologies, Business Management and Automotive, may receive funds to cover tuition, mandatory fees up to 45 credits. and up to $1,000 for books/supplies per academic year. For more information, please contact the Workforce Grants office.

EARLY ACHIEVERS GRANT

360.416.7971

The Early Achievers Grant (EAG) serves eligible students who are currently employed in an actively-participating Early Achievers child care facility. The EAG provides 52 credits of college tuition toward ECE training and up to $1,000 per year toward the cost of books along with wrap-around student support services.

Learn more about any of the above Workforce Grants programs and to apply: **skagit.edu/financial-aid/types-of-aid/workforce-grant-funding/**

JOB CORPS SCHOLARS GRANT

360.416.7971

Job Corps Scholars Program is a national demonstration project aimed at providing at-risk youth with job skills instruction, educational opportunities, and individualized employment services. The program combines job training, classroom education, and employment services to give participants an opportunity to excel in today's job market. The Job Corps Scholars provides funds for tuition, books, transportation, and more!

Other Financial Assistance Programs

TUITION PAYMENT PLAN

The Tuition Payment Plan allows students to make a partial tuition payment prior to the start of the quarter, and defer their remaining tuition balance until approximately one month into the quarter. Students must make a 40% down payment of their tuition and are assessed a $30 processing fee. For more information, please contact kathleen.hawkins@skagit.edu.

CARDINAL COMPLETE

360.416.7860

The Cardinal Complete Program offers funding and scholarship support to cover the cost of tuition and fees for students who are within 15 credits of completion of an eligible degree or certificate program. In addition to being within 15 quarters of completion, a student must not owe a debt to SVC or be on Financial Aid Suspension to qualify. Awards are based on funding levels. For more information, please contact angelica.garcia@skagit.edu.

STUDENT EMERGENCY ASSISTANCE

The Student Emergency Assistance Fund was established to provide assistance to students at risk of not continuing their education due to unexpected financial dilemmas. The fund is only allocated for sudden, urgent, or unforeseen occurrences that require immediate attention and would impact the student's ability to stay in college and complete their educational goal. **Students must demonstrate "emergency" financial need.**

Types of emergency awards include:

- Rent ($1,200 annually)
- Auto Repairs ($1,000 annually)
- Gas ($150 per quarter)
- Bus Pass ($20 per quarter)
- Child-Related costs ($1,500 per quarter)
- Health-Related costs ($500 annually)
- Groceries ($200 per quarter)
- Essential Utilities ($300 annually)
- Technology ($500 annually)

FOR MORE INFORMATION:

Lynette Aragon | lynette.aragon@skagit.edu | 360.416.7605

Or for more information about Emergency Assistance and to apply, visit: **skagit.edu/financial-aid/types-of-aid/student-emergency-assistance-grant/**

CHILDCARE ASSISTANCE

The Childcare Assistance fund can assist you with the cost of out-of-pocket dependent care expenses for dependents residing with you during the academic year for care incurred as a result of attending classes at SVC (that is, during periods that include but are not limited to class time, study time, fieldwork, internships, and commuting time to and from SVC). Dependents can include: any children for whom you are the legal guardian, step children, or siblings who reside in your household for whom you are responsible for providing care. Childcare providers must be licensed by the Washington State Department of Early Learning. Does not include children over the age of 12. Must meet income guidelines to qualify.

FOR MORE INFORMATION:

Angelica Garcia | Angelica.Garcia@skagit.edu | 360.416.7664

Or for more information about Childcare Assistance and to apply, visit: **skagit.edu/financial-aid/types-of-aid/emergency-assistance/**

5 Tuition, Financial Aid, and Funding

FINANCIAL AID WITHOUT A HIGH SCHOOL DIPLOMA OR GED (ABILITY TO BENEFIT)

Students without a High School Diploma or GED who are participating in a financial aid eligible degree or certificate program that is considered an eligible career pathway, may qualify for federal and/or state financial aid. This support is referred to as Ability to Benefit (AtB). AtB has the potential to support students in pursuit of postsecondary education and training/credentials needed for careers in high-demand occupations. For more information, please schedule an appointment with Counseling and Advising by calling 360.416.7654.

Waivers and Discounts

Waivers or other programs may be available to certain unemployed, underemployed, or dislocated workers. For more information, call 360.416.7649.

ATHLETIC

College athletes carrying 12 or more credits may be eligible for a 25% athletic waiver. The athletic department must approve eligible students.

STATE EMPLOYEES

Half-time or more, permanent state employees may take courses per quarter (up to 6 credits) on a space-available basis (or in classes still open on the first day of the quarter) for a reduced fee (restrictions apply).

VETERANS

See Veterans/Military-Affiliated Tuition Funding (page 22).

FAMILIES OF FALLEN VETERANS AND NATIONAL GUARD MEMBERS

See Veterans/Military-Affiliated Tuition Funding (page 22).

UNEMPLOYED OR UNDER-EMPLOYED RESIDENTS

Unemployed or under-employed people may register for classes on a space-available basis without tuition charges. Fees attached to coursework will be charged accordingly. You are eligible if you:

- Have lived in Washington for at least 12 months.
- Are 21 years of age or older.
- Have not attended college in the past six months.
- Are not receiving or eligible for unemployment compensation.
- Have a combined monthly household income of below $1,254 for a one-member family, $1,587 for two, $1,959 for three, $2,312 for four, $2,644 for five (call for amount for additional dependents).
- Have been or will be unemployed for six months prior to the start of the quarter.

6 General Degree/Program Information

OVERVIEW: DEGREES AND CERTIFICATES

BACHELOR'S DEGREES

Skagit Valley College offers two types of Bachelor's-level degrees: Bachelor of Applied Science (BAS), which are selective-entry programs that build on the education and training from two-year technical Associate degrees with two years of upper-level course work; and a Bachelor of Science in Computer Science (BS - Computer Science), which is a direct-entry, open admission program.

BACHELOR OF APPLIED SCIENCE (BAS) DEGREES

Applied Bachelor's Degrees (BAS) are degrees designed for individuals who have already earned a two-year associate's degree and provide workplace skills in specific career areas. Compared to four-year degrees at traditional colleges and universities, applied bachelor's degrees incorporate more hands-on learning focused on a specific industry. They are designed with strong internship components and often offer credit for prior learning in a previous degree.

The Bachelor of Applied Science (BAS) degree is a four-year, 180-credit baccalaureate degree, specifically designed to build on professional-technical associate's degrees that provide workplace skills. BAS degrees include upper-division professional and general education courses. BAS programs are a pathway to the baccalaureate degrees, in an applied field, that provide expanded career opportunities for graduates and meet the needs of employers in the community.

BACHELOR OF SCIENCE (BS) DEGREES

Bachelor's of Science (BS) Degrees are designed for direct entry. The Bachelor of Science in Computer Science is a four-year, 180-credit baccalaureate degree.

ASSOCIATE DEGREES

Associate degrees are two-year degrees of at least 90 credits that are traditionally offered at community colleges, junior colleges, and technical colleges. They can be focused either on "transfer" for students who intend to go on to earn a traditional four-year degree at a college or university, or "workforce" which are more specifically designed to provide the necessary skills and knowledge to enter into a particular field or industry. Some associate degrees prepare students for either employment or transfer to a four-year institution.

TRANSFER FOCUSED ASSOCIATE DEGREES

Intended for students who are interested in transferring to a complete four-year bachelor's degree at a university, but who would like to complete the first two years of courses at Skagit Valley College.

ASSOCIATE IN ARTS - DIRECT TRANSFER AGREEMENT (DTA)

Associate in Arts Direct Transfer Agreement degrees are designed to provide students with a broad background during their first and second year of study so that they can transfer to a four-year school with standing as a junior. These degrees follow guidelines set by the state's Intercollege Relations Commission. The associate degree curriculum is designed to give students a general education that transfers to four-year universities for bachelor's degrees.

For those who qualify, the Direct Transfer Agreement (DTA) gives students priority admission and general education for most Washington state universities. Students must have the AA degree, be a Washington state resident, and meet the minimum GPA for their chosen university. Students who complete this path and are accepted at a four-year university will be ready for their junior year at all public and participating private colleges.

ASSOCIATE DIRECT TRANSFER AGREEMENT MAJOR RELATED PROGRAM (DTA/MRP)

Associate Direct Transfer Agreement Major Related Program (MRP) pathways are transfer associate pathways outlining the appropriate courses in order for students to be well prepared to enter a major upon transfer-Major Related Program (MRP) pathways follow one of the two Washington statewide transfer agreements-the Associate in Arts DTA format or the Associate in Science-Transfer (AS-T) format with courses chosen to following a specific major.

ASSOCIATE IN SCIENCE-TRANSFER DEGREES (AS-T)

Associate in Science-Transfer degrees are designed to prepare science and engineering majors for transfer to a four-year school with standing as a junior. All of the Associate in Science-Transfer degrees adhere to guidelines developed under the guidance of the Washington State Board of Community and Technical Colleges. Most coursework is in mathematics, science, and engineering but the curriculum also includes additional general education requirements.

ASSOCIATE IN APPLIED SCIENCE-TRANSFER DEGREES (AAS-T)

Associate in Applied Science-Transfer degrees are built upon the technical courses required for job preparation; however, they also include a transferable general education component, common in structure for all such degrees. The general education courses for the degrees are drawn from the same distribution requirements list as those taken by students completing the Associate in Arts or the Associate in Science-Transfer degrees. Associate in Applied Science-Transfer degrees prepare graduates for jobs requiring two years of training or for transfer to specific four-year institution with agreements to accept this degree toward specific bachelor's programs.

ASSOCIATE IN EDUCATION (A.ED) AND ASSOCIATE IN VISUAL ARTS (AVA) DEGREES

Like the Associate in Applied Science-Transfer degrees, these degrees are built upon the technical courses required for job preparation but they also include college-level general education components. These degrees prepare graduates for jobs requiring two years of training or for transfer to specific four-year schools with agreements to accept these degrees toward specific bachelor's programs.

WORKFORCE FOCUSED ASSOCIATE DEGREES

Approximately two years long, depending on possible degree pre-requisites, Associate of Applied Science Degrees are intended to give students the skills needed to move directly into employment.

ASSOCIATE OF APPLIED SCIENCE DEGREES (AAS)

Associate of Applied Science degrees are designed to provide professional and technical training to prepare students for specific jobs or to improve existing skills. All career programs have advisory committees of professionals in related fields to ensure that the curriculum evolves with changes in business and industry. Advisory committee members and faculty members work together to link education and employment to help students succeed.

ASSOCIATE DEGREE - GENERAL STUDIES

Intended for students who are looking to achieve a two-year degree.

ASSOCIATE OF ARTS, GENERAL STUDIES (AA)

The Associate of Arts General Studies Degree is appropriate for students whose primary goal is to earn a two-year college degree. It may be suitable for you if you wish to apply credit by challenge, independent study, CLEP, professional/technical, or military programs to courses not included in the Direct Transfer Agreement (DTA) where applicable.

This degree is not designed to be a transfer degree. It is strongly recommended that students taking the AA General Studies degree and desiring to transfer to a four-year college or university seek the assistance of an advisor to plan an appropriate course of study.

HIGH SCHOOL DIPLOMA OR EQUIVALENCY

Diplomas are granted for successful completion of high school diploma programs at the college. Students can earn a high school diploma or an equivalent through multiple different programs at SVC. Each program has separate admission and completion requirements. Successful completion of any one of the programs will earn a student a high school diploma authorized by the state of Washington. Students may also earn a diploma through rules set in State House Bill (SHB) 1758. In addition, General Equivalency Degree (GED®) preparation classes are also offered for those seeking an alternate credential to a high school diploma.

HS21 ADULT HIGH SCHOOL DIPLOMA

HS21 Adult High School Diploma is a competency-based high school completion program for adults 21 years of age or older who do not have a high school diploma or GED®. High School competency requirements may be met through high school and college coursework and/or prior learning gained from work, life, and/or military experience. Unmet requirements may be achieved through additional coursework at Skagit Valley College.

OPEN DOORS

Open Doors is a competency-based high school completion program for eligible individuals who are 17-20 years of age who are deficient in high school credits. High School competency requirements may be met through high school and college coursework and/or prior learning gained from work and life experience. Unmet requirements may be achieved through additional coursework at Skagit Valley College.

INVEST PROGRAM

The INVEST program at SVC is a comprehensive Post-Secondary Transition program for individuals with intellectual disabilities, currently enrolled in local high school until 21 years of age.

GED EXAM PREPARATION

The GED® is a certificate of high school equivalency for individuals who have not completed high school. The exam consists of four separate tests, one for each of the following areas: Social Studies, Science, Mathematical Reasoning, and Reasoning through Language Arts (RLA). SVC offers courses to prepare you to take the four tests.

CERTIFICATES

Approximately one year long, Certificates are intended to provide students with specialized training and skills in a number of interest areas.

Micro-Certificates

Micro Certificates are short-term programs focused on providing training in a specific skill. Typically two quarters or less, the courses are focused to help students gain skills in a specific area.

6 GENERAL DEGREE/PROGRAM INFORMATION

BASEC • BASM • BASAMD • BSCS • AA-DTA • AS-T • AVA • DTA/MRP • A.Ed. • AAS • AAS-T • CERTIFICATES AND MICRO-CERTIFICATES

BASIC EDUCATION FOR ADULTS PROGRAMMING

Basic Education for Adults (BEdA) programs are designed for adults who may have experienced educational gaps or missed the opportunity to develop certain skills. BEdA provides the opportunity for adult learners to achieve. This program is intended to improve English language skills, earn a high school diploma or GED, or start earning college credit and prepare for career training or a transfer degree.

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- Marine Maintenance Technology, AAS
- Marine Electrical Technician Certificate
- Marine Mechanical Technician Certificate

MULTI-OCCUPATIONAL TRADES (APPRENTICESHIP) [p. 133]

- Multi-Occupational Trades, AAS

MULTIMEDIA AND INTERACTIVE TECHNOLOGY [p. 133]

- Multimedia, Web Designer, AAS
- Multimedia, Web Developer, AAS-T
- Adobe Certificate
- Digital Media Marketing Certificate
- Digital Video Certificate
- Game, App, and Web Development Certificate
- Graphic Arts Certificate
- Web Design Certificate

NURSING [p. 136]

- Registered Nursing (LPN-RN), AAS
- Nursing Assistant Education Certificate

PARK RANGER LAW ENFORCEMENT ACADEMY [p. 139]

- Park Ranger Law Enforcement Academy PRLEA Certificate
- Park Ranger Law Enforcement Academy PRLEA/EMT Certificate
- Park Ranger Law Enforcement Academy PRLEA/FIRE Certificate

TECHNICAL DESIGN (CAD) [p. 141]

- Technical Drawing Micro-Certificate

WELDING TECHNOLOGY [p. 142]

- Welding Technology, AAS
- Welding Technology Certificate
- Welding Technology, Aluminum Welding Specialty Certificate
- Welding Technology, Flux-Cored Arc Welding Specialty Certificate
- Welding Technology, Shielded Metal Arc Welding Specialty Certificate
- Welding Technology, WABO Certification

BASIC EDUCATION FOR ADULTS

Basic Education for Adults (BEdA) programs are designed for adults who may have experienced educational gaps or missed the opportunity to develop certain skills. BEdA provides the opportunity for adult learners to:

- Improve English language skills,
- Earn a High School Diploma or GED,
- Prepare for career training,
- Start earning college credit.

Who Is Eligible?

BEdA programs are for persons age 19 or older who meet one or more of the following:

- Speak a primary language other than English.
- Have not completed high school.
- Who want to improve reading, writing or math skills for entry into college level coursework.

Individuals age 16-18 who have not graduated from high school may enroll after providing a high school release form (obtainable from the high school were you currently live), or if homeschooled, a notarized statement of homeschooling. Students age 16-21 may be eligable for the Open Doors Highschool Completion program.

Individuals with a student or au pair (F1, M1, or J1) visa are not eligible and should contact the International Student Office for information on options.

How Much Does It Cost?

Participation in the BEdA classes costs $25 per quarter any you may enroll in multiple BEdA classes at no extra cost. A tuition waiver is available to those who meet income eligability requirements.

FOR MORE INFORMATION CONTACT US AT:

Mount Vernon Campus: 360.416.7640
Whidbey Island Campus: 360.679.5339

COLLEGE AND CAREER SUCCESS SKILLS (CSS)

College and Career Success Skills (CSS) courses provide students with strategies designed to enhance their academic success. In CSS courses, students receive support in academic and career planning, learning strategies, financial literacy, informed decision-making, and self-exploration.

First Quarter Experience

All new degree seeking students are required to complete a First Quarter Experience (FQE) course. FQE is proven to increase student retention and prepare students for successful completion of their degrees. The following courses meet the FQE requirement:

- CSS 103 - First Quarter Experience
- CSS 109 - First Quarter Experience with Career Emphasis
- CSS 110 - First Quarter Experience for TRIO Students
- BUS& 101 - Introduction to Business

In FQE, students access specific college resources to secure success in the classroom; develop a financial plan; choose appropriate occupational choices based on personal interests; and plan an appropriate academic schedule and degree completion timeline. Students who have earned 45+ college level credits are exempt from taking an FQE.

COLLEGE AND CAREER BRIDGE (CCB)

The College and Career Bridge program puts students on a pathway toward their desired college major and career. Adults returning to school after a break of several years or who are seeking to improve academic skills receive quality and supportive instruction to help gain the reading, writing, math, and academic skills needed to succeed in college level courses.

Course Options

ON RAMP

Improve foundational reading and writing skills while learning about topics that move you toward meeting your goal whether it be high school completion or preparing to enter a college certificate or degree program.

COLLEGE AND WORKFORCE PREP ACADEMY (CWPA)

Improve academic readiness through mastering critical thinking, reading and writing skills to prepare to enter a college program while exploring certificate and degree options in your area of interest. Successful completion of CWPA helps students earn English competency toward a high school diploma; prepares students for enrollment in I-BEST; and prepares students for transition to a college certificate or degree program.

I-BEST

Integrated Basic Education and Skills Training (I-BEST) pairs a professional or technical program with Adult Basic Education courses; including reading, writing, and math skills. I-BEST provides educational access and support for students to progress further and faster along career pathways.

MATH

Integrated pre-college math prepares students for entry into WMATH 100 - Professional Technical Applied Math or MATH 097 - Elementary Algebra in a supportive student friendly environment.

How to Register for Classes

- New students: Submit an application online: **skagit.edu/admissions/getting-started/getting-started-first-time-students/**. Request an appointment for CASAS testing and for seeing your Navigator at enrollment@skagit.edu or call 360.416.7700.
- Returning students: Follow the steps online: **skagit.edu/admissions/getting-started/getting-started-continuing-**

students/. For further assistance, please communicate at enrollment@skagit.edu or call 360.416.7700

In-person assistance for registering is available at:

- **Mount Vernon Campus:** Lewis Hall at the Admissions Desk.
- **Oak Harbor Campus:** Old Main at the Admissions Desk

What Is the Cost?

CCB, On Ramp, and CWPA tuition is $25 per quarter. You may take more than one CCB class at no extra cost. A tuition waiver is available for those who qualify.

Students enrolled in **I-BEST** pay regular tuition for the college courses, but do not pay for the CCB support class. Financial aid may be available for those who qualify.

ENGLISH FOR ACADEMIC PURPOSES

Overview

The English for Academic Purposes (EAP) Program is designed for students whose first language is not English. The EAP program is located on the Mount Vernon Campus and is comprised of intensive and semi-intensive classes. Classes are credit-bearing, with each level of instruction providing between 10 and 20 credit hours per week, depending on placement. Mid-quarter entry is available for international students entering the intensive level offerings; otherwise, EAP courses follow the college quarterly schedule. Our focus includes English for Academic Purposes, developing intercultural awareness, personal growth, and successful study skills. The program provides a warm and friendly environment where students can readily find support from instructors, tutors, staff, and fellow students. Faculty members facilitate learning, mentor students, and provide meaningful opportunities to learn and practice English. The program also hosts the EAP Tutoring Center, for all international students needing assistance with their coursework.

For more information, please contact the International Programs Office at **skagit.edu/international**.

ENGLISH LANGUAGE ACQUISITION

Interested in learning or improving your English language skills? English Language Acquisition (ELA) provides English language instruction in speaking, listening, reading, writing, and college readiness. ELA prepares students for transition to High School Completion; College and Career Bridge; college certificate and degree programs; or employment.

Who Is Eligible?

- Any person with limited English skills who is age 19 or older, OR any individual who has graduated from high school, is eligible to enroll in ELA classes.
- Individuals age 16-18 who have not graduated from high school may enroll after providing a high school release form (obtainable from the high school were you currently live) or, if homeschooled, a notarized statement of homeschooling.
- Individuals with a student or au pair (F1, M1, or J1) visa 4 are not eligible and should contact the International Student Office for information on class options.

How to Register for Classes

Day and evening classes are available for beginning to advanced students.

- New students: Submit an application online: **skagit.edu/admissions/getting-started/getting-started-first-time-students/**. Request an appointment for CASAS testing and for seeing your Navigator at enrollment@skagit.edu (English), informacion@skagit.edu (Español) or call 360.416.7700 (English), 360.416.7740 (Español).
- Returning students: Follow the steps online: **skagit.edu/admissions/getting-started/getting-started-continuing-students/**. For further assistance, please communicate at enrollment@skagit.edu (English), informacion@skagit.edu (Español) or call 360.416.7700 (English), 360.416.7740 (Español).

In-person assistance for registering is available at:

- Mount Vernon Campus: Lewis Hall at the Admissions Desk.
- Oak Harbor Campus: Old Main at the Admissions Desk.

What Is The Cost?

ELA tuition is $25 per quarter. You may take more than one ELA class at no extra cost. A tuition waiver is available for those who meet income eligibility.

CONTACT US

Mount Vernon Campus: 360.416.7640
Whidbey Island Campus: 360.679.5339

HIGH SCHOOL COMPLETION

Overview

Our high school completion programs help you earn the credential you need to prepare for post-secondary education, further training, military service, and employment. SVC has several options for adult students who want to complete high school. Not sure which option is best for you? Enroll in a Basic Education Orientation CCB 010 or talk to one of our High School Completion advisors and we will help determine the best path for you. All students entering Basic Education for Adult classes take the Comprehensive Adult Student Assessment System (CASAS) so they can be placed in the right level of classes. The information on these tests relate directly to everyday reading and math skills.

Program Options

1. **GED® Preparation** in English or Spanish is offered through individualized and classroom instruction in the areas of reading, writing, math, computer technology, social studies, and science.
2. **HS+ Adult High School Diploma** is a competency based high school completion program for adults 18 and older who do not have a high school diploma from a U.S. institution. High school competency requirements may be met through high school and college coursework, life experiences,

employment, prior learning, and/or military experience. Unmet requirements are achieved through coursework at Skagit Valley College.

3. **Open Doors:** Individuals below age 21 who have not completed high school may be eligible for the Open Doors Youth Re-engagement high school completion program. To request an application contact a counselor at the high school in your district or call our office at the number below.
4. Traditional Adult High School Diploma is an opportunity to earn a high school diploma by completing required coursework with SVC college level classes. Regular college tuition and fees apply. Students may earn a high school diploma upon completion of a two year associate degree. The student must provide the college a written request to receive a high school diploma. Contact an SVC Counselor for more information.

CONTACT US

Mount Vernon Campus: 360.416.7640
Whidbey Island Campus: 360.679.5339

INDIVIDUALIZED NEXT STEP VOCATIONAL EDUCATION AND SOCIAL SKILLS TRAINING (INVEST)

The INVEST Program is designed to address the unique academic and employment needs of post-secondary students with intellectual disabilities including school district Transition Students ages 18 to 21. INVEST students may earn a 1 year 'Fast Track' Employability Certificate or a 2 year Employability Certificate. These are local certificates not currently recognized by the state.

SVC's INVEST Program provides post-secondary access and ensures that students gain a variety of employment and life skills. The program provides integrated opportunities that include postsecondary education and training, academic enrichment, inclusive socialization and recreation, assistive technology, self-advocacy, independent living skill development, career exploration, integrated work experiences, and, ultimately, gainful employment that matches each student's interests and unique abilities. **Internships in collaboration with Vocation Rehab, Chinook Enterprises, and the WDC are opportunities available for students enrolled in the program.**

INVEST is built upon the foundation of the 16 Evidence-Based Secondary Transition Predictors for Improving Post-School Outcomes for Students with Disabilities, compiled by the National Post-School Outcomes Center and National Secondary Transition Technical Assistance Center (CITE) and other successful program models.

Program Options

INVEST FAST TRACK EMPLOYABILITY CERTIFICATE

38 credits

CERTIFICATE REQUIREMENTS

The INVEST Fask Track Employability Certificate is a one year (36 credits) program that provides students foundational employability skills and allows students to explore an area of interest. The following courses are required for the Fast Track Employability Certificate:

- INV 011 - INVEST Orientation (2)
- INV 020 - INVEST Digital Technology (1-5)
- INV 030 - INVEST Communication and Self-advocacy (4)
- INV 040 - INVEST Career Inventory (2)
- INV 045 - INVEST Interview Skills (2)
- INV 070 - INVEST Service Learning (1-8)
- INV 075 - INVEST Practicum Seminar (1-6)
- INV 090 - INVEST Capstone (3)
- Electives (6)

INVEST 2 YEAR EMPLOYABILITY CERTIFICATE

72 credits

CERTIFICATE REQUIREMENTS

The INVEST Employability Certificate is a 2 year program (72 credits) in which students gain both employability skills and the opportunity to explore one or more areas of study through electives in integrated settings. Students complete a capstone project and have the opportunity to participate in an internship experience. The following classes are required for the 2 year Employability Certificate:

- INV 011 - INVEST Orientation (2)
- INV 020 - INVEST Digital Technology (1-5)
- INV 030 - INVEST Communication and Self-advocacy (3)
- INV 035 - INVEST Critical Thinking (2)
- INV 040 - INVEST Career Inventory (2)
- INV 045 - INVEST Interview Skills (2)
- INV 050 - INVEST Balancing Work and LIfe (2)
- INV 070 - INVEST Service Learning (18)
- INV 075 - INVEST Practicum Seminar (6)
- INV 080 - INVEST Employment Internship (6)
- INV 090 - INVEST Capstone (3)
- PE Activity Classes (2)
- Electives (21)

BACHELOR OF APPLIED SCIENCE DEGREES (BAS)

BACHELOR OF APPLIED SCIENCE IN MANAGEMENT (BASM)

Overview

Known as the learning lab for the 21st century workplace, the Bachelor's degree in Management is designed for those who have completed an associate's degree in any field, including

those that do not directly transfer to four-year schools. The fully online program replicates the on-the-job learning environment with upper-level courses that model a management view perspective through teamwork and independent learning. Participants are invited to join a weekly lunchtime zoom meeting at which they can engage with faculty and with other participants.

Degree Option

The Bachelor in Applied Science - Management program is a two-year, 90 credit degree that offers an opportunity to gain the skills needed to excel in a management position. It is designed for students who have completed any associate degree including those degrees that do not typically transfer to four-year schools (AA, AAS-T, AAS, or ATA).

The program offers a BAS degree in either general Management or Healthcare Management. The Healthcare Management option is a non-clinical program.

The Bachelor in Management program has a selective admissions process and students may only begin the program fall quarter. Prospective students must attend a program briefing to receive application materials. The choice of degree is selected at the time of application and students must attend a program briefing to receive application materials. The application and admission process information can be found at **skagit.edu/BASM**.

A Bachelor in Applied Science (BAS) degree is awarded upon completion of 90 credits of specified 300 and 400 level coursework with a cumulative GPA of 2.5 in upper level courses. Entry into a Master's program may require a higher GPA for admission. Students are responsible for checking specific major requirements of graduate institutions.

Cost of Program

Specific tuition information can be found at: **skagit.edu/admissions/tuition-fees**. Textbook costs should not exceed $50 per upper level course. Upper division courses carry a higher tuition rate than lower division courses.

Program Learning Outcomes

Upon completion of the Bachelor of Applied Science in Management program, students will be able to:

- Address managerial and workplace issues and opportunities in their field of interest by applying a problem-solving approach that integrates multiple disciplines and functions.
- Compose solutions to workplace issues and opportunities that integrate fiscal and social responsibility perspectives.
- Challenge assumptions such as those formed by culture or irrational logic by analyzing the origins and perpetuation of explicit and implicit bias.
- Construct a platform for personal career/occupational growth and community impact by analyzing the levers of social capital, power, and privilege.
- Demonstrate leadership and professional presence by modeling workplace appropriate norms.

Program Admissions

Applied Bachelor degrees at SVC are selective admission programs with a separate admissions process for these degrees. Prospective students must register for and attend a program information session to receive application materials. Information on the application and admissions process is available at **skagit.edu/BASM**.

Specialized Program Information

SVC bachelor degrees follow a cohort model and students may only begin the program fall quarter. Each course in the Management program connects to each other within each quarter and from quarter to quarter. Courses build on prior life and educational experiences and are tailored to individual career interests. To replicate the workplace learning experience, courses involve working independently and in project teams.

To build the technology and digital skills necessary for success in the 21st century workplace and to maximize the accessibility of the program for those who are working and/or managing family obligations, all classes in the program are fully online. Students are invited to join a weekly lunchtime Zoom meeting at which they can engage with faculty and with other participants.

To support the accessibility of the program, costs for the required learning materials such as textbooks are capped at $50 per course.

PREREQUISITES

Entry requirements reflect the preparation needed for upper division courses in the Management field.

For the Bachelor of Applied Science in Management program, applicants must have:

- Attended a program briefing. This is the only way a prospective program member can receive an application.
- An associate degree by the Fall quarter of program entry with a cumulative GPA of 2.50.
- Applicants may apply if they anticipate receiving their associates degree before the program start. The acceptance will be conditional, and the degree must be completed before the first day of classes.
- Passed ENGL& 101 - English Composition I and CMST& 210 - Interpersonal Communication: D or CMST& 220 - Public Speaking or their equivalent with a minimum grade of a "C." These classes are a prerequisite for BASM 301 and must be completed before the first day of classes.
- Applicants may apply if they have not completed these classes at the time of application. Acceptance will be provisional and the BASM 301 prerequisites must be completed before the first day of Fall quarter classes.

ADVISOR CHECK-INS

These checkpoints provide the framework for Skagit Valley College Advising Policy and Procedures for selective entry Bachelor's degrees:

- Prior to Application: The College will provide information designed to assist students in identifying educational goals and options, as well as critical resources for supporting students in achieving their goals.
- BAS Application: Students will be asked to attend a program briefing session and to apply for admission to the program.
- BAS Enrollment: Once accepted into the program, BAS faculty and staff will guide students with registration. The application process is available a skagit.edu/BASM.

Faculty and Advisor
Sunaina Virendra
Management Department Chair and Instructor
sunaina.virendra@skagit.edu

Sample Career Options (Management track)–

- Marketing Manager/ Director
- Business Development Lead
- Sales Manager/ Director
- Human Resources Manager / Director
- Financial Manager, Branch or Department
- General and Operations Manager

Sample Career Options (Healthcare Management track)–

- Healthcare Marketing Manager/ Director
- Business Development Lead
- Sales Manager/ Director
- Human Resources Manager / Director
- Financial Manager, Branch or Department in Healthcare

Program Map

90 credits

The Bachelor of Management degree is a cohort program. The Program Map includes the required quarterly sequence of courses to complete a degree in two years of full-time study. Once accepted into the program, faculty and staff will guide students with registration.

Bachelor of Applied Science in Management

FIRST YEAR

Fall Quarter
- BASM 301-Foundations of Management (5)
- ECON 310-Economics for Managers (5)
- ENVS 314-Environmental Science and the Manager (5)

TOTAL CREDITS: 15

Winter Quarter
- BASM 322-Project Management (5)
- BASM 324-Marketing for Managers (5)
- BASM 334-Accounting for Managers (5)

TOTAL CREDITS: 15

Spring Quarter
- BASM 330-Operations Management (5)
- BASM 332-Human Resources and the Manager (5)
- BASM 422 - Principles of Finace (5)

TOTAL CREDITS: 15

SECOND YEAR

Fall Quarter
- BUS 410-Managerial Presence (5)
- CS 370 - Programming and Data Analysis for Managers (5)
- SOC 420-Social Capital and the Manager (5)

TOTAL CREDITS: 15

Winter Quarter
- BASM 499-BASM Workplace Project Experience (Internship) (5)
- BUS 430-Evidence Driven Decision Making (5)
- PSYC 412-Leadership and Organizational Behavior (5)

TOTAL CREDITS: 15

Spring Quarter
- BASM 495-Capstone: Management (5)
- BUS 450-The Manager and the Law (5)
- PHIL 440-Ethics and the Manager (5)

TOTAL CREDITS: 15

Bachelor of Applied Science in Management, Healthcare Management

FIRST YEAR

Fall Quarter
- BASM 301-Foundations of Management (5)
- ECON 310-Economics for Managers (5)
- ENVS 314-Environmental Science and the Manager (5)

TOTAL CREDITS: 15

Winter Quarter
- BASM 334-Accounting for Managers (5)
- HCM 325-Project Management in Healthcare (5)
- HCM 327-Marketing for Healthcare Managers (5)

TOTAL CREDITS: 15

Spring Quarter
- BASM 330-Operations Management (5)
- HCM 335-Healthcare Operations Management (5)
- HCM 339-Human Resources and the Manager (5)

TOTAL CREDITS: 15

SECOND YEAR

Fall Quarter
- BUS 410-Managerial Presence (5)
- BUS 410-Principles of Finance in Healthcare (5)
- SOC 420-Social Capital and the Manager (5)

TOTAL CREDITS: 15

Winter Quarter
- BASM 499- BASM Workplace Project Experience (Internship) (5)
- BUS 430-Evidence Driven Decision Making (5)
- PSYC 412-Leadership and Organizational Behavior (5)

TOTAL CREDITS: 15

Spring Quarter
- BASM 495-Capstone: Management (5)
- BUS 455 - Healthcare Manager and the Law (5)
- PHIL 446-Ethics and the Healthcare Manager (5)

TOTAL CREDITS: 15

BACHELOR OF APPLIED SCIENCE IN ENVIRONMENTAL CONSERVATION (BASEC)

Overview

If you are interested in working with the natural world, environmental conservation or natural resource management, the Bachelor of Applied Science in Environmental Conservation degree might be for you.

The Environmental Conservation, BAS program takes advantage of the exceptional learning opportunities in Skagit Valley's unique ecology of temperate forests, shorelines, and mixed-use wilderness areas and a fully accredited water lab to provide students with a unique way to develop key natural resource management skills. Learning in the program takes place through a blend of online and classroom engagement, lab work and fieldtrips. The course of study prepares students with the skills necessary for advanced field and laboratory work and leadership positions within public and private sector in the natural resource management field.

Degree Option

The Bachelor in Environmental Conservation program is a two-year degree designed for students who have completed an associate degree (AA, AAS-T, AAS, or ATA) in Environmental Conservation, Biology or who have earned 90 credits of equivalent college level course work. Refer to Program Admissions for more information on the equivalent course work.

The Bachelor in Environmental program has a selective admissions process and students may only begin the program fall quarter. Prospective students must attend a program briefing to receive application materials. The choice of degree is selected at the time of application and students must attend a program briefing to receive application materials. The application and admission process information can be found at **skagit.edu/basec**.

A Bachelor of Applied Science in Environmental Conservation degree is awarded upon completion of 90 credits of specified 300 and 400 level coursework with a cumulative GPA of 2.5 or higher. Entry into a master's program may require a higher GPA for admission. Students are responsible for checking specific requirements of graduate institutions prior to application.

Cost of Program

Specific tuition information can be found at: **skagit.edu/admissions/tuition-fees**. Upper division courses carry a higher tuition rate than lower division courses.

Program Learning Outcomes

Graduates of the Bachelor of Applied Science in Environmental Conservation program will be able to:

- Understand and apply federal, state, and tribal policies driving natural resource policies.
- Use landscape ecology principles and technology to analyze ecological scenarios for management decisions at the watershed level.
- Apply forest ecology and silvicultural techniques to develop management scenarios for working forests.
- Use salmon biology to inform and to make management decisions regarding individual salmon stocks and outline ecological restoration measures.
- Contribute to natural resource decision-making groups utilizing effective communication techniques.
- Apply conservation biology strategies and community ecology principles in the management of biodiversity at the landscape level.
- Incorporate watershed management science in management strategies for managing watersheds sustainably for ecosystem services and natural resources.
- Develop and implement management actions for aquatic habitats.
- Develop and demonstrate leadership skills within the environmental sciences and natural resources management.

Program Admissions

Applied Bachelor degrees at SVC are selective admission programs with a separate admissions process for these degrees. Prospective students must register for and attend a program information session to receive application materials. Information on the application and admissions process is available at **skagit.edu/basec**.

Specialized Program Information

SVC bachelor degrees follow a cohort model and students may only begin the program fall quarter.

Prerequisites: Entry requirements reflect the preparation needed for upper division courses in the Environmental Conservation field.

FOR THE BACHELOR IN ENVIRONMENTAL CONSERVATION PROGRAM, APPLICANTS MUST HAVE THE FOLLOWING:

1. Attended a BASEC program briefing session. This is the only way a prospective student can receive an application.
2. An associate degree (AA, AAS-T, AAS, or ATA) in Environmental Conservation or Biology by the time of entry into the program with a cumulative GPA of 2.50 or 90 credits of equivalent college-level courses. The equivalent courses must include at least 15 credits spread among at least two of the following areas Biology, Ecology, Wildlife Management, Natural Resource Management, Fisheries, Environmental Science, Forestry Rangeland Management, Entomology, Watershed Requirements.
    - *Applicants may apply if they anticipate receiving their associate degree or completing equivalent courses before the program start. The acceptance will be conditional, and the degree or relevant courses must be completed before the first day of classes.*
3. Met the entry requirements for ENVC 304 (first quarter course).

- ENGL 101 and ENGL 102 or 10 credits equivalent college level English with a grade of C or higher.
- CMST 220 or equivalent with a grade of C or higher.
- CHEM 121 or other lab Chemistry with a grade of C or higher.
- MATH 141 or MATH 146 or equivalent with a grade of C or higher.
- GIS 101 or equivalent with a grade of C or higher.

4. BASEC faculty will assist students with course verifications.

ADVISOR CHECK-INS

These checkpoints provide the framework for SVC Advising Policy and Procedures for BAS degrees:

- Prior to Application: The College will provide information designed to assist students in identifying educational goals and options, as well as critical resources for supporting students in achieving their goals.
- BAS Application: Students will be asked to attend a program briefing session and to apply for admission to the program.
- BAS Enrollment: Once accepted into the program, BAS faculty and staff will guide students with registration. The application process is available at **skagit.edu/basec**.

Articulation with Bellingham Technical College

The Skagit Valley College (SVC) BAS-ENVC degree program will accept any student, from any program, who meets SVC's enrollment requirements. SVC also has a specific articulation agreement with Bellingham Technical College's (BTC) AAS-T (Fisheries and Aquaculture Sciences) program. This agreement is to give priority admission consideration to BTC students who have completed the AAS-T degree in Fisheries and Aquaculture Sciences at BTC if they apply by the published deadline for BAS-ENVC applications. Additional program entrance minimums may be required.

Faculty and Advisor
Dr. Claus Svendsen
Faculty and Department Chair
claus.svendsen@skagit.edu

Sample career options include–

- Environmental Restoration Planners
- Environmental Compliance Inspectors
- Environmental Scientists and Specialists, Including Health
- Wildlife Biologist
- Fisheries Biologist

Program Map

90.5 credits

Program Maps are an integral part of the Planning Guide. Each Program Map includes a recommended quarterly sequence of courses for a full-time student to earn this degree within two years. The courses align with the appropriate number of credits to meet degree requirements and is designed to help you create an individualized, customized Educational Plan, required of all SVC students. Please consult with an SVC Advisor to schedule courses and develop your personal Educational Plan.

FIRST YEAR

Fall Quarter
- ENVC 302-Data Management (2)
- ENVC 304-River Ecology and Watershed Management (5)
- CHEM 301-Chemistry for Environmental Conservation (5.5)
- CMST 303-Communication in Natural Resources (3)

TOTAL CREDITS: 15.5

Winter Quarter
- ENVC 310-Soil Ecology (5)
- ENVC 315-Limnology and Reservoir Ecology (5)
- QSCI 318-Quantitative Analysis of the Environment (5)

TOTAL CREDITS: 15

Spring Quarter
- ENVC 320-Landscape Ecology (5)
- ENGL 324-Advanced Writing in Science (5)
- ENVC 327-Advanced Wetland Ecology (5)

TOTAL CREDITS: 15

SECOND YEAR

Fall Quarter
- ENVC 405-Behavioral Ecology (5)
- ENVC 407-Forest Ecology (5)
- QSCI 408-Biometry and Ecological Sampling (5)

TOTAL CREDITS: 15

Winter Quarter
- ENVC 412-Natural Resource Policy Analyses (5)
- ENVC 424-Applied Population and Community Ecology (5)
- ENVC 499-Internship (3)
- CMST 413-Leadership Development in Natural Resources (2)

TOTAL CREDITS: 15

Spring Quarter
- ENVC 410-Conservation Biology (5)
- ENVC 420-Estuarine and Nearshore Ecology (5)
- ENVC 422-Culminating Project (5)

TOTAL CREDITS: 15

BACHELOR OF APPLIED SCIENCE IN ADVANCED MANUFACTURING AND DESIGN (BASMD)

Program start is tentatively scheduled for Fall 2024

Overview

The Bachelor of Applied Science in Advanced Manufacturing and Design (BAS AMD) is for students wanting to expand or enhance their contributions within manufacturing operations. It includes a combination of artistic design and development of manufactured products, research on product use and materials, and the evaluation of production processes, including quality control, inventory control, logistics and material flow, cost analysis, and production coordination.

Graduates of the program will be trained to work as leads or managers in manufacturing and production environments. The program combines remote or in-person classroom instruction

with hands-on training in a working production space designing and producing marketable products. The program does everything possible to accommodate working students. This is also an excellent path for anyone planning to start their own business manufacturing and selling a product.

Degree Option

The Bachelor of Applied Science Degree in Advanced Manufacturing and Design is a two-year, 90-credit career-orientated degree for those who hold an associate degree in fields such as Manufacturing, including various Industrial Technology degrees, Operations Management, Product Design and Development, or equivalent college-level credits.

The Bachelor in Advanced Manufacturing and Design program has a selective admissions process and students may only begin the program fall quarter. Prospective students must attend a program briefing to receive application materials. The choice of degree is selected at the time of application and students must attend a program briefing to receive application materials.

A Bachelor in Applied Science (BAS) degree is awarded upon completion of 90 credits of specified 300 and 400 level coursework with a cumulative GPA of 2.5 in upper-level courses. Entry into a Master's program may require a higher GPA for admission. Students are responsible for checking specific major requirements of graduate institutions.

Cost of Program

Specific tuition information can be found at: **skagit.edu/admissions/tuition-fees**. Textbook costs should not exceed $50 per upper level course. Upper division courses carry a higher tuition rate than lower division courses.

Program Learning Outcomes

Upon completion of the Bachelor of Applied Science in Advanced Manufacturing and Design program, students will be able to:

- Employ a product design and development process to create and communicate a plan that will take a product idea from concept to production.
- Demonstrate teamwork, leadership, professionalism, and the ability to communicate requirements, ideas, and concepts critical to success.
- Apply relevant industrial standard literature to the testing and validation of a product design. (PLO3)
- Implement various strategies for concept testing of a new product prototype in an industrial environment.
- Investigate the way in which personal integrity shapes individual approaches to ethical dilemmas.
- Develop and implement a new or improved production line in support of a new or improved manufactured product.

Program Highlights

- Designed to meet the growing employment needs for graduates with advanced skills in an array of manufacturing processes including CNC operation, quality control, CAD, automation, composites, welding, construction, fabrication and repair.
- Work and learn in a working production lab alongside first- and second-year students learning the basics as well as advanced students in your own cohort.
- Learn industrial design application utilizing advanced CAD and CAM tools.
- Learn and demonstrate skills in operations, project, and supply chain management.
- Develop leadership skills working with student teams overseeing and taking part in actual product and process develop projects.
- The program is structured to accommodate working students as much as possible.

Program Admissions

Applied Bachelor degrees at SVC are selective admission programs with a separate admissions process for these degrees. Prospective students must register for and attend a program information session to receive application materials. Information on the application and admissions process is available at **skagit.edu/BASM**.

Program Map

90 credits

Program Maps are an integral part of the Planning Guide. Each Program Map includes a recommended quarterly sequence of courses for a full-time student to earn this degree within two years. The courses align with the appropriate number of credits to meet degree requirements and is designed to help you create an individualized, customized Educational Plan, required of all SVC students. Please consult with an SVC Advisor to schedule courses and develop your personal Educational Plan.

FIRST YEAR

Fall Quarter

- MANF 311 - Production Tooling and Automation (5)
- ART 304: Industrial Design CAD (5)
- ENGR 306: Materials for Design (5)

TOTAL CREDITS: 15

Winter Quarter

- BASM 322 - Project Management (5)
- ART 309: Industrial Design Application (5)
- ECON 315: Economics of Product Development (5)

TOTAL CREDITS: 15

Spring Quarter

- MANF 370 - Product Validation (5)
- BASM 330 - Operations Management (5)
- CMST 307: Design Presentation (5)

TOTAL CREDITS: 15

SECOND YEAR

Fall Quarter

- MANF 426 - Prototyping (3)
- MANF 435 - Practical Design Applications (7)
- BUS 402: Supply Chain Management (5)

TOTAL CREDITS: 15

Winter Quarter

- MANF 437 - Contracts and Vendor Relations (3)
- MANF 439 - First Article Inspection and Process Control (7)

- PHIL 407: Ethical/Economical Product Development (5)

TOTAL CREDITS: 15

Spring Quarter

- MANF 442 - Enterprise Resource Planning (3)
- MANF 495 - Capstone: Product Development (7)
- BUS 425: Entrepreneurship and Innovation (5)

TOTAL CREDITS: 15

BACHELOR OF SCIENCE DEGREES (BS)

BACHELOR OF SCIENCE IN COMPUTER SCIENCE (BSCS)

Overview

The Bachelor of Science in Computer Science (BS-CS) degree is a direct entry, four-year program that prepares graduates for high paying careers in high-demand computer and technical fields. The BSCS is a student-centered program designed to prepare students to work in industry to contribute to the design and development of software and computer systems. The classes are built to teach students to collaborate and replicate real-world perspectives through teamwork and independent learning.

Degree Option

During the first year, students will take general education courses as well as an introduction to computer science and computers and society. In year two, students will mainly take computer science courses including a three course programming series, linear algebra for data analysis, web application programming, software development tools and a career seminar. In year three, students will complete two one-credit computer science seminars that help students explore careers, draft resumes, compile job application materials, and practice interview techniques. Additionally, students are introduced to foundational hands-on-skills in algorithms and data structures, foundations of computer science, database modeling, software engineering, two computer science electives, and math necessary for success in Computer Science. In the final year, students will tackle advanced topics including security concepts, principles of computer systems, algorithmic problem solving, a two-quarter capstone project, programming languages, statistical methods for user research, two computer science electives and the final computer science seminar.

The BS-CS is a hybrid program with classes typically in person two days per week and the rest online.

Program Learning Outcomes

Upon completion of the Bachelor of Science in Computer Science program, students will be able to:

- Analyze a complex computing problem and apply principles of computing and other relevant disciplines to identify solutions.
- Using application of knowledge and skills acquired in the program, design, implement, test, evaluate and present a computing-based solution to meet a given set of computing requirements in the context of the program's discipline.
- Communicate effectively in a variety of professional contexts.
- Recognize professional responsibilities and make informed and equitable judgments in computing practice based on legal and ethical principles.
- Function effectively as a member or leader of a team engaged in activities appropriate to the program's discipline including responding to feedback, handling ambiguity, and communicating with internal and external stakeholders.
- Apply computer science theory and software development fundamentals to produce computing-based solutions.

Cost of Program

Specific tuition information can be found at: **skagit.edu/admissions/tuition-fees**. Textbook costs should not exceed $50 per upper level course. Upper division courses carry a higher tuition rate than lower division courses.

Program Admissions

Apply at Enrollment Services. Students may enter the program at the beginning of Fall quarter. Advanced standing may be requested for prior education or experience.

Specialized Program Information

- Students work independently and in teams throughout the program.
- Starting in the 2nd year, students will complete integrated real-world projects, internships, resume and cover letter writing, interview preparation and job search skills.
- In the final year, students will complete two capstone courses dedicated to real world project development with hands-on experience, helping to develop professional portfolio to aid in the job search.
- Upon completion, graduates will be prepared to work in a high paying, high demand industry or apply for admission to a variety of graduate programs.

Prerequisite

Placement into MATH 099.

Laptop Requirement

The BS-Computer Science curriculum engages students in a hands-on learning environment to reflect modern software development practices, requiring students to collaborate in team-based workspaces with access to wireless technology. As a result, all incoming students are required to have consistent access to a computer, preferably a laptop, with a reliable internet connection. If you need support, please reach out to SVC Library or SVC Financial Aid.

Faculty
Catherine Wyman
Computer Science Instructor
catherine.wyman@skagit.edu

Sample Career Options

- Software Developer
- Software Quality Assurance Analyst and Tester
- Computer Systems Analyst
- Computer Programmer
- Database Administrator
- Computer and Information Systems Manager

Program Map

180 credits

Program Maps are an integral part of the Planning Guide. Each Program Map includes a recommended quarterly sequence of courses for a full-time student to earn this degree within two years. The courses align with the appropriate number of credits to meet degree requirements and is designed to help you create an individualized, customized Educational Plan, required of all SVC students. Please consult with an SVC Advisor to schedule courses and develop your personal Educational Plan.

FIRST YEAR

Fall Quarter
- CS 110 - Introduction to Computer Science (5)
- CSS 103 - First Quarter Experience (2)
- ENGL& 101 - English Composition I (5)
- MATH 099 - Intermediate Algebra (5)

TOTAL CREDITS: 17

Winter Quarter
- CS 222 - Computing, Data, and Societyation (5)
- CMST 205 - Intercultural Communication: D (5)
- MATH& 141 - Precalculus I (5)

TOTAL CREDITS: 15

Spring Quarter
- ENGL& 235 - Technical Writing (5)
- MATH& 146 - Introduction to Stats (5)
- PSYC& 100 - General Psychology (5)

TOTAL CREDITS: 15

SECOND YEAR

Fall Quarter
- PHIL& 101 - Introduction to Philosophy (5)
- CS 121 - Introduction to Computer Programming I (5)
- Natural Science w/ Lab (5)

TOTAL CREDITS: 15

Winter Quarter
- CS 122 - Introduction to Computer Programming II (5)
- CS 170 - Linear Algebra for Data Analysis (5)
- Natural Science w/ Lab (5)

TOTAL CREDITS: 15

Spring Quarter
- CS 123 - Introduction to Computer Programming III (5)
- CS 233 - Web Application Programming (5)
- CS 243 - Software Development Tools (3)
- CS 296 - CS Career Seminar (2)

TOTAL CREDITS: 15

THIRD YEAR

Fall Quarter
- CS 202 - Discrete Structures 1 (5)
- CS 301 - Foundations of Computer Science (5)
- CS 320 - Databases and Information Management Systems (5)
- CS 397 - CS Seminar (1)

TOTAL CREDITS: 16

Winter Quarter
- CS 333 - Data Structures and Algorithms 1 (5)
- CS 302 - Discrete Structures 2 (5)
- CS 3xx - CS Elective (5)

TOTAL CREDITS: 15

Spring Quarter
- CS 334 Data Structures and Algorithms 2 (5)
- CS 350 Software Engineering (5)
- CS 3xx CS Elective (5)
- CS 398 CS Seminar (1)

TOTAL CREDITS: 16

FOURTH YEAR

Fall Quarter
- CS 401 Algorithmic Problem Solving (5)
- CS 422 Principles of Computer Systems (5)
- CS 450 Security Foundations (5)
- CS 499 CS Seminar (1)

TOTAL CREDITS: 16

Winter Quarter
- CS 433 Programming Languages (5)
- CS 4xx CS Elective (5)
- CS 485 Capstone Project 1 (5)

TOTAL CREDITS: 15

Spring Quarter
- CS 402 Statistical Methods for User Research (5)
- CS 4xx CS Elective (5)
- CS 486 Capstone Project 2 (5)

TOTAL CREDITS: 15

TRANSFER FOCUSED ASSOCIATE DEGREES

ASSOCIATE OF ARTS DIRECT TRANSFER AGREEMENT, AA-DTA

Overview

The Associate of Arts Direct Transfer Agreement (AA-DTA) degree is designed to transfer to four-year colleges and universities in Washington state.

DTA DEGREES PROVIDE STUDENTS

- Priority consideration in admissions for most humanities and social science majors at public universities (ahead of students without a degree).
- Completion of lower division general education requirements.
- Credit for all courses completed within the DTA up to and in some cases beyond 90 credits.

- Opportunity to explore several fields of study through the category of up to 30 credits of elective courses.
- Opportunity to complete prerequisites for a future major.

Students who transfer within these agreements must still meet requirements in major, minor and professional programs.

This entire degree can be completed online.

Transfer Opportunities

The AA-DTA Degree is a 90-credit transfer degree that fulfills the first two years of general education requirements for most four-year degrees in the arts, humanities, and social sciences.

Washington Colleges and Universities accepting the AA-DTA degree from Skagit Valley College:

- **Central Washington University**
- **City University of Seattle**
- **Eastern Washington University**
- **University of Washington**
- **Washington State University**
- **Western Washington University**
- **Whitworth University**

Learning Outcomes

GENERAL EDUCATION LEARNING OUTCOMES

THINK

Think analytically, logically, creatively, and reflectively.

- Recognize how the values and biases in different disciplines can affect the ways in which information and knowledge are created and analyzed.
- Analyze issues and develop questions within a discipline.
- Access, interpret, and evaluate relevant information to reach defensible conclusions.
- Develop unique and/or innovative solutions and gain insight utilizing reflective and creative thought processes.

Quantify

Apply mathematical skills quantitatively, logically, creatively, and critically.

- Use mathematical principles and methods to reason, gain insight, and solve problems.
- Interpret data presented in various formats.

Communicate

Produce and exchange ideas and information through written, spoken, and visual forms.

- Read, comprehend, and produce college level writing.
- Demonstrate effective interpersonal, group, and/or public communication skills.
- Develop appropriate communication strategies to inform, persuade, or entertain.
- Demonstrate informational, critical, and empathetic listening skills appropriate to a given context.
- Analyze, interpret, and/or create visually communicated content.

Integrate

Apply knowledge, skills, and methodologies from multiple disciplines.

- Recognize the interconnectedness of diverse disciplines and areas of study.
- Identify the strengths and limitations of different disciplinary frameworks and methodologies and their implementation.
- Identify and evaluate the relationships among different perspectives within a field of study or among different fields of study.
- Demonstrate cognitive complexity by considering issues from multiple perspectives.

Engage

Interact with humans and the environment informed by an understanding of equity.

- Demonstrate an understanding of the historically and socially constructed nature of human differences, with a particular focus on power and privilege.
- Identify prevailing systems of power and one's individual and group status.
- Reflect critically on one's ethical role and identity as a citizen, consumer, student, and environmental actor.
- Apply cross-cultural communication strategies and skills appropriate to a given context.

PROGRAM LEARNING OUTCOMES

Graduates of the AA-DTA program will be able to:

Natural Sciences Outcomes

- Collect and analyze data and interpret the results from scientific investigations.
- Demonstrate an understanding of the fundamental concepts in at least one scientific discipline.
- Demonstrate scientific literacy.

Social Sciences Outcomes

- Apply concepts from the social sciences to analyze individual or social phenomena, processes, events, conflicts, or issues.
- Explain the variables that influence the structure of cultures and societies.
- Identify social variables, structures, and experiences that shape individual perspectives.

Humanities Outcomes

- Apply skills, terms, concepts, research and/or analysis methods to express ideas within the humanities.
- Analyze and/or interpret creative and communicative expressions of the humanities.

Physical Education Outcomes

- Develop mental and physical health through movement.
- Gain knowledge of body systems and demonstrate skills necessary to pass national or state certification tests for emergency response.
- Obtain and apply science-based knowledge to support personal fitness, health, and well-being.

Emphases

Emphases are designed by faculty for students with an interest in majoring in these areas at a four-year institution. While the specific emphasis will not be posted on the student's transcript (the Associate in Arts - Direct Transfer Agreement degree will be listed), each emphasis has specifically chosen elective courses that are geared toward the student's intended major:

- American Sign Language
- Art
- Communications
- Computer Science
- Economics
- English
- History
- Kinesiology
- Mathematics
- Nutrition
- Philosophy
- Political Science
- Psychology
- Sociology
- Spanish

Degree Requirements

An ampersand (&) denotes Common Course Numbering

Students must complete a minimum of 90 quarter credits in transferable courses numbered 100 or above with a cumulative grade point average of at least 2.0 in order to graduate from SVC with an Associate of Arts degree. Credits must satisfy requirements listed below. A minimum of 60 quarter hours of general education courses are required. At least 25 college-level credits must be earned at SVC with a minimum GPA of 2.0. Students should check specific admission and program requirements and application deadlines to assist in successful transfer to a four-year institution. College counselors and academic faculty can advise students of special lower division requirements.

1. First Quarter Experience (2 cr.)

- CSS 103 - First Quarter Experience (2)

2. Communication Skills (15 cr.)

- ENGL& 101 - English Composition I (5)

plus 5 credits (one) of the following:

- CMST& 210 - Interpersonal Communication: D (5)
- CMST& 220 - Public Speaking (5)
- CMST& 230 - Small Group Communication: D (5)

plus 5 credits (one) of the following:

- ENGL& 102 - Composition II (5)
- ENGL 103 - Advanced Composition (5)
- ENGL& 235 - Technical Writing (5)

3. Quantitative Skills (5 cr.)

Select one course from the following:

- MATH& 107 - Math in Society (5)
- MATH& 141 - Precalculus I (5)
- MATH& 142 - Precalculus II (5)
- MATH& 146 - Introduction to Stats (5)
- MATH& 148 - Business Calculus (5)
- MATH& 151 - Calculus I (5)
- MATH& 152 - Calculus II (5)
- MATH& 153 - Calculus III (5)

4. Physical Education (3 cr.)

- PE 100 - Wellness For Life (1)
- PE 103 - Wellness Movement (2)

Note

A maximum of three PE Activities credits can be used for the DTA: two credits for PE requirement and one additional credit toward restricted or "gray area" electives.

PE 100 may also be taken with other activity courses, excluding PE 200, PE 204 and PE 205.

5. Integrative Learning Experiences

Two Integrative Learning Experiences (ILE) are required. *One ILE must be a Learning Community. The second ILE may be another Learning Community or an Integrative Experience.*

- A *Learning Community* (LC) is the integrated combination of two or more courses from different areas (for example, sociology and literature, or physics and math, or speech and economics, or composition and philosophy). Learning Communities are indicated in the course schedule.
- *Integrative Experiences* (IEs) are curricular or co-curricular experiences designed by faculty in which students demonstrate their ability to integrate information, concepts, analytical frameworks, and skills from two or more areas in a purposeful project or experience. Integrative Experiences that are classes are indicated in the course schedule; co-curricular IEs are indicated in promotion and advising for the experience or project. Students may design a Learning into Action IE under the guidance of the supervising faculty member.

6. Diversity Requirement

At least one Diversity Intensive course is required. Students should use the SVC online quarterly class schedule search or consult with their faculty advisor or counselor to identify courses that fulfill this requirement.

7. Distribution Requirements (45 cr.)

Select credits from three areas of study: ***Natural Sciences, Social Sciences, and Humanities***. A specific course may be credited toward no more than one distribution requirement.

See Distribution Lists - AA-DTA, pp 145-147, for a selection of eligible courses.

8. Electives (22-25 cr.)

In order to accumulate 90 college-level (100 or higher) credits for the degree, students will need additional elective credits. Students may select electives from the Distribution Lists - AA-DTA (Natural Sciences, Social Sciences, Humanities), other academic courses, or a maximum of 15 credits from Gray Area courses, pp 147-148. A maximum of nine Family Life credits may be counted as Gray Area electives. HMATH 100 and WMATH 100 cannot be included in elective credits for the degree.

Transfer Program Planning Guides

The information in the following Planning Guides, in conjunction with an SVC Academic Advisor, will help you to complete

your degree in a timely manner. Please consult with an SVC Academic Advisor to create an individualized, customized Educational Plan. An Educational Plan is required of all SVC students. You will also need to consult with the institution you want to transfer to.

GENERAL PROGRAM MAP

90 credits

The Program Map is provided as a guide for a traditional full-time student whose goal is to earn the Associate of Arts Direct Transfer Agreement, AA-DTA. The courses are designed with the appropriate number of credits to meet degree requirements and are organized in a recommended sequence. Please consult an SVC advisor to schedule courses and develop a personalized educational plan.

FIRST YEAR

1st Quarter

- ENGL& 101 - English Composition I (5)
- CSS 103 - First Quarer Experience (2)
- MATH& 107 - Math in Society (5)
  or MATH& 141 - Precalculus I (5)
  or MATH& 146 - Introduction to Stats (5)
- PE 100 - Wellness for Life (1)
- PE Activity Choise (2)

TOTAL CREDITS: 15

2nd Quarter

- ENGL& 102 - Composition II (5)
- Social Science course (5), preferably in Learning Community format.
  See Distribution Lists - AA-DTA, pp 145-147. Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.
- Humanities course (5), preferably in Learning Community format.
  See Distribution Lists - AA-DTA, pp 145-147. Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.

TOTAL CREDITS: 15

3rd Quarter

- CMST& 210 - Interpersonal Communicaton D (5)
  or CMST& 220 - Public Speaking (5)
  or CMST& 210 - Small Group Communication (5)
- Natural Sciences course (5), preferably in Learning Community format.
  See Distribution Lists - AA-DTA, pp 145-147. Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.
- Humanities course (5), preferably in Learning Community format.
  See Distribution Lists - AA-DTA, pp 145-147. Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.

TOTAL CREDITS: 15

SECOND YEAR

4th Quarter

- Social Sciences course (5), preferably in Learning Community format.
  See Distribution Lists - AA-DTA, pp 145-147. Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.
- Humanities course (5), preferably in Learning Community format.
  See Distribution Lists - AA-DTA, pp 145-147. Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.
- Natural Sciences course (5), preferably in Learning Community format.
  See Distribution Lists - AA-DTA, pp 145-147. Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.

TOTAL CREDITS: 15

5th Quarter

- Natural Sciences course (5), preferably in Learning Community format.
  See Distribution Lists - AA-DTA, pp 145-147. Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.
- Social Sciencescourse (5), preferably in Learning Community format.
  See Distribution Lists - AA-DTA, pp 145-147. Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.
- Elective (5)
  Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.

TOTAL CREDITS: 15

6th Quarter

- Electives (15)
  Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.

TOTAL CREDITS: 15

AMERICAN SIGN LANGUAGE EMPHASIS, AA-DTA

PLANNING GUIDE – TRANSFER DEGREE

Overview

American Sign Language courses, offered through the World Languages Department, are offered in a continuous, two-year program with courses that range from beginning to high intermediate levels. The courses are aimed at enabling students to gain proficiency in comprehension, speaking, reading, writing and cultural competence. These courses are transferable and meet humanities distribution, and/or elective requirements, depending on the specific degree sought or intended major.

Sample career options include–

- **Interpreters and Translators**

Transfer and Degree Requirements

If you are considering a major in this emphasis by transferring to a four-year college or university in Washington state, our Sample Schedule is designed to provide you with faculty recommended courses to complete your Associate of Arts Direct Transfer Agreement, AA-DTA degree.

Your personal Educational Plan will vary based on many factors including:

- The quarter you begin;
- How many classes/credits you can take in each quarter;

- Your Math and English placement;
- If you have credits you have already taken and plan to transfer them to SVC, visit the Enrollment Services webpage (**https://catalog.skagit.edu/content.php?catoid=32&navoid=3010**);
- The college you are interested in transferring to;
- Other factors.

To keep you on the best pathway, we encourage you to consult with the institution you want to transfer to as well as an SVC Academic Advisor, who will work with you to create a personalized Educational Plan and schedule that takes these factors into account.

For detailed information regarding the requirements that must be met to complete this degree, please review the Associate of Arts Direct Transfer Agreement information and details, p.41

Sample Schedule Option

95 credits

This Sample Schedule is provided as a guide for a traditional full-time student whose goal is to earn the Associate of Arts Direct Transfer Agreement, AA-DTA with an interest in American Sign Language. The courses are designed with the appropriate number of credits to meet degree requirements and are organized in a recommended sequence. Please consult an SVC advisor to schedule courses and develop a personalized educational plan.

FIRST YEAR

1st Quarter

- ASL& 121 - American Sign Language I (5)
- CSS 103 - First Quarer Experience (2)
- CMST 205 - Intercultural Communication: D (5)
- ENGL& 101 - English Composition I (5)

TOTAL CREDITS: 17

2nd Quarter

- ASL& 122 - American Sign Language II (5)
- CMST& 220 - Public Speaking (5)
- MATH& 107 - Math in Society (5)
  or MATH& 146
- PE 100 - Wellness for Life (1)
- PE 103 - Wellness Movement (2)

TOTAL CREDITS: 18

3rd Quarter

- ASL& 123 - American Sign Langauge III (5)
- ENGL& 102 - Composition II (5)
- Social Science course (5), preferably in Learning Community format.
  See Distribution Lists - AA-DTA, pp 145-147. Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.

TOTAL CREDITS: 15

SECOND YEAR

4th Quarter

- Humanities course (5), preferably in Learning Community format.
  See Distribution Lists - AA-DTA, pp 145-147. Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.
- Natural Sciences course (5), preferably in Learning Community format.
  See Distribution Lists - AA-DTA, pp 145-147. Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.
- Social Sciencescourse (5), preferably in Learning Community format.
  See Distribution Lists - AA-DTA, pp 145-147. Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.

TOTAL CREDITS: 15

5th Quarter

- CMST& 210 - Interpersonal Communicaton D (5)
- Humanities course (5), preferably in Learning Community format.
  See Distribution Lists - AA-DTA, pp 145-147. Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.
- Natural Sciences course (5), preferably in Learning Community format.
  See Distribution Lists - AA-DTA, pp 145-147. Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.

TOTAL CREDITS: 15

6th Quarter

- Humanities course (5), preferably in Learning Community format.
  See Distribution Lists - AA-DTA, pp 145-147. Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.
- Natural Sciences course (5), preferably in Learning Community format.
  See Distribution Lists - AA-DTA, pp 145-147. Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.
- Social Sciencescourse (5), preferably in Learning Community format.
  See Distribution Lists - AA-DTA, pp 145-147. Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.

TOTAL CREDITS: 15

ART EMPHASIS, AA-DTA

PLANNING GUIDE – TRANSFER DEGREE

Overview

The Art Department is committed to the value of the arts to all academic studies and offers courses for both majors and non-majors. Students who intend to transfer should be aware that they may be required to present a portfolio of work. Your advisor can provide guidance for you to prepare the portfolio. Students who take courses in the department have the opportunity for their work to be featured in the SVC Annual Juried Student Exhibition. Students can also receive credit for working with arts programs and organizations in the community.

Sample career options include–

- **Fine Artists, Including Painters, Sculptors and Illustrators**
- **Graphic Design**

Transfer and Degree Requirements

If you are considering a major in this emphasis by transferring to a four-year college or university in Washington state, our Sample Schedule is designed to provide you with faculty

recommended courses to complete your Associate of Arts Direct Transfer Agreement, AA-DTA degree.

Your personal Educational Plan will vary based on many factors including:

- The quarter you begin;
- How many classes/credits you can take in each quarter;
- Your Math and English placement;
- If you have credits you have already taken and plan to transfer them to SVC, visit the Enrollment Services webpage (**https://catalog.skagit.edu/content.php?catoid=32&navoid=3010**);
- The college you are interested in transferring to;
- Other factors.

To keep you on the best pathway, we encourage you to consult with the institution you want to transfer to as well as an SVC Academic Advisor, who will work with you to create a personalized Educational Plan and schedule that takes these factors into account.

For detailed information regarding the requirements that must be met to complete this degree, please review the Associate of Arts Direct Transfer Agreement information and details, p.41

Sample Schedule Option

This Sample Schedule is provided as a guide for a traditional full-time student whose goal is to earn the Associate of Arts Direct Transfer Agreement, AA-DTA with an interest in Art. The courses are designed with the appropriate number of credits to meet degree requirements and are organized in a recommended sequence. Please consult an SVC advisor to schedule courses and develop a personalized educational plan.

FIRST YEAR

1st Quarter

- ART 101 - Drawing Fundamentals (5)
- CSS 103 - First Quarter Experience (2)
- ENGL& 101 - English Composition I (5)
- MATH& 107 - Math in Society (5)

TOTAL CREDITS: 17

2nd Quarter

- Art Elective(5)
  See Distribution Lists - AA-DTA (pp 145-147). Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.
- CMST& 220 - Public Speaking (5)
- ENGL& 102 - Composition II (5)
- PE 100 - Wellness For Life (1)

TOTAL CREDITS: 16

3rd Quarter

- ART& 100 - Art Appreciation: D (5)
- ART 111 - Two Dimensional Color and Design (5)
- PE Activity (1)
- Natural Science course (5) with lab, preferably in Learning Community format.
  See Distribution Lists - AA-DTA (pp 145-147). Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.

TOTAL CREDITS: 16

SECOND YEAR

4th Quarter

- ART 112 - Three Dimensional Design (5)
- ART 160 - Portfolio (1)
- Social Sciences course (5), preferably in Learning Community format.
  See Distribution Lists - AA-DTA (pp 145-147). Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.
- Natural Science course (5) with lab, preferably in Learning Community format.
  See Distribution Lists - AA-DTA (pp 145-147). Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.

TOTAL CREDITS: 16

5th Quarter

- Social Sciences course (5), preferably in Learning Community format.
  See Distribution Lists - AA-DTA (pp 145-147). Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.
- Natural Science course (5) with lab, preferably in Learning Community format.
  See Distribution Lists - AA-DTA (pp 145-147). Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.
- Elective(5)
  Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.

TOTAL CREDITS: 15

6th Quarter

- ART 161 - Exhibition (1)
- Art Elective (5)
- PE Activity (1)
- Social Sciences course (5), preferably in Learning Community format.
  See Distribution Lists - AA-DTA (pp 145-147). Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.

TOTAL CREDITS: 12

COMMUNICATIONS EMPHASIS, AA-DTA

PLANNING GUIDE – TRANSFER DEGREE

Overview

Communication Studies supports students in developing effective academic, personal, and professional communication. Communication Studies courses may be used to meet communication skills, humanities distribution, and/or elective requirements, depending on the specific degree sought or intended major.

Sample career options include–

- **Public Relations Specialists**
- **Reporters and Correspondents**

Transfer and Degree Requirements

If you are considering a major in this emphasis by transferring to a four-year college or university in Washington state, our

Sample Schedule is designed to provide you with faculty recommended courses to complete your Associate of Arts Direct Transfer Agreement, AA-DTA degree.

Your personal Educational Plan will vary based on many factors including:

- The quarter you begin;
- How many classes/credits you can take in each quarter;
- Your Math and English placement;
- If you have credits you have already taken and plan to transfer them to SVC, visit the Enrollment Services webpage (**https://catalog.skagit.edu/content.php?catoid=32&navoid=3010**);
- The college you are interested in transferring to;
- Other factors.

To keep you on the best pathway, we encourage you to consult with the institution you want to transfer to as well as an SVC Academic Advisor, who will work with you to create a personalized Educational Plan and schedule that takes these factors into account.

For detailed information regarding the requirements that must be met to complete this degree, please review the Associate of Arts Direct Transfer Agreement information and details, p.41

Sample Schedule Option

This Sample Schedule is provided as a guide for a traditional full-time student whose goal is to earn the Associate of Arts Direct Transfer Agreement, AA-DTA with an interest in Communications. The courses are designed with the appropriate number of credits to meet degree requirements and are organized in a recommended sequence. Please consult an SVC advisor to schedule courses and develop a personalized educational plan.

FIRST YEAR

1st Quarter

- ENGL& 101 - English Composition I (5)
- CSS 103 - First Quarter Experience (2)
- CMST& 102 - Introduction to Mass Media (5)
- PE 100 - Wellness For Life (1)

TOTAL CREDITS: 13

2nd Quarter

- CMST& 220 - Public Speaking (5)
- JOUR 101 - Introduction to Journalism and Newswriting (5)
  or ART& 100 - Art Appreciation: D (5)
  or MUSC& 105 - Music Appreciation (5)
- MATH& 107 - Math in Society (5)
  or MATH& 146 - Introduction to Stats (5)

TOTAL CREDITS: 15

3rd Quarter

- ENGL& 102 - Composition II (5)
- Natural Science (5) with lab, preferably in the Learning Community format.
  See Distribution List. Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.
- Social Science (5) preferably in Learning Community format.
  See Distribution List. Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.

TOTAL CREDITS: 15

SECOND YEAR

4th Quarter

- CMST& 210 - Interpersonal Communication: D (5)
- PE Activity (1)
- Social Science (5) preferably in Learning Community format.
  Suggested: ECON& 201, POLS& 101 or POLS& 202. Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.
- Humanities (5) preferably in Learning Community format.
  Suggested: DRMA& 101, ENGL 115 or PHIL 215. Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.

TOTAL CREDITS: 16

5th Quarter

- CMST 205 - Intercultural Communication: D (5)
- PE Activity (1)
- Natural Science (5) with a lab, preferably in the Learning Community format.
  Suggested: BIOL 111, EASC 102, or GEOL& 101. Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.
- Elective (5)
  Suggested: ANTH& 206 or BUS 240. Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.

TOTAL CREDITS: 16

6th Quarter

- CMST 205 - Intercultural Communication: D (5)
- Natural Science (5) with a lab, preferably in the Learning Community format.
  Suggested: EASC 111 or ENVS& 101. Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.
- Social Science (5), preferably in Learing Community format:
  Suggested courses: ECON& 202, ETHNC 201 or PSYC& 180. Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.

TOTAL CREDITS: 15

COMPUTER SCIENCE EMPHASIS, AA-DTA

PLANNING GUIDE – TRANSFER DEGREE

Overview

Computer Science is the study of techniques to represent, store and manipulate information within a computer information system. Computer programming is a major component of such study, and is the focus of most of the CS courses listed below. If you are thinking of pursuing a Bachelor's Degree in Computer Science at a university, you should take CS 142 or CS 210 because success in these classes tends to be a good indicator of success in a computer science program. Consult the university's catalog to determine which of the two courses best fits the requirements of that institution.

Sample career options include–

- **Computer Programmers**
- **Computer and Information Systems Managers**
- **Network and Computer Systems Administrators**
- **Computer System Analysts**

Transfer and Degree Requirements

If you are considering a major in this emphasis by transferring to a four-year college or university in Washington state, our Sample Schedule is designed to provide you with faculty recommended courses to complete your Associate of Arts Direct Transfer Agreement, AA-DTA degree.

Your personal Educational Plan will vary based on many factors including:

- The quarter you begin;
- How many classes/credits you can take in each quarter;
- Your Math and English placement;
- If you have credits you have already taken and plan to transfer them to SVC, visit the Enrollment Services webpage (**https://catalog.skagit.edu/content.php?catoid=32&navoid=3010**);
- The college you are interested in transferring to;
- Other factors.

To keep you on the best pathway, we encourage you to consult with the institution you want to transfer to as well as an SVC Academic Advisor, who will work with you to create a personalized Educational Plan and schedule that takes these factors into account.

For detailed information regarding the requirements that must be met to complete this degree, please review the Associate of Arts Direct Transfer Agreement information and details, p.41

Program Map

The Program Map is provided as a guide for a traditional full-time student whose goal is to earn the Associate of Arts Direct Transfer Agreement, AA-DTA with an interest in Computer Science. The courses are designed with the appropriate number of credits to meet degree requirements and are organized in a recommended sequence. Please consult an SVC advisor to schedule courses and develop a personalized educational plan.

FIRST YEAR

1st Quarter

- CS 101-Computers, Technology and Society (5)
- CSS 103-First Quarter Experience (2)
- MATH& 151 - Calculus I (5)
- PE 100-Wellness For Life (1)

TOTAL CREDITS: 13

2nd Quarter

- CS 142 - Java Programming I (5)
  or CS 210 - C++ Programming I (5)
- ENGL& 101 - English Composition I (5)
- MATH& 152 - Calculus II (5)
- PE Activity (1)

TOTAL CREDITS: 16

3rd Quarter

- CS 143 - Java Programming II (5)
  or CS 211 - C++ Programming II (5)
- MATH& 153 - Calculus III (5)
- PHIL 215 - Introduction to Ethics (5)
- PE Activity (1)

TOTAL CREDITS: 16

SECOND YEAR

4th Quarter

- CHEM& 161 - General Chemistry w/Lab I (5)
  or BIOL& 221 - Majors Ecology/Evolution (5)
- ECON& 201 - Micro Economics (5)
  or ECON& 202 - Macro Economics (5)
- PSYC&100 - General Psychology (5)

TOTAL CREDITS: 15

5th Quarter

- CHEM& 162 - General Chemistry w/Lab II (5)
  or BIOL& 222 - Majors Cell/Molecular Biology (5)
- CMST& 210 - Interpersonal Communication: D (5)
  or CMST& 230 - Small Group Communication: D (5)
  or ENGL& 235 - Technical Writing (5)
- Humanities (5) preferably in Learning Community format.
  See Distribution Lists - AA-DTA (pp 145-147). Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.

TOTAL CREDITS: 15

6th Quarter

- CHEM& 163 - General Chemistry w/Lab III (5)
  or BIOL& 223 - Majors Organismal Physiology (5)
- ENGL& 235 - Technical Writing (5)
- Humanities (5) preferably in Learning Community format.
  See Distribution Lists - AA-DTA (pp 145-147). Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.

TOTAL CREDITS: 15

ECONOMICS EMPHASIS, AA-DTA

PLANNING GUIDE – TRANSFER DEGREE

Overview

The study of economics provides students with an understanding of the structure and functions of the American economy both independently and within the global economy. A knowledge of economics enhances the ability to think logically and enables students to apply economic concepts to the analysis of real world situations and opportunities. Economics courses satisfy degree requirements in the Cultures area of study and Macro and Microeconomics are required courses for business students planning to transfer to four-year business programs.

Sample career options include–

- **Economists**
- **Securities and Commodities Traders**
- **Investment Fund Managers**

Transfer and Degree Requirements

If you are considering a major in this emphasis by transferring to a four-year college or university in Washington state, our

Sample Schedule is designed to provide you with faculty recommended courses to complete your Associate of Arts Direct Transfer Agreement, AA-DTA degree.

Your personal Educational Plan will vary based on many factors including:

- The quarter you begin;
- How many classes/credits you can take in each quarter;
- Your Math and English placement;
- If you have credits you have already taken and plan to transfer them to SVC, visit the Enrollment Services webpage (**https://catalog.skagit.edu/content.php?catoid=32&navoid=3010**);
- The college you are interested in transferring to;
- Other factors.

To keep you on the best pathway, we encourage you to consult with the institution you want to transfer to as well as an SVC Academic Advisor, who will work with you to create a personalized Educational Plan and schedule that takes these factors into account.

For detailed information regarding the requirements that must be met to complete this degree, please review the Associate of Arts Direct Transfer Agreement information and details, p.41

Sample Schedule Option

This Sample Schedule is provided as a guide for a traditional full-time student whose goal is to earn the Associate of Arts Direct Transfer Agreement, AA-DTA with an interest in Economics. The courses are designed with the appropriate number of credits to meet degree requirements and are organized in a recommended sequence. Please consult an SVC advisor to schedule courses and develop a personalized educational plan.

FIRST YEAR

1st Quarter

- CSS 103-First Quarter Experience (2)
- ENGL& 101-English Composition I (5)
- ECON 101-Introduction to Economics (5)
- PE 100-Wellness For Life (1)
- PE Activity (1)

TOTAL CREDITS: 14

2nd Quarter

- ECON& 201-Micro Economics (5)
- MATH& 107-Math in Society (5)
  or MATH& 146 - Introduction to Stats (5)
- NUTR& 101-Nutrition (5)

TOTAL CREDITS: 15

3rd Quarter

- BUS 295-Business Integrated Experience Seminar (2)
- ENGL& 102-Composition II (5)
- CMST& 220-Public Speaking (5)
- Humanities course (5), preferably in Learning Community format.
  Suggested: CMST& 102, ENGL& 254 or World Language 121. Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.

TOTAL CREDITS: 17

SECOND YEAR

4th Quarter

- POLS 201-Comparative Government: D (5)
- PSYC& 100-General Psychology (5)
- Humanities course (5), preferably in Learning Community format.
  See Distribution Lists-AA-DTA. Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.

TOTAL CREDITS: 15

5th Quarter

- EASC 110-Energy and Society (5)
- ECON& 202-Macro Economics (5)
- POLS& 202-American Government: D (5)

TOTAL CREDITS: 15

6th Quarter

- PHIL 215-Introduction to Ethics (5)
- Natural Sciences course (5), preferably in Learning Community format.
  Suggested: EASC 120, ENVS& 101, GEOL& 100, NUTR& 101 or OCEA& 101. Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.

TOTAL CREDITS: 15

ENGLISH EMPHASIS, AA-DTA

PLANNING GUIDE – TRANSFER DEGREE

Overview

The English program includes pre-college level courses designed to help students develop skills for succeeding in college-level composition courses. The composition courses (ENGL& 101, ENGL& 102, ENGL 103, ENGL& 235) are designed to prepare students for careers and transfer to 4-year schools; they are regularly taught both as stand-alone classes and as Integrated Learning Communities with other disciplines. Courses in professional/technical communication and creative writing are regular offerings. Before enrolling in English classes ENGL 097 and above, students must take a placement test to determine the appropriate class to enroll in. Both pre-college and college-level reading courses are offered to improve students' comprehension skills essential for any discipline. Some may be offered combined with other disciplines in Learning Communities.

Literature courses are offered as part of a comprehensive English program. Introductory and more advanced classes focus on the major genres, film, and World and American literature. Many literature courses are also offered through Integrated Learning Communities with other disciplines.

Sample career options include–

- Secondary School Teachers
- Reporters and Correspondents
- Public Relations Specialists

Transfer and Degree Requirements

If you are considering a major in this emphasis by transferring to a four-year college or university in Washington state, our Sample Schedule is designed to provide you with faculty

recommended courses to complete your Associate of Arts Direct Transfer Agreement, AA-DTA degree.

Your personal Educational Plan will vary based on many factors including:

- The quarter you begin;
- How many classes/credits you can take in each quarter;
- Your Math and English placement;
- If you have credits you have already taken and plan to transfer them to SVC, visit the Enrollment Services webpage (**https://catalog.skagit.edu/content.php?catoid=32&navoid=3010**);
- The college you are interested in transferring to;
- Other factors.

To keep you on the best pathway, we encourage you to consult with the institution you want to transfer to as well as an SVC Academic Advisor, who will work with you to create a personalized Educational Plan and schedule that takes these factors into account.

For detailed information regarding the requirements that must be met to complete this degree, please review the Associate of Arts Direct Transfer Agreement information and details, p.41

Sample Schedule Option

This Sample Schedule is provided as a guide for a traditional full-time student whose goal is to earn the Associate of Arts Direct Transfer Agreement, AA-DTA with an interest in English. The courses are designed with the appropriate number of credits to meet degree requirements and are organized in a recommended sequence. Please consult an SVC advisor to schedule courses and develop a personalized educational plan.

FIRST YEAR

1st Quarter

- CSS 103 - First Quarter Experience (2)
- ENGL& 101 - English Composition I (5)
- PE 100 - Wellness For Life (1)
- PE Activity (1)
- Social Science (5) preferably in Learning Community format.
  Suggested: HIST& 148 or PSYC& 100. Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.

  TOTAL CREDITS: 14

2nd Quarter

- CMST& 210 - Interpersonal Communication: D (5)
  or CMST& 220 - Public Speaking (5)
- ENGL& 111 - Introduction to Literature: D
- MATH& 107 - Math in Society (5)
  or MATH& 146 - Introduction to Stats (5)
- PE Activity (1)

  TOTAL CREDITS: 16

3rd Quarter

- ENGL& 102 - Composition II (5)
- ENGL& 112 - Introduction to Fiction: D (5)
  or ENGL& 113 - Introduction to Poetry: D (5)
  or ENGL 111 - Introduction to Literature: D (5)
- Natural Science course (5) with lab, preferably in Learning Community format.
  Suggested: BIOL& 100, BIOL 127, EASC 110, GEOL& 110, GEOL& 208. Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.

  TOTAL CREDITS: 15

SECOND YEAR

4th Quarter

- ENGL& 236 - Creative Writing I (5)
  or ENGL 250 - Introduction to American Literature: D (5)
  or ENGL 283 - British Literature 19th and 20th Centuries: D (5)
- Social Sciences course (5), preferably in Learning Community format.
  Suggested: SOC& 101, SOC 112, SOC& 201 or SOC 204. Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.
- Humanities course (5), preferably in Learning Community format.
  Suggested: ART& 100, DRMA 133 or World Language 121. Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.

  TOTAL CREDITS: 15

5th Quarter

- ENGL 239 - Introduction to U.S. Latino Literature: D (5)
  or ENGL& 254 - World Literature I (5)
- Natural Sciences course (5), with lab, preferably in Learning Community format.
  Suggested: BIOL& 100, BIOL 127, EASC 110, GEOL& 110 or GEOL& 208. Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.
- Social Sciences course (5), preferably in Learning Community format.
  Suggested: HIST& 215, HIST 242, POLS 200, POLS& 202 or World Language 122. Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.

  TOTAL CREDITS: 15

6th Quarter

- ENGL& 113 - Introduction to Poetry: D (5)
  or ENGL& 236 - Creative Writing I (5)
- ENGL 115 - Introduction to Film: D (5)
  or ENGL 120 - Introduction to Children's Literature (5)
  or ENGL& 220 - Introduction to Shakespeare (5)
- Natural Sciences course (5), with lab, preferably in Learning Community format.
  Suggested:BIOL& 100, BIOL 127, EASC 110, GEOL& 110 or GEOL& 208. Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.

  TOTAL CREDITS: 15

HISTORY EMPHASIS, AA-DTA

PLANNING GUIDE – TRANSFER DEGREE

Overview

History examines the complexity of and relationship between past events in order to understand the meaning of human experience over time. Far from being an exercise in remembering facts and dates, historical study is dynamic and forever new. In exploring the lives of diverse peoples in different times and places, historians interpret a wide range of evidence from various perspectives. Through such inquiries, history seeks to make sense of the present and the future as well as the past.

SVC offers year-long survey classes in World History, Western Civilization, and United States History. Students may take an entire sequence or a single quarter. Apart from high interest and relevance, students should consider studying history in order to be informed and responsible global citizens.

Sample career options include–

- **Historians**
- **Park Naturalists**
- **Archivists**
- **Secondary School Teachers**

Transfer and Degree Requirements

If you are considering a major in this emphasis by transferring to a four-year college or university in Washington state, our Sample Schedule is designed to provide you with faculty recommended courses to complete your Associate of Arts Direct Transfer Agreement, AA-DTA degree.

Your personal Educational Plan will vary based on many factors including:

- The quarter you begin;
- How many classes/credits you can take in each quarter;
- Your Math and English placement;
- If you have credits you have already taken and plan to transfer them to SVC, visit the Enrollment Services webpage (**https://catalog.skagit.edu/content.php?catoid=32&navoid=3010**);
- The college you are interested in transferring to;
- Other factors.

To keep you on the best pathway, we encourage you to consult with the institution you want to transfer to as well as an SVC Academic Advisor, who will work with you to create a personalized Educational Plan and schedule that takes these factors into account.

For detailed information regarding the requirements that must be met to complete this degree, please review the Associate of Arts Direct Transfer Agreement information and details, p.41

Sample Schedule Option

This Sample Schedule is provided as a guide for a traditional full-time student whose goal is to earn the Associate of Arts Direct Transfer Agreement, AA-DTA with an interest in History. The courses are designed with the appropriate number of credits to meet degree requirements and are organized in a recommended sequence. Please consult an SVC advisor to schedule courses and develop a personalized educational plan.

FIRST YEAR

1st Quarter

- CSS 103 - First Quarter Experience (2)
- ENGL& 101 - English Composition I (5)
- PE 100 - Wellness For Life (1)
- PE Activity (1)
- SOSC 100 - Global Issues/Social Science (5)

TOTAL CREDITS: 14

2nd Quarter

- CMST& 102 - Introduction to Mass Media (5)

or ***one of the following:***

- CMST 105 - Multicultural Communication: D (5)
- CMST& 220 - Public Speaking (5)

- HIST& 116 - Western Civilization I (5)
  or HIST& 146 - U.S. History I: D (5)
- MATH& 107 - Math in Society (5)
  or MATH& 146 - Introduction to Stats (5)

TOTAL CREDITS: 15

3rd Quarter

- ENGL& 102 - Composition II (5)
- HIST& 214 - Pacific NW History (5)
- Natural Science course (5) with lab, preferably in Learning Community format.
  Suggested: EASC 102, EASC 110, EASC 120 or ENVS& 101 or GEOL& 110. Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.

TOTAL CREDITS: 15

SECOND YEAR

4th Quarter

- BIOL& 100 - Survey of Biology (5)
- HIST& 118 - Western Civilization III: D (5)
  or HIST& 148 - U.S. History III: D (5)
- Humanities course (5), preferably in Learning Community format.
  Suggested: ART& 100, ART 101, ART 181, DRMA& 101, MUSC 100. Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.

TOTAL CREDITS: 15

5th Quarter

- HIST& 126 - World Civilizations I: D (5)
  or HIST 121 - Religions of the World: D (5)
- HIST& 127 - World Civilizations II: D (5)
  or HIST 242 - History of the Modern Middle East: D (5)
- PE Activity (1)
- Humanities course (5), preferably in Learning Community format.
  Suggested: ENGL& 112 or ENGL& 113. Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.

TOTAL CREDITS: 16

6th Quarter

- HIST& 128 - World Civilizations III: D (5)
- Humanities course (5), preferably in Learning Community format.
  Suggested: ART& 100, ART 181, DRMA& 101 or POLS& 202. Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.
- Natural Science course (5) with lab, preferably in Learning Community format.
  Suggested: ASTR& 100, EASC 102, EASC 110, PHYS& 100. Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.

TOTAL CREDITS: 15

KINESIOLOGY EMPHASIS, AA-DTA

PLANNING GUIDE – TRANSFER DEGREE

Overview

A degree in Exercise Science/Kinesiology can prepare someone to work as a personal fitness trainer, athletic trainer, exercise physiologist, recreational therapist, aquatic therapist, cardiac rehabilitation, physical education/health teacher, coach.

Some graduates go on to apply to Physical Therapy programs (this typically requires additional science prerequisites).

Kinesiotherapists and Exercise Scientists often work under the supervision of a physician. Using exercise, they help patients who suffer from health problems such as chronic disease, spinal injuries, or even just the effects of aging. Programs in exercise science prepare people to teach others how to exercise.

Sample career options include–

- **Exercise Physiologists**
- **Recreation and Fitness Studies Teachers, Postsecondary**
- **Athletic Trainer**
- **Elementary Physical Education Teacher**

Transfer and Degree Requirements

If you are considering a major in this emphasis by transferring to a four-year college or university in Washington state, our Sample Schedule is designed to provide you with faculty recommended courses to complete your Associate of Arts Direct Transfer Agreement, AA-DTA degree.

Your personal Educational Plan will vary based on many factors including:

- The quarter you begin;
- How many classes/credits you can take in each quarter;
- Your Math and English placement;
- If you have credits you have already taken and plan to transfer them to SVC, visit the Enrollment Services webpage (**https://catalog.skagit.edu/content.php?catoid=32&navoid=3010**);
- The college you are interested in transferring to;
- Other factors.

To keep you on the best pathway, we encourage you to consult with the institution you want to transfer to as well as an SVC Academic Advisor, who will work with you to create a personalized Educational Plan and schedule that takes these factors into account.

For detailed information regarding the requirements that must be met to complete this degree, please review the Associate of Arts Direct Transfer Agreement information and details, p.41

Sample Schedule Option

This Sample Schedule is provided as a guide for a traditional full-time student whose goal is to earn the Associate of Arts Direct Transfer Agreement, AA-DTA with an interest in Kinesiology Exercise. The courses are designed with the appropriate number of credits to meet degree requirements and are organized in a recommended sequence. Please consult an SVC advisor to schedule courses and develop a personalized educational plan.

FIRST YEAR

1st Quarter

- CSS 103 - First Quarter Experience (2)
- ENGL& 101 - English Composition I (5)
- MATH& 146 - Introduction to Stats (5)
- PE 100 - Wellness For Life (1)
- PE 103 - Wellness Movement (2)

TOTAL CREDITS: 15

2nd Quarter

- CHEM& 121 - Introduction to Chemistry (5)
- ENGL& 102 - Composition II (5)
- PSYC& 100 - General Psychology (5)

TOTAL CREDITS: 15

3rd Quarter

- BIOL& 160 - General Biology w/Lab (5)
- CMST& 220 - Public Speaking (5)
- PSYC& 200 - Lifespan Psychology (5)

TOTAL CREDITS: 15

SECOND YEAR

4th Quarter

- BIOL& 241 - Human Anatomy and Physiology I (5)
- NUTR& 101 - Nutrition (5)
- Humanities course (5), preferably in Learning Community format. **See Distribution Lists - AA-DTA (pp 145-147).** Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.

TOTAL CREDITS: 15

5th Quarter

- BIOL& 242 - Human A and P II (5)
- PE 200 - First Aid, Safety, and CPR (2)
- SOC& 101 - Introduction to Sociology: D (5)
- Humanities course (5), preferably in Learning Community format. **See Distribution Lists - AA-DTA (pp 145-147).** Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.

TOTAL CREDITS: 17

6th Quarter

- BIOL& 260 - Microbiology (5)
- CHEM& 131 - Introduction to Organic/Biochemistry (5)
- Humanities course (5), preferably in Learning Community format. **See Distribution Lists - AA-DTA (pp 145-147).** Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.

TOTAL CREDITS: 15

MATHEMATICS EMPHASIS, AA-DTA

PLANNING GUIDE – TRANSFER DEGREE

Overview

The mathematics program offers courses that range from the development of basic skills through college-level topics. Most of the courses are offered in various delivery modes including traditional classroom setting, online eLearning, and hybrid combining both classroom and online experiences.

To satisfy the quantitative requirement for a transfer degree, students will need to complete either MATH& 107, MATH& 141, MATH& 146, or higher. Each of these courses require an appropriate placement score or completion of MATH 098 (MATH 099 for those who want to take MATH& 141) with a grade of C or better before enrolling. Students who plan to pursue a degree in a science related field should take MATH& 141, MATH& 142, and continue through the Calculus sequence.

Sample career options include–

- **Secondary School Teachers**

- Operations Research Analysts
- Mathematical Technicians

Transfer and Degree Requirements

If you are considering a major in this emphasis by transferring to a four-year college or university in Washington state, our Sample Schedule is designed to provide you with faculty recommended courses to complete your Associate of Arts Direct Transfer Agreement, AA-DTA degree.

Your personal Educational Plan will vary based on many factors including:

- The quarter you begin;
- How many classes/credits you can take in each quarter;
- Your Math and English placement;
- If you have credits you have already taken and plan to transfer them to SVC, visit the Enrollment Services webpage (**https://catalog.skagit.edu/content.php?catoid=32&navoid=3010**);
- The college you are interested in transferring to;
- Other factors.

To keep you on the best pathway, we encourage you to consult with the institution you want to transfer to as well as an SVC Academic Advisor, who will work with you to create a personalized Educational Plan and schedule that takes these factors into account.

For detailed information regarding the requirements that must be met to complete this degree, please review the Associate of Arts Direct Transfer Agreement information and details, p.41

Sample Schedule Option

This Sample Schedule is provided as a guide for a traditional full-time student whose goal is to earn the Associate of Arts Direct Transfer Agreement, AA-DTA with an interest in Mathematics. The courses are designed with the appropriate number of credits to meet degree requirements and are organized in a recommended sequence. Please consult an SVC advisor to schedule courses and develop a personalized educational plan.

FIRST YEAR

1st Quarter

- MATH& 141 - Precalculus I (5)
  or MATH& 151 - Calculus I (5)
- CSS 103 - First Quarter Experience (2)
- ENGL& 101 - English Composition I (5)
- Humanities course (5), preferably in Learning Community format.
  Suggested: ART& 100, DRMA& 101, ENGL& 112, ENGL 115, ENGL& 111, MUSC& 105, PHIL& 101, PHIL 215, or WORLD LANG 121 (ASL& 121, CHIN& 121, FRCH& 121, JAPN& 121, SPAN& 121). Discuss specific course requirements with an SVC advisor. Students are responsible for checking major requirements of baccalaureate institutions.

TOTAL CREDITS: 17

2nd Quarter

- MATH& 142 - Precalculus II (5)
  or MATH& 152 - Calculus II (5)
- PE 100 - Wellness For Life (1)
- PE Activity (1)
- Humanities course (5), preferably in Learning Community format.
  Suggested: ART& 100, DRMA& 101, ENGL& 112, ENGL 115, ENGL& 111, MUSC& 105, PHIL& 101, PHIL 215, WRLD LANG 122 (ASL& 122, CHIN& 122, FRCH& 122, JAPN& 122, SPAN& 122). Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.
- Social Sciences course (5), preferably in Learning Community format.
  Suggested: ANTH& 206, ECON 101, GEOG& 100, PSYC& 100, POLS& 101, SOSC 100. Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.

TOTAL CREDITS: 17

3rd Quarter

- MATH& 151 - Calculus I (5)
  or MATH& 153 - Calculus III (5)
- CHEM& 161 - General Chemistry w/Lab I (5)
- ENGL& 235 - Technical Writing (5)

TOTAL CREDITS: 15

SECOND YEAR

4th Quarter

- MATH& 152 - Calculus II (5)
  or MATH& 254 - Calculus IV (5)
- CMST& 210 - Interpersonal Communication: D (5)
  or ***one of the following:***
  - CMST& 220 - Public Speaking (5)
  - CMST& 230 - Small Group Communication: D (5)
- PHYS& 231 - Engineering Phys Lab I (1)
- PHYS& 241 - Engineering Physics I (5)

TOTAL CREDITS: 16

5th Quarter

- MATH& 153 - Calculus III (5)
  or MATH& 146 - Introduction to Stats (5)
- MATH 204 - Elementary Linear Algebra (5)
- PE Activity (1)
- Social Sciences course (5), preferably in Learning Community format.
  Suggested: ANTH& 206, ECON 101, GEOG& 100, PSYC& 100, POLS& 101, SOSC 100. Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.

TOTAL CREDITS: 16

6th Quarter

- MATH 238 - Ordinary Differential Equations (5)
- MATH& 254 - Calculus IV (5)
  Only for Precalculus emphasis pathway
- Humanities course (5), preferably in Learning Community format.
  Suggested: ART& 100, DRMA& 101, ENGL& 112, ENGL 115, ENGL& 111, MUSC& 105, PHIL& 101, PHIL 215, or WRLD LANG 123 (ASL& 123, CHIN& 123, FRCH& 123, JAPN& 123, SPAN& 123). Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.
- Social Sciences course (5), preferably in Learning Community format.
  Suggested: ANTH& 206, ECON 101, GEOG& 100, HIST& 100, PSYC& 100, POLS& 101, SOSC 100. Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.

TOTAL CREDITS: 15-20

NUTRITION EMPHASIS, AA-DTA

PLANNING GUIDE – TRANSFER DEGREE

Overview

The Associate of Arts, Direct Transfer Agreement, AA-DTA with Nutrition Emphasis prepares students for a career in nutrition, by setting them on the path to earning a bachelor's degree in nutrition/dietetics or becoming a Registered Dietitian Nutritionist (RDN). Nutrition professionals can work in many different capacities, depending on level of education achieved, credentials, and specialization. These can include nutrition counselor, clinical dietitian, health educator, sports nutritionist, employee wellness instructor, food scientist, public health dietitian, or corporate dietitian.

While SVC only offers one nutrition course at this time, there is a recommended slate of additional related courses that will set the student up for successful transfer to a bachelor's program in nutrition, including accredited programs that lead to the RDN credential.

Sample career options include–

- **Dietitians and Nutritionists**

Transfer and Degree Requirements

If you are considering a major in this emphasis by transferring to a four-year college or university in Washington state, our Sample Schedule is designed to provide you with faculty recommended courses to complete your Associate of Arts Direct Transfer Agreement, AA-DTA degree.

Your personal Educational Plan will vary based on many factors including:

- The quarter you begin;
- How many classes/credits you can take in each quarter;
- Your Math and English placement;
- If you have credits you have already taken and plan to transfer them to SVC, visit the Enrollment Services webpage (**https://catalog.skagit.edu/content.php?catoid=32&navoid=3010**);
- The college you are interested in transferring to;
- Other factors.

To keep you on the best pathway, we encourage you to consult with the institution you want to transfer to as well as an SVC Academic Advisor, who will work with you to create a personalized Educational Plan and schedule that takes these factors into account.

For detailed information regarding the requirements that must be met to complete this degree, please review the Associate of Arts Direct Transfer Agreement information and details, p.41

Sample Schedule Option

This Sample Schedule is provided as a guide for a traditional full-time student whose goal is to earn the Associate of Arts Direct Transfer Agreement, AA-DTA with an interest in Nutrition. The courses are designed with the appropriate number of credits to meet degree requirements and are organized in a recommended sequence. Please consult an SVC advisor to schedule courses and develop a personalized educational plan.

FIRST YEAR

1st Quarter

- CSS 103 - First Quarter Experience (2)
- CHEM& 121 - Introduction to Chemistry (5)
- ENGL& 101 - English Composition I (5)
- PE 100 - Wellness For Life (1)

TOTAL CREDITS: 13

2nd Quarter

- BIOL& 160 - General Biology w/Lab (5)
- MATH& 146 - Introduction to Stats (5)
- NUTR& 101 - Nutrition (5)

TOTAL CREDITS: 15

3rd Quarter

- BIOL& 241 - Human Anatomy and Physiology I (5)
- CMST& 220 - Public Speaking (5)
- ENGL& 102 - Composition II (5)

TOTAL CREDITS: 15

SECOND YEAR

4th Quarter

- BIOL& 242 - Human Anatomy and Physiology II (5)
- Social Sciences course (5), preferably in Learning Community format.
  Suggested: BUS& 101, CS 101, EDUC& 115, EDUC& 202, ETHNC 201, PSYC 115, SOSC 100. Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.
- Humanities course (5), preferably in Learning Community format.
  Suggested: ART 143, CMST& 102, CMST 105, DRMA 236, HUM& 101, PHIL& 106, SPAN& 121. Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.
- PE Activity (2)

TOTAL CREDITS: 17

5th Quarter

- BIOL& 260 - Microbiology (5)
- Humanities course (10), preferably in Learning Community format.
  Suggested: ART 143, CMST& 102, CMST 105, DRMA 236, HUM& 101, PHIL& 106, SPAN& 121. Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.

TOTAL CREDITS: 15

6th Quarter

- CHEM& 131 - Introduction to Organic/Biochemistry (5)
- ECON 101 - Introduction to Economics (5)
- PSYC& 100 - General Psychology (5)

TOTAL CREDITS: 15

PHILOSOPHY EMPHASIS, AA-DTA

PLANNING GUIDE – TRANSFER DEGREE

Overview

Philosophy is the "love of wisdom," literally, but as a discipline of study it embraces a wide field of endeavors pursuing questions around human knowledge, behavior, and speculation about the subtler aspects of existence. Philosophy draws upon schools of thought and cultural practices from all around the world, for the past several millennia, for its broadest history

and application, but embraces matters down to the present day and the concerns of modern people. The impact of philosophy on world culture, on religious movements, and on questions of daily functioning in society cannot be overstated. What does it mean to be human? What is the nature of knowledge, and how to we acquire it? What is the best form of political, economic, and governmental systems for optimum human well-being? Should there be limits on technological improvements and genetic engineering based on important shared cultural values, or should research and development in these areas proceed unfettered without regard for such objections? These questions, and many others, can be pursued in courses in the discipline of Philosophy.

Sample career options include–

- **Paralegals and Legal Assistants**
- **Secondary School Teachers**
- **Philosophy and Religion Teachers, Postsecondary**

Transfer and Degree Requirements

If you are considering a major in this emphasis by transferring to a four-year college or university in Washington state, our Sample Schedule is designed to provide you with faculty recommended courses to complete your Associate of Arts Direct Transfer Agreement, AA-DTA degree.

Your personal Educational Plan will vary based on many factors including:

- The quarter you begin;
- How many classes/credits you can take in each quarter;
- Your Math and English placement;
- If you have credits you have already taken and plan to transfer them to SVC, visit the Enrollment Services webpage (**https://catalog.skagit.edu/content.php?catoid=32&navoid=3010**);
- The college you are interested in transferring to;
- Other factors.

To keep you on the best pathway, we encourage you to consult with the institution you want to transfer to as well as an SVC Academic Advisor, who will work with you to create a personalized Educational Plan and schedule that takes these factors into account.

For detailed information regarding the requirements that must be met to complete this degree, please review the Associate of Arts Direct Transfer Agreement information and details, p.41

Sample Schedule Option

This Sample Schedule is provided as a guide for a traditional full-time student whose goal is to earn the Associate of Arts Direct Transfer Agreement, AA-DTA with an interest in Philosophy. The courses are designed with the appropriate number of credits to meet degree requirements and are organized in a recommended sequence. Please consult an SVC advisor to schedule courses and develop a personalized educational plan.

FIRST YEAR

1st Quarter

- CSS 103-First Quarter Experience (2)
- ENGL& 101-English Composition I (5)
- PHIL 115-Introduction to Learning and Knowing (5)
- PE 100-Wellness For Life (1)
- PE Activity (1)

TOTAL CREDITS: 14

2nd Quarter

- CMST& 210-Interpersonal Communication: D (5)
- MATH& 146-Introduction to Stats (5)
- NUTR& 101-Nutrition (5)

TOTAL CREDITS: 15

3rd Quarter

- ENGL& 102-Composition II (5)
- PHIL 215-Introduction to Ethics (5)
- Natural Science course (5) with lab, preferably in Learning Community format.
  See Distribution Lists - AA-DTA (pp 145-147). Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.

TOTAL CREDITS: 15

SECOND YEAR

4th Quarter

- BIOL& 100-Survey of Biology (5)
- PHIL& 101-Introduction to Philosophy (5)
- Humanities course (5), preferably in Learning Community format.
  See Distribution Lists - AA-DTA (pp 145-147). Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.
- PE Activity (1)

TOTAL CREDITS: 16

5th Quarter

- CMST 205-Intercultural Communication: D (5)
- POLS& 101-Introduction to olitical Science (5)
- SOC 204-Introduction to Stratification and Inequality in America: D (5)

TOTAL CREDITS: 15

6th Quarter

- ENGL 250-Introduction to American Literature: D (5)
- Humanities course (5), preferably in Learning Community format.
  See Distribution Lists - AA-DTA (pp 145-147). Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.
- Social Sciences course (5), preferably in Learning Community format.
  See Distribution Lists - AA-DTA (pp 145-147). Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.

TOTAL CREDITS: 15

POLITICAL SCIENCE EMPHASIS, AA-DTA

PLANNING GUIDE – TRANSFER DEGREE

Overview

Political science seeks to study formal and informal power, governmental institutions, and political processes across the individual, societal, state, and inter-state levels. American government, state and local government, and comparative government are concerned with the structure and functioning of government at the level indicated. International relations are concerned with the relationships of nations with each other.

Sample career options include–

- **Political Scientist**
- **Reporters and Correspondents**
- **Legislators**
- **Paralegals and Legal Assistants**

Transfer and Degree Requirements

If you are considering a major in this emphasis by transferring to a four-year college or university in Washington state, our Sample Schedule is designed to provide you with faculty recommended courses to complete your Associate of Arts Direct Transfer Agreement, AA-DTA degree.

Your personal Educational Plan will vary based on many factors including:

- The quarter you begin;
- How many classes/credits you can take in each quarter;
- Your Math and English placement;
- If you have credits you have already taken and plan to transfer them to SVC, visit the Enrollment Services webpage (**https://catalog.skagit.edu/content.php?catoid=32&navoid=3010**);
- The college you are interested in transferring to;
- Other factors.

To keep you on the best pathway, we encourage you to consult with the institution you want to transfer to as well as an SVC Academic Advisor, who will work with you to create a personalized Educational Plan and schedule that takes these factors into account.

For detailed information regarding the requirements that must be met to complete this degree, please review the Associate of Arts Direct Transfer Agreement information and details, p.41

Sample Schedule Option

This Sample Schedule is provided as a guide for a traditional full-time student whose goal is to earn the Associate of Arts Direct Transfer Agreement, AA-DTA with an interest in Political Science. The courses are designed with the appropriate number of credits to meet degree requirements and are organized in a recommended sequence. Please consult an SVC advisor to schedule courses and develop a personalized educational plan.

FIRST YEAR

1st Quarter

- CSS 103 - First Quarter Experience (2)
- ENGL& 101 - English Composition I (5)
- PE 100 - Wellness For Life (1)
- PE Activity (1)
- SOSC 100 - Global Issues/Social Science (5)

TOTAL CREDITS: 14

2nd Quarter

- CMST& 210 - Interpersonal Communication: D (5)
- MATH& 107 - Math in Society (5)
  or MATH& 146 - Introduction to Stats (5)
- NUTR& 101 - Nutrition (5)

TOTAL CREDITS: 15

3rd Quarter

- ENGL& 102 - Composition II (5)
- PHIL 215 - Introduction to Ethics (5)
- POLS& 101 - Introduction to Political Science (5)

TOTAL CREDITS: 15

SECOND YEAR

4th Quarter

- MUSC 127 - History of Rock and Roll: D (5)
- POLS& 202 - American Government: D (5)
- Humanities course (5), preferably in Learning Community format.
  See Distribution Lists - AA-DTA (pp 145-147). Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.

TOTAL CREDITS: 15

5th Quarter

- PHIL& 101 - Introduction to Philosophy (5)
- POLS& 203 - International Relations: D (5)
- Natural Sciences course (5), with lab, preferably in Learning Community format.
  Suggested: BIOL& 100, CHEM& 110 or OCEA& 101. Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.

TOTAL CREDITS: 15

6th Quarter

- POLS 201 - Comparative Government: D (5)
- PE Activity (1)
- Natural Sciences course (5), with lab, preferably in Learning Community format.
  Suggested: BIOL& 100, CHEM& 110 or OCEA& 101. Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.
- Elective (5)
  See Distribution Lists - AA-DTA (pp 145-147). Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.

TOTAL CREDITS: 16

PSYCHOLOGY EMPHASIS, AA-DTA

PLANNING GUIDE – TRANSFER DEGREE

Overview

Psychology is the systematic, scientific investigation of human behavior and mental processes. Psychology is strongly tied to many other disciplines, including allied health and medicine, biology, education, and criminal justice.

Sample career options include–

- **Psychiatric Technicians**
- **Mental Health Counselors**
- **Social and Human Service Assistants**

Transfer and Degree Requirements

If you are considering a major in this emphasis by transferring to a four-year college or university in Washington state, our Sample Schedule is designed to provide you with faculty recommended courses to complete your Associate of Arts Direct Transfer Agreement, AA-DTA degree.

Your personal Educational Plan will vary based on many factors including:

- The quarter you begin;
- How many classes/credits you can take in each quarter;
- Your Math and English placement;
- If you have credits you have already taken and plan to transfer them to SVC, visit the Enrollment Services webpage (**https://catalog.skagit.edu/content.php?catoid=32&navoid=3010**);
- The college you are interested in transferring to;
- Other factors.

To keep you on the best pathway, we encourage you to consult with the institution you want to transfer to as well as an SVC Academic Advisor, who will work with you to create a personalized Educational Plan and schedule that takes these factors into account.

For detailed information regarding the requirements that must be met to complete this degree, please review the Associate of Arts Direct Transfer Agreement information and details, p.41

Sample Schedule Option

This Sample Schedule is provided as a guide for a traditional full-time student whose goal is to earn the Associate of Arts Direct Transfer Agreement, AA-DTA with an interest in Psychology. The courses are designed with the appropriate number of credits to meet degree requirements and are organized in a recommended sequence. Please consult an SVC advisor to schedule courses and develop a personalized educational plan.

FIRST YEAR

1st Quarter

- CSS 103-First Quarter Experience (2)
- ENGL& 101-English Composition I (5)
- PE 100-Wellness For Life (1)
- PE Activity (1)
- SOSC 100-Global Issues/Social Science (5)

TOTAL CREDITS: 14

2nd Quarter

- MATH& 107-Math in Society (5)
  or MATH& 146 - Introduction to Stats (5)
- NUTR& 101-Nutrition (5)
- PSYC& 100-General Psychology (5)

TOTAL CREDITS: 15

3rd Quarter

- CMST& 210-Interpersonal Communication: D (5)
- ENGL& 102-Composition II (5)
- PHIL 140-Philosophy of Religion (5)
- PE Activity (1)

TOTAL CREDITS: 16

SECOND YEAR

4th Quarter

- CHEM& 121-Introduction to Chemistry (5)
- PSYC& 180-Human Sexuality (5)
- Humanities course (5), preferably in Learning Community format.
  See Distribution Lists - AA-DTA (pp 145-147). Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.

TOTAL CREDITS: 15

5th Quarter

- BIOL& 160-General Biology w/Lab (5)
- PSYC 205-Social Psychology (5)
- PSYC& 220-Abnormal Psychology (5)

TOTAL CREDITS: 15

6th Quarter

- PSYC& 200-Lifespan Psychology (5)
- Humanities course (5), preferably in Learning Community format.
  See Distribution Lists - AA-DTA (pp 145-147). Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.
- Social Sciences course (5), preferably in Learning Community format.
  See Distribution Lists - AA-DTA (pp 145-147). Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.

TOTAL CREDITS: 15

SOCIOLOGY EMPHASIS, AA-DTA

PLANNING GUIDE – TRANSFER DEGREE

Overview

Sociology courses foster cultural pluralism, critical thinking, integrative learning, and individual and global awareness.

Sample career options include–

- **Social and Community Services Managers**
- **Community Health Workers**

Transfer and Degree Requirements

If you are considering a major in this emphasis by transferring to a four-year college or university in Washington state, our Sample Schedule is designed to provide you with faculty recommended courses to complete your Associate of Arts Direct Transfer Agreement, AA-DTA degree.

Your personal Educational Plan will vary based on many factors including:

- The quarter you begin;
- How many classes/credits you can take in each quarter;
- Your Math and English placement;
- If you have credits you have already taken and plan to transfer them to SVC, visit the Enrollment Services webpage (**https://catalog.skagit.edu/content.php?catoid=32&navoid=3010**);
- The college you are interested in transferring to;
- Other factors.

To keep you on the best pathway, we encourage you to consult with the institution you want to transfer to as well as an SVC Academic Advisor, who will work with you to create a personalized Educational Plan and schedule that takes these factors into account.

For detailed information regarding the requirements that must be met to complete this degree, please review the Associate of Arts Direct Transfer Agreement information and details, p.41

Sample Schedule Option

This Sample Schedule is provided as a guide for a traditional full-time student whose goal is to earn the Associate of

Arts Direct Transfer Agreement, AA-DTA with an interest in Sociology. The courses are designed with the appropriate number of credits to meet degree requirements and are organized in a recommended sequence. Please consult an SVC advisor to schedule courses and develop a personalized educational plan.

FIRST YEAR

1st Quarter
- CSS 103 - First Quarter Experience (2)
- ENGL& 101 - English Composition I (5)
- PE 100 - Wellness For Life (1)
- PE Activity (1)
- SOSC 100 - Global Issues/Social Science (5)

TOTAL CREDITS: 14

2nd Quarter
- CMST& 210 - Interpersonal Communication: D (5)
- MATH& 107 - Math in Society (5)
  or MATH& 146 - Introduction to Stats (5)
- NUTR& 101 - Nutrition (5)

TOTAL CREDITS: 15

3rd Quarter
- ENGL& 102 - Composition II (5)
- SOC& 101 - Introduction to Sociology: D (5)
- Natural Science course (5) with lab, preferably in Learning Community format.
  Suggested: EASC 102, EASC 110, EASC 120, ENVS& 101 or GEOL& 110. Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.

TOTAL CREDITS: 15

SECOND YEAR

4th Quarter
- ANTH& 206 - Cultural Anthropology: D (5)
- BIOL& 100 - Survey of Biology (5)
- PE Activity (1)
- Humanities course (5), preferably in Learning Community format.
  See Distribution Lists - AA-DTA (pp 145-147). Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.

TOTAL CREDITS: 16

5th Quarter
- CMST 205 - Intercultural Communication: D (5)
- SOC& 201 - Social Problems (5)
- SOC 206 - Sociology of the Family: D (5)

TOTAL CREDITS: 15

6th Quarter
- ENGL 250 - Introduction to American Literature: D (5)
- HIST& 219 - Native American History: D (5)
- SOC 160 - Substance Use and Abuse (5)

TOTAL CREDITS: 15

SPANISH EMPHASIS, AA-DTA

PLANNING GUIDE – TRANSFER DEGREE

Overview

Spanish language courses, offered through the World Languages Department, are offered in a continuous, two-year program with courses that range from beginning to high intermediate levels. The courses are aimed at enabling students to gain proficiency in comprehension, speaking, reading, writing and cultural competence. These courses are transferable and meet humanities distribution, and/or elective requirements, depending on the specific degree sought or intended major.

Sample career options include–

- **Interpreters and Translators**

Transfer and Degree Requirements

If you are considering a major in this emphasis by transferring to a four-year college or university in Washington state, our Sample Schedule is designed to provide you with faculty recommended courses to complete your Associate of Arts Direct Transfer Agreement, AA-DTA degree.

Your personal Educational Plan will vary based on many factors including:

- The quarter you begin;
- How many classes/credits you can take in each quarter;
- Your Math and English placement;
- If you have credits you have already taken and plan to transfer them to SVC, visit the Enrollment Services webpage (**https://catalog.skagit.edu/content.php?catoid=32&navoid=3010**);
- The college you are interested in transferring to;
- Other factors.

To keep you on the best pathway, we encourage you to consult with the institution you want to transfer to as well as an SVC Academic Advisor, who will work with you to create a personalized Educational Plan and schedule that takes these factors into account.

For detailed information regarding the requirements that must be met to complete this degree, please review the Associate of Arts Direct Transfer Agreement information and details, p.41

Sample Schedule Option

This Sample Schedule is provided as a guide for a traditional full-time student whose goal is to earn the Associate of Arts Direct Transfer Agreement, AA-DTA with an interest in Spanish. The courses are designed with the appropriate number of credits to meet degree requirements and are organized in a recommended sequence. Please consult an SVC advisor to schedule courses and develop a personalized educational plan.

FIRST YEAR

1st Quarter
- CSS 103 - First Quarter Experience (2)
- CMST 205 - Intercultural Communication: D (5)
- ENGL& 101 - English Composition I (5)
- SPAN& 121 - Spanish I: D (5)

TOTAL CREDITS: 17

2nd Quarter
- CMST& 220 - Public Speaking (5)
- MATH& 107 - Math in Society (5)
  or MATH& 146 - Introduction to Stats (5)
- PE 100 - Wellness For Life (1)
- SPAN& 122 - Spanish II: D (5)

TOTAL CREDITS: 16

3rd Quarter

- ENGL& 102 - Composition II (5)
- SPAN& 123 - Spanish III: D (5)
- Social Science (5) preferably in Learning Community format.
  See Distribution Lists - AA-DTA (pp 145-147). Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.

TOTAL CREDITS: 15

SECOND YEAR

4th Quarter

- SPAN& 221 - Spanish IV: D (5)
- PE Activity (1)
- Natural Sciences course (5), with lab, preferably in Learning Community format.
  See Distribution Lists - AA-DTA (pp 145-147). Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.
- Social Sciences course (5), preferably in Learning Community format.
  See Distribution Lists - AA-DTA (pp 145-147). Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.

TOTAL CREDITS: 16

5th Quarter

- CMST& 210 - Interpersonal Communication: D (5)
- SPAN& 222 - Spanish V: D (5)
- Natural Sciences course (5), with lab, preferably in Learning Community format.
  See Distribution Lists - AA-DTA (pp 145-147). Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.

TOTAL CREDITS: 15

6th Quarter

- SPAN& 223 - Spanish VI: D (5)
- Natural Science (5) with lab, preferably in the Learning Community format.
  See Distribution Lists - AA-DTA (pp 145-147). Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.
- Social Science (5) preferably in the Learning Community format.
  Suggested: PSYC& 100 or SOSC 100. Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.

TOTAL CREDITS: 15

ASSOCIATE IN SCIENCE - TRANSFER TRACK #1, AS-T

PLANNING GUIDE – TRANSFER DEGREE

Overview

This degree is intended to prepare students to transfer to Washington's public four-year colleges and universities and many private colleges with junior standing and the majority of the prerequisites for selected science, mathematics, and engineering majors completed. This degree partially fulfills the general education requirements as explained in the Associate of Arts, Direct Transfer Agreement, AA-DTA degree. This degree does not guarantee admission into the major.

Students completing this Associate of Science Transfer degree will receive the same priority consideration for admission to the baccalaureate institution as they would for completing the direct transfer associate's degree and will be given junior status by the receiving institution. Each concentration within this degree has additional requirements. Early advising is important to ensure degree completion, for example:

- Additional general educational requirements, cultural diversity requirements, and foreign language requirements, as required by the transfer institution, must be met prior to the completion of a baccalaureate degree.
- Some baccalaureate institutions require physics with calculus to meet the physics sequence of 15 credits.
- Biology majors should select organic chemistry or physics for the additional 10-15 credits.
- Engineering students may have additional lower-division requirements to meet prior to department admission.
- Precalculus cannot be used to satisfy the mathematics requirement.
- Science sequences should not be broken up between institutions (ex: the typical three-quarter physics sequence should be taken entirely at Skagit Valley College).

Students are responsible for checking specific major requirements of baccalaureate institutions in the year prior to transferring. Selecting and planning courses with a science or engineering advisor is strongly recommended to ensure a seamless transition to a science major program at a specific university or four-year college.

Transfer

The Associate of Science Transfer (AS-T) Degree Track #1 is a 90 credit degree that prepares students for upper divsion study in areas of biological sciences, environmental/resource science, chemistry, geology, and earth science. Completing the AS-T degree does not guarantee student admission to the major.

Washington Colleges and Universities accepting the AS-T Degree from Skagit Valley College:

- **Central Washington University**
- **Eastern Washington University**
- **University of Washington**
- **Washington State University**
- **Western Washington University**

Degree Options

SVC offers a variety of programs pathways to match student interests:

- **Biology Emphasis, Transfer Track #1, AS-T**
- **Chemistry Emphasis, Transfer Track #1, AS-T**
- **Earth Science Emphasis, Transfer Track #1, AS-T**
- **Environmental Science Emphasis, Transfer Track #1, AS-T**
- **Geology Emphasis, Transfer Track #1, AS-T**

Degree Requirements

General Education Learning Outcomes, pp 149-150.
Program Learning Outcomes, p 149

Students must complete a minimum of 90 credits in transferable courses numbered 100 or above which include General Education courses plus a specific science or

engineering major option with a minimum cumulative GPA of 2.0. At least 25 college-level credits must be earned at SVC with a minimum GPA of 2.0. Additional General Education Requirements (GERs) must be completed at the four-year school where the student transfers.

REQUIREMENTS FOR SPECIFIC CONCENTRATION (45-50 CR.)

Each concentration within this degree has additional requirements. Please see your advisor for assistance with course selections.

ASSOCIATE IN SCIENCE TRANSFER (AS-T) TRACK 1 CONCENTRATIONS

- Biology
- Chemistry
- Earth Science
- Environmental Science
- Geology

MAJOR PROGRAM REQUIREMENTS

- Chemistry (for science majors) sequence of 15 credits.
- Third quarter calculus or approved statistics course of 5 credits.
- Biology (for science majors) or physics (calculus-based or non-calculus-based) sequence of 15 credits.
- Additional requirements: 10-15 credits in physics, geology, organic chemistry, biology, or mathematics, consisting of courses normally taken for science majors (not for general education), preferably in a 3 quarter sequence.

An ampersand (&) denotes Common Course Numbering.

1. **First Quarter Experience (2 cr.)**
   - CSS 103-First Quarter Experience (2)
2. **Communications Skills (5 cr.)**

   Requires a minimum of 5 credits in college-level composition.
   - ENGL& 101-English Composition I (5)

   Note: *ENGL& 101 Learning Community combined with a science or other required course is recommended.*
3. **Quantitative Skills (10 cr.)**

   Requires completion of 10 credits in introductory calculus or above.
   - MATH& 151-Calculus I (5)
   - MATH& 152-Calculus II (5)
4. **Integrative Learning Experiences**

   Two Integrative Learning Experiences (ILE) are required. One ILE must be a *Learning Community*. The second ILE may be another Learning Community or an *Integrative Experience*.
   - A *Learning Community* (LC) is the integrated combination of two or more courses from different areas of inquiry (e.g. sociology and literature, physics and math, etc.) Learning Communities are indicated in the course schedule.
   - *Integrative Experiences* (IEs) are typically seminar courses in which students use an interdisciplinary approach for a specific topic or current issue (e.g. Ethics in Science). Integrative Experience seminars are indicated in the course schedule.

   Note: *Integrative Learning Experiences specifically designed for this degree may be offered; consult your advisor for information.*
5. **Diversity Requirement**

   At least one Diversity Intensive course is required. Students should use the SVC online quarterly class schedule search or consult with their faculty advisor or counselor to identify courses that fulfill this requirement.
6. **Distribution Requirements (15 cr.)**

   Select credits from two distribution areas: Social Science and Humanities. Eligible courses for each distribution area are listed in the AA-DTA distribution list. These courses may also satisfy the Integrative Learning Experiences or Diversity requirement. WWU Huxley College requires one Political Science.
   - 5 credits in Social Sciences
   - 5 credits in Humanities
   - 5 credits in either Social Sciences or Humanities
7. **Electives (10-15 cr.)**

   Sufficient additional college-level credits so that total credits earned are at least 90 quarter credits. These remaining credits may include prerequisites for major courses (ex: Precalculus), additional major coursework, or specific general education or other university requirements, ass approved by the advisor. See your SVC advisor for specific courses recommended for your major; check with your 4-year university for world-language requirements. A maximum of five non-transferable Gray Area Electives may be applied toward the 90-credit minimum for the degree.

BIOLOGY, TRANSFER TRACK #1, AS-T

PLANNING GUIDE – TRANSFER DEGREE

Overview

Biology courses at SVC are designed to prepare students for careers in health fields or future work in research or industry. Classes are offered in a variety of science areas, from marine biology and environmental sciences, to anatomy and physiology and microbiology. Biology majors should take Majors Ecology and Evolution (BIOL& 221), Majors Cellular and Molecular (BIOL& 222), and Majors Physiology (BIOL& 223) as a full-year sequence. Biology majors should meet with a faculty advisor quarterly.

Pre-nursing students should take the sequence of General Biology (BIOL& 160), Anatomy and Physiology I (BIOL& 241), Anatomy and Physiology II (BIOL& 242), and Microbiology (BIOL& 260). CHEM& 121 is a prerequisite for BIOL& 160. Pre-nursing students should meet with a faculty advisor quarterly.

Sample career options include–

- **Molecular and Cellular Biologists**
- **Biological Science Teachers, Postsecondary**

- Biological Technicians
- Environmental Restoration Planners

Transfer

If you are considering a major in Biology and transferring to a four-year college or university in Washington state, our Transfer Program Planning Guide is designed to provide you with recommended courses to complete your Associate in Science - Transfer Track #1, AS-T degree. Of course, educational plans may vary, based on which quarter you begin, how many credits are taken, placement into Math and English, and your preferred transfer institution. To keep you on the best pathway, we encourage you to consult with an Academic Advisor for scheduling options.

Program Map

Program Maps are an integral part of our Planning Guide. Each Program Map includes a recommended quarterly sequence of courses so you could earn your degree within two years of full-time study. Your Program Map is also designed to help you create an individualized, customized Educational Plan, which is required of all SVC students. To start creating your Educational Plan, please consult with an Academic Advisor.

94 credits

FIRST YEAR

1st Quarter

- CSS 103 - First Quarter Experience (2)
- CHEM& 161 - General Chemistry w/Lab I (5)
- ENGL& 101 - English Composition I (5)
- MATH& 141 - Precalculus I (5)

TOTAL CREDITS: 17

2nd Quarter

- CHEM& 162 - General Chemistry w/Lab II (5)
- MATH& 142 - Precalculus II (5)
- Humanities Choice (5), preferably in Learning Community format.
  Suggested: ART& 100, CMST& 220, DRMA& 101, ENGL& 112, ENGL 115, ENGL& 111, MUSC& 105, PHIL& 101, PHIL 215, WRLD LANG. Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.

TOTAL CREDITS: 15

3rd Quarter

- CHEM& 163 - General Chemistry w/Lab III (5)
- MATH& 151 - Calculus I (5)
- Social Science course (5), preferably an Learning Community format.
  Suggested: ANTH& 206, ECON 101, ECON& 201, GEOG& 100, PSYC& 100, POLS& 101, SOSC 100. Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.

TOTAL CREDITS: 15

SECOND YEAR

4th Quarter

- BIOL& 221 - Majors Ecology/Evolution (5)
- CHEM& 241 - Organic Chemistry I (4)
- MATH& 152 - Calculus II (5)

TOTAL CREDITS: 14

5th Quarter

- BIOL& 222 - Majors Cell/Molecular Biology (5)
- CHEM& 242 - Organic Chemistry II (4)
- CHEM& 251 - Organic Chemistry Lab I (2)
- CHEM 295 - Chemistry Integrative Experience Seminar (2)
- MATH& 153 - Calculus III (5)
  or MATH& 146 - Introduction to Stats (5)

TOTAL CREDITS: 18

6th Quarter

- BIOL& 223 - Majors Organismal Physiology (5)
- CHEM& 243 - Organic Chemistry III (3)
- CHEM& 252 - Organic Chemistry Lab II (2)
- Elective (5)
  See Distribution Lists - AA-DTA, pp 156-159. Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.

TOTAL CREDITS: 15

CHEMISTRY, TRANSFER TRACK #1, AS-T

PLANNING GUIDE – TRANSFER DEGREE

Overview

The Chemistry program at SVC is designed to serve the diverse needs of the community by inspiring students with an interest in discovery and a desire for lifelong learning, as well as by promoting critical thinking skills. The Chemistry program provides solid foundations in general chemistry (CHEM& 121, CHEM& 161, CHEM& 162, and CHEM& 163) and organic chemistry (CHEM& 131, CHEM& 241, CHEM& 242, and CHEM& 243) for students majoring in science, engineering, nursing, and environmental science. CHEM& 121 and CHEM& 131 form a series designed for health and environmental sciences students. The CHEM& 160 series is designed for science and engineering majors. The CHEM& 200 series is designed for science majors. All include lab work. Non-science majors with an interest in chemistry should take CHEM& 105 or CHEM& 110 which are excellent classes for those with no chemistry experience to take in preparation for other chemistry courses. CHEM& 105 is a non-lab course and CHEM& 110 includes a lab.

Sample career options include–

- Chemists
- Chemical Technicians
- Chemical Plant and System Operators
- Quality Control Analysts

Transfer and Degree Requirements

If you are considering a major in Chemistry and transferring to a four-year college or university in Washington state, our Transfer Program Planning Guide is designed to provide you with recommended courses to complete your Associate in Science - Transfer Track #1, AS-T degree. Of course, educational plans may vary, based on which quarter you begin, how many credits are taken, placement into Math and English, and your preferred transfer institution. To keep you on the best pathway, we encourage you to consult with an Academic Advisor for scheduling options.

Program Map

Program Maps are an integral part of our Planning Guide. Each Program Map includes a recommended quarterly sequence of courses so you could earn your degree within two years of full-time study. Your Program Map is also designed to help you create an individualized, customized Educational Plan, which is required of all SVC students. To start creating your Educational Plan, please consult with an Academic Advisor.

95 credits

FIRST YEAR

1st Quarter

- CSS 103 - First Quarter Experience (2)
- CHEM& 161 - General Chemistry w/Lab I (5)
- ENGL& 101 - English Composition I (5)
- MATH& 141 - Precalculus I (5)

TOTAL CREDITS: 17

2nd Quarter

- CHEM& 162 - General Chemistry w/Lab II (5)
- MATH& 142 - Precalculus II (5)
- Humanities Choice (5), preferably in Learning Community format.
  Suggested: ART& 100, CMST& 220, DRMA& 101, ENGL& 112, ENGL 115, ENG& 111, MUSC& 105, PHIL& 101, PHIL 215, WRLD LANG. Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.

TOTAL CREDITS: 15

3rd Quarter

- CHEM& 163 - General Chemistry w/Lab III (5)
- MATH& 151 - Calculus I (5)
- Social Sciences course (5), preferably in a Learning Community format.
  Suggested: ANTH& 206, ECON 101, ECON& 201, GEOG& 100, PSYC& 100, POLS& 101, SOSC 100. Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.

TOTAL CREDITS: 15

SECOND YEAR

4th Quarter

- CHEM& 241 - Organic Chemistry I (4)
- MATH& 152 - Calculus II (5)
- PHYS& 231 - Engineering Phys Lab I (1)
- PHYS& 241 - Engineering Physics I (5)

TOTAL CREDITS: 15

5th Quarter

- CHEM& 242 - Organic Chemistry II (4)
- CHEM& 251 - Organic Chemistry Lab I (2)
- MATH& 153 - Calculus III (5)
- PHYS& 232 - Engineering Phys Lab II (1)
- PHYS& 242 - Engineering Physics II (5)

TOTAL CREDITS: 17

6th Quarter

- CHEM& 243 - Organic Chemistry III (3)
- CHEM& 252 - Organic Chemistry Lab II (2)
- PHYS& 233 - Engineering Phys Lab III (1)
- PHYS& 243 - Engineering Physics III (5)
- Social Sciences course (5), preferably in Learning Community format.
  Suggested: ANTH& 206, ECON 101, GEOG& 100, PSYC& 100, POLS& 101, SOSC 100. Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.

TOTAL CREDITS: 16

EARTH SCIENCES, TRANSFER TRACK #1, AS-T

PLANNING GUIDE – TRANSFER DEGREE

Overview

The Earth Sciences program at SVC is designed to serve the diverse needs of the community by inspiring students with an interest in discovery and a desire for lifelong learning. Earth Science and Environmental Science majors, as well as interested non-majors, can choose from introductory level classes in Earth System Science, including: Meteorology, (EASC 102), Physical Geology (GEOL 101), Oceanography (OCEA 101) and Astronomy (ASTR 100 or ASTR 101). Additional classes include Environmental Geology (GEOL 110) and Geology of the Pacific Northwest (GEOL 208). Prior college-level course work in Earth Sciences is recommended when taking these latter two courses. Students with an interest in the natural history of the Pacific Northwest should also consider taking the spring field experience courses in Western Washington (BIOL 270) or Eastern Washington (BIOL 271).

Sample career options include–

- **Environmental Science and Protection Technicians, Including Health**
- **Environmental Science, Teachers, Postsecondary**
- **Soil and Water Conservationists**
- **Biochemists and Biophysicists**

Transfer and Degree Requirements

If you are considering a major in Earth Sciences and transferring to a four-year college or university in Washington state, our Transfer Program Planning Guide is designed to provide you with recommended courses to complete your Associate in Science - Transfer Track #1, AS-T degree. Of course, educational plans may vary, based on which quarter you begin, how many credits are taken, placement into Math and English, and your preferred transfer institution. To keep you on the best pathway, we encourage you to consult with an Academic Advisor for scheduling options.

Program Map

Program Maps are an integral part of our Planning Guide. Each Program Map includes a recommended quarterly sequence of courses so you could earn your degree within two years of full-time study. Your Program Map is also designed to help you create an individualized, customized Educational Plan, which is required of all SVC students. To start creating your Educational Plan, please consult with an Academic Advisor.

96 credits

FIRST YEAR

1st Quarter

- CSS 103 - First Quarter Experience (2)

- CHEM& 161 - General Chemistry w/Lab I (5)
- ENGL& 101 - English Composition I (5)
- MATH& 141 - Precalculus I (5)

TOTAL CREDITS: 17

2nd Quarter

- CHEM& 162 - General Chemistry w/Lab II (5)
- MATH& 142 - Precalculus II (5)
- Humanities course (5), preferably in Learning Community format.
  Suggested: ART& 100, DRMA& 101, ENGL& 112, ENGL 115, ENGL& 111, MUSC& 105, PHIL& 101, or PHIL 215. Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.

TOTAL CREDITS: 15

3rd Quarter

- CHEM& 163 - General Chemistry w/Lab III (5)
- MATH& 151 - Calculus I (5)
- Social Sciences course (5), preferably in a Learning Community format.
  Suggested: ANTH& 206, ECON 101, GEOL& 100,PSYC& 100, POLS& 101, SOSC 100. Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.

TOTAL CREDITS: 15

SECOND YEAR

4th Quarter

- CMST& 210 - Interpersonal Communication: D (5)
  or CMST& 220 - Public Speaking (5)
- MATH& 152 - Calculus II (5)
- PHYS& 231 - Engineering Phys Lab I (1)
- PHYS& 241 - Engineering Physics I (5)

TOTAL CREDITS: 16

5th Quarter

- CHEM 295 - Chemistry Integrative Experience Seminar (2)
- EASC 102 - Meteorology (5)
- MATH& 153 - Calculus III (5)
- PHYS& 232 - Engineering Phys Lab II (1)
- PHYS& 242 - Engineering Physics II (5)

TOTAL CREDITS: 18

6th Quarter

- PHYS& 233 - Engineering Phys Lab III (1)
- PHYS& 243 - Engineering Physics III (5)
- ELECTIVE (5)
  See Distribution Lists - AA-DTA, pp 156-159. Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.

TOTAL CREDITS: 15

ENVIRONMENTAL SCIENCE, TRANSFER TRACK #1, AS-T

PLANNING GUIDE – TRANSFER DEGREE

Overview

The Earth Sciences program at SVC is designed to serve the diverse needs of the community by inspiring students with an interest in discovery and a desire for lifelong learning, as well as by promoting critical thinking skills. Interested non-majors, as well as Earth Science, and Environmental Science majors, can choose from introductory level classes in Earth System Science, including: Meteorology, (EASC 102), Physical Geology (GEOL 101), Oceanography (OCEA 101). Additional classes include Environmental Geology (GEOL 110) and Geology of the Pacific Northwest (GEOL 208). Prior college-level course work in Earth Sciences is recommended when taking these latter two courses. Students with an interest in the natural history of the Pacific Northwest should also consider taking the spring field experience courses in Western Washington (BIOL 270) or Eastern Washington (BIOL 271).

Sample career options include–

- **Environmental Engineers**
- **Environmental Science and Protection Technicians, Including Health**
- **Environmental Restoration Planners**

Transfer and Degree Requirements

If you are considering a major in Environmental Science and transferring to a four-year college or university in Washington state, our Transfer Program Planning Guide is designed to provide you with recommended courses to complete your Associate in Science - Transfer Track #1, AS-T degree. Of course, educational plans may vary, based on which quarter you begin, how many credits are taken, placement into Math and English, and your preferred transfer institution. To keep you on the best pathway, we encourage you to consult with an Academic Advisor for scheduling options.

Program Map

Program Maps are an integral part of the Planning Guide. Each Program Map includes a suggested quarterly sequence of courses so you could earn your degree within two years of full-time study. Your Program Map is also designed to help you create an individualized, customized Educational Plan, which is required of all SVC students. To start creating your Educational Plan, please consult with an Academic Advisor.

94 credits

FIRST YEAR

1st Quarter

- CSS 103 - First Quarter Experience (2)
- CHEM& 161 - General Chemistry w/Lab I (5)
- ENGL& 101 - English Composition I (5)
- MATH& 141 - Precalculus I (5)

TOTAL CREDITS: 17

2nd Quarter

- CHEM& 162 - General Chemistry w/Lab II (5)
- CMST& 220 - Public Speaking (5)
- MATH& 142 - Precalculus II (5).

TOTAL CREDITS: 15

3rd Quarter

- CHEM& 163 - General Chemistry w/Lab III (5)
- ECON& 201 - Micro Economics (5)
- MATH& 151 - Calculus I (5)

TOTAL CREDITS: 15

SECOND YEAR

4th Quarter

- BIOL& 221 - Majors Ecology/Evolution (5)

- CHEM& 241 - Organic Chemistry I (4)
- MATH& 152 - Calculus II (5)

TOTAL CREDITS: 14

5th Quarter

- BIOL& 222 - Majors Cell/Molecular Biology (5)
- CHEM& 242 - Organic Chemistry II (4)
- CHEM& 251 - Organic Chemistry Lab I (2)
- CHEM 295 - Chemistry Integrative Experience Seminar (2)
- MATH& 146 - Introduction to Stats (5)
  or MATH& 153 - Calculus III (5)

TOTAL CREDITS: 18

6th Quarter

- BIOL& 223 - Majors Organismal Physiology (5)
- CHEM& 243 - Organic Chemistry III (3)
- CHEM& 252 - Organic Chemistry Lab II (2)
- POLS& 202 - American Government: D (5)
  or POLS& 203 - International Relations: D (5)

TOTAL CREDITS: 15

GEOLOGY, TRANSFER TRACK #1, AS-T

PLANNING GUIDE – TRANSFER DEGREE

Overview

The Earth Sciences program at SVC is designed to serve the diverse needs of the community by inspiring students with an interest in discovery and a desire for lifelong learning, as well as by promoting critical thinking skills. Interested non-majors, as well as Earth Science, and Environmental Science majors, can choose from introductory level classes in Earth System Science, including: Meteorology, (EASC 102), Physical Geology (GEOL 101), Oceanography (OCEA 101). Additional classes include Environmental Geology (GEOL 110) and Geology of the Pacific Northwest (GEOL 208). Prior college-level course work in Earth Sciences is recommended when taking these latter two courses. Students with an interest in the natural history of the Pacific Northwest should also consider taking the spring field experience courses in Western Washington (BIOL 270) or Eastern Washington (BIOL 271).

Sample career options include–

- **Geological Sample Test Technicians**
- **Geoscientists**
- **Mining and Geological Engineers, Including Mining Safety Engineers**

Transfer and Degree Requirements

If you are considering a major in Geology and transferring to a four-year college or university in Washington state, our Transfer Program Planning Guide is designed to provide you with recommended courses to complete your Associate in Science - Transfer Track #1, AS-T degree. Of course, educational plans may vary, based on which quarter you begin, how many credits are taken, placement into Math and English, and your preferred transfer institution. To keep you on the best pathway, we encourage you to consult with an Academic Advisor for scheduling options.

Program Map

Program Maps are an integral part of our Planning Guide. Each Program Map includes a suggested quarterly sequence of courses so you could earn your degree within two years of full-time study. Your Program Map is also designed to help you create an individualized, customized Educational Plan, which is required of all SVC students. To start creating your Educational Plan, please consult with an Academic Advisor.

97 credits

FIRST YEAR

1st Quarter

- CHEM& 161 - General Chemistry w/Lab I (5)
- CSS 103 - First Quarter Experience (2)
- ENGL& 101 - English Composition I (5)
- MATH& 141 - Precalculus I (5)

TOTAL CREDITS: 17

2nd Quarter

- CHEM& 162 - General Chemistry w/Lab II (5)
- MATH& 142 - Precalculus II (5)
- Humanities course (5), preferably in Learning Community format.
  Suggested: ART& 100, DRMA& 101, ENGL& 112, ENGL 115, ENGL& 111, MUSC& 105, PHIL& 101, PHIL 215, WRLD LANG 121. Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.

TOTAL CREDITS: 15

3rd Quarter

- CHEM& 163 - General Chemistry w/Lab III (5)
- MATH& 151 - Calculus I (5)
- Social Sciences course (5), preferably in Learning Community format.
  Suggested: ANTH& 206, ECON 101, GEOG& 100, PSYC& 100, POLS& 101, SOSC 100. Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.

TOTAL CREDITS: 15

SECOND YEAR

4th Quarter

- CMST& 210 - Interpersonal Communication: D (5)
  or CMST& 220 - Public Speaking
- MATH& 152 - Calculus II (5)
- PHYS& 231 - Engineering Phys Lab I (1)
- PHYS& 241 - Engineering Physics I (5)

TOTAL CREDITS: 16

5th Quarter

- CHEM 295 - Chemistry Integrative Experience Seminar (2)
- GEOL& 101 - Introduction to Physical Geology (5)
- MATH& 153 - Calculus III (5)
- PHYS& 232 - Engineering Phys Lab II (1)
- PHYS& 242 - Engineering Physics II (5)

TOTAL CREDITS: 18

6th Quarter

- PHYS& 233 - Engineering Phys Lab III (1)
- PHYS& 243 - Engineering Physics III (5)
- ELECTIVE (5)
  See Distribution Lists - AA-DTA, pp 140-142. Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.

TOTAL CREDITS: 16

ASSOCIATE IN SCIENCE - TRANSFER TRACK #2, AS-T

PLANNING GUIDE – TRANSFER DEGREE

Overview

This degree is intended to prepare students to transfer to Washington's public four-year colleges and universities and many private colleges with junior standing and the majority of the prerequisites for selected science, mathematics, and engineering majors completed. This degree partially fulfills the general education requirements as explained in the Associate of Arts, Direct Transfer Agreement, AA-DTA degree. This degree does not guarantee admission into the major.

Students completing this Associate of Science Transfer degree will receive the same priority consideration for admission to the baccalaureate institution as they would for completing the direct transfer associate's degree and will be given junior status by the receiving institution. Each concentration within this degree has additional requirements. Early advising is important to ensure degree completion, for example:

- Additional general educational requirements, cultural diversity requirements, and foreign language requirements, as required by the transfer institution, must be met prior to the completion of a baccalaureate degree.
- Some baccalaureate institutions require physics with calculus to meet the physics sequence of 15 credits.
- Engineering students may have additional lower-division requirements to meet prior to department admission.
- Precalculus cannot be used to satisfy the mathematics require.
- Science sequences should not be broken up between institutions (ex: the typical three-quarter physics sequence should be taken entirely at Skagit Valley College).

Students are responsible for checking specific major requirements of baccalaureate institutions in the year prior to transferring. Selecting and planning courses with a science or engineering advisor is strongly recommended to ensure a seamless transition to a science major program at a specific university or four-year college.

Transfer

The Associate of Science Transfer (AS-T) Degree Track #2 is a 90 credit degree that prepares students for upper division study in areas of engineering, computer science, physics, and atmospheric sciences. Completing the AS-T degree does not guarantee student admission to the major.

Washington Colleges and Universities accepting the AS-T Degree from Skagit Valley College:

- **Central Washington University**
- **Eastern Washington University**
- **University of Washington**
- **Washington State University**
- **Western Washington University**

Degree Options

- **Computer Science Emphasis, Transfer Track #2, AS-T**
- **Engineering Emphasis, Transfer Track #2, AS-T**
- **Physics Emphasis, Transfer Track #2, AS-T**

Degree Requirements

General Education Learning Outcomes, pp 149-150.
Program Learning Outcomes, p 149

Students must complete a minimum of 90 credits in transferable courses numbered 100 or above which include General Education courses plus a specific science or engineering major option with a minimum cumulative GPA of 2.0. At least 25 college-level credits must be earned at SVC with a minimum GPA of 2.0. Additional General Education Requirements (GERs) must be completed at the four-year school where the student transfers.

REQUIREMENTS FOR SPECIFIC CONCENTRATION (60 cr.)

Associate In Science Transfer (AS-T) Track 2 concentrations:

- Atmospheric Sciences
- Computer Science
- Physics
- Engineering - Bioengineering/Chemical
- Engineering - Computer/Electrical
- Engineering - Mechanical/Civil/Aeronautical/Environmental/Industrial/Materials Science

MAJOR PROGRAM REQUIREMENTS

- Physics (calculus-based or non-calculus-based) sequence including laboratory (18 credits).
- Chemistry (for science majors) with laboratory required for engineering majors (5 credits). Other concentrations should select 5 credits of science based on advising.
- Third quarter calculus or approved statistics course chosen with the help of an advisor based on the requirements of the specific discipline at the baccalaureate institution the student plans to attend (5 credits).
- The remaining 35 credits should be planned with the help of an advisor based on the requirements of the specific discipline at the baccalaureate institution the student selects to attend. For engineering disciplines, these credits should include a design component consistent with ABET.

1. First Quarter Experience (2 cr.)

- CSS 103 - First Quarter Experience (2)

2. Communications Skills (5 cr.)

Requires a minimum of 5 credits in college-level composition.

- ENGL& 101 - English Composition I (5)

Note: *ENGL &101 Learning Community combined with a science or other required course is recommended.*

3. Quantitative Skills (10 cr.)

Requires completion of 10 credits in introductory calculus or above.

- MATH& 151 - Calculus I (5)

MATH& 152 - Calculus II (5)

4. Integrative Learning Experiences

Two Integrative Learning Experiences (ILE) are required. One ILE must be a *Learning Community*. The second ILE may be another Learning Community or an *Integrative Experience*.

- A *Learning Community* (LC) is the integrated combination of two or more courses from different areas of inquiry (e.g. sociology and literature, physics and math, etc.) Learning Communities are indicated in the course schedule.
- *Integrative Experiences* (IEs) are typically seminar courses in which students use an interdisciplinary approach for a specific topic or current issue (e.g. Ethics in Science). Integrative Experience seminars are indicated in the course schedule.

Note: *Integrative Learning Experiences specifically designed for this degree may be offered; consult your advisor for information.*

5. Diversity Requirement

At least one Diversity Intensive course is required. Students should use the SVC online quarterly class schedule search or consult with their faculty advisor or counselor to identify courses that fulfill this requirement.

6. Distribution Requirements (15 cr.)

Select credits from two distribution areas (Social Science and Humanities). Eligible courses for each distribution area are listed in the Associate in Arts - Direct Transfer Agreement Distribution list. These courses may also satisfy the Integrative Learning Experiences or Diversity requirement. WWU Huxley College requires one Political Science.

- 5 credits in Social Sciences
- 5 credits in Humanities
- 5 credits in either Social Sciences or Humanities

7. Electives

The remaining credits should be planned with the help of an advisor based on the requirements of the specific discipline at the baccalaureate institution the student selects to attend. See your SVC advisor for specific courses recommended for your major; check with your 4-year university for world-language requirements. A maximum of five non-transferable **Gray Area credits, pp 147-148,** may be applied toward the 90-credit minimum for the degree.

COMPUTER SCIENCE, TRANSFER TRACK #2, AS-T

PLANNING GUIDE – TRANSFER DEGREE

Overview

Computer Science is the study of techniques to represent, store and manipulate information within a computer information system. Computer programming is a major component of such study, and is the focus of most of the CS courses listed below. If you are thinking of pursuing a Bachelor's Degree in Computer Science at a university, you should take CS 142 or CS 210 because success in these classes tends to be a good indicator of success in a computer science program. Consult the university's catalog to determine which of the two courses best fits the requirements of that institution.

Sample career options include–

- **Computer Programmers**
- **Computer and Information Systems Managers**
- **Network and Computer Systems Administrators**

Transfer and Degree Requirements

If you are considering a major in Computer Science and transferring to a four-year college or university in Washington state, our Transfer Program Planning Guide is designed to provide you with recommended courses to complete your Associate in Science - Transfer Track #2, AS-T degree. Of course, educational plans may vary, based on which quarter you begin, how many credits are taken, placement into Math and English, and your preferred transfer institution. To keep you on the best pathway, we encourage you to consult with an Academic Advisor for scheduling options.

Program Map

Program Maps are an integral part of the Planning Guide. Each Program Map includes a suggested quarterly sequence of courses so you could earn your degree within two years of full-time study. Your Program Map is also designed to help you create an individualized, customized Educational Plan, which is required of all SVC students. To start creating your Educational Plan, please consult with an Academic Advisor.

90 credits

FIRST YEAR

1st Quarter

- CSS 103 - First Quarter Experience (2)
- CS 101 - Computers, Technology and Society (5)
- MATH& 141 - Precalculus I (5)

TOTAL CREDITS: 12

2nd Quarter

- CS 142 - Java Programming I (5)
  or CS 210 - C++ Programming I (5)
- ENGL& 101 - English Composition I (5)
- MATH& 142 - Precalculus II (5)

TOTAL CREDITS: 15

3rd Quarter

- CS 143 - Java Programming II (5)
  or CS 211 - C++ Programming II (5)
- MATH& 151 - Calculus I (5)
- PHIL 215 - Introduction to Ethics (5)

TOTAL CREDITS: 15

SECOND YEAR

4th Quarter

- CHEM& 161 - General Chemistry w/Lab I (5)
- MATH& 152 - Calculus II (5)
- PHYS& 231 - Engineering Phys Lab I (1)
- PHYS& 241 - Engineering Physics I (5)

TOTAL CREDITS: 16

5th Quarter

- MATH& 153 - Calculus III (5)
- MATH 204 - Elementary Linear Algebra (5)
- PHYS& 232 - Engineering Phys Lab II (1)
- PHYS& 242 - Engineering Physics II (5)

TOTAL CREDITS: 16

6th Quarter

- MATH& 146 - Introduction to Stats (5)
- PHYS& 233 - Engineering Phys Lab III (1)
- PHYS& 243 - Engineering Physics III (5)
- Humanities course (5), preferably in Learning Community format.
  Suggested: ART& 100, DRMA& 101, ENGL& 112, ENGL 115, ENGL& 111, MUSC& 105, PHIL& 101. Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.

TOTAL CREDITS: 16

ENGINEERING, TRANSFER TRACK #2, AS-T

PLANNING GUIDE – TRANSFER DEGREE

Overview

The engineering courses are designed to introduce students to the field of engineering and/or fulfill prerequisites for upper division engineering courses. Because many of the engineering courses have math prerequisites and because most engineering courses are offered only annually or biennially, getting started on the appropriate sequence is important.

Sample career options include–

- Mechanical Engineers
- Civil Engineers
- Electrical Engineers

Transfer and Degree Requirements

If you are considering a major in Engineering and transferring to a four-year college or university in Washington state, our Transfer Program Planning Guide is designed to provide you with recommended courses to complete your Associate in Science - Transfer Track #2, AS-T degree. Of course, educational plans may vary, based on which quarter you begin, how many credits are taken, placement into Math and English, and your preferred transfer institution. To keep you on the best pathway, we encourage you to consult with an Academic Advisor for scheduling options.

Program Map

Program Maps are an integral part of the Planning Guide. Each Program Map includes a suggested quarterly sequence of courses so you could earn your degree within two years of full-time study. Your Program Map is also designed to help you create an individualized, customized Educational Plan, which is required of all SVC students. To start creating your Educational Plan, please consult with an Academic Advisor.

97 credits

FIRST YEAR

1st Quarter

- CHEM& 161 - General Chemistry w/Lab I (5)
- CSS 103 - First Quarter Experience (2)
- ENGL& 101 - English Composition I (5)
- MATH& 151 - Calculus I (5)

TOTAL CREDITS: 17

2nd Quarter

- CS 142 - Java Programming I (5)
- CHEM 295 - Chemistry Integrative Experience Seminar (2)
- ENGL& 235 - Technical Writing (5)
- MATH& 152 - Calculus II (5)

TOTAL CREDITS: 17

3rd Quarter

- CS 143 - Java Programming II (5)
- ENGR& 104 - Introduction to Engineering and Design (5)
- MATH& 153 - Calculus III (5)

TOTAL CREDITS: 15

SECOND YEAR

4th Quarter

- MATH& 254 - Calculus IV (5)
- PHYS& 231 - Engineering Phys Lab I (1)
- PHYS& 241 - Engineering Physics I (5)
- Social Science course (5), preferably in Learning Community format.
  Suggested: ANTH& 206, ECON 101, GEOG& 100, PSYC& 100, POLS& 101, or SOSC 100. Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.

TOTAL CREDITS: 16

5th Quarter

- MATH 204 - Elementary Linear Algebra (5)
- PHYS& 232 - Engineering Phys Lab II (1)
- PHYS& 242 - Engineering Physics II (5)
- Humanities course (5), preferably in Learning Community format.
  Suggested: ART& 100, DRMA& 101, ENGL& 112,ENGL 115, ENGL& 111, MUSC& 105, PHIL& 101, PHIL 215, or WRLD LANG. Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.

TOTAL CREDITS: 16

6th Quarter

- MATH 238 - Ordinary Differential Equations (5)
- PHYS& 233 - Engineering Phys Lab III (1)
- PHYS& 243 - Engineering Physics III (5)
- Elective (5)
  See Distribution Lists - AA-DTA, pp 140-142. Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.

TOTAL CREDITS: 16

PHYSICS, TRANSFER TRACK #2, AS-T

PLANNING GUIDE – TRANSFER DEGREE

Overview

The Physics program is designed to serve the diverse needs of the community by inspiring students with an interest in discovery and a desire for lifelong learning, as well as by promoting critical thinking skills. The Physics program pro-

vides courses for interested non-majors, science majors, and engineering majors. Two year-long sequences provide solid foundations in general physics: PHYS& 134, PHYS& 135, PHYS& 136 (algebra-based) and PHYS& 241, PHYS& 242, and PHYS& 243 (calculus-based). Both sequences emphasize lab work to offer students hands-on experience with physical concepts and analysis. Non-science majors with an interest in physics may choose to take PHYS& 100, a non-lab survey of physics concepts or PHYS 111.

Sample career options include–

- **Physicists**
- **Physics Teachers, Postsecondary**
- **Astronomers**

Transfer and Degree Requirements

If you are considering a major in Physics and transferring to a four-year college or university in Washington state, our Transfer Program Planning Guide is designed to provide you with recommended courses to complete your Associate in Science - Transfer Track #2, AS-T degree. Of course, educational plans may vary, based on which quarter you begin, how many credits are taken, placement into Math and English, and your preferred transfer institution. To keep you on the best pathway, we encourage you to consult with an Academic Advisor for scheduling options.

Program Map

Program Maps are an integral part of the Planning Guide. Each Program Map includes a suggested quarterly sequence of courses so you could earn your degree within two years of full-time study. Your Program Map is also designed to help you create an individualized, customized Educational Plan, which is required of all SVC students. To start creating your Educational Plan, please consult with an Academic Advisor.

90 credits

FIRST YEAR

1st Quarter

- CSS 103 - First Quarter Experience (2)
- CHEM& 161 - General Chemistry w/Lab I (5)
- MATH& 141 - Precalculus I (5)
  or MATH& 151 - Calculus I (5)

  TOTAL CREDITS: 12

2nd Quarter

- CHEM& 162 - General Chemistry w/Lab II (5)
  or ASTR& 101 - Introduction to Astronomy
- ENGL& 101 - English Composition I (5)
- MATH& 142 - Precalculus II (5)
  or MATH& 152 - Calculus II (5)

  TOTAL CREDITS: 15

3rd Quarter

- MATH& 151 - Calculus I (5)
  or MATH& 153 - Calculus III (5)
- Humanities Choice (5), preferably in Learning Community format.
  Suggested: ART& 100, ART 101, ART 142, ART 143, ART 144, CMST& 220, ENGL 202, HUM& 101, PHIL& 106, PHIL 215, or WRLD LANG. Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.
- Social Science Choice (5), preferably in Learning Community format.
  Suggested: ANTH& 206, ECON& 202, HIST& 117, PSYC& 100, POLS& 101, POLS& 203, or SOC& 101. Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.

  TOTAL CREDITS: 15

SECOND YEAR

4th Quarter

- MATH& 152 - Calculus II (5)
  or MATH& 254 - Calculus IV
- PHYS& 231 - Engineering Phys Lab I (1)
- PHYS& 241 - Engineering Physics I (5)
- ELECTIVE (5)
  Suggested: ASTR& 100, ASTR& 101,CHEM& 163, CS 142, CS 210, ENGL& 235, ENGR& 104, ENGR& 214, GEOL& 101, or MATH& 146. Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.

  TOTAL CREDITS: 16

5th Quarter

- MATH 204 - Elementary Linear Algebra (5)
- PHYS& 232 - Engineering Phys Lab II (1)
- PHYS& 242 - Engineering Physics II (5)
- MATH& 153 - Calculus III (5)
  or ***ELECTIVE (5)***
  Suggested: ASTR& 100, ASTR& 101,CHEM& 163, CS 143, CS 211, ENGL& 235, ENGR& 104, ENGR& 214, GEOL& 101, or MATH& 146. Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.

  TOTAL CREDITS: 16

6th Quarter

- MATH 238 - Ordinary Differential Equations (5)
- PHYS& 233 - Engineering Phys Lab III (1)
- PHYS& 243 - Engineering Physics III (5)
- Humanities Choice (5), preferably in Learning Community format.
  Suggested: ART& 100, ART 101, ART 142, ART 143, ART 144, CMST& 220, ENGL 202, HUM& 101, PHIL& 106, PHIL 215, or WRLD LANG. Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.
  or ***Social Science course (5), preferably in Learning Community format.***
  Suggested: ANTH& 206, ECON& 202, HIST& 117, PSYC& 100, POLS& 101, POLS& 203, or SOC& 101. Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.

  TOTAL CREDITS: 16

ENGINEERING, ASSOCIATE IN SCIENCE, TRANSFER TRACK #2 (ENGINEERING), AS-T/MRP

PLANNING GUIDE – TRANSFER DEGREE

Overview

This degree is intended to prepare students to transfer to Washington's public four-year colleges and universities and many private colleges with junior standing and the majority of the prerequisites for selected science, mathematics, and engineering majors completed. This degree partially fulfills the general education requirements as explained in the Associate of Arts, Direct Transfer Agreement, AA-DTA degree. This degree does not guarantee admission into the major.

Students completing this Associate of Science Transfer degree will receive the same priority consideration for admission to the baccalaureate institution as they would for completing the direct transfer associate's degree and will be given junior status by the receiving institution. Each concentration within this degree has additional requirements. Early advising is important to ensure degree completion, for example:

- Additional general educational requirements, cultural diversity requirements, and foreign language requirements, as required by the transfer institution, must be met prior to the completion of a baccalaureate degree.
- Some baccalaureate institutions require physics with calculus to meet the physics sequence of 15 credits.
- Engineering students may have additional lower-division requirements to meet prior to department admission.
- Precalculus cannot be used to satisfy the mathematics requirement.
- Science sequences should not be broken up between institutions (ex: the typical three-quarter physics sequence should be taken entirely at Skagit Valley College).
- Students are responsible for checking specific major requirements of baccalaureate institutions in the year prior to transferring. Selecting and planning courses with a science or engineering advisor is strongly recommended to ensure a seamless transition to a science major program at a specific university or four-year college.

Transfer

Educational plans may vary based on which quarter you begin, how many credits are taken, placement into mathematics and English, and the student's preferred transfer institution. If the student is considering a major in this emphasis and transferring to a four-year college or university Washington State, the student is encouraged to consult with an academic advisor at both SVC and the preferred transfer institution to keep them on the best pathway to graduation.

Washington's public and private institutions which accept this degree from SVC include:

- **Eastern Washington University**
- **University of Washington**
- **Washington State University**
- **Western Washington University**
- **Gonzaga University**
  Saint Martin's University
- **Seattle Pacific University**
- **Seattle University**
- **Walla Walla University**

Degree Options

- **Bioengineering and Chemical Engineering Emphasis, Associate of Science-Transfer, Track #2 Engineering Major Related Program (AS-T 2/MRP)**
- **Computer and Electrical Engineering Emphasis, Associate of Science-Transfer, Track #2 Engineering Major Related Program (AS-T 2/MRP)**
- **Civil and Mechanical Engineering Emphasis, Associate of Science-Transfer, Track #2 Engineering Major Related Program (AS-T 2/MRP)**
- **Materials Science and Manufacturing Engineering Emphasis, Associate of Science-Transfer, Track #2 Engineering Major Related Program (AS-T 2/MRP)**

Degree Requirements

General Education Learning Outcomes, pp 149-150.
Program Learning Outcomes, p 149

Students must complete a minimum of 90 credits in transferable courses numbered 100 or above which include General Education courses plus a specific science or engineering major option with a minimum cumulative GPA of 2.0. At least 25 college-level credits must be earned at SVC with a minimum GPA of 2.0. Additional General Education Requirements (GERs) must be completed at the four-year school where the student transfers.

REQUIREMENTS FOR SPECIFIC CONCENTRATIONS (60 cr.)

Associate In Science-Transfer, Track 2 Engineering Major Related Programs (AS-T 2/MRP) Concentrations (60 credits):

- Atmospheric Sciences
- Computer Science
- Physics
- Engineering - Bioengineering/Chemical
- Engineering - Computer/Electrical
- Engineering - Mechanical/Civil/Aeronautical/Environmental/Industrial/Materials Science

MAJOR PROGRAM REQUIREMENTS

- Physics (calculus-based or non-calculus-based) sequence, including laboratory (15 credits).
  - Note: Some transfer institutions require calculus-based physics to meet this requirement. Check with the target transfer institution for more information.
- Chemistry (for science majors) with laboratory required for engineering majors (5 credits). Other concentrations should select 5 credits of science based on advising.
- Third quarter calculus or approved statistics course chosen with the help of an advisor based on the requirements of the specific discipline at the baccalaureate institution the student plans to attend (5 credits.)
- The remaining 35 credits should be planned with the help of an advisor based on the requirements of the specific discipline at the baccalaureate institution the student selects to attend. For engineering disciplines, these credits should include a design component consistent with ABET.

1. **First Quarter Experience (2 cr.)**
   - CSS 103 - First Quarter Experience (2)
2. **Communications Skills (5 cr.)**
   Requires a minimum of 5 credits in college-level composition.
   - ENGL& 101 - English Composition I (5)

Note: *ENGL &101 Learning Community combined with a science or other required course is recommended.*

3. Quantitative Skills (10 cr.)

Requires completion of 10 credits in introductory calculus or above.

- MATH& 151 - Calculus I (5)
- MATH& 152 - Calculus II (5)
  - Note: Third quarter calculus or approved statistics course chosen with the help of an advisor, based on the requirements of the specific discipline at the transfer institution the student plans to attend (5 credits).

4. Integrative Learning Experiences

Two Integrative Learning Experiences (ILE) are required. One ILE must be a *Learning Community*. The second ILE may be another Learning Community or an *Integrative Experience*.

- A *Learning Community* (LC) is the integrated combination of two or more courses from different areas of inquiry (e.g. sociology and literature, physics and math, etc.) Learning Communities are indicated in the course schedule.
- *Integrative Experiences* (IEs) are typically seminar courses in which students use an interdisciplinary approach for a specific topic or current issue (e.g. Ethics in Science). Integrative Experience seminars are indicated in the course schedule.

Note: *Integrative Learning Experiences specifically designed for this degree may be offered; consult your advisor for information.*

5. Diversity Requirement

At least one Diversity Intensive course is required. Students should use the SVC online quarterly class schedule search or consult with their faculty advisor or counselor to identify courses that fulfill this requirement.

6. Distribution Requirements (15 cr. minimum)

Select credits from two distribution areas (Social Science and Humanities). Eligible courses for each distribution area are listed in the Associate in Arts - Direct Transfer Agreement Distribution list. These courses may also satisfy the Integrative Learning Experiences or Diversity requirement. WWU Huxley College requires one Political Science.

- 5 credits in Social Sciences
- 5 credits in Humanities
- 5 credits in either Social Sciences or Humanities

7. Electives (35 cr.)

The remaining credits should be planned with the help of an advisor based on the requirements of the specific discipline at the baccalaureate institution the student selects to attend. See your SVC advisor for specific courses recommended for your major; check with your 4-year university for world-language requirements. A maximum of five (5) non-transferable **Gray Area credits, pp 147-148,** may be applied toward the 90-credit minimum for the degree.

BIOENGINEERING AND CHEMICAL ENGINEERING EMPHASIS, ASSOCIATE OF SCIENCE-TRANSFER, TRACK #2 ENGINEERING MAJOR RELATED PROGRAM (AS-T 2/MRP)

PLANNING GUIDE – TRANSFER DEGREE

Overview

The engineering courses are designed to introduce students to the field of engineering and/or fulfill prerequisites for upper division engineering courses. Because many of the engineering courses have math prerequisites and because most engineering courses are offered only annually or biennially, getting started on the appropriate sequence is important.

Sample career options include–

- **Bioengineers and Biomedical Engineers**
- **Chemical Engineers**
- **Petroleum Engineers**

Transfer and Degree Requirements

If you are considering a major in this emphasis and transferring to a four-year college or university in Washington state, our Transfer Program Planning Guide is designed to provide you with recommended courses to complete your Associate in Science - Transfer Track #2, AS-T degree. Of course, educational plans may vary, based on which quarter you begin, how many credits are taken, placement into Math and English, and your preferred transfer institution. To keep you on the best pathway, we encourage you to consult with an Academic Advisor for scheduling options.

Program Map

Program Maps are an integral part of the Planning Guide. Each Program Map includes a recommended quarterly sequence of courses for a full-time student to earn this degree within two years. The courses align with the appropriate number of credits to meet degree requirements and is designed to help you create an individualized, customized Educational Plan, required of all SVC students. Please consult with an SVC Advisor to schedule courses and develop your personal Educational Plan.

92 credits

FIRST YEAR

Fall Quarter

- MATH& 151 - Calculus I (5)
- CHEM& 161 - General Chemistry w/Lab I (5)
- ENGL& 101 - English Composition I (5)
- CSS 103 - First Quarter Experience (2)

TOTAL CREDITS: 17

Winter Quarter

- MATH& 152 - Calculus II (5)
- CHEM& 162 - General Chemistry w/Lab II (5)
- IE Science Seminar (2)
  Discuss specific course requirements with an SVC advisor.

Students are responsible for checking specific major requirements of baccalaureate institutions

TOTAL CREDITS: 12

Spring Quarter

- MATH& 153 - Calculus III (5)
- CHEM& 163 - General Chemistry w/Lab III (5)
- Humanities Choice (5), preferably in Learning Community format.

  Suggested: CMST& 220, PHIL& 106, PHIL 215, ART 101, ART& 143D, ENGL 202, or ENGL&112D. Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.

TOTAL CREDITS: 15

SECOND YEAR

Fall Quarter

- CHEM& 241 - Organic Chemistry I (4)
- PHYS& 241-Engineering Physics I (5)
- PHYS& 231-Engineering Phys Lab I (1)
- BIOL& 221 - Majors Ecology/Evolution (5)
  or Engineering Elective (5)
  Suggested: ENGR& 240, ENGR& 104, ENGR 170, ENGR& 224, ENGR& 204, or ENGR& 214. Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.

TOTAL CREDITS: 15

Winter Quarter

- PHYS& 242 - Engineering Physics II (5)
- PHYS& 232 - Engineering Phys Lab II (1)
- CHEM& 242 - Organic Chemistry II (5)
- CHEM& 251 - Organic Chemistry Lab I (5)
- Engineering elective (5)
  Suggested: ENGR& 240, ENGR& 104, ENGR 170, ENGR& 224, ENGR& 204, ENGR& 214. Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.

TOTAL CREDITS: 17

Spring Quarter

- MATH 238-Ordinary Differential Equations (5)
- PHYS& 233-Engineering Phys Lab III (1)
- PHYS& 243-Engineering Physics III (5)
- Social Sciences or Humanities Choice (5), preferably in Learning Community format.
  Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.

TOTAL CREDITS: 16

COMPUTER AND ELECTRICAL ENGINEERING EMPHASIS, ASSOCIATE OF SCIENCE-TRANSFER, TRACK #2 ENGINEERING MAJOR RELATED PROGRAM (AS-T 2/MRP)

PLANNING GUIDE – TRANSFER DEGREE

Overview

The engineering courses are designed to introduce students to the field of engineering and/or fulfill prerequisites for upper division engineering courses. Because many of the engineering courses have math prerequisites and because most engineering courses are offered only annually or biennially, getting started on the appropriate sequence is important.

Sample career options include–

- **Computer Hardware Engineers**
- **Electrical Engineers**
- **Electronics Engineers**
- **Mechatronics Engineers**
- **Robotics Engineers**

Transfer and Degree Requirements

If you are considering a major in this emphasis and transferring to a four-year college or university in Washington state, our Transfer Program Planning Guide is designed to provide you with recommended courses to complete your Associate in Science - Transfer Track #2, AS-T degree. Of course, educational plans may vary, based on which quarter you begin, how many credits are taken, placement into Math and English, and your preferred transfer institution. To keep you on the best pathway, we encourage you to consult with an Academic Advisor for scheduling options.

Program Map

Program Maps are an integral part of the Planning Guide. Each Program Map includes a recommended quarterly sequence of courses for a full-time student to earn this degree within two years. The courses align with the appropriate number of credits to meet degree requirements and is designed to help you create an individualized, customized Educational Plan, required of all SVC students. Please consult with an SVC Advisor to schedule courses and develop your personal Educational Plan.

95 credits

FIRST YEAR

Fall Quarter

- MATH& 151 - Calculus I (5)
- ENGL& 101 - English Composition I (5)
- CSS 103 - First Quarter Experience (2)
- PHYS& 241 - Engineering Physics I (5)
  and
  PHYS& 231 - Engineering Phys Lab I (1)

TOTAL CREDITS: 18

Winter Quarter

- MATH& 152 - Calculus II (5)
- CS 142 - Java Programming I (5)
  or
- CS 210 - C ++ Programming I (5)
- PHYS& 242 - Engineering Physics II (5)
  and
  PHYS& 232 - Engineering Phys Lab II (1)

TOTAL CREDITS: 16

Spring Quarter

- MATH& 153 - Calculus III (5)
- CS 143 - Java Programming II (5)
  or
- CS 211 - C ++ Programming II (5)

- PHYS& 243 - Engineering Physics III (5)
  and
  PHYS& 233 - Engineering Phys Lab III (1)

  TOTAL CREDITS: 16

SECOND YEAR

Fall Quarter

- ENGR& 214 - Statics(5)
- CHEM& 161 - General Chemistry w/Lab I (5)
- Social Sciences or Humanities Choice (5), preferably in Learning Community format.

  Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.

  TOTAL CREDITS: 15

Winter Quarter

- MATH 204 - Elementary Linear Algebra (5)
- ECON& 202 - Macro Economics (1)
- Engineering elective (5)

  Suggested: MATH& 254, ENGL& 235, ENGR& 224, ENGR& 214, ENGR& 215, CHEM& 162, BIOL& 221, or ENGR& 240. Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.

  TOTAL CREDITS: 15

Spring Quarter

- MATH 238 - Ordinary Differential Equations (5)
- ENGR& 204 - Electrical Circuits (5)
- Social Sciences or Humanities Choice (5), preferably in Learning Community format.

  Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.

  TOTAL CREDITS: 16

CIVIL AND MECHANICAL ENGINEERING EMPHASIS, ASSOCIATE OF SCIENCE-TRANSFER, TRACK #2 ENGINEERING MAJOR RELATED PROGRAM (AS-T 2/MRP))

PLANNING GUIDE – TRANSFER DEGREE

Overview

The engineering courses are designed to introduce students to the field of engineering and/or fulfill prerequisites for upper division engineering courses. Because many of the engineering courses have math prerequisites and because most engineering courses are offered only annually or biennially, getting started on the appropriate sequence is important.

Sample career options include–

- Aerospace Engineers
- Automotive Engineers
- Civil Engineers
- Environmental Engineers
- Health and Safety Engineers
- Mechanical Engineers

Transfer and Degree Requirements

If you are considering a major in this emphasis and transferring to a four-year college or university in Washington state, our Transfer Program Planning Guide is designed to provide you with recommended courses to complete your Associate in Science - Transfer Track #2, AS-T degree. Of course, educational plans may vary, based on which quarter you begin, how many credits are taken, placement into Math and English, and your preferred transfer institution. To keep you on the best pathway, we encourage you to consult with an Academic Advisor for scheduling options.

Program Map

Program Maps are an integral part of the Planning Guide. Each Program Map includes a recommended quarterly sequence of courses for a full-time student to earn this degree within two years. The courses align with the appropriate number of credits to meet degree requirements and is designed to help you create an individualized, customized Educational Plan, required of all SVC students. Please consult with an SVC Advisor to schedule courses and develop your personal Educational Plan.

95 credits

FIRST YEAR

Fall Quarter

- MATH& 151 - Calculus I (5)
- ENGL& 101 - English Composition I (5)
- CSS 103 - First Quarter Experience (2)
- PHYS& 241 - Engineering Physics I (5)
- PHYS& 231 - Engineering Phys Lab I (1)

  TOTAL CREDITS: 18

Winter Quarter

- MATH& 152 - Calculus II (5)
- PHYS& 242 - Engineering Physics II (5)
  PHYS& 232 - Engineering Phys Lab II (1)
- ECON& 202 - Macro Economics (1)

  TOTAL CREDITS: 16

Spring Quarter

- MATH& 153 - Calculus III (5)
- PHYS& 243 - Engineering Physics III (5)
- PHYS& 233 - Engineering Phys Lab III (1)
- Humanities elective (5)

  Suggested: World Language course, CMST& 220, PHIL 106, PHIL 215, ART 101, ART& 143D, ENGL 202 D, or ENGL& 112D. Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.

  TOTAL CREDITS: 16

SECOND YEAR

Fall Quarter

- ENGR& 214 - Statics(5)
- CHEM& 161 - General Chemistry w/Lab I (5)
- Social Sciences or Humanities Choice (5), preferably in Learning Community format.

  Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.

  TOTAL CREDITS: 15

Winter Quarter
- MATH 204 - Elementary Linear Algebra (5)
- ENGR& 215 - Dynamics (5)
- CHEM& 162 - General Chemistry w/Lab II (5)

TOTAL CREDITS: 15

Spring Quarter
- MATH 238 - Ordinary Differential Equations (5)
- ENGR& 225 - Mechanics of Materials (5)
- Engineering Elective (5)
  Suggested: ENGR& 240, ENGR& 104, ENGR 170, ENGR& 204, ENGR& 114, ENGR& 215, ENGR& 224, ENGR& 225, CHEM& 163 or BIOL& 221. Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.

TOTAL CREDITS: 15

MATERIALS SCIENCE AND MANUFACTURING ENGINEERING EMPHASIS, ASSOCIATE OF SCIENCE-TRANSFER, TRACK #2 ENGINEERING MAJOR RELATED PROGRAM (AS-T 2/ MRP)

PLANNING GUIDE – TRANSFER DEGREE

Overview

The engineering courses are designed to introduce students to the field of engineering and/or fulfill prerequisites for upper division engineering courses. Because many of the engineering courses have math prerequisites and because most engineering courses are offered only annually or biennially, getting started on the appropriate sequence is important.

Sample career options include–

- **Materials Engineers**
- **Manufacturing Engineers**

Transfer and Degree Requirements

If you are considering a major in this emphasis and transferring to a four-year college or university in Washington state, our Transfer Program Planning Guide is designed to provide you with recommended courses to complete your Associate in Science - Transfer Track #2, AS-T degree. Of course, educational plans may vary, based on which quarter you begin, how many credits are taken, placement into Math and English, and your preferred transfer institution. To keep you on the best pathway, we encourage you to consult with an Academic Advisor for scheduling options.

Program Map

Program Maps are an integral part of the Planning Guide. Each Program Map includes a recommended quarterly sequence of courses for a full-time student to earn this degree within two years. The courses align with the appropriate number of credits to meet degree requirements and is designed to help you create an individualized, customized Educational Plan, required of all SVC students. Please consult with an SVC Advisor to schedule courses and develop your personal Educational Plan.

95 credits

FIRST YEAR

Fall Quarter
- MATH& 151 - Calculus I (5)
- PHYS& 241 - Engineering Physics I (5)
- PHYS& 231 - Engineering Phys Lab I (1)
- ENGL& 101 - English Composition I (5)
- CSS 103 - First Quarter Experience (2)

TOTAL CREDITS: 18

Winter Quarter
- MATH& 152 - Calculus II (5)
- PHYS& 242 - Engineering Physics II (5)
- PHYS& 232 - Engineering Phys Lab II (1)
- ECON& 202 - Macro Economics (1)

TOTAL CREDITS: 16

Spring Quarter
- MATH& 153 - Calculus III (5)
- PHYS& 243 - Engineering Physics III (5)
- PHYS& 233 - Engineering Phys Lab III (1)
- Humanities Choice (5), preferably in Learning Community format.
  Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.

TOTAL CREDITS: 16

SECOND YEAR

Fall Quarter
- ENGR& 214 - Statics(5)
- CHEM& 161 - General Chemistry w/Lab I (5)
- ENGR 170 - Fundamentals of Materials Science (5)

TOTAL CREDITS: 15

Winter Quarter
- MATH 204 - Elementary Linear Algebra (5)
- CHEM& 162 - General Chemistry w/Lab II(5)
- Engineering elective (5)
  Suggested: CS 142, CS 210, MATH& 254, MATH 238, ENGL& 235, BIOL& 221, ENGR& 224, ENGR& 215, ENGR& 114, ENGR& 240, ENGR& 104, ENGR 170, CHEM& 163, or CHEM& 241. Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.

TOTAL CREDITS: 15

Spring Quarter
- ENGR& 225 - Mechanics of Materials
- Engineering elective (5)
  Suggested: CS 142, CS 210, MATH& 254, MATH 238, ENGL& 235, BIOL& 221, ENGR& 224, ENGR& 215, ENGR& 114, ENGR& 240, ENGR& 104, ENGR 170, CHEM& 163, or CHEM& 241. Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.
- Social Sciences or Humanities Choice (5), preferably in Learning Community format.
  Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.

TOTAL CREDITS: 16

ARTICULATED ACADEMIC TRANSFER DEGREE

ASSOCIATE OF VISUAL ARTS, AVA

PLANNING GUIDE – TRANSFER DEGREE

Overview

The Art Department is committed to the value of the arts to all academic studies and offers courses for both majors and non-majors. Students who intend to transfer should be aware that they may be required to present a portfolio of work. Your advisor can provide guidance for you to prepare the portfolio. Students who take courses in the department have the opportunity for their work to be featured in the SVC Annual Juried Student Exhibition. Students can also receive credit for working with arts programs and organizations in the community.

Sample career options include

- **Fine Artists, Including Painters, Sculptors and Illustrators**
- **Graphic Design**

Transfer

This degree is intended to prepare students to transfer to Washington State University with junior standing with most of the prerequisites for an art major completed. This degree partially fulfills the general education requirements (GERs) for four-year transfer. You may need to take additional GERs at WSU. Completion of the AVA does not guarantee admission as an art major with junior standing. Admission into the WSU Art department is competitive. A competitive GPA and a quality portfolio are essential to compete for admission into the major. Students are strongly advised to select and plan courses with their Art department advisor.

The Associates of Visual Arts, AVA, degree transfers to Washington State University under an articulation agreement.

Degree Requirements

General Education Learning Outcomes, pp 149-150.
Program Learning Outcomes, p 149

An ampersand (&) denotes Common Course Numbering

Students must complete a minimum of 90 quarter credits in transferable courses numbered 100 or above with a cumulative grade point average of at least 2.0 in order to graduate from SVC with an Associate in Visual Arts Degree. At least 25 of the 90 credits must be earned at SVC. Credits must satisfy course requirements listed below.

The Associates of Visual Arts, AVA, degree transfers to Washington State University under an articulation agreement.

1. First Quarter Experience (2 cr.)

- CSS 103 - First Quarter Experience (2)

2. Communication Skills (10 cr.)

- ENGL& 101 - English Composition I (5)
  or ENGL& 102 - Composition II (5)
  or ENGL 103 - Advanced Composition (5)
- CMST& 210 - Interpersonal Communication: D (5)
  or CMST& 220 - Public Speaking (5)

3. Quantitative Skills (5 cr.)

- MATH& 107 - Math in Society (5) or higher.

4. Physical Education (3 cr.)

- PE 100 - Wellness For Life (1)
- PE activity course(s) (2), excludes PE 200, PE 204, and PE 205

5. Diversity Requirement

At least one Diversity Intensive course is required. Students should use the SVC online quarterly class schedule search or consult with their faculty advisor or counselor to identify courses that fulfill this requirement.

6. Integrative Learning Experiences

Two Integrative Learning Experiences (ILE) are required. One ILE must be a Learning Community. The second ILE may be another Learning Community or an Integrative Experience.

- A *Learning Community* (LC) is the integrated combination of two or more courses from different areas of inquiry (e.g. sociology and literature, or physics and math, or speech and economics, or composition and philosophy). Learning Communities are indicated in the course schedule and online schedule advanced search.
- *Integrative Experiences* (IEs) are curricular or co-curricular experiences designed by faculty in which students demonstrate their ability to integrate information, concepts, analytical frameworks, and skills from two or more areas of inquiry in a purposeful project or experience. Integrative Experiences that are classes are indicated in the course schedule; co-curricular IEs are indicated in promotion and advising for the experience or project. Students may design a Learning into Action IE under the guidance of the supervising faculty member.

Note: *The Integrative Learning Experience requirements should be discussed with your advisor and planned into your yearly schedule.*

7. Visual Art Courses

A. Basic Art requirements (47 cr.)

- ART 101 - Drawing Fundamentals (5)
- ART 102 - Drawing Composition and Techniques (5)
- ART 107 - Life Drawing (4)
- ART 111 - Two Dimensional Color and Design (5)
- ART 112 - Three Dimensional Design (5)
- ART& 100 - Art Appreciation: D (5)
- ART 142 - Survey of Art History: Prehistory to 1300 AD: D (5)
- ART 143 - Survey of Art History: 1300-1850: D (5)
- ART 144 - Modern Art History: D (5)
- ART 150 - Health and Safety in the Visual Arts (1)
- ART 160 - Portfolio (1)

- ART 161 - Exhibition (1)

B. Art Electives (12 cr.)

- ART 181 - Photography I (4)
- ART 182 - Photography II (1-4)
- ART 201 - Painting I (4)
- ART 202 - Painting II (4)
- ART 241 - Ceramics I (1-4)
- ART 242 - Ceramics II (1-4)
- ART 261 - Printmaking I (1-4)
- ART 262 - Printmaking II (4)

8. Additional General Education Requirements (13 cr.)

You must accumulate at least 90 college-level (100 or higher) credits for this degree. Consult the General Education Requirements list for Washington State University in the SVC Counseling and Career Services offices or your Art department advisor for appropriate course selections. A maximum of 5 credits in Gray Area electives, pp 147-148, allowed.

9. Other Recommended Courses

- CMST& 220 - Public Speaking (5)

Program Map

Program Maps are an integral part of the Planning Guide. Each Program Map includes a suggested quarterly sequence of courses so you could earn your degree within two years of full-time study. Your Program Map is also designed to help you create an individualized, customized Educational Plan, which is required of all SVC students. To start creating your Educational Plan, please consult with an Academic Advisor.

94 credits

FIRST YEAR

1st Quarter

- ART 101 - Drawing Fundamentals (5)
- ART 111 - Two Dimensional Color and Design (5)
- CSS 103 - First Quarter Experience (2)
- ENGL& 101 - English Composition I (5)

TOTAL CREDITS: 17

2nd Quarter

- ART 107 - Life Drawing (4)
- CMST& 220 - Public Speaking (5)
- MATH& 107 - Math in Society (5)
- PE 100 - Wellness For Life (1)

TOTAL CREDITS: 15

3rd Quarter

- ART& 100 - Art Appreciation: D (5)
- ART 112 - Three Dimensional Design (5)
- Natural Science Course (5), with Lab
  See Distribution Lists - AA-DTA, pp 140-142. Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.

TOTAL CREDITS: 15

SECOND YEAR

4th Quarter

- ART 142 - Survey of Art History: Prehistory to 1300 AD: D (5)
- ART 160 - Portfolio (1)
- ART Elective Course (4)
  Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.
- Natural Science Course (5)
  See Distribution Lists - AA-DTA, pp 140-142. Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.
- PE Activity (1)

TOTAL CREDITS: 16

5th Quarter

- ART 143 - Survey of Art History: 1300-1850: D (5)
- ART 150 - Health and Safety in the Visual Arts (1)
- ART Elective Choice (4)
  Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.
- Social Sciences Course (5)
  See Distribution Lists - AA-DTA, pp 140-142. Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.

TOTAL CREDITS: 15

6th Quarter

- ART 102 - Drawing Composition and Techniques (5)
- ART 144 - Modern Art History: D (5)
- ART 161 - Exhibition (1)
- ART Elective Choice (4)
  Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.
- PE Activity (1)

TOTAL CREDITS: 16

Statewide Transfer Degrees by Major

DIRECT TRANSFER AGREEMENT/ MAJOR RELATED PROGRAM, DTA/ MRP

Associate Direct Transfer Agreement Major Related Program (MRP) pathways are transfer associate pathways outlining the appropriate courses in order for students to be well prepared to enter a major upon transfer-Major Related Program (MRP) pathways follow one of the two Washington statewide transfer agreements-the Associate in Arts DTA format or the Associate in Science-Transfer (AS-T) format with courses chosen to following a specific major.

BIOLOGY, DTA/MRP

PLANNING GUIDE – TRANSFER DEGREE

Overview

The Associate in Biology Direct Transfer Agreement/Major Related Program degree is intended to prepare students

to transfer to Washington's public four-year colleges and universities and many private colleges with junior standing and the majority of the prerequisites for a Biology major completed.

Selecting and planning courses with a science advisor is strongly recommended to ensure a seamless transition to a Biology major program at a specific university or four-year college. Students are encouraged to check with the transfer institution early in their decision process to confirm degree requirements of baccalaureate college of choice.

Sample career options include–

- **Molecular and Cellular Biologists**
- **Biological Science Teachers, Postsecondary**
- **Biological Technicians**
- **Environmental Restoration Planners**

NOTES ON APPLICATION TO A UNIVERSITY OR COLLEGE

1. Admission application deadlines vary; students must meet the deadline for the university or universities to which they plan to apply for transfer admission.
2. Certain schools may have additional - university-specific requirements that are not prerequisites to admission to the Biology major, but will need to be completed prior to graduation. Contact with advisors from individual schools for institutional requirements is highly recommended since this DTA may not meet every institution-specific graduation requirement.
3. Certain schools may have additional - university-specific requirements for admission to the institution that are not prerequisites specifically identified in the DTA requirements.

Transfer

If you are considering a major in Biology and transferring to one of the following universities...

- **Central Washington University**
- **Eastern Washington University**
- **University of Washington**
- **Washington State University**
- **Western Washington University**

Our Transfer Program Planning Guide is designed to provide you with recommended courses to complete your Biology Direct Transfer/MRP degree. The Biology Major Related Program (MRP) helps prepare you to transfer by requiring specific courses in the first two years that can reduce the time it takes to complete the bachelor's degree in Biology. Of course, educational plans may vary, based on which quarter you begin, how many credits are taken, placement into Math and English, and your preferred transfer institution.

Degree Requirements

General Education Learning Outcomes,pp 150-151.
Program Learning Outcomes, p 149

- *An ampersand (&) denotes Common Course Numbering*
- Courses with an asterisk (*) indicate labs.

Students must complete a minimum of 90 credits in transferable courses numbered 100 or above which include General Education courses with a cumulative GPA of 2.0. At least 25 college-level credits must be earned at SVC with a minimum GPA of 2.0. Additional General Education Requirement (GERs) must be completed at the four-year school where the student transfers.

1. First Quarter Experience (2 cr.)

- CSS 103 - First Quarter Experience (2)

2. Communications Skills (10 cr.)

- ENGL& 101 - English Composition I (5)
- ENGL& 102 - Composition II (5)
  or ENGL& 235 - Technical Writing (5)

  Note: An English Learning Community combined with a science or other required course is recommended.

3. Quantitative Skills (5 cr.)

- MATH& 151 - Calculus I (5)
  or MATH& 146 - Introduction to Stats (5)

  Note: Students are encouraged to check with the transfer institution early in their decision process to confirm requirements.

4. Integrative Learning Experiences

Two Integrative Learning Experiences (ILE) are required. One ILE must be a *Learning Community*. The second ILE may be another Learning Community or an *Integrative Experience*.

- A *Learning Community* (LC) is the integrated combination of two or more courses from different areas of inquiry (e.g. sociology and literature, or physics and math, or speech and economics, or composition and philosophy). Learning Communities are indicated in the course schedule.
- *Integrative Experiences* (IEs) are curricular or co-curricular experiences designed by faculty in which students demonstrate their ability to integrate information, concepts, analytical frameworks, and skills from two or more areas of inquiry in a purposeful project or experience. Integrative Experiences that are classes are indicated in the course schedule; co-curricular IEs are indicated in promotion and advising for the experience or project. Students may design a Learning into Action IE under the guidance of the supervising faculty member.

  Note: *Learning Communities specifically designed for this degree may be offered; consult your advisor for information.*

5. Diversity Requirement

At least one Diversity Intensive course is required. Students should use the SVC online quarterly class schedule search or consult their faculty advisor or counselor to identify courses that fulfill this requirement.

6. Distribution Requirements (60 cr.)

Go to Distribution Lists-AA-DTA, pp 140-142, for a full selection of eligible courses.

Select credits from three areas of study: *Natural Science*, *Social Science,* and *Humanities*. These courses may also satisfy Integrative Learning Experience requirements. A

specific course may be credited toward no more than one distribution requirement.

A. Natural Sciences (30 cr.)

Students should take the full year sequences at a single college.

- BIOL& 221 - Majors Ecology/Evolution (5) *
- BIOL& 222 - Majors Cell/Molecular Biology (5) *
- BIOL& 223 - Majors Organismal Physiology (5) *
- CHEM& 161 - General Chemistry w/Lab I (5) *
- CHEM& 162 - General Chemistry w/Lab II (5) *
- CHEM& 163 - General Chemistry w/Lab III (5) *

B. Social Sciences (15 cr.)

Students are encouraged to consult with their faculty advisor or counselor regarding the SVC courses that best support or may be required as prerequisites to their Biology curriculum at their intended transfer college.

Select courses from the Associate in Arts-Direct Transfer Agreement degree Social Science distribution list from at least two disciplines, with no more than 10 credits from one discipline. These courses may also satisfy Integrative Learning Experience requirements.

C. Humanities (15 cr.)

Students are encouraged to consult with their faculty advisor or counselor regarding the SVC courses that best support or may be required as prerequisites to their Biology curriculum at their intended transfer college.

Select courses from the Associate in Arts-Direct Transfer Agreement degree Humanities distribution list from at least two disciplines, with no more than 10 credits from one discipline. These courses may also satisfy Interdisciplinary course requirements.

No more than 5 credits may be applied in world languages at the 100 level. No more than 5 cr. may be applied in performance/skill studio courses.

7. Electives (15 -18 cr.)

Electives allow students to include additional courses to prepare for the biology major based college selection. Examples include a full year sequence of organic chemistry for majors; a full year sequence of physics for science majors; or further math at the pre-calculus level or above or statistics. Students should check with the transfer institution prior to taking any further biology courses beyond the one-year sequence. Some colleges require all continuing biology courses be taken at the 300 level. A maximum of five non-transferable **Gray Area credits, pp 147-148,** may be applied toward the 90-credit minimum for the degree.

Full year sequence of organic chemistry for majors:

- CHEM& 241 - Organic Chemistry I (4)
- CHEM& 242 - Organic Chemistry II (4)
- CHEM& 243 - Organic Chemistry III (3)
- CHEM& 251 - Organic Chemistry Lab I (2) *
- CHEM& 252 - Organic Chemistry Lab II (2) *

or **full year sequence of physics for science majors:**

- PHYS& 231 - Engineering Phys Lab I (1) * and
- PHYS& 241 - Engineering Physics I (5)
- PHYS& 232 - Engineering Phys Lab II (1) * and
- PHYS& 242 - Engineering Physics II (5)
- PHYS& 233 - Engineering Phys Lab III (1) * and
- PHYS& 243 - Engineering Physics III (5)

or **Math prerequisites for Calculus and Statistics:**

- MATH& 141 - Precalculus I (5)
- MATH& 142 - Precalculus II (5)
- MATH& 146 - Introduction to Stats (5)

Program Map

Program Maps are an integral part of the Planning Guide. Each Program Map includes a recommended quarterly sequence of courses for a full-time student to earn this degree within two years. The courses align with the appropriate number of credits to meet degree requirements and is designed to help you create an individualized, customized Educational Plan, required of all SVC students. Please consult with an SVC Advisor to schedule courses and develop your personal Educational Plan.

97 credits

FIRST YEAR

1st Quarter

- CHEM& 161 - General Chemistry w/Lab I (5)
- CSS 103 - First Quarter Experience (2)
- ENGL& 101 - English Composition I (5)
- MATH& 141 - Precalculus I (5)

TOTAL CREDITS: 17

2nd Quarter

- CHEM& 162 - General Chemistry w/Lab II (5)
- ENGL& 102 - Composition II (5)
- MATH& 142 - Precalculus II (5)

TOTAL CREDITS: 15

3rd Quarter

- BIOL 295 - Biology Integrative Experience Seminar (2)
- CHEM& 163 - General Chemistry w/Lab III (5)
- MATH& 151 - Calculus I (5)
- Social Science Course (5)

  Suggested: ANTH& 206, ECON 101, GEOG& 100, PSYC& 100, POLS& 101, or SOSC 100. Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.

TOTAL CREDITS: 17

SECOND YEAR

4th Quarter

- BIOL& 221 - Majors Ecology/Evolution (5)
- CMST& 220 - Public Speaking (5)
- MATH& 146 - Introduction to Stats (5)

TOTAL CREDITS: 15

5th Quarter

- BIOL& 222 - Majors Cell/Molecular Biology (5)
- CHEM 295 - Chemistry Integrative Experience Seminar (2)
- Social Science Course (5) preferably in Learning Community format.

  Suggested: ANTH& 206, ECON 101, GEOG& 100, PSYC& 100, POLS& 101, or SOSC 100. Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.

- Humanities Course (5) preferably in Learning Community format. **Suggested: ART& 100, DRMA& 101, ENGL& 112, ENGL 115, MUSC& 105, PHIL& 101, PHIL 215, or World Language.** Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.

TOTAL CREDITS: 17

6th Quarter

- BIOL& 223 - Majors Organismal Physiology (5)
- PE Activity (1)
- Social Science Course (5) preferably in Learning Community format. **Suggested: ANTH& 206, ECON 101, GEOG& 100, PSYC& 100, POLS& 101, or SOSC 100.** Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.
- Humanities Course (5) preferably in Learning Community format. **Suggested: ART& 100, DRMA& 101, ENGL& 112, ENGL 115, MUSC& 105, PHIL& 101, PHIL 215, or World Language.** Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.

TOTAL CREDITS: 16

BUSINESS, DTA/MRP

PLANNING GUIDE – TRANSFER DEGREE

Overview

The business world today moves quickly. Always changing, always evolving. To succeed there, you need to be prepared. It is competitive, exciting, and global-offering countless opportunities for innovation. Whether you are interested in pursuing a career in management, sales, accounting, finance, human resources or marketing, SVC can help you get started.

The Associate in Business Direct Transfer Agreement/Major Related Program (BUS DTA/MRP) degree is designed for students who are majoring in Business and transferring within Washington State. Completion of this degree fulfills lower division general education requirements for completion of a bachelor's degree and prerequisites for the Business major.

Sample career options include–

- **Accountant**
- **Financial Examiner**
- **Marketing Manager**
- **Human Resource Specialist**

Transfer

If you are considering a major in Business and transferring to...

- **Central Washington University**
- **Eastern Washington University**
- **Evergreen State College**
- **University of Washington**
- **Washington State University**
- **Western Washington University**

Our Transfer Program Planning Guide is designed to provide you with recommended courses to complete your Business Direct Transfer Agreement, Major Related Program degree. The Business Major Related Program (MRP) helps prepare you to transfer by requiring specific courses in the first two years that can reduce the time it takes to complete the bachelor's degree in Business. Of course, educational plans may vary, based on which quarter you begin, how many credits are taken, placement into Math and English, and your preferred transfer institution. To keep you on the best pathway, we encourage you to consult with an Academic Advisor for scheduling options.

Degree Requirements

General Education Learning Outcomes, pp 149-150.
Program Learning Outcomes, p 149

An ampersand (&) denotes Common Course Numbering

Students must complete a minimum of 90 quarter credits in transferable courses numbered 100 or above with a cumulative grade point average of at least 2.0 in order to graduate from SVC with an Associate in Business Degree. At least 25 college-level credits of the 90 credits must be earned at SVC. Credits must satisfy course requirements listed below. Students should contact potential transfer institutions regarding specific requirements where options are listed.

1. First Quarter Experience (5 cr.)

- BUS& 101 - Introduction to Business (5)

2. Communication Skills (10 cr.)

- ENGL& 101 - English Composition I (5)
- ENGL& 102 - Composition II (5)

Note: *EWU requires the second composition course be equivalent to EWU's English 201-College Composition: Analysis, Research, and Documentation.*

3. Quantitative Skills (5 cr.)

- MATH& 148 - Business Calculus (5)

Note: *An additional five credits may include finite math or pre-calculus prerequisites for calculus or other course to prepare for business calculus. See Natural Sciences, below, for preferred math course.*

4. * Physical Education (3 cr.)

- PE 100 - Wellness For Life (1)
  and two PE activity courses (2)

  or ***one of the following options:***
  - PE 103 - Wellness Movement (2)
    and one PE activity course (1)
  - PE 190 - Weight Control Movement (1)
    and one PE activity course (1)

* Excluded activity courses: PE 200, PE 204, and PE 205

5. Integrative Learning Experiences (2 Required)

Two Integrative Learning Experiences (ILE) are required. One ILE must be a *Learning Community.* The second ILE may be another Learning Community or an *Integrative Experience*.

- A *Learning Community* (LC) is the integrated combination of two or more courses from different areas of inquiry (e.g. sociology and literature, physics and math, etc.) Learning Communities are indicated in the course schedule.
- *Integrative Experiences* (IEs) are typically seminar courses in which students use an interdisciplinary approach for a specific topic or current issue (e.g. Ethics in Science). Integrative Experience seminars are indicated in the course schedule.

Note: *Integrative Learning Experiences specifically designed for this degree may be offered; consult your advisor for information.*

Recommended:

- MATH& 146 - Introduction to Stats and NUTR& 101 - Nutrition (10)
- BUS 295 - Business Integrated Experience Seminar (2)

6. Diversity Requirement

At least one Diversity Intensive course is required. Students should use the SVC online quarterly class schedule search or consult with their faculty advisor or counselor to identify courses that fulfill this requirement.

7. Distribution Requirements (45 cr.)

Select credits from three areas of study: Natural Science, Social Science and Humanities. Eligible courses for each distribution area are listed in the Associate in Arts - Direct Transfer Agreement Distribution Lists, pp 157-160. These courses may also satisfy the Integrative Learning Experiences or Diversity requirement.

A. Natural Sciences (15 cr.)

Select from at least two disciplines. No more than 10 credits allowed from any one discipline. Five credits in statistics (business statistics preferred). At least 10 credits in in physical, biological and/or Earth science, including at least one lab course. See Natural Sciences in the Associate in Arts-Direct Transfer Agreement degree distribution list, pp 157-160.

- MATH& 146 - Introduction to Stats (5)

Note: Students intending the manufacturing management major at WWU should consult WWU regarding the selection of natural science courses required for admission to the major.

B. Social Sciences (15 cr.)

- BUS& 201 - Business Law (5)
- ECON& 201 - Micro Economics (5)
- ECON& 202 - Macro Economics (5)

Note: Students should contact their potential transfer institutions for advice on which additional social science course to take.

C. Humanities (15 cr.)

See Humanities in the AA-DTA degree distribution list, pp 141-144.

Select from at least two disciplines. No more than 10 credits allowed from any one discipline. No more than 5 credits in foreign language at the 100 level. No more than 5 credits in the performance/skills courses allowed.

- CMST& 220 - Public Speaking (5)
- 10 credits of Humanities.

Note: Students intending the international business major should consult their potential transfer institutions regarding the level of world language required for admission to the major. Students are encouraged to include a speech or oral communication course (not small group communication).

8. Required Business Core Courses (15 cr.)

Required business courses for all transfer institutions:

- ACCT& 201 - Prin of Accounting I (5)
- ACCT& 202 - Prin of Accounting II (5)
- ACCT& 203 - Prin of Accounting III (5)

9. Electives (7-10 cr.)

- BUS 120 - Business Computers and Applications (5) recommended. This class may be required at transfer institution; check with SVC advisor.

  Note: *Students should contact their potential transfer institutions for advice on which general elective course to take. Gonzaga, PLU, WSU, and WWU have requirements for admission to the major that go beyond those specified above. Students can meet these requirements by careful selection of electives that are equivalent to the following:*

  - **WSU (all campuses):** *Management Information Systems, MIS 250.*
  - **WWU:** *Introduction to Business Computer Systems, MIS 220.*

Program Map

Program Maps are an integral part of our Planning Guide. Each Program Map includes a suggested quarterly sequence of courses so you could earn your degree within two years of full-time study. Your Program Map is also designed to help you create an individualized, customized Educational Plan, which is required of all SVC students. To start creating your Educational Plan, please consult with an Academic Advisor.

95 Credits

FIRST YEAR

1st Quarter

- ACCT& 201 - Prin of Accounting I (5)
- BUS& 101 - Introduction to Business (5)
- ENGL& 101 - English Composition I (5)

TOTAL CREDITS: 15

2nd Quarter

- ACCT& 202 - Prin of Accounting II (5)
- ENGL& 102 - Composition II (5)
- PE 100 - Wellness For Life (1)
- Elective (5)

  Suggested: BUS 120 Business Computers and Applications. Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.

TOTAL CREDITS: 16

3rd Quarter

- ACCT& 203 - Prin of Accounting III (5)
- MATH& 146 - Introduction to Stats (5)
- Natural Sciences course (5) with lab, preferably in Learning Community format.

  Suggested: NUTR& 101 - Nutrition. Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.
- PE Activity (1)

  Suggested: PE 133, PE 144, PE 148, or PE 149

TOTAL CREDITS: 16

SECOND YEAR

4th Quarter

- CMST 205 - Intercultural Communication: D (5)

- ECON& 201-Micro Economics (5)
- MATH& 141-Precalculus I (5)

TOTAL CREDITS: 15

5th Quarter

- ECON& 202-Macro Economics (5)
- ENVC 165-Sustainability Fundamentals (5)
- PHIL 215-Introduction to Ethics (5)
- PE Activity (1)
  Suggested: PE 133, PE 144, PE 148, or PE 149

TOTAL CREDITS: 16

6th Quarter

- BUS& 201-Business Law (5)
- BUS 295-Business Integrated Experience Seminar (2)
- CMST& 220-Public Speaking (5)
- MATH& 148-Business Calculus (5)

TOTAL CREDITS: 17

COMPUTER SCIENCE, DTA/MRP

PLANNING GUIDE – TRANSFER DEGREE

Overview

The Associate in Computer Science Direct Transfer Agreement/ Major Related Program pathway is applicable to students planning to prepare for computer science and related majors at universities and colleges in Washington. This pathway meets all of the requirements of the Associate of Arts Direct Transfer Agreement, AA-DTA, p 37. Computer science programs are competitive and this pathway intends to provide students with the needed information to optimize their coursework to meet the DTA and prepare for computer science and related majors at universities and colleges in Washington.

Sample career options include–

- **Computer Programmers**
- **Computer and Information Systems Managers**
- **Network and Computer Systems Administrators**

Transfer

If you are considering a major in Computer Science and transferring to one of the following universities:

- **Central Washington University**
- **Eastern Washington University**
- **University of Washington**
- **Washington State University**
- **Western Washington University**

Our Transfer Program Planning Guide is designed to provide you with recommended courses to complete your Computer Science Direct Transfer/MRP degree. The Computer Science Major Related Program (MRP) helps prepare you to transfer by requiring specific courses in the first two years that can reduce the time it takes to complete the bachelor's degree in Computer Science. Of course, educational plans may vary, based on which quarter you begin, how many credits are taken, placement into Math and English, and your preferred transfer institution. To keep you on the best pathway, we encourage you to consult with an Academic Advisor for scheduling options.

Degree Requirements

General Education Learning Outcomes, pp 149-150.
Program Learning Outcomes, p 149

An ampersand (&) denotes Common Course Numbering

Students must complete a minimum of 90 quarter credits in transferable courses numbered 100 or above with a cumulative grade point average of at least 2.0 in order to graduate from SVC with an Associate in Computer Science. At least 25 college-level credits of the 90 credits must be earned at SVC. Credits must satisfy course requirements listed below. Students should contact potential degree institutions regarding specific requirements where options are listed.

1. **First Quarter Experience (2 cr.)**
   - CSS 103 - First Quarter Experience (2)
2. **Communication Skills (10 cr.)**
   - **EWU** requires ENGL& 102-Composition II (5)
   - **Whitworth** requires CMST 141-Oral Interpretation of Literature (5)
3. **Quantitative Skills (5 cr.)**
   - MATH& 151 - Calculus I (5)
4. **Integrative Learning Experiences**

   Two Integrative Learning Experiences (ILE) are required. One ILE must be a *Learning Community.* The second ILE may be another Learning Community or an *Integrative Experience*.
   - A *Learning Community* (LC) is the integrated combination of two or more courses from different areas of inquiry (e.g. sociology and literature, or physics and math, or speech and economics, or composition and philosophy). Learning Communities are indicated in the course schedule.
   - *Integrative Experiences* (IEs) are curricular or co-curricular experiences designed by faculty in which students demonstrate their ability to integrate information, concepts, analytical frameworks, and skills from two or more areas of inquiry in a purposeful project or experience. Integrative Experiences that are classes are indicated in the course schedule; co-curricular IEs are indicated in promotion and advising for the experience or project. Students may design a Learning into Action IE under the guidance of the supervising faculty member.

     Note: *Learning Communities specifically designed for this degree may be offered; consult your advisor for information.*
5. **Diversity Requirement**

   At least one Diversity Intensive course is required. Students should use the SVC online quarterly class schedule search or consult their faculty advisor or counselor to identify courses that fulfill this requirement.
6. **Distribution Requirements (45 cr.)**

   Select credits from three areas of study: Natural Science, Social Science and Humanities. Eligible courses for each distribution area are listed in the Associate in Arts-Direct Transfer Agreement Distribution Lists, pp 157-160.

   A. Natural Sciences (15 cr.)

   Select from at least two disciplines. No more than 10 credits allowed from any one discipline. At least 10 credits

in physical, biological and/or Earth sciences. Shall include at least one laboratory course. Five credits Engineering Physics 1 with lab and five credits Engineering Physics 2 with lab required.

- **UW Tacoma** requires MATH& 146 instead of MATH& 152
- For Natural Science requirements, **UW Tacoma** will accept any 5-6 credit lab-based science course instead of only PHYS& 222.

B. Social Sciences Requirement (15 cr.)

Selected from at least two disciplines. No more than 10 credits allowed from any one discipline.

WSU Vancouver requires:

- ECON& 201 - Micro Economics
  or ECON& 202 - Macro Economics (5)

C. Humanities Requirement (15 cr.)

Selected from at least two disciplines. No more than 10 credits allowed from any one discipline. No more than 5 credits in foreign language at the 100 level. No more than 5 credits allowed in performance/skills courses.

- **EWU** and **Gonzaga** require PHIL 215 - Introduction to Ethics (5)

7. Major Requirements (15-20 cr.)

- Five credits of Computer Programming 1 and five credits of Computer Programming II required. Five to ten credits in Calculus III required.
- **CWU, UW Seattle, UW Bothell, UW Tacoma prefer:** CS 142 - Java Programming I and CS 143 - Java Programming II
- **WSU Tri-Cities prefer:** CS 210 - C++ Programming I and CS 211 - C++ Programming II
- **Other institutions:** require two courses in either C++ or Java
- **UW Bothell** requires Statistics instead of Calculus III
- **WSU (all campuses)** requires Calculus III (MATH& 153 and MATH& 254).

8. University Specific Requirements (10-15 cr.)

- **EWU:** MATH 204 (5)
- **WWU, WSU:** PHYS& 243 and PHYS& 233 (6)
- **WSU:** Physical, Biological, and/or Earth Science with lab (5)

9. Electives (5-20)

No more than 15 credits may be from restricted subject areas. Should be planned with the help of an advisor based on the student's interests, the intended major, and the preferences of the most likely baccalaureate institution.

ADVISING NOTES

- **WSU Pullman and WSU Tri-Cities:** Recommends macro or micro economics to meet five credits of the social science requirement
- **WSU (all campuses):** Recommends discrete structures. Discrete Structures is a certification course for computer science and as such is required for admittance to the computer science program.

Program Map

This program map is provided as a guide for a traditional full-time student whose goal is to earn the Computer Science, Direct Transfer Agreement/MRP, Planning Guide degree. The courses are designed with the appropriate number of credits to meet degree requirements and are organized in a recommended sequence. Please consult with an SVC advisor to schedule courses and develop an educational plan.

90 Credits

FIRST YEAR

1st Quarter

- CS 101 - Computers, Technology and Society (5)
- CSS 103 - First Quarter Experience (2)
- MATH& 151 - Calculus I (5)

TOTAL CREDITS: 12

2nd Quarter

- CS 142 - Java Programming I (5)
- ENGL& 101 - English Composition I (5)
- MATH& 152 - Calculus II (5)

TOTAL CREDITS: 15

3rd Quarter

- CS 143 - Java Programming II (5)
- MATH& 153 - Calculus III (5)
- PHIL 215 - Introduction to Ethics (5)

TOTAL CREDITS: 15

SECOND YEAR

4th Quarter

- ECON& 201 - Micro Economics (5)
- PHYS& 241 - Engineering Physics I (5)
- PHYS& 231 - Engineering Phys Lab I (1)
- Social Sciences course (5)
  Suggested: HIST& 116, HIST& 117, HIST& 118, HIST& 146, HIST& 147, HIST& 148, POLS& 101, POLS& 202, PSYC& 100 or SOC& 101. Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.

TOTAL CREDITS: 16

5th Quarter

- PHYS& 242 - Engineering Physics II (5)
- PHYS& 232 - Engineering Phys Lab II (1)
- Elective (5)
  Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.
- Humanities course (5), preferably in Learning Community format.
  Suggested: DRMA& 101, MUSC& 105 or PHIL& 101. Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.

TOTAL CREDITS: 16

6th Quarter

- ENGL& 235 - Technical Writing (5)
- PHYS& 243 - Engineering Physics III (5)
- PHYS& 233 - Engineering Phys Lab III (1)
- Humanities course (5), preferably in Learning Community format.
  Suggested: DRMA& 101, MUSC& 105 or PHIL& 101. Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.

TOTAL CREDITS: 16

MUSIC, DTA/MRP

PLANNING GUIDE – TRANSFER DEGREE

Overview

SVC offers a number of music courses for the major and non-major. The student who wishes to major in music should meet with Dr. Diane Johnson and plan a two-year program that will meet his or her transfer needs. Be aware that when transferring to a four-year school or to a music conservatory, students will be asked to take a music theory placement test as well as a piano proficiency examination. Your academic preparation for a music major should include music theory and piano study as well as ear training. Music majors are expected to practice their craft all four years of college and not just in junior and senior years as with some other majors. Because of this, careful academic planning is advised.

Our Associate in Music, DTA/MRP degree, based on the state-wide DTA/MRP music degree, is especially designed for music majors.

Performing ensembles are also an important part of your musical development. SVC offers many opportunities to perform on campus as well as out in the community with some of our community ensembles. Contact Dr. Diane Johnson at diane.johnson@skagit.edu or 360.416.7655 for more details.

For non-music majors who love to sing or play an instrument, we offer 2 choirs: MUSC 137 and MUSC 138 (auditioned only), a Mariachi Ensemble MUSC 165 , and a number of music classes in various areas that include Jazz: America's Artform: D; History of Rock and Roll: D; Music Appreciation, and World Music: D. These music courses may satisfy some of your required 15-20 credits of studies in the arts. Check with your counselor for more details.

Sample career options include–

- **Musicians, Instrumental**
- **Singers**
- **Elementary School Teachers**

Transfer

Students completing the Associate in Music DTA/MRP who have also met any specific institutional GPA, performance, and audition requirements will be regarded as having met the minimum preparation for consideration for admission to a baccalaureate Music program. Performance requirements refers not only to performance on instrument or voice, but also mastery of theoretical concepts and piano skills often acquired through private lessons. Although this degree will be granted to SVC students completing a cumulative 2.0 GPA, minimum grade-point average requirements are established by each institution. Meeting the minimum requirements does not guarantee admission. Music programs are competitive and may require a higher GPA overall, a higher GPA in a selected subset of courses or a specific minimum grade in one or more courses.

1. Admission application deadlines vary; students must meet the deadline for the university or universities to which they plan to apply for transfer admission.
2. Certain schools may have additional "university-specific" requirements for admission to the institution that are not prerequisites specifically identified in the DTA requirements.
3. Certain colleges and university might have "university-specific" requirements for graduation (ex: institutional residency requirements). Students are advised to consult their destination college or university.

The SVC Music DTA/MRP transfers to Central Washington, Eastern Washington, UW Seattle, Western Washington, and WSU Pullman.

Degree Requirements

General Education Learning Outcomes, pp 149-150
Program Learning Outcomes, p 149

An ampersand (&) denotes Common Course Numbering

Students must complete a minimum of 102 quarter credits in transferable courses numbered 100 or above with a cumulative grade point average of at least 2.0 in order to graduate from SVC with an Associate in Music Direct Transfer Degree. At least 25 college-level credits must be earned at SVC. Credits must satisfy course requirements listed below.

1. Communication Skills (10 cr.)

- ENGL& 101-English Composition I
- ENGL& 102-Composition II (5)
  or CMST& 220-Public Speaking (5)

2. Quantitative Skills (5 cr.)

- MATH& 107-Math in Society (5) or higher

3. Integrative Learning Experiences

Two Integrative Learning Experiences (ILE) are required. One ILE must be a *Learning Community*. The second ILE may be another Learning Community or an *Integrative Experience*.

- A *Learning Community (LC)* is the integrated combination of two or more courses from different areas of inquiry (e.g. sociology and literature, or physics and math, or speech and economics, or composition and philosophy). Learning Communities are indicated in the course schedule.
- *Integrative Experiences* (IEs) are curricular or co-curricular experiences designed by faculty in which students demonstrate their ability to integrate information, concepts, analytical frameworks, and skills from two or more areas of inquiry in a purposeful project or experience. Integrative Experiences that are classes are indicated in the course schedule; co-curricular IEs are indicated in promotion and advising for the experience or project. Students may design a Learning into Action IE under the guidance of the supervising faculty member.

4. Diversity Requirement

At least one Diversity Intensive course is required. Students should use the SVC online quarterly class schedule search or consult with their faculty advisor or counselor to identify courses that fulfill this requirement.

5. Distribution Requirements (45 cr.)

Curriculum requirements provide students with an understanding of and sensitivity to cultural differences other than their own is encouraged (required by WSU). This may

include minority, non-Western ethnic, or other "area" studies. Select credits from three areas of study: *Natural Science, Social Science and Humanities*. Eligible courses for each distribution area are listed in the Associate in Arts-Direct Transfer Agreement Distribution Lists, pp 157-160. These courses may also satisfy Integrative Learning Experience requirements. A specific course may be credited toward no more than one distribution requirement.

A. Natural Sciences (15 cr.)

Select from at least two disciplines. No more than 10 credits allowed from any one discipline. At least 10 credits in in physical, biological and/or earth sciences. Must include one lab course.

B. Social Sciences (15 cr.)

Select from at least two disciplines. No more than 10 credits allowed from any one discipline.

C. Humanities (15 cr.)

- MUSC& 141-Music Theory I (5)
- MUSC& 142-Music Theory II (5) (freshman year, 10 credits)
- Five credits in other Humanities discipline.

6. Music Major Courses (42-44 cr.)

A. Music Theory/Ear (20 cr.)

Note: *In-house diagnostic testing and/or auditions might affect the credits accepted in this area. Students are advised to check with the receiving institution.*

- MUSC& 143-Music Theory III (5) (freshman year, 5 cr.)
- MUSC& 241-Music Theory IV (5)
- MUSC& 242-Music Theory V (5)
- MUSC& 243-Music Theory VI (5) (sophomore year, 15 cr.)

B. Music Lessons (6 cr.)

One credit per quarter in instrument or voice for 6 quarters. See your Music department advisor for assistance in selecting courses.

Note: *In-house auditions might affect the credits accepted in this area. Students are advised to check with the receiving institution.*

C. Ensemble (12 cr.)

Select courses from the following with help from your Music department advisor. Courses are repeatable for up to 12 credits.

Note: *Students are advised to check with the receiving institution to assure their college ensemble fulfills the requirement of a 'major ensemble'.*

- MUSC 137-Choir (2)
- MUSC 138-Small Vocal Ensemble (1-5)
- MUSC 146-Symphony Orchestra (1)
- MUSC 147-Skagit Community Band (1)
- MUSC 164-Jazz Ensemble (1-3)

D. Piano (3-6 cr.)

Note: *The number of credits required in this area remains a local decision. Receiving institutions retain the ability to complete diagnostic testing for piano proficiency.*

- MUSC 111-Class Piano I (3)
- MUSC 113-Intermediate Piano (3)
- MUSC 213-Advance Piano Class (3)

Note: Piano placement test will determine course placement. Piano majors may be exempt from this requirement.

Program Map

Program Maps are an integral part of our Planning Guide. Each Program Map includes a suggested quarterly sequence of courses so you could earn your degree within two years of full-time study. Your Program Map is also designed to help you create an individualized, customized Educational Plan, which is required of all SVC students. To start creating your Educational Plan, please consult with an Academic Advisor.

104 Credits

FIRST YEAR

1st Quarter

- ENGL& 101-English Composition I (5)
- MUSC 111-Class Piano I (3)
- MUSC& 141-Music Theory I (5)
- Ensemble (2)
  Choose from the following:
  - MUSC 137-Choir (2)
  - MUSC 138-Small Vocal Ensemble (1-5)
  - MUSC 146-Symphony Orchestra (1)
  - MUSC 147-Skagit Community Band (1)
  - MUSC 164-Jazz Ensemble (1-3)
- Lesson (1)

TOTAL CREDITS: 16

2nd Quarter

- CMST& 220-Public Speaking (5)
- MATH& 107-Math in Society (5)
  or ***one of the following:***
  - MATH& 14 - Precalculus I1
  - MATH& 146 - Introduction to Stats
- MUSC& 142-Music Theory II (5)
- Ensemble (2)
  Choose from the following:
  - MUSC 137-Choir (2)
  - MUSC 138-Small Vocal Ensemble (1-5)
  - MUSC 146-Symphony Orchestra (1)
  - MUSC 147-Skagit Community Band (1)
  - MUSC 164 - Jazz Ensemble
- Lesson (1)

TOTAL CREDITS: 18

3rd Quarter

- MUSC& 143-Music Theory III (5)
- Humanities course (5), preferably in Learning Community format.
  Suggested: DRMA& 101 or DRMA 133. Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.

- Social Sciences course (5), preferably in Learning Community format.
  Suggested: EDUC& 202 or PSYC& 200. Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.
- Ensemble (2)
  Choose from the following:
  - MUSC 137 - Choir (2)
  - MUSC 138 - Small Vocal Ensemble (1-5)
  - MUSC 146 - Symphony Orchestra (1)
  - MUSC 147 - Skagit Community Band (1)
  - MUSC 164 - Jazz Ensemble (1-3)
- Lesson (1)
  TOTAL CREDITS: 18

SECOND YEAR

4th Quarter

- MUSC& 241 - Music Theory IV (5)
- Natural Sciences course (5), preferably in Learning Community format.
  Suggested: NUTR& 101. Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.
- Social Sciences course (5), preferably in Learning Community format.
  Suggested: PSYC& 100. Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.
- Ensemble (2)
  Choose from the following:
  - MUSC 137 - Choir (2)
  - MUSC 138 - Small Vocal Ensemble (1-5)
  - MUSC 146 - Symphony Orchestra (1)
  - MUSC 147 - Skagit Community Band (1)
  - MUSC 164 - Jazz Ensemble (1-3)
- Lesson (1)
  TOTAL CREDITS: 18

5th Quarter

- MUSC& 242 - Music Theory V (5)
- Natural Sciences course (5), preferably in Learning Community format.
  Suggested: Distribution Lists - AA-DTA. Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.
- Social Sciences course (5), preferably in Learning Community format.
  Suggested: PSYC& 200 or EDUC& 202. Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.
- Ensemble (2)
  Choose from the following:
  - MUSC 137 - Choir (2)
  - MUSC 138 - Small Vocal Ensemble (1-5)
  - MUSC 146 - Symphony Orchestra (1)
  - MUSC 147 - Skagit Community Band (1)
  - MUSC 164 - Jazz Ensemble (1-3)
- Lesson (1)
  TOTAL CREDITS: 18

6th Quarter

- MUSC 213 - Advance Piano Class (3)
- MUSC& 243 - Music Theory VI (5)
- Natural Sciences course (5), preferably in Learning Community format.
  Suggested: Distribution Lists - AA-DTA. Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.
- Ensemble (2)
  Choose from the following:
  - MUSC 137 - Choir (2)
  - MUSC 138 - Small Vocal Ensemble (1-5)
  - MUSC 146 - Symphony Orchestra (1)
  - MUSC 147 - Skagit Community Band (1)
  - MUSC 164 - Jazz Ensemble (1-3)
- Lesson (1)
  TOTAL CREDITS: 16

NURSING PROGRAM

OVERVIEW

Program

The Nursing (NURS) program at Skagit Valley College (SVC) prepares students for a lifelong career in nursing practice. Nursing is one of the most diverse and exciting careers in today's health care field. It provides unlimited opportunities and numerous benefits for those who enter the profession. Nurses are employed in a variety of settings including hospitals, extended care centers, home health care agencies, physicians' offices, mental health facilities, and corrections. New technologies are continually developing in the health care field, offering exciting and challenging career opportunities.

Nursing is a demanding, rewarding profession that requires strong communication skills, excellent problem-solving abilities, focused concentration when performing a task, attention to detail, the ability to work well with others, and extensive knowledge of the sciences.

Sample career options include–

- **Registered Nurse**
- **Critical Care Nurse**
- **Acute Care Nurse**

Learning Outcomes

General Education Learning Outcomes, pp 149-150

PROGRAM LEARNING OUTCOMES

The nursing philosophy supports the student learner outcomes of Human Flourishing, Nursing Judgment, Professional Identity and Spirit of Inquiry:

- **Human Flourishing:** Advocate for patients and families in ways that promote their self-determination, integrity, and ongoing growth as human beings.
- **Nursing Judgment:** Make judgments in practice, substantiated with evidence, that integrate nursing science in the provision of safe, quality care and promote the health of patients within a family and community context.
- **Professional Identity:** Implement one's role as a nurse in ways that reflect integrity, responsibility, ethical practices, and an evolving identity as a nurse committed to evidence-

based practice, caring, advocacy, and safe, quality care for diverse patients within a family and community context.

- **Spirit of Inquiry:** Examine the evidence that underlies clinical nursing practice to challenge the status quo, question underlying assumptions, and offer new insights to improve the quality of care for patients, families, and communities.

The nursing process is foundational to the curricular framework defined by the *National League for Nursing (2010)* and adopted by Skagit Valley College ADN program. The nursing process consists of Assessment, Diagnosis, Planning, Implementation and Evaluation.

NURSING CURRICULUM AND GRADUATE OUTCOMES

The curriculum includes a strong foundation in communication, biological and social sciences, general education and nursing courses. Students integrate theory and practice throughout the nursing program by combining their classroom work with skills laboratory and clinical experiences. The curriculum design reflects the nursing mission, philosophy, and program objectives. Faculty adopted the NLN Core Components and Competencies for Associate Degree Graduates (NLN 2010) as the organizing framework for the program. Each component was defined by SVC faculty. Competencies for each course and for SVC ADN students were developed. The curriculum design provides the foundation for nursing theory course content, laboratory experiences on campus, patient care experiences in clinical setting, and evaluation of student learning.

The goal of the Nursing Program at SVC is to educate students to practice nursing within varied health care settings. Nursing education will assist the student to promote optimal level of health and wellness for the individual, family and community.

Program Accreditation

Skagit Valley College's Registered Nursing program (RN) is approved by the Washington State Department of Health Nursing Care Quality Assurance Commission (NCQAC). The RN program is nationally accredited by the Accreditation Commission for Education in Nursing (ACEN). For further information, contact the organizations directly:

- NCQAC - 111 Israel Road SE, Tumwater, WA 98501; 360.236.4700; **www.doh.wa.gov**
- ACEN - 3390 Peachtree Road, NE, Suite 1400, Atlanta, GA 30326; 404.975.5000; **www.acenursing.org**

Program Admissions

PREREQUISITES

Required Immunizations Requirements for all Nursing Programs:

1. Negative TB test, OR chest x-ray and clearance by Health Care Provider. Students must provide documentation by the end of first week of class.
2. Current American Heart Association Basic Life Support. A CPR card received through an internet-based training program is not acceptable for this program.
3. Annual Flu vaccine (except summer quarter).
4. Additional immunizations requirements will be discussed if you are accepted into the RN or LPN to RN program.

PROGRAM RE-ENTRY

Students requesting re-entry to the Registered Nursing program must fulfill current re-entry requirements as specified by the SVC Nursing Re-Entry Policy. Re-entry is based on space availability, submission of reapplication materials, and Nursing faculty determination. A student who has a program interruption may be required to repeat some, if not all, nursing program courses if there have been curriculum changes or if the interruption has lasted greater than one year. Students will not be allowed to reenter the SVC Registered Nursing Program at either campus more than once for any reason. An exception will be made for student withdrawal due to military service. A student can apply for re-entry only once. If not granted, a student may not apply for new admission into the program after having been denied re-entry.

Specialized Program Information

CERTIFICATION/LICENSURE

Upon successful completion of the nursing certificate or degree program, Nursing program graduates are eligible to take the National Council Licensure Examination (NCLEX-RN) for registered nursing that is offered by the Washington State Nursing Care Quality Assurance Commission. This computerized examination is individually scheduled at designated testing sites. Successful completion of the examination is required to be licensed as a registered nurse (RN). Passing a national licensing exam from the National Council of State Boards of Nursing (NCLEX-RN for RN) is required prior to working in the field, or pursuing advanced training and education (BSN, etc.) Graduates of the NAC program are eligible to take the Washington State competency examination to become a Certified Nursing Assistant.

SVC has not determined that the Nursing curriculum meets educational requirements for licensure/certification outside of Washington State. Students who plan to work in locations outside of Washington should check local state licensure and certification requirements.

NURSING PROGRAM LOCATIONS

The Nursing programs at SVC are offered at two campus locations: Mount Vernon Campus and Whidbey Island Campus (located in Oak Harbor).

NURSING PROGRAM WEBSITE

For the most current information about the Nursing program, specific program admission requirements, application documents, and deadlines, go to SVC's website at **skagit.edu/nursing**.

Transfer

If you are considering a major in Nursing and transferring to

- **Central Washington University**
- **Eastern Washington University**
- **University of Washington**
- **UW Bothell**
- **Washington State University**
- **Western Washington University**

The Transfer Program Planning Guide is designed to provide you with recommended courses to complete the Nursing Direct Transfer Major Related Program degree. The Nursing Major Related Program (MRP) helps prepare you to transfer by requiring specific courses in the first two years that can reduce the time it takes to complete the bachelor's degree in Nursing. Of course, educational plans may vary, based on which quarter you begin, how many credits are taken, placement into Math and English, and your preferred transfer institution. To keep you on the best pathway, we encourage you to consult with an Academic Advisor for scheduling options.

NURSING, DTA/MRP

PLANNING GUIDE – TRANSFER DEGREE

Overview

The Associate in Nursing Direct Transfer Agreement (DTA/MRP) prepares students who are highly educated, technically advanced, competent and caring individuals to practice professional nursing in a variety of settings. The full-time Registered Nursing program consists of six quarters with summers off. Attendance requirements are daytime lecture and lab classes, and both daytime and evening clinical experiences. Graduates of this program are eligible to take the examination for licensure as a registered nurse (NCLEX-RN). Passing the NCLEX-RN exam and completion of this transfer degree provide the general education and nursing courses for direct transfer with only one additional year of study to complete the Bachelor of Science in Nursing (RN-BSN pathway). Baccalaureate institutions part of this agreement include: Washington State University, University of Washington, Western Washington University, Heritage University, Pacific Lutheran University, Seattle Pacific University, St. Martin's University, and Western Governors University.

All interested students must meet minimum academic qualifications to be considered for admission. Please see the nursing web page at www.skagit.edu/nursing for application requirements; both academic and non-academic.

Note: *Admission to an RN to BSN program may be competitive; therefore, no particular GPA can guarantee admission to any specific program. Certain schools may have additional university-specific requirements for admission to the institution that are not prerequisites specifically identified in the DTA requirements.*

Degree Requirements

General Education Learning Outcomes, pp 149-150

Students must complete 135 quarter credits in transferable courses numbered 100 or above with a cumulative grade point average of at least 2.0 in order to graduate from SVC with an Associate in Nursing DTA/MRP degree. At least 25 college-level credits must be earned at SVC. Credits must satisfy course requirements listed below.

An ampersand (&) denotes Common Course Numbering.
An asterisk (*) indicates lab or skill/studio course.

1. Communication Skills (10 cr.)

Five credits in English composition required. Remaining five credits may be used for an additional composition course or designated writing course or basic speaking skills course (e.g. speech, rhetoric, or debate). Select the five additional credits from the Associate of Arts Direct Transfer Agreement, AA-DTA Communication Skills list (also listed below). May be individualized based on baccalaureate college of choice.

- ENGL& 101 - English Composition I (5)
- ENGL& 102 - Composition II (5) *Strongly recommended; required for some bachelor's degrees*

  or one of the following:
  - CMST& 210 - Interpersonal Communication: D (5)
  - CMST& 220 - Public Speaking (5)
  - CMST& 230 - Small Group Communication: D (1-5)
  - ENGL 103 - Advanced Composition (5)
  - ENGL& 235 - Technical Writing (5)

2. Quantitative Skills (5 cr.)

- MATH& 146 - Introduction to Stats (5)

3. Integrative Learning Experience

Two Integrative Learning Experiences (ILE) are required. One ILE must be a *Learning Community*. The second ILE may be another Learning Community or an *Integrative Experience*.

- *A Learning Community (LC)* is the integrated combination of two or more courses from different areas of inquiry (e.g. sociology and literature, physics and math, etc.) Learning Communities are indicated in the course schedule.
- *Integrative Experiences* (IEs) are typically seminar courses in which students use an interdisciplinary approach for a specific topic or current issue (e.g. Ethics in Science). Integrative Experience seminars are indicated in the course schedule.

This requirement is satisfied by taking:

- SOC 191 - Psychosocial Issues in Healthcare (5)
  and NURS 191 - Nursing OB, Pediatrics, M/S-Skls Prac (3)
  LECTURE

then

- PHIL 291 - Ethics and Policy in Healthcare (5)
  and NURS 291 - Entry Nursing Practice/Practicum (1)
  LECTURE

4. Diversity Requirement

At least one Diversity Intensive course is required. Students should use the SVC online quarterly class schedule search or consult with their faculty advisor or counselor to identify courses that fulfill this requirement.

This requirement is satisfied by taking:

- NURS 171 - Nursing Fundamentals-Skills and Pract: D (7)
  LECTURE
- NURS 172 - Nursing Fundamentals-Skills and Pract: D (2)
  CLINICAL
- NURS 173 - Nursing Fundamentals-Skills and Pract: D (3)
  LAB

5. Distribution Requirements (60 cr.)

Curriculum requirements provide students with an understanding of and sensitivity to cultural differences other than their own is encouraged (required by WSU). This may include minority, non-Western ethnic, or other "area" studies. Select credits from three areas of study: Natural Science, Social Science and Humanities. Eligible courses for each distribution area are listed in the Associate in Arts - Direct Transfer Agreement Distribution Lists, pp 157-160. These courses may also satisfy Integrative Learning Experience requirements. A specific course may be credited toward no more than one distribution requirement.

A. Humanities (15 cr.)

- PHIL 291 - Ethics and Policy in Healthcare (5) *(required)*
- Select 10 credits in courses from at least two disciplines, with no more than 10 credits from one discipline. No more than 5 credits may be applied in world languages at the 100 level. No more than 5 credits may be applied in performance/skill studio courses.

B. Natural Sciences (30 cr.)

- BIOL& 160 - General Biology w/Lab (5) *
- BIOL& 241 - Human Anatomy and Physiology I (5) *
- BIOL& 242 - Human Anatomy and Physiology II (5) *
- BIOL& 260 - Microbiology (5) *
- CHEM& 121 - Introduction to Chemistry (5) *
- NUTR& 101 - Nutrition (5)

Note: *Science courses must have been completed within the last 10 years as of application due date.*

C. Social Sciences (15 cr.)

- PSYC& 100 - General Psychology (5)
- PSYC& 200 - Lifespan Psychology (5)
- SOC 191 - Psychosocial Issues in Healthcare (5)

6. Nursing Core (60 cr.)

- NURS 171 - Nursing Fundamentals-Skills and Pract: D (7) **LECTURE**
- NURS 172 - Nursing Fundamentals-Skills and Pract: D (2) **CLINICAL**
- NURS 173 - Nursing Fundamentals-Skills and Pract: D (3) **LAB**
- NURS 181 - Nursing M/S Patient-Practicum (6) **LECTURE**
- NURS 182 - Nursing M/S Patient-Practicum (5) **CLINICAL**
- NURS 183 - Nursing M/S Patient-Practicum (1) **LAB**
- NURS 191 - Nursing OB, Pediatrics, M/S-Skls Prac (3) **LECTURE**
- NURS 192 - Nursing OB, Pediatrics, M/S-Skls Prac (4) *– concurrent enrollment in SOC 191 (5) required* **CLINICAL**
- NURS 271 - Nursing Advncd OB, Ped, M/S-Skls Prac (5) **LECTURE**
- NURS 272 - Nursing Advncd OB, Ped, M/S-Skls Prac (5) **CLINICAL**
- NURS 273 - Nursing Advncd OB, Ped, M/S-Skls Prac (2) **LAB**
- NURS 281 - Nursing Complx M/S& Geriatric Patient (6) **LECTURE**
- NURS 282 - Nursing Complx M/S& Geriatric Patient (6) **CLINICAL**
- NURS 291 - Entry Nursing Practice/Practicum (1) **LECTURE**
- NURS 292 - Entry Nursing Practice/Practicum (4) *– concurrent enrollment in PHIL 291 (5) required* **CLINICAL**

Program Map

135 credits, full-time

Program Maps are an integral part of the Planning Guide. Each Program Map includes a recommended quarterly sequence of courses for a full-time student to earn this degree within two years. The courses align with the appropriate number of credits to meet degree requirements and is designed to help you create an individualized, customized Educational Plan, required of all SVC students. Please consult with an SVC Advisor to schedule courses and develop your personal Educational Plan.

FIRST YEAR

1st Quarter

- NURS 171 - Nursing Fundamentals-Skills and Pract: D (lecture) (7)
- NURS 172 - Nursing Fundamentals-Skills and Pract: D (clinical) (2)
- NURS 173 - Nursing Fundamentals-Skills and Pract: D (lab) (3)

TOTAL CREDITS: 12

2nd Quarter

- NURS 181 - Nursing M/S Patient-Practicum (lecture) (6)
- NURS 182 - Nursing M/S Patient-Practicum (clinical) (5)
- NURS 183 - Nursing M/S Patient-Practicum (lab) (1)

TOTAL CREDITS: 12

3rd Quarter

- NURS 191 - Nursing OB, Pediatrics, M/S-Skls Prac (lecture) (3)
- NURS 192 - Nursing OB, Pediatrics, M/S-Skls Prac (clinical) (4)
- SOC 191 - Psychosocial Issues in Healthcare (5)

TOTAL CREDITS: 12

SECOND YEAR

4th Quarter

- NURS 271 - Nursing Advncd OB, Ped, M/S-Skls Prac (lecture) (5)
- NURS 272 - Nursing Advncd OB, Ped, M/S-Skls Prac (clinical) (5)
- NURS 273 - Nursing Advncd OB, Ped, M/S-Skls Prac (lab) (2)

TOTAL CREDITS: 12

5th Quarter

- NURS 281 - Nursing Complx M/S and Geriatric Patient (lecture) (6)
- NURS 282 - Nursing Complx M/S and Geriatric Patient(clinical) (6)

TOTAL CREDITS: 12

6th Quarter

- NURS 291 - Entry Nursing Practice/Practicum (lecture) (1)
- NURS 292 - Entry Nursing Practice/Practicum (clinical) (4)
- PHIL 291 - Ethics and Policy in Healthcare (5)

TOTAL CREDITS: 10

PRE-NURSING, DTA/MRP

PLANNING GUIDE – TRANSFER DEGREE

Overview

Students who complete this degree may also choose to apply for entrance into the Associate in Nursing DTA/MRP degree at Skagit Valley College.

The Associate in Pre-Nursing Direct Transfer Agreement or Major Related Program (DTA/MRP) streamlines preparation for the basic BSN pathway by ensuring students complete pre-requisite courses for pre-licensure BSN programs (programs that do not require a nursing license for admission) at participating colleges and universities. Due to high interest and limited space in BSN programs, admission to all BSN programs is highly competitive with many qualified applicants, including non-transfer and transfer students, often finding themselves on admission waiting lists. Therefore, students pursuing the Pre-Nursing DTA/MRP should be informed that their DTA associate degree is highly transferable to all public (and many private) baccalaureate collges and universities.

BSN admission application deadlines vary; students must meet the deadline for the university or universities to which they plan to apply for admission to transfer.

Certain schools may have additional "university-specific" requirements for admission to the institution, not pre-requisites specifically identified in the DTA requirements, which will need to be completed prior to graduation. Contact with advisors from individual schools for institutional requirements is highly recommended since this DTA may not meet every institution-specific graduation requirement.

Sample career options include–

- **Registered Nurse**
- **Critical Care Nurse**
- **Acute Care Nurse**

Transfer

If you are considering a major in Nursing and transferring to...

- **Pacific Lutheran University**
- **Seattle Pacific**
- **Seattle University**
- **University of Washington**
- **Walla Walla College**
- **Washington State University**

The Transfer Program Planning Guide is designed to provide you with recommended courses to complete your Pre-Nursing Direct Transfer Major Related Program degree. The Pre-Nursing Major Related Program (MRP) helps prepare you to transfer by requiring specific courses in the first two years that can reduce the time it takes to complete the bachelor's degree in Nursing. Of course, educational plans may vary, based on which quarter you begin, how many credits are taken, placement into Math and English, and your preferred transfer institution. To keep you on the best pathway, we encourage you to consult with an Academic Advisor for scheduling options.

Program Map

90 credits, full-time

Program Maps are an integral part of the Planning Guide. Each Program Map includes a recommended quarterly sequence of courses for a full-time student to earn this degree within two years. The courses align with the appropriate number of credits to meet degree requirements and is designed to help you create an individualized, customized Educational Plan, required of all SVC students. Please consult with an SVC Advisor to schedule courses and develop your personal Educational Plan.

FIRST YEAR

1st Quarter

- CSS 103 - First Quarter Experience (2)
- ENGL& 101 - English Composition I (5)
- MATH& 146 - Introduction to Stats (5)

TOTAL CREDITS: 12

2nd Quarter

- CHEM& 121 - Introduction to Chemistry (5)
- ENGL& 102 - Composition II (5)
- PSYC& 100 - General Psychology (5)

TOTAL CREDITS: 15

3rd Quarter

- BIOL& 160 - General Biology w/Lab (5)
- CMST& 220 - Public Speaking (5)
- PSYC& 200 - Lifespan Psychology (5)

TOTAL CREDITS: 15

SECOND YEAR

4th Quarter

- BIOL& 241 - Human Anatomy and Physiology I (5)
- NUTR& 101 - Nutrition (5)
- Humanities course (5), preferably in Learning Community format.
  See Distribution Lists - AA-DTA. Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.

TOTAL CREDITS: 15

5th Quarter

- BIOL& 242 - Human Anatomy and Physiology II (5)
- PE 100 - Wellness For Life (1)
- PE Activity (1)
- Elective (5)
  See Distribution Lists - AA-DTA. Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.
- Humanities course (5), preferably in Learning Community format.
  See Distribution Lists - AA-DTA. Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.

TOTAL CREDITS: 17

6th Quarter

- BIOL& 260 - Microbiology (5)
- CHEM& 131 - Introduction to Organic/Biochemistry (5)
- SOC& 101 - Introduction to Sociology: D (5)
- PE Activity (1)

TOTAL CREDITS: 16

EDUCATION TRANSFER

ASSOCIATE OF EDUCATION, A.Ed.

Overview

The Associate of Education-Early Childhood Education (A.Ed.) degree offers the needed preparation in critical education content to prepare students for employment as paraeducators upon graduation. The A.Ed. also prepares students for future transfer to a four-year college or university. The Associate of Education degree coursework is equivalent to a major relating to early childhood education and meets the requirements of employers, especially public school districts.

This degree includes prescriptive coursework necessary to:

- Provide foundational preparation in the field of education;
- Prepare students to apply for baccalaureate teacher preparation programs, such as *Western Washington University's Woodring College of Education's Undergraduate Elementary Education Professional Program*;
- Fulfill the 75 credits of unrestricted general education requirements of the Associate of Arts Direct Transfer Agreement, AA-DTA, p 37.

Sample career options include–

- **Preschool Teachers**
- **Education Administrators, Preschool and Childcare Center/ Program**
- **Childcare Workers**

Degree Option:

Upon completion of the A.Ed. requirements, students are eligible to apply to be awarded the Associate of Arts, Direct Transfer Agreement, AA-DTA. The A.Ed. degree will be granted to SVC students completing with a cumulative 2.0 GPA. Entry into a baccalaureate program will require a higher GPA for admission. This degree does not guarantee admission into the major. Early advising is important to ensure degree completion. Students are responsible for checking specific major requirements of baccalaureate institutions in the year prior to transferring.

Program Learning Outcomes

General Education Learning Outcomes, pp 149-150.

Graduates of the Associate in Education program will be able to:

- Use knowledge of key child development theories and current research to analyze and under-stand children's perspectives, behavior, and development. (EDUC& 115)
- Develop strategies for connecting with and supporting the child and family that recognize the interconnectedness of the child, family, and community and the impacts of culture and structural in-equity on their lives. (EDUC& 150)
- Use observation and documentation as tools to understand the development, learning, and behavior of young children and use that knowledge for curriculum development. (ECED& 190)
- Use effective teaching strategies that adapt and change to meet student's needs. (EDUC 223)
- Create engaging curriculum that is based on knowledge of children's developmental needs, established learning outcomes, and children's interests. (ECED& 160)

Program Admissions

Students may enter the program at the beginning of any quarter. For specific information, contact Enrollment Services or the Department Chair.

According to Washington State law RCW 43.43.830, any person with a positive criminal history for "crimes against persons" is not allowed to work with children. Background checks of criminal history are required of all students who work with children in any setting. Participants in this program will be required to complete a background check with a local school district.

Specialized Program Information

WORK-BASED LEARNING

Students will complete EDUC 223: Practicum and Seminar toward the end of their degree. This requires the student to volunteer weekly in a K-3rd grade classroom. In order to volunteer in a school, you must successfully pass a criminal background check. Students with a criminal background should complete a background check prior to enrolling in the program to make sure that they will be able to complete the practicum requirement and gain employment after graduation.

Degree Requirements

An ampersand (&) denotes Common Course Numbering

Students must complete a minimum of 90 quarter credits in transferable courses numbered 100 or above with a cumulative grade point average of at least 2.0 in order to graduate from SVC with an Associate of Arts degree. Credits must satisfy requirements listed below. A minimum of 60 quarter hours of general education courses are required. At least 25 college-level credits must be earned at SVC with a minimum GPA of 2.0. Students should check specific admission and program requirements and application deadlines to assist in successful transfer to a four-year institution. College counselors and academic faculty can advise students of special lower division requirements.

1. **First Quarter Experience (2 cr.)**
   - CSS 103 - First Quarter Experience (2)
2. **Communication Skills (15 cr.)**
   - ENGL& 101 - English Composition I (5)

   and one of the following:
   - CMST& 210 - Interpersonal Communication: D (5)
   - CMST& 220 - Public Speaking (5)
   - CMST& 230 - Small Group Communication: D (5)
   - ENGL& 102 - Composition II (5)
   - ENGL 103 - Advanced Composition (5)
   - ENGL& 235 - Technical Writing (5)

3. Quantitative Skills (5 cr.)

Select one course from the following:

- MATH& 107 - Math in Society (5)
- MATH& 141 - Precalculus I (5)
- MATH& 142 - Precalculus II (5)
- MATH& 146 - Introduction to Stats (5)
- MATH& 148 - Business Calculus (5)
- MATH& 151 - Calculus I (5)
- MATH& 152 - Calculus II (5)
- MATH& 153 - Calculus III (5)

4. Physical Education (3 cr.)

- PE 100 - Wellness For Life (1)
- PE 103 - Wellness Movement (2)

Note

A maximum of three PE Activities credits can be used for the DTA: two credits for PE requirement and one additional credit toward restricted or "gray area" electives.

PE 100 may also be taken with other activity courses, excluding PE 200, PE 204 and PE 205.

5. Integrative Learning Experiences

Two Integrative Learning Experiences (ILE) are required. *One ILE must be a Learning Community. The second ILE may be another Learning Community or an Integrative Experience.*

- A *Learning Community* (LC) is the integrated combination of two or more courses from different areas (for example, sociology and literature, or physics and math, or speech and economics, or composition and philosophy). Learning Communities are indicated in the course schedule.
- *Integrative Experiences* (IEs) are curricular or co-curricular experiences designed by faculty in which students demonstrate their ability to integrate information, concepts, analytical frameworks, and skills from two or more areas in a purposeful project or experience. Integrative Experiences that are classes are indicated in the course schedule; co-curricular IEs are indicated in promotion and advising for the experience or project. Students may design a Learning into Action IE under the guidance of the supervising faculty member.

6. Diversity Requirement

At least one Diversity Intensive course is required. Students should use the SVC online quarterly class schedule search or consult with their faculty advisor or counselor to identify courses that fulfill this requirement.

7. Distribution Requirements (45 cr.)

See Distribution Lists-AA-DTA, pp 145-147, for a selection of eligible courses.

Select credits from three areas of study: ***Natural Sciences, Social Sciences, and Humanities***. A specific course may be credited toward no more than one distribution requirement.

8. Electives (22-25 cr.)

In order to accumulate 90 college-level (100 or higher) credits for the degree, students will need additional elective credits. Students may select electives from the Distribution Lists - AA-DTA (Natural Sciences, Social Sciences, Humanities), other academic courses, or a maximum of 15 credits from Gray Area courses, pp 147-148. A maximum of nine Family Life credits may be counted as Gray Area electives. HMATH 100 and WMATH 100 cannot be included in elective credits for the degree.

EARLY CHILDHOOD EDUCATION, A.Ed.

The program map is provided as a guide for a traditional full-time student whose goal is to earn the Associate of Education degree. The courses are designed with the appropriate number of credits to meet degree requirements and are organized in a recommended sequence. The A.Ed. degree will be granted to SVC students completing with a cumulative 2.0 GPA. Please consult with an SVC advisor to schedule courses and develop an educational plan.

Program Map

111 credits

FIRST YEAR

1st Quarter

- CSS 103 - First Quarter Experience (2)
- ECED& 105 - Introduction to Early Childhood Education (5)
- ECED& 120 - Nurturing Relationships (2)
- ENGL& 101 - English Composition I (5)

TOTAL CREDITS: 14

2nd Quarter

- ECED& 107 - Health, Safety, and Nutrition (5)
- EDUC& 115 - Child Development (5)
- EDUC& 130 - Guiding Behavior (3)
- NUTR& 101 - Nutrition (5)

TOTAL CREDITS: 18

3rd Quarter

- ECED& 190 - Observation and Assessment (3)
- EDUC& 150 - Child, Family, and Community (3)
- ENGL& 102 - Composition II (5)
- MATH 099 - Intermediate Algebra II (5)

TOTAL CREDITS: 16

4th Quarter (Summer)

- CMST& 220 - Public Speaking (5)
- Specialization (3)
- PE 100 - Wellness For Life (1)

TOTAL CREDITS: 9

SECOND YEAR

5th Quarter

- ECED& 160 - Curriculum Development (5)
- ECED& 180 - Language and Literacy Development (3)
- PHYS 111 - Matter and Energy in Physics (5)
- SPAN& 121 - Spanish I: D (5)

TOTAL CREDITS: 18

6th Quarter

- ECED 101 - Child Abuse and Neglect (2)
- EDUC& 203 - Exceptional Child (3)
- MATH& 107 - Math in Society (5)

- SOC 204 - Introduction to Stratification and Inequality in America: D (5)

TOTAL CREDITS: 15

7th Quarter

- EDUC 223 - Practicum and Seminar (1-5) (4)
- Natural Science course (5)
  See Distribution Lists - AA-DTA, pp 145-147. Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.
- PE Activity (1)
- Social Science course (5)
  See Distribution Lists - AA-DTA, pp 145-147. Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.

TOTAL CREDITS: 15

8th Quarter

- Humanities course (5)
  See Distribution Lists - AA-DTA, pp 145-147. Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.
- PE Activity (1)

TOTAL CREDITS: 6

EDUCATION PARAPROFESSIONAL

Overview

The Associate in Education - Education Paraprofessional (A.Ed.) degree offers the needed preparation in critical education content to prepare students for employment as paraeducators upon graduation. It also prepares students for future transfer to a four-year college or university. The A.Ed. coursework is equivalent to a major relating to education and meets the requirements of employers, especially public school districts.

This degree includes prescriptive coursework necessary to:

- Provide foundational preparation in the field of education.
- Prepare students to apply for baccalaureate teacher preparation programs, such as the Western Washington University Woodring College of Education's Undergraduate Elementary Education Professional Program.
- Fulfill the 75 credits of unrestricted general education requirements of the Associate of Arts, Direct Transfer Agreement, AA-DTA.
- This degree also furthers the objectives of the Maestros Para el Pueblo program. This program works with Western Washington University and various high schools in the area to help LatinX students achieve their goals in pursuing a career in education.

SAMPLE CAREER OPTIONS INCLUDE:

- Education Professional
- Public School Migrant Liason
- School Age Care Supervisor

Degree Options

Upon completion of the A.Ed. requirements, students are eligible to apply to be awarded the Associate of Arts, Direct Transfer Agreement, AA-DTA. The A.Ed. degree will be granted to SVC students completing with a cumulative 2.0 GPA. Entry into a baccalaureate program will require a higher GPA for admission. This degree does not guarantee admission into the major. Early advising is important to ensure degree completion. Students are responsible for checking specific major requirements of baccalaureate institutions in the year prior to transferring.

Program Learning Outcomes

General Education Learning Outcomes, pp 149-150.

Graduates of the Associate in Education - Education Paraprofessional program will be able to:

- Use knowledge of key child development theories and current research to analyze and understand children's perspectives, behavior, and development.
- Develop strategies for connecting with and supporting the child and family that recognize the interconnectedness of the child, family, and community and the impacts of culture and structural inequity on their lives.
- Use effective teaching strategies that adapt and change to meet student's needs.
- Demonstrate methods and strategies that are effective in meeting the learning needs of Dual Language Learners.
- Communicate effectively with colleagues and participate in an educational team.

Program Admissions

Students may enter the program at the beginning of any quarter. For specific information, contact Enrollment Services or the Department Chair.

According to Washington State law RCW 43.43.830, any person with a positive criminal history for "crimes against persons" is not allowed to work with children. Background checks of criminal history are required of all students who work with children in any setting. Participants in this program will be required to complete a background check with a local school district.

Students will complete EDUC 223 - Practicum and Seminar toward the end of their degree. This requires the student to volunteer weekly in a K-3rd grade classroom. In order to volunteer in a school, you must successfully pass a criminal background check. Students with a criminal background should complete a background check prior to enrolling in the program to make sure that they will be able to complete the practicum requirement and gain employment after graduation.

Specialized Program Information

WORK-BASED LEARNING

Students will complete EDUC 136: School Age Care at the beginning of their degree. This requires the student to volunteer weekly in an after school program. In order to volunteer in this program, you must successfully pass a criminal background check. Students with a criminal background should complete a background check prior to enrolling in the program to make sure that they will be able to complete the practicum requirement and gain employment after graduation.

During most quarters of the program, students will be required to complete lab hours in a school or other educational setting. Students are encouraged to apply for entry level work in the

education field so that they can complete their required lab hours in their workplace. Students will be required to spend 2-4 hours a week in a school or other educational setting in order to successfully complete their coursework.

Students will complete EDUC 223: Practicum and Seminar toward the end of their degree. This requires the student to volunteer weekly in a K-3rd grade classroom. In order to volunteer in a school, you must successfully pass a criminal background check.

This course requires students to volunteer 12 hours a week during school hours. It is essential that you plan your work and family life so that you are able to complete the required practicum hours during the school day (8:30 am-3:00 pm).

Transfer and Degree Requirements

If you are considering a major in this emphasis by transferring to a four-year college or university in Washington state, our Sample Schedule is designed to provide you with faculty recommended courses to complete your Associate of Arts Direct Transfer Agreement, AA-DTA degree.

Your personal Educational Plan will vary based on many factors including:

- The quarter you begin
- How many classes/credits you can take in each quarter
- Your Math and English placement
- If you have credits you have already taken and plan to transfer them to SVC, visit the Enrollment Services webpage
- The college you are interested in transferring to
- Other factors

To keep you on the best pathway, we encourage you to consult with the institution you want to transfer to as well as an SVC Academic Advisor, who will work with you to create a personalized Educational Plan and schedule that takes these factors into account.

Students must complete 92 quarter credits in transferable courses numbered 100 (and 5 credits of MATH 099) or above with a cumulative grade point average of at least 2.0 in order to graduate from SVC with an Associate in Education- Education Paraprofessional degree. A minimum of 60 quarter hours of general education courses are required. At least 25 college-level credits must be earned at SVC with a minimum GPA of 2.0. Credits must satisfy course requirements listed below. Students should check specific admission and program requirements and application deadlines to assist in successful transfer to a four-year institution. College counselors and academic faculty can advise students of special lower division requirements.

MATH 099 is required in order to prepare students for applying to Western Washington University's Woodring College of Education's Teacher Preparation Program. This requirement can also be fulfilled through taking a mathematics course with MATH 099 as a pre-requisite or successfully passing an intermediate algebra placement test at WWU. College counselors and academic faculty can advise students of this requirement. Please contact an advisor if planning to transfer to a program other than WWU.

Courses with an ampersand (&) are Common Course Numbering courses.

1. **First Quarter Experience (2 cr.)**
   - CSS 103 - First Quarter Experience (2)
2. **Communication Skills (15 cr.)**
   - ENGL& 101 - English Composition I (5)

   and one of the following:
   - CMST& 210 - Interpersonal Communication: D (5)
   - CMST& 220 - Public Speaking (5)
   - CMST& 230 - Small Group Communication: D (5)
   - ENGL& 102 - Composition II (5)
   - ENGL 103 - Advanced Composition (5)
   - ENGL& 235 - Technical Writing (5)
3. **Quantitative Skills (5 cr.)**

   Select one course from the following:
   - MATH& 107 - Math in Society (5)
   - MATH& 141 - Precalculus I (5)
   - MATH& 142 - Precalculus II (5)
   - MATH& 146 - Introduction to Stats (5)
   - MATH& 148 - Business Calculus (5)
   - MATH& 151 - Calculus I (5)
   - MATH& 152 - Calculus II (5)
   - MATH& 153 - Calculus III (5)
4. **Physical Education (3 cr.)**
   - PE 100 - Wellness For Life (1)
   - PE 103 - Wellness Movement (2)

   Note

   A maximum of three PE Activities credits can be used for the DTA: two credits for PE requirement and one additional credit toward restricted or "gray area" electives.

   PE 100 may also be taken with other activity courses, excluding PE 200, PE 204 and PE 205.
5. **Integrative Learning Experiences**

   Two Integrative Learning Experiences (ILE) are required. *One ILE must be a Learning Community. The second ILE may be another Learning Community or an Integrative Experience.*
   - A *Learning Community* (LC) is the integrated combination of two or more courses from different areas (for example, sociology and literature, or physics and math, or speech and economics, or composition and philosophy). Learning Communities are indicated in the course schedule.
   - *Integrative Experiences* (IEs) are curricular or co-curricular experiences designed by faculty in which students demonstrate their ability to integrate information, concepts, analytical frameworks, and skills from two or more areas in a purposeful project or experience. Integrative Experiences that are classes are indicated in the course schedule; co-curricular IEs are indicated in promotion and advising for the experience or project. Students may design a Learning into Action IE under the guidance of the supervising faculty member.

6. Diversity Requirement

At least one Diversity Intensive course is required. Students should use the SVC online quarterly class schedule search or consult with their faculty advisor or counselor to identify courses that fulfill this requirement.

7. Distribution Requirements (45 cr.)

See Distribution Lists-AA-DTA, pp 145-147, for a selection of eligible courses.

Select credits from three areas of study: ***Natural Sciences, Social Sciences, and Humanities***. A specific course may be credited toward no more than one distribution requirement.

8. Electives (22-25 cr.)

In order to accumulate 90 college-level (100 or higher) credits for the degree, students will need additional elective credits. Students may select electives from the Distribution Lists - AA-DTA (Natural Sciences, Social Sciences, Humanities), other academic courses, or a maximum of 15 credits from Gray Area courses, pp 147-148. A maximum of nine Family Life credits may be counted as Gray Area electives. HMATH 100 and WMATH 100 cannot be included in elective credits for the degree.

Program Map

96 credits

Program Maps are an integral part of the Planning Guide. Each Program Map includes a recommended quarterly sequence of courses for a full-time student to earn this degree within two years. The courses align with the appropriate number of credits to meet degree requirements and is designed to help you create an individualized, customized Educational Plan, required of all SVC students. Please consult with an SVC Advisor to schedule courses and develop your personal Educational Plan.

FIRST YEAR

1st Quarter

- EDUC 101 - Paraeducator Basics (3)
- EDUC& 202 - Introduction to Education (5)
- CSS 103 - First Quarter Experience (2)
- ENGL& 101 - English Composition I (5)

Students who do not receive an appropriate test score will require additional coursework to develop necessary skills for entry into class.

TOTAL CREDITS: 15

2nd Quarter

- EDUC& 115 - Child Development (5)
- EDUC& 130 - Guiding Behavior (3)
- EDUC& 136 - School Age Care (3)
- NUTR& 101 - Nutrition (5)

TOTAL CREDITS: 16

3rd Quarter

- EDUC& 150 - Child, Family, and Community (3)
- EDUC 246 - Working with Bilingual Children (3)
- MATH 099 - Intermediate Algebra II (5)
- SPAN& 121 - Spanish I: D (5)

TOTAL CREDITS: 16

SECOND YEAR

4th Quarter

- Elective Course
- CMST& 220 - Public Speaking (5)

TOTAL CREDITS: 5

5th Quarter

- MATH& 107 - Math in Society (5)
- Humanities (5)

See Distribution Lists - AA-DTA. Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.

- PHYS 111 - Matter and Energy in Physics (5)
- PE Activity (1)

TOTAL CREDITS: 16

6th Quarter

- EDUC& 203 - Exceptional Child (3)
- ENGL& 102 - Composition II (5)
- PE 100 - Wellness For Life (1)
- SOC 204 - Introduction to Stratification and Inequality in America: D (5)

TOTAL CREDITS: 14

7th Quarter

- EDUC 223 - Practicum and Seminar (1-5) (4)
- PE Activity (1)
- Social Science (5) See Distribution Lists - AA-DTA.
- Science (5) See Distribution Lists - AA-DTA. Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.

TOTAL CREDITS: 15

ASSOCIATE IN APPLIED SCIENCE DEGREES

ASSOCIATE IN APPLIED SCIENCE, AAS

Overview

The Associate in Applied Science (AAS) degree is designed for students who are preparing to enter a career field. Although certain courses in this degree may transfer to baccalaureate institutions, students are advised that many courses in this degree are not usually transferable because of their specialized nature. Students interested in continuing their studies after earning the AAS degree are encouraged to consult with a counselor or the department chair as well as the intended transfer institution for specific transfer options available.

The Washington State Board for Community and Technical Colleges considers the following workforce degrees as equivalent:

- **Associate of Applied Science (AAS)**
- **Associate of Technical Arts (ATA)**
- **Associate of Applied Technology (AAT)**
- **Associate of Technical Science (ATS)**

Transfer

- **Central Washington University:** *Information Technology* and *Administrative Management* accepts all Professional/Technical AAS and AAS-T degrees for transfer subject to CWU-ITAM general admissions criteria.

- **City University:** AAS degree program transcripts are individually reviewed for transferability and BA completion requirements.
- **Eastern Washington University:** AAS degree program transcripts are individually reviewed for transferability and BA completion requirements.
- **The Evergreen State College:** AAS degree program transcripts are individually reviewed for transferability and BA completion requirements.
- **Montana State University-Northern:** Diesel Power Technology, AAS.
- **Trinity Western University-Bellingham:** Human Services Generalist or Human Services-Substance Use Disorder (SUD) Counseling Emphasis, AAS degrees.
- **University of Phoenix:** Reviews each AAS-T and AAS degree program individually for transferability and BA completion requirements.
- **Washington Polytechnic Institute (WAPOLY):** BS Mechanical Engineering Technician Program: Manufacturing-Engineering Technology, AAS degree.
- **Washington State University-Human Development:** Early Childhood Education AAS.
- **Western Washington University-Fairhaven College:** Any AAS degree that is also offered as an academic major at WWU.

Degree Requirements

General Education Learning Outcomes, pp 149-150
Program Learning Outcomes, p 149

To graduate from SVC with an Associate in Applied Science (AAS) degree, students must complete a minimum of 90 credits with a minimum cumulative GPA of 2.0 including a technical major and related education requirements. At least 25 core program credits must be earned at SVC with a minimum GPA of 2.0. The student's declared major must have approval of the Dean of Professional/Technical Education and the Department Chair of the technical field. To receive an Associate in Applied Science Degree, students must satisfy requirements listed below.

An ampersand (&) denotes Common Course Numbering

1. **First Quarter Experience (2 cr.)**
   - CSS 103-First Quarter Experience (2)
2. **Communication Skills (3-5 cr.)**
   - ENGL& 101, ENGL 170 (3-5 cr.) or another specific communication course as designated by the Professional/Technical department chair.
   - CMST& 210, CMST 125 (3-5 cr.) or another specific communication course as designated by the Professional/Technical department chair. Specific course options in this category are designated within each major.
3. **Quantitative Skills (5 cr.)**
   - WMATH 100 (5): Alternate courses of an equal or higher number may be substituted in some majors.
4. **Physical Education (2 cr.)**
   - PE 200-First Aid, Safety, and CPR (2)
     or PE 100 (1) plus one activity credit
     Note: Choice determined by program. Check with the department chair.
5. **Human Relations Skills (3-5 cr.)**
   - CMST 125 - Professional Communication: D (3)

     or choose one from the following:
     - CMST& 210 - Interpersonal Communication: D (5)
     - CMST& 220 - Public Speaking (5)
     - A specific course designated by the department chair
6. **Cooperative Education (1-15 cr.)**

   Cooperative Education courses are listed as 199 courses. Students will complete 30 hours of work at a supervised site for each credit received. Concurrent enrollment in Cooperative Education seminars or equivalent is required. Students may earn 1 to 15 credits toward this degree requirement. Approval of the department chair is required for enrollment in all 199 courses. See program for specific requirements.
7. **Diversity Requirement**

A Diversity Intensive course or group of courses that offers a minimum total of 30 contact hours of diversity intensive experience. Students should consult with their faculty advisor or counselor to identify the appropriate course or group of courses that fulfills this requirement.

ASSOCIATE IN APPLIED SCIENCE – TRANSFER, AAS-T

Overview

The Associate of Applied Science-Transfer (AAS-T) degree builds on the technical courses required for job preparation by including a college-level general education component. The distinguishing characteristic of the AAS-T degree is a minimum of 20 credits of general education drawn from the same list as those taken by students completing the Associate of Arts, Direct Transfer Agreement, AA-DTA, the Science, Associate in Science, Transfer Track #1 (Biology, Chemistry, Earth Science, Environmental Science, Geology), AS-T, and the Science, Associate in Science, Transfer Track #2 (Computer Science, Engineering, Physics), AS-T degrees.

IMPORTANT CONSIDERATIONS

AAS-T courses are designed for immediate employment AND as preparation for certain bachelor degree programs. The AAS-T is fully transferrable ONLY when the receiving college or university has a special agreement (articulation) in place with Skagit Valley College. The AAS-T degree is not automatically accepted in transfer in preparation for Bachelor of Arts or Bachelor of Science programs; however, individual courses may be accepted in transfer.

Transfer

- **Bellingham Technical College:** Engineering Technology AAS-T.
- **Central Washington University:** Information Technology and Administrative Management: accepts all Professional/ Technical AAS and AAS-T degrees for transfer subject to CWU-ITAM general admissions criteria.
- **Eastern Oregon University:** The BS Fire Services Administration program accepts the Fire Protection Technology, AAS-T degree for transfer.
- **University of Phoenix:** Reviews each AAS-T and AAS degree program individually for transferability and BA completion requirements.

Degree Requirements

General Education Learning Outcomes, pp 149-150
Program Learning Outcomes, p 149

To graduate from SVC with an Associate in Applied Science-Transfer (AAS-T) degree, students must complete a minimum of 90 credits with a minimum cumulative GPA of 2.0 including a technical major and related education requirements. At least 25 core program credits must be earned at SVC with a minimum GPA of 2.0. The student's declared major must have approval of the Dean of Professional/Technical Education and the Department Chair of the technical field. To receive an Associate in Applied Science-Transfer Degree, students must satisfy requirements listed below.

All courses in the AAS-T general education component are generally transferable where a special agreement (articulation) is in place with Skagit Valley College. They also assure that the student has a foundation in communication and quantitative skills as well as an introduction in science, social science and humanities. These courses may also serve the dual purpose of meeting industry requirements for job preparation.

A minimum of 20 credits must include the following:

- 5 credits in Communication: ENGL 101-English Composition.
- 5 credits in Math: Any transferable math course with Intermediate Algebra as the prerequisite.
- 10 credits in Science, Social Science or Humanities: Courses selected from the Distribution Lists - AA-DTA are generally accepted. These courses may also meet the human relations requirement for technical degrees.

An ampersand (&) denotes Common Course Numbering.
An asterisk (*) designates a lab course.

1. **First Quarter Experience (2 cr.)**
   - CSS 103 - First Quarter Experience (2)
2. **Communication Skills (5 cr.)**
   - ENGL& 101 - English Composition I (5)
3. **Quantitative Skills (5 cr.)**
   - MATH& 107 - Math in Society (5) or higher
4. **Physical Education (2 cr.)**
   - PE 200 - First Aid, Safety, and CPR (2)
     or PE 100 - Wellness For Life (1) plus one activity credit (choice determined by program)
5. **Human Relations Skills (5 cr.)**
   - CMST& 210 - Interpersonal Communication: D (5)
     or CMST& 220 - Public Speaking (5)
6. **Cooperative Education (1-15 cr.)**

   Cooperative Education courses are listed as 199 courses. Students will complete 30 hours of work at a supervised site for each credit received. Concurrent enrollment in Cooperative Education seminars or equivalent is required. Students may earn 1 to 15 credits toward this degree requirement. Approval of the department chair is required for enrollment in all 199 courses. See program for specific requirements.
7. **Diversity Requirement**

   A Diversity Intensive course or group of courses that offers a minimum total of 30 contact hours of diversity intensive experience. Students should consult with their faculty advisor or counselor to identify the appropriate course or group of courses that fulfills this requirement.

PROFESSIONAL TECHNICAL DEGREES AND CERTIFICATES

WORKFORCE FOCUSED ASSOCIATE DEGREES

Approximately two years long, depending on possible degree pre-requisites, Associate of Applied Science Degrees are intended to give students the skills needed to move directly into employment.

DEGREE INTENT AND TRANSFER OPTIONS

Upon completion, Workforce degrees and/or certificates are intended to give students the skills needed to move directly into employment. While these degrees are not intended to transfer to a university, students will be eligible to apply for admissions to Skagit Valley College's Bachelor of Applied Science - Management (BASM) degree and, in some cases, could transfer to other schools. If you are interested in continuing your education by entering a bachelor's degree program, please work closely with your Academic Advisor and Department Chair.

ALLIED HEALTH EDUCATION

Overview

The Allied Health Education (AHE) designation includes all courses required for degrees or certificates offered in Medical Assistant, Medical Billing and Coding, and Pharmacy Technician. A two-year AAS degree is available for Medical Assistant and for Medical Billing and Coding. The focus is to offer entry-and intermediate-level healthcare career options and to provide a stepping stone into other healthcare professions. The educational goal is to provide quality programs that will give students the skills and knowledge needed to provide quality care for diverse patient populations.

America needs more healthcare workers. Healthcare is one of the fastest growing industries and the list of high demand occupations continues in the healthcare field. The aging population, new medical technologies, and changes in the way health care is, and will be delivered in the future, are opening doors for people who want to train for a job that pays well and gives them a chance to help other people.

While not all health careers involve working directly with patients, every health professional plays an important role on the healthcare team. Health careers offer the satisfaction of helping others. Advances in medical technology also make health careers exciting and ever-changing. Researchers are constantly discovering new ways to diagnose, treat and prevent diseases. Health workers receive ongoing training to learn new skills, use new technologies and improve patient care.

Program Learning Outcomes

General Education Learning Outcomes, pp 149-150.

Graduates of the Medical Assistant program will be able to:

KNOWLEDGE (COGNITIVE):

- Demonstrate knowledge of foundational theory in clinical and administrative standards as it applies to the Medical Assistant's scope of practice.
- Apply law and ethics to the medical assisting scope of practice and patient care.

PSYCHOMOTOR (SKILLS):

- Perform clinical and administrative skills accurately and consistently.
- Demonstrate the ability to manage workflow given varied patient scenarios and clinical situations.

AFFECTIVE (BEHAVIORS):

- Recognize the medical needs of diverse populations; demonstrate cultural competence and appropriate communication with patients and the healthcare team.
- Model the qualities of valued healthcare team professionals.

Graduates of the Medical Billing and Coding Specialist program will be able to:

- Interpret health record documentation using knowledge of anatomy and physiology, disease process, pharmacology, and medical terminology to accurately assign diagnostic and/or procedural codes, including modifiers, according to current coding and reporting requirements to optimize reimbursement.
- Utilize ICD-10-CM, CPT, and HCPCS coding manuals to correctly code diagnoses, services, procedures, supplies, materials, injections, and durable medical equipment.
- Accurately perform administrative tasks, including bookkeeping procedures and completion of clerical and operational forms.
- Demonstrate an understanding of managed care and other health insurance types and specify how they differ from traditional billing methods of private medical practice.
- Accurately prepare UB-04 and CMS-1500 claim forms for submission in a manner that will minimize rejection by insurance companies.

Graduates of the Pharmacy Technician program will be able to:

- Accurately and precisely, interpret and fill prescriptions from start to finish.
- Explain the top 200 drugs including brand to generic, classification and associated disease states.
- Perform sterile and non-sterile compounding procedures safely and to industry requirements.
- Practice ethically and within the laws governing pharmacy practice both nationally and in Washington State.
- Demonstrate foundational knowledge of standards for pharmacy waste management practices, safety, and controlled substance handling.

Program Accreditation

The **Medical Assistant program** is accredited by the Commission on Accreditation of Allied Health Education Programs (**www.caahep.org**) upon the recommendation of Medical Assistant Education Review Board (MAERB). The address is Commission on Accreditation of Allied Health Education Programs (CAAHEP), 25400 U.S. Highway 19 North, Suite 158, Clearwater, FL 33763; the phone number is 727.210.2350 (**www.caahep.org**).

Upon successful completion of the Medical Assistant Certificate or AAS degree, graduates are then eligible to take a national certification exam approved by the Allied Health Department. Satisfactory completion of the national exam is a requirement to apply for certification in Washington State (RCW 18-360).

Upon successful completion of the **Medical Billing and Coding AAS degree**, graduates are eligible to sit for the Certified Professional Coder (CPC) exam. The CPC credential is one of the American Academy of Professional Coder's (AAPC) national certification examinations for healthcare school graduates to demonstrate proficiency across a wide range of outpatient services using all codes sets (CPT, ICD-10-CM, and HCPCS). The address of the certifying organization is, AAPC 2233 S Presidents Drive, Suite F, Salt Lake City, UT 84120.

The **Pharmacy Technician certificate program** is approved by the Pharmacy Technician Quality Assurance Commission of Washington State. The program is recognized by the Pharmacy Technician Certification Board (PTCB) allowing students to sit for the Pharmacy Technician Certification Exam (PTCE) or other national exams that are required to obtain the Pharmacy Technician Credential. This program meets or exceeds the goals and objectives of the American Society of Health Systems Pharmacists.

Program Admissions:

Go to **skagit.edu/getstarted** to apply for admission and a student ID (SID) at Skagit Valley College. Attend an information session and fill out an Allied Health Education program application (see the Allied Health Education web page for dates: **skagit.edu/alliedhealth**). Admission and registration guidelines are listed in the catalog and on the college website.

Some Allied Health Education programs can be completed on a part-time basis. Students must enter some programs only during certain quarters and follow the suggested schedule of courses to complete required course work. Some Allied Health Education programs have prerequisite courses that must be completed prior to entering.

Registration for Medical Assistant cohort entries takes place in winter quarter, and requires mee***ting with an Allied Health Education faculty advisor.*** Some key courses are offered only during specific quarters of the year. Students are required to contact the Allied Health faculty advisors for help preparing their course schedules, as well as fill out the Allied Health Education program application. Students are encouraged to meet with Allied Health Education faculty as early as possible for the best program planning.

Students must submit a completed application to the Allied Health Education department for entry into any Allied Health Education courses, or program cohort; Pharmacy Technician has an additional application for entry into the program which is submitted to indicate prerequisite completion plan. Students will meet with Allied Health Education faculty for course sequence planning.

Students can start Allied Health Education course work in any quarter, but cohort schedules must be followed. For completion in a timely manner, it is recommended that students work closely with an Allied Health Faculty advisor. Many courses are offered only once per year and prerequisites impact sequencing. All foundation courses must be completed prior to entry into core programs. ***Allied Health Education degree and certificate programs have one annual entry which is winter quarter.***

It is strongly recommended that students be able to read, write, and compute at college level and have basic keyboarding skills. Students lacking this preparation should consult an advisor for appropriate coursework to raise their skill level. Students should review schedules and course descriptions to check for prerequisites when planning their course of study.

Program Dismissal and Re-entry

Once admitted to an Allied Health Education program, students must comply with the rules and regulations of the program and any of the clinical affiliates or be subject to dismissal from the program. See the Allied Health Student Handbook for more information.

Students must perform in a safe and competent manner in the clinical facilities and comply with the rules and regulation of the Allied Health Education department and clinical affiliates. Failure to do so may result in immediate dismissal from the clinical facility and the Allied Health Department. Unsafe practice in the clinical setting may result in a failing grade in the clinical practicum course.

Prior students not currently enrolled in the program who wish to re-enter must petition for readmission. Prior students who have not attended school for two or more quarters must meet with the department chair before continuing in the program. Core courses must be completed in sequence. Students who fail to complete the required practicum course immediately following completing the core courses will be required to see the department chair for a re-entry plan. The re-entry plan may require the student to repeat some core courses. AHE 199 may be used in place of required/repeated coursework at the Department Chair and/or Program Director's discretion. Students will be assessed based on past performance, current performance and experience, and then given an individualized remediation plan of courses to become practicum eligible. Practicum placement may be delayed due to full cohorts; students reentering may plan on being placed into the next available open practicum cohort group.

Specialized Program Information

ALLIED HEALTH EDUCATION PROGRAM WEBSITE

For the most current overview about the Allied Health Education program and specific program information, please visit **skagit.edu/alliedhealth.**

PROGRAM NOTES

Criminal background checks and illegal substance-illegal drug screens are required for all students entering Allied Health programs. This requirement is based on medical industry standards and Washington State laws protecting vulnerable populations (RCW 43.43.880 and 43.43.842). Drug screens and background checks are required by clinical agencies where students complete their clinical practicums. This screening occurs at the start of all Allied Health programs (AHE 130) for Pharmacy students). All students participating in clinical placement for practicum will complete an additional drug screening immediately prior to entering clinical practicum. Students should be aware that certain gross misdemeanors and felonies may disqualify them from participating in clinical externships and prevent them from completing their certificate or degree. Future employment opportunities in the health care field may also be affected. See program website for additional information.

Occupational Exposure: Students planning to enter any of the Allied Health Education programs need to know that, as a health care provider, they are at risk for exposure to bloodborne pathogens.

WORK-BASED LEARNING

When eligible to do so, students will integrate classroom learning with a work-based learning/practicum experience. Medical Assistant and Pharmacy Technician students are placed into clinical practicums during their last quarter of study.

Medical Billing and Coding Specialists begin an online practicum experience during their last quarter of study; completion of this practicum will remove the apprentice designation from their AAPC CPC credential when they pass the national exam.

In order to be placed into the required practicum, student candidates must have completed all specified courses (varies with degree/certificate) with a minimum of 'C' grade and must meet the following general requirements:

- Negative TB test or chest X-ray within one year;

- Tetanus/diphtheria vaccination within last 10 years;
- MMR (measles/mumps/rubella) vaccination or positive titer (if born before 1957, this requirement does not apply, according to CDC recommendations and guidelines);
- Hepatitis B vaccination series. (All doses);
- Current annual seasonal influenza immunization;
- Current American Heart Association BLS credential and First Aid certificate;
- Certificate of attendance at a 7-hour AIDS Prevention Seminar;
- Medical Assistant students must present evidence of having current private medical insurance and must purchase professional liability insurance from the college before they will be placed into a practicum experience;
- Any other requirements of a specific certificate or practicum site may apply.

Degree and Certificate Options

ASSOCIATE IN APPLIED SCIENCE DEGREE, AAS

An Associate in Applied Science Degree, AAS is awarded upon completion of a minimum of 90 credits of specified technical and related education coursework above 100-level and requires a minimum C grade or above in each course.

The Medical Assistant AAS degree and certificate programs prepare students to work as a member of a health care team, performing a broad range of clinical and administrative tasks under the supervision of a physician, physician's assistant or nurse practitioner. Program graduates assist health care professionals in many aspects of medical practice, including patient care management, administrative, and clinical procedures such as: assisting with physical examinations, phlebotomy, administering injections, performing electrocardiograms and instrument sterilization. An experienced medical assistant might serve as an office administrator. Primary employers for medical assistants include: ambulatory health care settings, extended health care facilities, public health agencies, research institutes and medical insurance firms. All students in the Medical Assistant degree/certificate program take the same clinical training and administrative skill coursework. Upon graduating from the Medical Assistant degree or certificate program, students are eligible to take a national certification exam. This AAS degree requires 7 quarters of full-time attendance to complete the program of study. The Medical Assistant, AAS is awarded upon the completion of a minimum of 90 credits. **Students must complete the Medical Assistant certificate with a minimum C grade or above in each course including the additional general education courses required for the certificate and AAS degree. A certificate is awarded to students who complete all required courses with a minimum C grade or above in each course.**

The Medical Billing and Coding AAS degree prepares students for billing/coding careers in medical offices, hospitals, clinics, or insurance companies. Medical coding specialists learn the translation of written documentation of disease, injuries, and/or medical procedures into alphanumeric classifications. Currently, reimbursement for health care services is dependent on the assignment of codes to describe diagnoses, services, and procedures. In addition to coding, professional reimbursement specialists must learn the medical billing process to conform to individual insurance requirements, electronic billing procedures, and responsibilities associated with electronic data management. **An AAS degree is awarded to students who complete all required courses with a minimum C grade or above in each course.**

CERTIFICATES

The Pharmacy Technician certificate program prepares students for the role of support personnel in hospital, clinical, community, and other pharmacy settings. Working under the direction of a licensed pharmacist, Pharmacy Technicians provide assistance to the pharmacist in a variety of technical tasks involving the packaging, distribution, compounding, labeling, and recording of drugs. Students will receive training in drug products, calculations, dosages, dispensing techniques, inventory management, third-party billing, and Washington State pharmacy law. In addition to lecture, students will have hands-on training in a lab environment and an opportunity to complete a practicum experience. This certificate requires four to five quarters of full-time attendance to complete the program of study, and has 30-35 credits of foundation courses required prior to Winter quarter entry to complete the core courses. **A certificate is awarded to students who complete all required courses with a minimum C grade or above in each course.**

Please note that specific duties of the Medical Assistant, Medical Billing and Coding specialist, and Pharmacy Technician, may vary between medical settings depending on the facility's specialty, size and location.

Medical Assistant

Overview

Medical Assistants are multi-skilled health professionals specifically educated to work as a member of a health care team, performing a broad range of clinical and administrative tasks under the supervision of a physician, physician's assistant or nurse practitioner.

Program graduates assist health care professionals in many aspects of medical practice, including patient care management, administrative, and clinical procedures. Students learn about the administrative duties of scheduling and receiving patients, preparing and maintaining medical records, performing basic secretarial skills and medical transcription, handling telephone calls, writing correspondence, serving as the liaison between the physician and other individuals, and managing practice finances. The clinical phase of the program is taught through intense training and hands-on application. Students learn to perform clinical duties, including asepsis and infection control, taking patient histories and vital signs, first aid and CPR, preparing patients for procedures, assisting the physician with examinations and treatments, collecting and processing specimens, performing selected diagnostic tests, administering injections, and preparing and administering medications as directed by the physician.

Sample career options include–

- Medical Assistant

Program Map

Program Maps are an integral part of the Planning Guide. All foundation courses must be completed with a C grade or higher before a student may begin core classes. Completion of Math and English are a priority. Foundation courses are only offered in certain quarters. Core courses must be taken in sequence and a student may only begin core courses Winter quarter. This Program Map includes a recommended quarterly sequence of courses for a full-time student to earn this degree within two years. The courses align with the appropriate number of credits to meet degree requirements and is designed to help you create an individualized, customized Educational Plan, required of all SVC students. Please consult with an SVC Advisor to schedule courses and develop your personal Educational Plan.

MEDICAL ASSISTANT, AAS

PROGRAM MAP

93 credits

FIRST YEAR

Foundation Courses: Quarter 1

- AHE 101 - Healthcare Interactions: D (3)
- CSS 103 - First Quarter Experience (2)
  or CSS 104 - College Success Skills for Online Learning (1-3) with a 3.0 GPA or better
  or Prior completion of a degree/certificate;
  or Prior completion of 1 quarter/15 credits of college level course work with a 3.0 GPA or better.
- ENGL& 101 - English Composition I (5)
  Students who do not receive an appropriate test score will require additional coursework to develop necessary skills for entry into class.
- OBT 162 - Microsoft Office Basics (2)

TOTAL CREDITS: 13

Foundation Courses: Quarter 2

- AHE 102 - Basic Medical Terminology (5)
- AHE 103 - Law, Ethics, and Professionalism in Healthcare (5)
- AHE 118 - Drug Dosage Calculations (5)
  Students who do not receive an appropriate test score will require additional coursework to develop necessary skills for entry into class.

TOTAL CREDITS: 15

Foundation Courses: Quarter 3

- AHE 105 - Electronic Medical Documents and Administrative Procedures (6)
- AHE 106 - Anatomy and Physiology (6)
  or BIOL& 241 - Human Anatomy and Physiology I (5)
  and BIOL& 242 - Human A and P II (5) *with a minimum C grade*
- AHE 201 - Basic Life Support (3)
- AHE 202 - First Aid (3)
- AHE 203 - Mental Health First Aid (3)

TOTAL CREDITS: 15

SECOND YEAR

Foundation Courses: Quarter 4

- AHE 110 - Introduction to Medical Coding and Insurance (5)
- AHE 112 - Basic Pharmacology (5)
- CMST& 210 - Interpersonal Communication: D (5)

TOTAL CREDITS: 15

Winter Quarter - ENTRY ONLY - Core Courses

- AHE 107 - Clinical Non-Sterile Procedures (6)
- AHE 108 - Clinical Sterile Procedures (6)
- AHE 109 - Medical Disease and Pathology (4)

TOTAL CREDITS: 16

Spring Quarter - Core Courses

- AHE 113 - Introduction to Phlebotomy (4)
- AHE 114 - Microbiology/Medical Lab Procedures (4)
- AHE 115 - Injection Therapy (4)

TOTAL CREDITS: 12

Summer Quarter - Core Courses

- AHE 116 - Medical Assistant Clinical Practicum (6)
- AHE 117 - Medical Assistant Clinical Practicum Seminar (1)

TOTAL CREDITS: 7

MEDICAL ASSISTANT, CERTIFICATE

PROGRAM MAP

88 Credits

Program Maps are an integral part of the Planning Guide. All foundation courses must be completed with a C grade or higher before a student may begin core classes. Completion of Math and English are a priority. Foundation courses are only offered in certain quarters. Core courses must be taken in sequence and a student may only begin core courses Winter quarter. This Program Map includes a recommended quarterly sequence of courses for a full-time student to earn this degree within two years. The courses align with the appropriate number of credits to meet degree requirements and is designed to help you create an individualized, customized Educational Plan, required of all SVC students. Please consult with an SVC Advisor to schedule courses and develop your personal Educational Plan.

FIRST YEAR

Foundation Courses: Quarter 1

- AHE 101 - Healthcare Interactions: D (3)
- CSS 103 - First Quarter Experience (2)
- † ENGL& 101 - English Composition I (5)
- OBT 162 - Microsoft Office Basics (3)

TOTAL CREDITS: 13

Foundation Courses: Quarter 2

- AHE 102 - Basic Medical Terminology (5)
- AHE 103 - Law, Ethics, and Professionalism in Healthcare (5)
- AHE 118 - Drug Dosage Calculations (5)

TOTAL CREDITS: 15

Foundation Courses: Quarter 3

- AHE 105 - Electronic Medical Documents and Administrative Procedures (6)
- AHE 106 - Anatomy and Physiology (6)
- AHE 201 - Basic Life Support (3)
- AHE 202 - First Aid (3)
- AHE 203 - Mental Health First Aid (3)

TOTAL CREDITS: 15

SECOND YEAR

Foundation Courses: Quarter 4

- AHE 110 - Introduction to Medical Coding and Insurance (5)
- AHE 112 - Basic Pharmacology (5)

TOTAL CREDITS: 10

Winter Quarter - ENTRY ONLY - Core Courses

- AHE 107 - Clinical Non-Sterile Procedures (6)
- AHE 108 - Clinical Sterile Procedures (6)
- AHE 109 - Medical Disease and Pathology (4)

TOTAL CREDITS: 16

Spring Quarter - Core Courses

- AHE 113 - Introduction to Phlebotomy (4)
- AHE 114 - Microbiology/Medical Lab Procedures (4)
- AHE 115 - Injection Therapy (4)

TOTAL CREDITS: 12

Summer Quarter - Coure Courses

- AHE 116 - Medical Assistant Clinical Practicum (6)
- AHE 117 - Medical Assistant Clinical Practicum Seminar (1)

TOTAL CREDITS: 7

NOTE:

† Students who do not receive an appropriate test score will require additional coursework to develop necessary skills for entry into class.

Medical Billing and Coding Specialist

Overview

The Medical Billing and Coding AAS degree prepares students for billing/coding careers in medical offices, hospitals, clinics, or insurance companies. Medical coding specialists learn the translation of written documentation of disease, injuries, and/or medical procedures into alphanumeric classifications. Currently, reimbursement for health care services is dependent on the assignment of codes to describe diagnoses, services, and procedures. In addition to coding, professional reimbursement specialists must learn the medical billing process to conform to individual insurance requirements, electronic billing procedures, and responsibilities associated with electronic data management. **An AAS degree is awarded to those students who complete the required courses with a grade of C or higher in each course.**

Sample career options include–

- **Billing, Cost and Rate Clerks**
- **Medical Records and Health Information Technicians**
- **Medical Secretaries**
- **Medical Administrative Assistants**

Program Map

Program Maps are an integral part of the Planning Guide. All foundation courses must be completed with a C grade or higher before a student may begin core classes. Completion of Math and English are a priority. Foundation courses are only offered in certain quarters. Core courses must be taken in sequence and a student may only begin core courses Winter quarter. This Program Map includes a recommended quarterly sequence of courses for a full-time student to earn this degree within two years. The courses align with the appropriate number of credits to meet degree requirements and is designed to help you create an individualized, customized Educational Plan, required of all SVC students. Please consult with an SVC Advisor to schedule courses and develop your personal Educational Plan.

MEDICAL BILLING AND CODING AAS

PROGRAM MAP

93 credits

FIRST YEAR

Foundation Courses: Quarter 1

- AHE 101 - Healthcare Interactions: D (3)
- CSS 103 - First Quarter Experience (2)
- ENGL& 101 - English Composition I (5)
- OBT 162 - Microsoft Office Basics (3)

TOTAL CREDITS: 13

Foundation Courses: Quarter 2

- AHE 102 - Basic Medical Terminology (5)
- AHE 103 - Law, Ethics, and Professionalism in Healthcare (5)
- AHE 118 - Drug Dosage Calculations (5)

TOTAL CREDITS: 15

Foundation Courses: Quarter 3

- AHE 105 - Electronic Medical Documents and Administrative Procedures (6)
- AHE 106 - Anatomy and Physiology (6)
- AHE 201 - Basic Life Support (1)
- AHE 202 - First Aid (1)
- AHE 203 - Mental Health First Aid (1)

TOTAL CREDITS: 15

SECOND YEAR

Foundation Courses: Quarter 4

- AHE 110 - Introduction to Medical Coding and Insurance (5)
- AHE 112 - Basic Pharmacology (5)
- CMST& 210 - Interpersonal Communication: D (5)

TOTAL CREDITS: 15

Winter Quarter - ENTRY ONLY - Core Courses

- AHE 109 - Medical Disease and Pathology (4)
- AHE 221 - Procedural Coding in Outpatient Settings (5)
- AHE 222 - Diagnostic Coding in Outpatient Settings (5)

TOTAL CREDITS: 14

Spring Quarter - Core Courses

- AHE 223 - Advanced Medical Insurance Billing (6)
- AHE 230 - Advanced Outpatient Coding and Auditing (5)
- AHE 240 - National Exam Preparation (4)

TOTAL CREDITS: 15

Summer Quarter

- AHE 241 - Online Coding Practicum (6)

TOTAL CREDITS: 6

Pharmacy Technician

Overview

The Pharmacy Technician Certificate program prepares students for the role of support personnel in hospital, clinical, community, and other pharmacy settings. Working under the direction of a licensed pharmacist, Pharmacy Technicians provide assistance to the pharmacist in a variety of technical tasks involving the packaging, distribution, compounding, labeling, and recording of drugs. Students will receive training in drug products, calculations, dosages, dispensing techniques, inventory management, third-party billing, and Washington State pharmacy law. In addition to lecture, students will have hands-on training in a lab environment and an opportunity to complete a practicum experience. This certificate requires four to five quarters of full-time attendance to complete the program of study, and has 30-35 credits of foundation courses required prior to Winter quarter entry to complete the core courses.

Sample career options include–

- **Pharmacy Technician**

Program Map

Program Maps are an integral part of the Planning Guide. All foundation courses must be completed with a C grade or higher before a student may begin core classes. Completion of Math and English are a priority. Foundation courses are only offered in certain quarters. Core courses must be taken in sequence and a student may only begin core courses Winter quarter. This Program Map includes a recommended quarterly sequence of courses for a full-time student to earn this degree within two years. The courses align with the appropriate number of credits to meet degree requirements and is designed to help you create an individualized, customized Educational Plan, required of all SVC students. Please consult with an SVC Advisor to schedule courses and develop your personal Educational Plan.

PHARMACY TECHNICIAN, CERTIFICATE

PROGRAM MAP

69 credits

Prerequisite Courses

- MATH 096 - Pre-Algebra (5) or higher with a grade of C or better, *or* a placement score into MATH 097

FIRST YEAR

Foundation Courses: Quarter 1

- AHE 101 - Basic Medical Terminology (5)
- CSS 103 - First Quarter Experience (2)
- OBT 162 - Microsoft Office Basics (3)
- ENGL& 101 - English Composition I (5)
  Students who do not receive an appropriate test score will require additional coursework to develop necessary skills for entry into class.

  TOTAL CREDITS: 13

Foundation Courses: Quarter 2

- AHE 102 - Basic Medical Terminology (5)
- AHE 118 - Drug Dosage Calculations (5)
- AHE 201 - Basic Life Support (1)
- AHE 202 - First Aid (1)
- AHE 203 - Mental Health First Aid (1)

  TOTAL CREDITS: 13

Foundation Courses: Quarter 3

- AHE 106 - Anatomy and Physiology (6)
  or
  - BIOL& 241 - Human Anatomy and Physiology I (5)
  - *and* BIOL& 242 - Human A and P II (5)
- AHE 112 - Basic Pharmacology (5)

  TOTAL CREDITS: 11

SECOND YEAR

Winter Quarter - ENTRY ONLY - Core Courses

- AHE 130 - Orientation to Pharmacy Practice (4)
- AHE 131 - Pharmacy Technician Terminology (3)
- AHE 132 - Applied Pharmacology (5)

  TOTAL CREDITS: 12

Spring Quarter - Core Courses

- AHE 133 - Pharmacy Records Management (4)
- AHE 134 - Applied Pharmacoloy II (5)
- AHE 135 - Community and Hospital Drug Dispensing/Management (4)

  TOTAL CREDITS: 13

Summer Quarter - Core Courses

- AHE 136 - Community Clinical Experience/Pharmacy Technician (3)
- AHE 137 - Hospital Clinical Experience/Pharmacy Technician (3)
- AHE 138 - Pharmacy Technician Clinical Experience Seminar (1)

  TOTAL CREDITS: 7

AUTOMOTIVE TECHNOLOGY

Overview

The Automotive Technology (AT) program holds a master certification from the Automotive Service Excellence Education (ASE). The program has been a first place winner of the "Award for Excellence" and received recognition as the best college independent automotive program in the nation.

Automotive Technology (AT) is a competency-based program designed to prepare students for a career in the automotive industry. The program's ASE Education Foundation accreditation provides students with instructors and a facility that meets national standards. These standards assist graduates in acquiring excellent job placement in the automotive career of their choice. Rapid advancement of new technology has created a need for highly skilled automotive technicians. Excellent employment opportunities exist in new vehicle dealerships, independent repair facilities, and various other areas of the industry.

The Automotive Technology program combines theory and practical experience during six quarters of instruction. Students develop diagnostic and repair skills on late model vehicles in a well-equipped shop. Subjects include brake and suspension systems, electrical/electronic systems, automatic and manual transmissions, heating and air conditioning, engines, engine performance, light-duty diesel, engine machining, and hybrid-electric/electric vehicles.

Sample career options include–

- **Automotive Master Technician**
- **Automotive Specialty Technicians**
- **Engine Machinist Specialist**

Learning Outcomes

General Education Learning Outcomes, pp 149-150

Graduates of the Automotive Technology program will be able to:

- Develop the skills and knowledge to work safely in the lab/shop environment.
- Demonstrate professional conduct as an individual and as a member of a group in a workplace environment.
- Demonstrate the ability to access and interpret technical information using various sources for use in vehicle testing, diagnosis and repair.
- Demonstrate the ability to correctly test, diagnose, repair and verify mechanical and electrical systems.
- Develop knowledge and retention of entry-level skills necessary to gain employment and certification in the automotive industry.

Program Admissions

Program entry begins with an application through Enrollment Services. Students may enter the Automotive Technology program at the beginning of Fall quarter. Advanced standing may be requested for prior education or experience.

Specialized Program Information

CAREER AND TECHNICAL EDUCATION (CTE)

Please see Academic Information, pp 231 for information regarding CTE.

INDUSTRY PROFESSIONAL COURSES

A series of courses to assist technicians currently employed in the field are offered throughout the academic year during regular degree courses. Classes are designed in several week blocks to accommodate working professionals and are taken alongside degree seeking students. Current offerings include (but are not limited to): AT 101, AT 121, AT 124, AT 131, AT 133, AT 205, AT 206, AT 215, and AT 226.

WORK-BASED LEARNING

Students will integrate classroom learning with work-based learning experience in Cooperative Education (AT 199) at a supervised work site. Department Chair approval is required. Credits and grades are based on job-hours worked, work performance, and completion of the learning objectives specified in the learning contract. Concurrent enrollment in a Cooperative Education Seminar or equivalent is required. A special project (AT 255) may be substituted for Cooperative Education with approval of the Department Chair.

Degree and Certificate Options

An **Associate in Applied Science Degree, AAS** is awarded upon completion of a minimum of 90 credits of specified technical and related education coursework above 100-level with both an overall 2.0 college level grade point average and a 2.0 grade point average in the technical major. The technical major consists of all of the "AT" labeled courses and MANF 121, WT 133 WT 231.

Students who are not pursuing an AAS degree may earn a certificate focusing on specific skills within the Automotive Technology program. A Certificate in Automotive Technology is awarded to students who complete the following courses with an accumulated grade point average of 2.0 and achieve technical competency.

AUTOMOTIVE TECHNOLOGY, AAS

Program Map

Program Maps are an integral part of the Planning Guide. Each Program Map includes a recommended quarterly sequence of courses for a full-time student to earn this degree within two years. The courses align with the appropriate number of credits to meet degree requirements and is designed to help you create an individualized, customized Educational Plan, required of all SVC students. Please consult with an SVC Advisor to schedule courses and develop your personal Educational Plan.

113 credits

FIRST YEAR

Fall Quarter

- AT 101 - Industrial Safety and Fundamentals (3)
- AT 121 - Automotive Electrical I (7)
- AT 133 - Chassis Electrical II (8)
- CSS 103 - First Quarter Experience (2)

TOTAL CREDITS: 20

Winter Quarter

- AT 124 - Brake Systems (8)
- AT 131 - Suspension, Steering and Alignment (7)
- † ENGL& 101 - English Composition I (5)

TOTAL CREDITS: 20

Spring Quarter

- AT 141 - Transmissions and Drivetrains (12)
- AT 201 - Automotive Parts and Service Specialist (3)
- † WMATH 100 - Professional Technical Applied Math (5)

TOTAL CREDITS: 20

SECOND YEAR

Fall Quarter

- AT 205 - Automotive Engines and Cooling Systems (8)
- AT 210 - Engine Performance I (7)
- WT 231 - Gas Metal Arc Welding for Beginners (2)

TOTAL CREDITS: 17

Winter Quarter

- ‡ AT 199 - Cooperative Education Experience (1-15)
- AT 212 - Engine Performance II (8)
- AT 215 - Alternative Power Technologies (7)
- CMST& 210 - Interpersonal Communication: D (5)

TOTAL CREDITS: 21+

Spring Quarter

- AT 206 - Automotive HVAC Systems (4)

- AT 220 - Professional Lab Techniques (8)
  or AT 225 - Engine Machining I (8)
- MANF 121 - First Aid and CPR (1) - *no substitutions*
- WT 133 - Oxy-Fuel Processes for Beginners (2)

TOTAL CREDITS: 15

NOTES

† Students who do not receive an appropriate test score will require additional coursework to develop necessary skills for entry into class.

‡ AT 199 may be taken at any time after the first year, including summer quarter.

AUTOMOTIVE CERTIFICATES

A certificate is awarded to students who complete the following courses with an accumulated grade point average of 2.0 and achieve technical competency approved by the Department chair.

AUTOMOTIVE ENGINE PERFORMANCE SPECIALIST CERTIFICATE

30 credits

REQUIRED COURSES

- AT 205 - Automotive Engines and Cooling Systems (8)
- AT 210 - Engine Performance I (7)
- AT 212 - Engine Performance II (8)
- AT 215 - Alternative Power Technologies (7)

AUTOMOTIVE PARTS AND SERVICE SPECIALIST CERTIFICATE

25 credits

REQUIRED COURSES

- AT 101 - Industrial Safety and Fundamentals (3)
- AT 199 - Cooperative Education Experience (1-15) (1)
- AT 201 - Automotive Parts and Service Specialist (3)
- CSS 103 - First Quarter Experience (2)
- CMST& 210 - Interpersonal Communication: D (5)
- ENGL& 101 - English Composition I (5)
- MANF 121 - First Aid and CPR (1)
- WMATH 100 - Professional Technical Applied Math (5)

MICRO-CERTIFICATES

AUTOMOTIVE ELECTRICAL SPECIALIST MICRO-CERTIFICATE

15 credits

REQUIRED COURSES

- AT 121 - Automotive Electrical I (7)
- AT 133 - Automotive Electrical II (8)

AUTOMOTIVE ENGINE MACHINIST MICRO-CERTIFICATE

16 credits

REQUIRED COURSES

- AT 205 - Automotive Engines and Cooling Systems (8)
- AT 225 - Engine Machining I (8)

AUTOMOTIVE TRANSMISSION SPECIALIST MICRO-CERTIFICATE

12 credits

REQUIRED COURSE:

- AT 141 - Transmissions and Drivetrains (12)

AUTOMOTIVE UNDERCAR SPECIALIST, MICRO-CERTIFICATE

15 credits

REQUIRED COURSES

- AT 124 - Brake Systems (8)
- AT 131 - Suspension, Steering and Alignment (7)

BUSINESS MANAGEMENT

PLANNING GUIDES

Overview

The Business Management (BUS) program is designed to develop the professional and business skills necessary to succeed in today's competitive, demanding, and changing business environment. The Business Management program includes instruction in business and management, leadership, professional selling, business law, economics, entrepreneurship, marketing, human resources, accounting and computer systems and applications.

Students may choose to earn a two-year Associate in Applied Science Degree, AAS in Business Management or a four-quarter certificate in Entrepreneurship Certificate. Throughout the Business Management program, students are given projects to complete that provide practical experience. These skills are designed for entry-level positions in various businesses and industries and may lead to supervisory or management positions combined with business experience. In this environment, a student can gain confidence, a sense of professionalism, and develop the tools to become a team player and leader. Students may also choose to take classes for career advancement goals or to enhance current skills. The Business Management program offers an online learning option.

Sample career options include–

- **Front-Line Supervisor of Office and Administrative Support Workers**
- **First-Line Supervisors of Retail Sales Workers**
- **Sales Managers**
- **Human Resource Specialist**

Program Learning Outcomes

General Education Learning Outcomes, pp 149-150.

Graduates of the Business Management program will be able to:

- Identify contemporary business concepts, principles and practices.

- Demonstrate the interrelationship of the functional areas of business including management, marketing, law, organizational behavior, computer and software systems, human resources, accounting, and finance.
- Analyze the interrelationship of a business organization within the larger business environment, including international business.
- Apply basic legal business concepts within the legal environment in which business is conducted.
- Perform basic business calculations to demonstrate basic financial literacy.
- Apply problem solving and analysis skills to business research questions and demonstrate appropriate solutions.
- Demonstrate professional and ethical behaviors expected of entry-level workers in the industry.

Program Admissions

Apply at Enrollment Services. Students may enter the program at the beginning of any quarter; although, some key courses are only offered at specific times during the year. For more information, contact the Counseling and Advising Services.

Specialized Program Information

CAREER AND TECHNICAL EDUCATION (CTE)

Please see Academic Information, pp 231 for information regarding CTE.

WORK-BASED LEARNING

Students will integrate classroom learning with an internship (BUS 199 - Internship / Cooperative Education) at a supervised work site. Credits and grades are based on job hours worked, work performance, and completion of learning objectives specified in the learning contract. Learn more about Cooperative Education at SVC.

Degree and Certificate Options

ASSOCIATE IN APPLIED SCIENCE DEGREE

An Associate in Applied Science Degree, AAS is awarded upon completion of a minimum of 90 credits of specified technical and related education coursework above 100-level with both an overall 2.0 grade point average and a 2.0 grade point average in the technical major.

CERTIFICATE

A Certificate in Business Management is awarded to students who complete the following courses with an accumulated grade point average of 2.0 and achieve technical competency.

MICRO-CERTIFICATE

Students who are not pursuing an AAS degree may earn a certificate focusing on specific skills within the Business Management program. A certificate is awarded to students who complete all courses with a 2.0 grade point average or above.

BUSINESS MANAGEMENT, AAS

An Associate in Applied Science Degree, AAS is awarded upon completion of a minimum of 90 credits of specified technical and related education coursework above 100-level with both an overall 2.0 grade point average and a 2.0 grade point average in the technical major.

PROGRAM MAP

Program Maps are an integral part of the Planning Guide. Each Program Map includes a suggested quarterly sequence of courses so you could earn your degree within two years of full-time study. Your Program Map is also designed to help you create an individualized, customized Educational Plan, which is required of all SVC students. To start creating your Educational Plan, please consult with an Academic Advisor.

90 credits

FIRST YEAR

1st Quarter

- ACCT& 201 - Prin of Accounting I (5)
- BUS& 101 - Introduction to Business (5)
- † ENGL& 101 - English Composition I (5)

TOTAL CREDITS: 15

2nd Quarter

- ACCT& 202 - Prin of Accounting II (5)
- BUS 120 - Business Computers and Applications (5)
- † MATH& 146 - Introduction to Stats (5)
- *or* BUS 111 - Business Math (5)
- *or* MATH& 148 - Business Calculus (5)
- PE 100 - Wellness For Life (1)

TOTAL CREDITS: 16

3rd Quarter

- ACCT& 203 - Prin of Accounting III (5)
- BUS 180 - Leadership Development and Management Skills: D (5)
- CMST& 220 - Public Speaking (5)
- PE - Activity (1)

TOTAL CREDITS: 16

SECOND YEAR

4th Quarter

- BUS& 201 - Business Law (5)
- BUS 240 - Fundamentals of Marketing (5)
- ECON 101 - Introduction to Economics (5)
  or ECON& 201 - Micro Economics (5)
  or ECON& 202 - Macro Economics (5)

TOTAL CREDITS: 15

5th Quarter

- BUS 112 - Personal Finance (5)
- BUS 205 - Human Resources Management (5)
- BUS 242 - Professional Selling and Sales Management (5)

TOTAL CREDITS: 15

6th Quarter

- BUS 122 - Social Media and Digital Marketing (5)
- BUS 199 - Internship / Cooperative Education (1-15) (3)
- BUS 280 - Entrepreneurship and Small Business Management (5)

TOTAL CREDITS: 13

NOTE:
† Students who do not receive an appropriate test score will require additional coursework to develop necessary skills for entry into class.

BUSINESS MANAGEMENT CERTIFICATES

ENTREPRENEURSHIP, CERTIFICATE

A certificate is awarded to students who complete the following courses with an accumulated grade point average of 2.0 and achieve technical competency.

60 credits

REQUIRED COURSES

- ACCT& 201-Prin of Accounting I (5)
- BUS& 101-Introduction to Business (5)
- BUS 111-Business Math (5)
  or MATH& 146-Introduction to Stats (5)
- BUS 120-Business Computers and Applications (5)
- BUS 122-Social Media and Digital Marketing (5)
- BUS 180-Leadership Development and Management Skills: D (5)
- BUS& 201-Business Law (5)
- BUS 205-Human Resources Management (5)
- BUS 240-Fundamentals of Marketing (5)
- BUS 280-Entrepreneurship and Small Business Management (5)
- CMST& 220-Public Speaking (5)
- ENGL& 101-English Composition I (5)

ENTREPRENEURSHIP, MICRO-CERTIFICATE

A certificate is awarded to students who complete the following courses with a 2.0 grade point average or above in each course.

15 credits

REQUIRED COURSES

- BUS 111-Business Math (5)
  or MATH& 146-Introduction to Stats (5)
- BUS 120-Business Computers and Applications (5)
- BUS& 101-Introduction to Business (5)

MANUFACTURING TECHNOLOGY

COMPOSITES TECHNOLOGY

Also see Manufacturing Technology and Marine Maintenance Technology.

Overview

Composites Technology is a part of the Manufacturing Technology program at Skagit Valley College. It is designed to provide a comprehensive education for the next generation of composite technicians. Marine, aerospace, transportation, medicine, construction, energy, and sports equipment represent some of the industries where composites are used. The growing demand for stronger, lighter, and more efficient building materials is driving the demand for skilled composites technicians who can work with these new materials and processes.

Students can work toward taking American Composites Manufacturers Association (ACMA) certification exams - the standard for composites credentialing. The Manufacturing Technology program offers composites training as part of the AAS and AAS-T degrees or as a stand-alone micro-certificate.

Program Learning Outcomes

General Education Learning Outcomes, pp 149-150

Certificate Learning Outcomes

Students that complete the Composites Repair Technician Micro-Certificate will be able to:

- Demonstrate the use of parting/release agents and prepare molds for use.
- Identify resins, initiators, promoters, solvents, and all chemicals.
- Perform hand layup using fiberglass mats.
- Demonstrate the proficient application of composite manufacturing methods, materials, and tools.
- Identify the correct temperature to control viscosity of a resin.
- Show proficiency in spraying gel coat using proper techniques.
- Properly prepare molds for use.
- Demonstrate an understanding of composite construction governing fiber selection.
- Use prepreg and advanced composite nomenclature when discussing composite manufacturing.
- Perform contact molding, vacuum bagging techniques, out of oven autoclave oven curing and Hot Bonder repairs.
- Demonstrate an understanding of the consumable materials used in vacuum bag/out and in autoclave molding.
- Develop production solutions for manufacturing processes using composite technologies.
- Develop control documents adequate to manage and maintain production processes.
- Produce prototypes using composite technologies adequate for testing and verification to production standards.
- Demonstrate the proper application of diagnostic testing on prototype products to verify design and process performance to standards.

COMPOSITES CERTIFICATE

COMPOSITES REPAIR TECHNICIAN MICRO-CERTIFICATE

This micro-certificate provides students with an overview of composites and their application across a spectrum of industries. Instruction covers materials commonly used in composite manufacturing processes such as hand lay-up, filament winding, compression molding, resin-transfer molding, and pultrusion. The fundamentals of fiberglass reinforced plastics with emphasis on chemical safety applicable to poly and vinyl-ester resins, solvents, and epoxies are taught. Students will receive hands-on training in use of molds, gel coats, release agents, resins, cosmetic color matching, and reinforcing materials in hand layup and vacuum infusion, and

structural repair. Industry-appropriate shop safety standards and correct use of Personal Protection Equipment is also covered. A certificate is awarded to students who complete the following courses with a 2.0 grade point average (GPA) and a minimum letter grade of C- or above in all required courses.

18 credits

REQUIRED COURSES

- MANF 114 - Manufacturing Advanced Skills Onboarding (3)
- MANF 262 - Composite Construction (5)
- MANF 267 - Advanced Composites (5)
- MANF 279 - Capstone Manufacturing Project: Composite Technology (5)

For more information, please contact the department chair:
360.416.6549

CRAFT BREWING

Overview

The Craft Brewing (BRW) program provides an overview of the craft brewery business, i.e. from farm to glass, and is designed to provide students with a foundation of knowledge required for successful entry-level employment in the craft brewing industry. With continued growth of the brewing industry nationwide and world-wide, owners and managers of major breweries, craft breweries, and brew pubs are seeking professionals who have been trained in the science and engineering of operations, as well as those who know and understand the demands of the brewing industry. The craft brewing industry is expected to grow in Washington State as the industry moves away from "factory" breweries (Olympia, Rainier, etc.) to small craft breweries.

In response to the demand for condensed technical training programs in brewing science, SVC has collaborated with regional craft brewing industry professionals to create a multi-disciplinary program that will provide education and training for those interested in working in this industry. The certificate program is structured to help students learn brew science theory through hands-on experience in the brew laboratory and at local breweries. The program includes industry professionals in the classroom, industry tours and internship experiences at regional breweries.

This is an ideal program for those considering entry into the brewing industry, as well as those pursuing wider knowledge of the business in order to improve their skills and advance in their career goals. Students will gain a level of industry knowledge that will benefit them in any area of responsibility in the brewery, covering every topic critical to successful brewery operations.

Program Learning Outcomes

General Education Learning Outcomes, pp 149-150

Graduates of the Craft Brewing program will be able to:

- Show competency in understanding the history of alcohol fermentation and the brewing of beer.
- Demonstrate the ability to utilize brew house facilities and brewing equipment.
- Demonstrate knowledge of the microbiology and biochemistry concepts of fermentation pertaining to the brewing of beer and distilled spirits.
- Analyze and demonstrate the steps in the brewing process - grain handling, malting, yeast and fermentation processes, raw materials and wort production, beer production, quality control, packaging processes, flavor production, and control.
- Identify classic and craft-brew beer styles and describe production of each.
- Analyze and evaluate business concepts of the brewing industry and the day-to-day activities involved with the operation of a solvent brewing facility.
- Demonstrate the ability to design and brew a beer that meets generally acceptable standards.
- Demonstrate knowledge of sustainability practices for raw materials, water, energy, processing and brewery waste.

Program Admissions

The Craft Brewing program only enrolls students Fall quarter. Please apply at Enrollment Services. This program has limited enrollment with students meeting the admission requirements admitted on a first-come, first-served basis.

PREREQUISITE

- Must be 21 years or older to participate in this program.

Sample Career Options

Many jobs in the craft brewing industry cross employment categories. People working in this industry can often be found working in management positions, sales/marketing, graphic design, service technicians, lab technicians, bartenders, and food service employees associated with restaurants or brew pubs. According to our local industry partners, job titles specific to brewing are brewers, maltsters, cellermen, bottling line workers, draught line technicians/cleaners, vat/equipment technicians, quality assurance/quality control technicians, and fermentation lab technicians. Working in a brewery can be physically demanding. Many tasks involve lifting, climbing, moving, carrying, pushing and pulling items weighing up to 50 lbs. or more. Due to legal restrictions associated with the production of beer and spirits, most businesses require workers to be at least 21 years of age prior to employment.

- **Brewer, Cellar Worker, Machine Tender, Pulper Operator**
- **Quality Control Technician (QC Technician)**

CRAFT BREWING CERTIFICATE

PROGRAM MAP

Program Maps are an integral part of the Planning Guide. Each Program Map includes a recommended quarterly sequence of courses for a full-time student to earn this certificate within two years. The courses align with the appropriate number of credits to meet degree requirements and is designed to help you create an individualized, customized Educational Plan, required of all SVC students. Please consult with an SVC Advisor to schedule courses and develop your personal Educational Plan.

CRAFT BREWING CERTIFICATE

41 credits

Fall

- BRW 101 - Culture of Craft Brewing (3)
- BRW 103 - Beverage Biochemistry (4)
- BRW 105 - Raw Materials (3)
- BRW 107 - Wort Production (3)
- BRW 160 - Brewery Lab I (1)

TOTAL CREDITS: 14

Winter

- BRW 110 - Brewery Operations (5)
- BRW 120 - Essentials of Quality Assurance/Quality Control (3)
- BRW 125 - Flavor Production and Control (2)
- BRW 128 - Industry Experience (1)
- BRW 161 - Brewery Lab II (2)
- BIOL 150 - Microbiology and Chemistry Laboratory Techniques for Brewing (1)

TOTAL CREDITS: 14

Spring

- BRW 130 - Business of Craft Brew (4)
- BRW 135 - Tradition and Innovation in Beer Styles (2)
- BRW 198 - Brewery Capstone Project (2)
- BRW 199 - Brewery Internship (5)

TOTAL CREDITS: 13

CULINARY ARTS

Overview

The Culinary Arts (CUL) program is among the few culinary programs accredited by the prestigious American Culinary Federation Education Foundation (ACFEF). Course content emphasizes "hands-on" lab work and a variety of flexible teaching techniques designed to meet the needs of diverse learning styles. Emphasis is placed on the necessity for the modern culinary professional to understand global food trends and international flavor principles in a working environment sensitive to cultural and general differences.

First-year courses build a foundation of basic culinary skills with many opportunities for hands on learning. Second year courses offer students choices in Advanced Culinary or Baking and Pastry.

SVC is uniquely located in one of the world's most diverse farming/growing regions. Working with "Fresh and Local" ingredients are an integral part of the culinary experience and position students on the cutting edge of this national trend.

Trained, qualified chefs are in demand and the SVC Culinary Arts program is the place to prepare you for this emergent industry. Whether you want to bolster your culinary knowledge, advance in your current food service career, become an entrepreneur, or begin your career path in Culinary Arts, the SVC Culinary Arts program is the one for you!

Degree and Certificate Options

ASSOCIATE IN APPLIED SCIENCE DEGREES

An Associate in Applied Science Degree, AAS is awarded upon completion of a minimum of 90 credits of specified technical and related education coursework above 100-level with both an overall 2.0 grade point average and a 2.0 grade point average in the technical major.

- **Culinary Arts Baking and Pastry, AAS**
- **Culinary Arts, Culinary Emphasis, AAS**

CERTIFICATES

These certificates focus on a specific skill within this program. A certificate is awarded to those students who complete a one-quarter block of classes plus CUL 123 - Safety and Sanitation (ServSafe).

- **Culinary Arts, Professional Cooking Certificate**

MICRO-CERTIFICATES

Typically two quarters or less, micro-certificates are focused on providing training in a specific skill.

- **Culinary Arts, Basic Bakery Competence Micro-Certificate**

Program Learning Outcomes

General Education Learning Outcomes, pp 149-150.

Graduates of Culinary Arts will be able to:

Meet skill standards of the American Culinary Federation (ACF) and eligibility to obtain certification as a Certified Culinarian or Certified Pastry Culinarian.

- Explain and apply safety and sanitation procedures in compliance with national standards.
- Demonstrate and assess fundamental techniques, knife skills, sustainable practices and cooking procedures.
- Identify and demonstrate fundamental baking techniques, weights, measurements and standard recipe execution.
- Identify the role of leadership. Demonstrate effective communication skills. Identify the steps necessary to overcome conflict.
- Demonstrate skills and assessment of advance yeast breads, pastries, confections and dessert products.

Graduates of the Culinary emphasis degree will be able to::

Meet skill standards of the American Culinary Federation (ACF) and eligibility to obtain certification as a Certified Culinarian or Certified Pastry Culinarian.

- Explain and apply safety and sanitation procedures in compliance with national standards.
- Demonstrate and assess fundamental cooking techniques, knife skills, sustainable practices and cooking procedures.
- Identify and demonstrate fundamental baking techniques, weights, measurements and standard recipe execution.
- Identify the role of leadership. Demonstrate effective communication skills. Identify the steps necessary to overcome conflict.
- Demonstrate and Identify dining room service procedures. List exotic ingredients and cooking technique

Program Admissions

Please apply at Enrollment Services. Students may enter the program at the beginning of fall or winter quarter. For more information, contact the Department Chair or Enrollment Services.

Specialized Program Information

WORK-BASED LEARNING

Students will integrate classroom learning with work-based learning experience in Cooperative Education (CUL 199) at a supervised work site. Department Chair approval is required. Credits and grades are based on job-hours worked, work performance and completion of the learning objectives specified in the learning contract. Concurrent enrollment in a Cooperative Education Seminar or equivalent is required.

Program Maps

Program Maps are an integral part of the Planning Guide. Each Program Map includes a recommended quarterly sequence of courses for a full-time student to earn this degree within two years. The courses align with the appropriate number of credits to meet degree requirements and is designed to help you create an individualized, customized Educational Plan, required of all SVC students. Please consult with an SVC Advisor to schedule courses and develop your personal Educational Plan.

CULINARY ARTS, BAKING AND PASTRY, AAS

Sample career options include–

- Baker
- Chefs and Head Cooks
- Cook, Restaurant

PROGRAM MAP

100 credits

FIRST YEAR

1st Quarter

- CUL 123 - Safety and Sanitation (3)
- CUL 164 - Baking Theory (3)
- CUL 165 - Baking Lab (10)
- CSS 103 - First Quarter Experience (2)

TOTAL CREDITS: 18

2nd Quarter

- † CUL 111 - Culinary Math (5)
- CUL 170 - Introduction to Culinary Arts (1)
- CUL 171 - Cooking Fundamentals (3)
- CUL 172 - Stocks, Soup and Sauces(3)
- CUL 173 - The Cold Kitchen (3)
- CUL 174 - Food Identification and Preparation (3)

TOTAL CREDITS: 18

3rd Quarter

- CUL 101 - Sustainable Food System Practices (3)
- CMST& 210 - Interpersonal Communication: D (5)
  or CMST& 220 - Public Speaking (5)
- † ENGL& 101 - English Composition I (5)
- OBT 162 - Microsoft Office Basics (3)
  or OBT 122 - MS Word I (3)

TOTAL CREDITS: 16

SECOND YEAR

4th Quarter

- CUL 210 - Human Resources Management and Supervision (3)
- CUL 236 - Controlling Foodservice Costs (3)
- CUL 240 - Bakery Sous Chef Lab (10)

TOTAL CREDITS: 15

5th Quarter

- ‡ CUL 199 - Cooperative Education Experience (5)
- CUL 237 - Wine and Beverage Studies (3)
- NUTR& 101 - Nutrition (5)
- √ PE 200 - First Aid, Safety, and CPR (2)

TOTAL CREDITS: 16

6th Quarter

- CUL 239 - Chocolate, Sugar and Fondant Cakes (3)
- CUL 242 - Advanced Breads and Pastry (10)
- CUL 264 - Advanced Breads and Pastry Theory (3)
- CUL 297 - Baking and Pastry Capstone Project (1)

TOTAL CREDITS: 17

NOTES

† Students who do not receive an appropriate test score will require additional coursework to develop necessary skills for entry into class. (MATH 096 or higher is required for the one-year certificate). (CUL 111 fulfills the WMATH 100 requirement for Culinary Arts).

‡ CUL 199 may be taken at any time during the two-year program with Department Chair approval.

√ or a valid CPR/First Aid certification from an approved provider

CULINARY ARTS, CULINARY, AAS

Sample career options include–

- Food Service Manager
- Chefs and Head Cooks
- Cook, Restaurant

PROGRAM MAP

103 credits

FIRST YEAR

1st Quarter

- CUL 123 - Safety and Sanitation (3)
- CUL 164 - Baking Theory (3)
- CUL 165 - Baking Lab (10)
- CSS 103 - First Quarter Experience (2)

TOTAL CREDITS: 18

2nd Quarter

- † CUL 111 - Culinary Math (5)
- CMST& 210 - Interpersonal Communication: D (5)
  or CMST& 220 - Public Speaking (5)
- † ENGL& 101 - English Composition I (5)
- OBT 162 - Microsoft Office Basics (3)
  or OBT 122 - MS Word I (3)

TOTAL CREDITS: 18

3rd Quarter

- CUL 101-Sustainable Food System Practices (3)
- CUL 170-Introduction to Culinary Arts (1)
- CUL 171-Cooking Fundamentals (3)
- CUL 172-Stocks, Soups and (3)
- CUL 173-The Cold Kitchen (3)
- CUL 174-Food Identification and Preparation (3)

TOTAL CREDITS: 18

SECOND YEAR

4th Quarter (SUMMER)

- CUL 184-Remarkable Service (3)
- CUL 185-American Regional Cuisines (10)
- CUL 210-Human Resources Management and Supervision (3)

TOTAL CREDITS: 16

5th Quarter

- ‡ CUL 199-Cooperative Education Experience (5)
- CUL 236-Controlling Foodservice Costs (3)
- CUL 237-Wine and Beverage Studies (3)
- NUTR& 101-Nutrition (5)
- √ PE 200-First Aid, Safety, and CPR (2)

TOTAL CREDITS: 17

6th Quarter

- CUL 238-Garde Manger (3)
- CUL 241-International Cuisines (10)
- CUL 284-Food Business Concepts (3)
- CUL 298-Culinary Capstone Project (1)

TOTAL CREDITS: 16

NOTES

† Students who do not receive an appropriate test score will require additional coursework to develop necessary skills for entry into class. (MATH 096 or higher is required for the one-year certificate). (CUL 111 fulfills the WMATH 100 requirement for Culinary Arts).

‡ CUL 199 may be taken at any time during the two-year program with Department Chair approval.

√ or a valid CPR/First Aid certification from an approved provider

CULINARY ARTS, PROFESSIONAL COOKING CERTIFICATE

60 credits

REQUIRED COURSES

A Certificate in Professional Cooking is awarded to those who complete a three-quarter sequence of 3 modules and complete the following courses with a minimum 2.0 grade point average in each disciplinary (CUL) course:

1st Quarter

- CUL 164-Baking Theory (3)
- CUL 165-Baking Lab (10)

TOTAL CREDITS: 13

2nd Quarter

- CUL 170-Introduction to Culinary Arts (1)
- CUL 171-Cooking Fundamentals (3)
- CUL 172-Stocks, Soups and Sauces (3)
- CUL 173-The Cold Kitchen (3)
- CUL 174-Food Identification and Preparation (3)

TOTAL CREDITS: 13

3rd Quarter

- CUL 184-Remarkable Service (3)
- CUL 185-American Regional Cuisines (10)

TOTAL CREDITS: 13

Additional Required Courses

- CUL 101-Sustainable Food System Practices (3)
- CUL 111-Culinary Math (5)
  or ***choose from one of the following:***
  - MATH 096-Pre-Algebra (5)
  - WMATH 100-Professional Technical Applied Math (5)
- CUL 123-Safety and Sanitation (3)
- CUL 199-Cooperative Education Experience (1)
- CUL 237-Wine and Beverage Studies (3)
- ENGL 099-Basic Composition (5)
  or ENGL& 101-English Composition I (5)
- PE 200-First Aid, Safety, and CPR (2)
  or PE 205-Basic First Aid (1)

CULINARY ARTS, BASIC BAKERY COMPETENCE MICRO-CERTIFICATE

PROGRAM MAP

16 credits

A certificate is awarded to students who complete the following courses with a minimum 2.0 grade point average in each disciplinary (CUL) course:

- CUL 123 - Safety Sanitation (3)
- CUL 164 - Baking Theory (3)
- CUL 165 - Baking Lab (10)

TOTAL CREDITS: 16

DATA MANAGEMENT AND ANALYTICS

Overview

Data Management and Analytics (DATA) is a forward-thinking, interdisciplinary program that allows students to serve as a contractor, consult for businesses, or get an entry level job in the area of data management and analytics. The Data Management and Analytics program focuses on preparing students to lead and thrive in a cloud-driven industry and determine, analyze, and communicate relevant information and data in a variety of workplace settings. DATA is an interdisciplinary and technologically forward-thinking two-year degree focusing on the theory, organization, and process of data collection, transmission, analysis, and utilization. DATA focuses on four broad areas:

1. Professional communication
2. Business leadership
3. Decision making
4. Systems design, development, operations

Content includes information classification and organization; information storage and processing; communications; systems planning and design; human interfacing and use analysis; database development; information policy analysis; and related aspects of software, economics, social factors, and capacity. Students will acquire invaluable experience in teamwork,

decision-making, leadership, and develop a growth mindset right along with learning essential technology skills.

Program Learning Outcomes

General Education Learning Outcomes, pp 149-150.

Upon completion of the SVC Information Management and Data Science program, students will be able to:

- Demonstrate mastery of industry-grade technologies in data analysis techniques.
- Address business needs and opportunities using data-driven approaches.
- Optimize data management ecosystems in the cloud, networks, and physical premises using ethical practices and security standards.

Program Admissions

Enrollment for Fall will begin in May. To get started, please contact Enrollment Services.

Specialized Program Information

PROGRAM HIGHLIGHTS

- Offered online with weekly cohort connect via Zoom.
- Program cohort has Fall entry.
- Industry certifications are intertwined in the courses; students will have the option to prepare and certify for industry certifications during the entirety of their degree program. Both Amazon and Microsoft technologies are in demand in the marketplace today.
- Begin with building basic skills in data analysis and database fundamentals, then moving on to more intermediate and advanced concepts and applied skills such as working with non-relational data, data visualization, and finally exploring data science and machine learning.
- Career readiness, integrated real-world projects and internships.
- Upon completion, workforce degrees are intended to give students the skills needed to move directly into employment. While these degrees are not intended to transfer to a university, DATA graduates will be eligible to apply for admissions to two of Skagit Valley College's Bachelor's programs: Bachelor of Applied Science - Management, BAS degree and Bachelor of Applied Science - Software Development, BAS degree.

WORK-BASED LEARNING

Cooperative education is integrated in two-parts. Students work on product ideation during the first year and then product deployment during their second year.

Degree Option

This program offers an Associate in Applied Science Degree, AAS degree in Data Management and Analytics. During their first year, students are introduced to foundational hands-on-skills in the general areas of technological futures, cloud computing, and programming. In the second year, students continue with more advanced topics in data information systems, computing architecture, and development. The program will be offered online with weekly cohort connects via Zoom. Industry certifications are intertwined throughout the courses giving students the option to prepare and certify in a variety of skills. The program also includes experiential learning through two cooperative education internship courses where students will work on product ideation and product deployment.

Sample Career Options

Data science and analytics continue to raise demand in the market, and there are concerns that the future workforce is dangerously behind demand. Companies expect their employees and contractors to be able to effectively analyze data and information. The national average salary for experienced data-related engineers is approximately $135,164 USD/year which is 9% above the national salary average. Approximately $109,745 USD/year is the average salary for data-related engineers in the State of Washington, which is 12% below the national data-related engineer average. The average salary for Data Analysts Salaries in Washington State based on salaries estimated from 81 employees, users and past and present job advertisements on Indeed in the past 36 months as of June 6, 2019 is $71,623 USD/year.

- Data Analysts salaries for a candidate with less than one year of experience is estimated at approximately $54,100 USD/year and approximately $60,300 USD/year for prospective employees with 1 to 5 years of experience.
- Computer and Information Systems, Database administration, and Technical Writing have an average annual wage between $62,563 to $157,980.

Program Map

Program Maps are an integral part of the Planning Guide. Each Program Map includes a recommended quarterly sequence of courses for a full-time student to earn this degree within two years. The courses align with the appropriate number of credits to meet degree requirements and is designed to help you create an individualized, customized Educational Plan, required of all SVC students. Please consult with an SVC Advisor to schedule courses and develop your personal Educational Plan.

DATA MANAGEMENT AND ANALYTICS, AAS

PROGRAM MAP

90 credits

FIRST YEAR

Fall Quarter

- DATA 101 - Introduction to Data and its Application (5)
- BUS& 101 - Introduction to Business (5)
- ENGL& 101 - English Composition I (5)

TOTAL CREDITS: 15

Winter Quarter

- DATA 110 - Essentials of Cloud and Technological Ecosystems (5)
- DATA 120 - Programming Fundamentals with Python (5)

- DATA 130 - Introduction to Relational Databases and SQL (5)

TOTAL CREDITS: 15

Spring Quarter

- DATA 105 - Exploring Data Science and Technological Applications (5)
- DATA 199 - Community Contribution / Cooperative Education (Capstone I) (5)
- MATH& 146 - Introduction to Stats (5)

TOTAL CREDITS: 15

SECOND YEAR

Fall Quarter

- DATA 215 - Big Data and Data Analytics (5)
- DATA 230 - Advanced Relational Databases and SQL (5)
- CMST& 210 - Interpersonal Communication; D (5)

TOTAL CREDITS: 15

Winter Quarter

- DATA 225 - Business Intelligence and Predictive Analytics (5)
- DATA 235 - Ethics and Law in Data and Analytics (5)

Transferable Elective Credits (5)
Suggested: ENGL& 235, CS 101, or LIB 201. Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.

TOTAL CREDITS: 15

Spring Quarter

- DATA 240 - Current Trends in Computing Futures (5)
- DATA 245 - Data Security (5)
- DATA 299 - Community Contribution / Cooperative Education (Capstone II) (5)

TOTAL CREDITS: 15

DENTAL FOUNDATIONS

Overview

The Dental Foundations (DEN) program is a collaborative educational program being offered through a partnership between Skagit Valley College (SVC) and the Northwest Career and Technical Academy (NCTA) - located on the SVC campus. This is a three-quarter program designed to provide entry-level skills and education to co-enrolled high school juniors, seniors and college students interested in a future career as a dental professional. This is a full-year program (Sept.-June) with courses scheduled sequentially. Classes are block-scheduled for 2.5 hours per day Monday-Friday. Students can choose either the 8 a.m. to 10:30 a.m. section or the 11:30 a.m. to 2 p.m. section.

Program Learning Outcomes

General Education Learning Outcomes, pp 149-150

Graduates of the Dental Assisting program will be able to:

- Demonstrate academic, technical and professional skills that effectively contribute to the dental healthcare team.
- Demonstrate cognitive retention of dental terminology, theory and science.
- Perform basic dental front office skills.
- Demonstrate critical thinking, teamwork, problem solving, communication, and positive work ethics as they directly relate to the dental profession.
- Prepare to obtain an entry-level position in their field of study.

Program Admissions

Please apply at Enrollment Services. Students may enter the Dental Foundations program at the beginning of Fall quarter. For more information, contact the Department Chair or Enrollment Services.

Sample Career Options

Students completing the Dental Foundations certificate are prepared for entry-level employment as a Sterilization Assistant or Dental Receptionist. An employer may also provide on-the-job training necessary to move into a Dental Assistant position.

Certificate Option

A certificate is awarded to those students who complete courses with a minimum C grade or above in each course.

DENTAL FOUNDATIONS CERTIFICATE

PROGRAM MAP

24 Credits

FIRST YEAR

Fall Quarter

- DEN 100 - Introduction to Dental Assisting (1)
- DEN 105 - Head and Neck Anatomy (2)
- CSS 103 - First Quarter Experience (2)

TOTAL CREDITS: 5

Winter Quarter

- DEN 110 - Dental Foundations (5)
- DEN 114 - Dental Sciences (4)

TOTAL CREDITS: 9

Spring Quarter

- DEN 112 - Chairside Assisting I (7)
- DEN 128 - Introduction to Dental Clinic (2)
- AHE 201 - Basic Life Support (1)

TOTAL CREDITS: 10

DENTAL THERAPY

Overview

Dental Therapy (DT) dəxʷx̌ayəbus - (pronounced as dahf-hi-ya-boos) is a Lushootseed phrase that translates to a Place of Smiles. Lushootseed is a common language of coastal Salish tribes, made up of many local dialects of Native Americans throughout the Puget Sound region. The objective of the program is to deliver “smiles” since smiles are strong indicators of personal confidence as well as physical and mental health.

The Dental Therapy program (dəxʷx̌ayəbus) was created to increase access to quality, culturally responsive providers who are oral health advocates in their communities. The expectation is that graduates of the Dental Therapy (dəxʷx̌ayəbus) program will be skilled clinicians who practice with confidence, and value the patient/provider relationship. Graduates will have learned to treat all individuals with respect, and value the importance of life-long learning.

Program Learning Outcomes

General Education Learning Outcomes, pp 149-150

Graduates of the Dental Therapy program will be able to:

- Develop clinical care through a holistic health team approach that is grounded in evidence-based practices, rich in cultural humility, public health, and community awareness.
- Recognize the complexity of patient care and partner with patients to collaborate with other dental specialists and healthcare providers in managing patient's comprehensive oral health.
- Comprehend the oral health needs of underserved communities, specifically native communities, and become oral health advocates when leading community service-related activities.
- Apply scientific knowledge when learning, researching, and delivering oral health care by utilizing critical thinking and evidence-based decision-making.

Dental Therapy Curriculum

The program is based on a non-dental hygiene model. The 28-month curriculum is designed to develop graduates who have the knowledge base, and understand the values of patient/provider interaction. Graduates will have demonstrated competence in the skill sets necessary to begin the practice of dental therapy.

In Year 1, the curriculum theme is devoted to Preparation (Quarters 1 and 2) and Processing (Quarters 3 and 4) of information to serve as the foundation for future attainment of competence. In addition, students begin the development of the psychomotor skills through simulated preclinical educational activities and formative assessments.

Year 2 curriculum builds on the content from Year 1 by combining didactic and psychomotor learning with clinical experience. The theme during Year 2 is Application (Quarter 5) and Integration (Quarters 6, 7 and 8). Both cognitive, affective, and psychomotor skills move beyond the preclinical foundations and experiences introduced in Year 1.

Year 3 will take place at the student's sponsoring clinic and is designed as an immersion into the practice of dental therapy. The theme of this year (Quarter 9) is Reflective Practice. Students will continue to develop as a competent dental therapist through the synthesis, application and interpretation of all cognitive, affective, and psychomotor skills learned in Years 1 and 2. Students will continue to be evaluated and will be provided feedback to aid in their growth and confidence building.

Program Accreditation

Dental Therapy is approved by the Northwest Commission on Colleges and Universities (NWCCU) and Washington State Board for Community and Technical Colleges (SBCTC).

- NWCCU - 8060 165th Avenue NE, Suite 200, Redmond, WA 98052. Telephone: 425.558.4224
- SBCTC - 1300 Quince St SE, 4th floor, Olympia, WA 98504-2495. Telephone: 360.704.4400

The Dental Therapy (dəxʷx̌ayəbus) program is accredited by the Commission on Dental Accreditation and has been granted the accreditation status of "initial accreditation." The Commission is a specialized accrediting body recognized by the United States Department of Education. The Commission on Dental Accreditation can be contacted at 312.440.4653 or at 211 East Chicago Avenue, Chicago, IL 60611. The Commission's website address is: **https://coda.ada.org/en**.

Program Admissions

The Dental Therapy (dəxʷx̌ayəbus) program is a selective admissions program with a dedicated application process. Prospective students who successfully complete the admissions process described below will be contacted for an interview. The format of the interview is designed to select students who are adaptable, active listeners, and motivated to address oral health issues. Applicants who successfully pass the interview phase will be given a conditional acceptance status. For final acceptance into the program, applicants must clear a background check and drug screening through a third-party HIPAA-compliant enterprise system, provide a record of immunization(s), and have a completed Clinical Affiliation Agreement.

ADMISSIONS PROCESS:

Dental Therapy uses the following minimum requirements for admission:

- Students may only enter the Dental Therapy program at the beginning of Fall quarter.
- Complete the online Admissions Application (OAAP) that is required for general admission to Skagit Valley College. Go to **skagit.edu/getstarted** to apply for admission at Skagit Valley College.
- Complete a supplemental application (which accompanies OAAP), and a Dental Therapy program specific application.
- Must have a High school diploma or equivalent.
- Must be 18 years or older at time of application.
- Must have proof of 200 hours of dental clinic experience.
- Must pass a comprehensive background check including a national multi-state criminal background check via a third party vender.
- Must pass a drug screening test via a third party vender.
- Must have proof of current immunizations/vaccinations against diphtheria, tetanus, pertussis, MMR, hepatitis B, varicella, annual influenza, COVID vaccination, and negative Tuberculosis (TB) evaluation via a third party vender.
- Must have proof of health insurance.

- Compose an essay of 300-500 words maximum answering the following questions:
    1. Describe how you are involved in your community and how will you influence oral care services as a dental therapist.
    2. Describe and provide examples of your strengths that will shape you into an oral healthcare advocate and life-long learner.

- Provide the name and contact information (address, email, and phone number) of the Health Administrator responsible for completing the Clinical Affiliation Agreement.
- Provide the name and contact information (address, email, and phone number) of the individual(s) who will be the Supervising Dentist(s).
- Provide two letters of recommendation from teachers, employers, or supervisors.

PROGRAM REMEDIATION PROCESS

Progression in the Dental Therapy program is dependent on a satisfactory performance rating. Students must achieve a cumulative final grade of at least 74% (a grade of "C") to pass a course. A score of 73.9% is not considered a passing grade by the Dental Therapy program. There is absolutely no rounding up of scores.

If a student is not passing a course, the instructor will meet with the student to schedule one-on-one instructional session(s). The goal is to identify students who need tutoring to understand the basics before attempting to learn more complex concepts. The tutoring sessions are documented.

If a student fails an entire course:

- Any student with a course grade of 73.9% (failing) will have the opportunity to improve their grade with remediation and an improvement plan created by the instructor.
- A final grade for a course that has been remediated will not exceed 74%.
- If a student fails to meet the requirements described in the improvement plan, the remediation results will go to the dəxʷx̌ayəbus-Student Assessment Committee (dSAC) for review. dSAC's recommendations will be forwarded to the Program Director.
- A student can submit an appeal letter to dSAC explaining the circumstances regarding course failure. The dSAC will review the circumstances and make a recommendation to the Program Director.
- The Program Director will review the dSAC recommendation and make a final decision.

Students who are failing two or more courses in the same quarter and cannot complete remediation will be dismissed from the Dental Therapy program.

PROGRAM DISMISSAL AND RE-ENTRY

Once admitted to the Dental Therapy program, students must comply with the rules and regulations of the program and any of the clinical affiliates or be subject to dismissal from the program. See the Dental Therapy Student Handbook for more information.

Students must perform in a safe and competent manner in the clinical facilities and comply with the rules and regulation of the Dental Therapy department and clinical affiliates.

Failure to do so may result in immediate dismissal from the clinical facility and the Dental Therapy program. Unsafe practice in the clinical setting may result in a failing grade in the clinical practicum courses.

Prior students not currently enrolled in the program who wish to re-enter must petition for readmission. Prior students who have not attended school for two or more quarters must meet with the department chair before continuing in the program. Selected courses may need to be repeated before a student will be placed in a clinical practicum. Students who have not attended for four quarters prior to practicum placement may be required to retake clinical, core program, and/or science courses that have regularly updated curriculum. Students will be assessed based on past performance, current performance and experience, and then given an individualized remediation plan of courses to become practicum eligible. Practicum placement may be delayed due to full cohorts; students reentering may plan on being placed into the next available open practicum cohort group.

Specialized Program Information

CERTIFICATION/LICENSURE

Upon successful completion of graduation requirements, student will earn Associate in Applied Science (AAS) degree in Dental Therapy. Graduates become eligible to be certified/licensed through regional certification/licensure boards.

DENTAL THERAPY PROGRAM LOCATIONS

The Dental Therapy program at SVC is offered at the Mount Vernon Campus and Swinomish Indian Tribal Community (SITC) Dental Clinic.

- Mount Vernon Campus - 2405 E College Way, Mount Vernon, WA 98273
- SITC Dental Clinic - 17395 Reservation Rd., PO Box 332, La Conner, WA 98257

Program Notes

For additional information about the Dental Therapy program, go to SVC's website at **skagit.edu/dentaltherapy**.

Program Map

Program Maps are an integral part of the Planning Guide. The Dental Therapy program map includes a required quarterly sequence of courses so students can earn their degree within two years of full-time attendance. The Program Map is also designed to help create an individualized Educational Plan. If required, faculty and staff will work with the student to create an educational plan once they are admitted to the program

Dental Therapy courses are only offered in the quarter listed for each class.

PROGRAM MAP

142 credits

FIRST YEAR

Fall Quarter

- DT 101 - Fundamentals of Dental Therapy I (4)
- DT 111 - Dental Therapy Lab I (2)
- DT 131 - Oral Health Education I (2)
- CSS 103 - First Quarter Experience (2)

- CMST& 210 - Interpersonal Communication: D (5)

TOTAL CREDITS: 15

Winter Quarter

- DT 102 - Fundamentals of Dental Therapy II (1)
- DT 112 - Dental Therapy Lab II (1)
- BIOL& 170 - Human Biology (5)
- ENGL& 101 - English Composition I (5)
- HMATH 100 - Math for Health Professions (5)

TOTAL CREDITS: 17

Spring Quarter

- DT 113 - Dental Therapy Lab III (4)
- DT 132 - Oral Health Education II (2)
- DT 142 - Anatomy, Physiology, Head and Neck, and Pathology (3)
- DT 144 - Cariology and Minimally Invasive Dentistry (3)
- DT 156 - Hygiene and Periodontology (3)

TOTAL CREDITS: 15

Summer Quarter

- DT 114 - Dental Therapy Lab IV (5)
- DT 133 - Oral Health Education III (5)
- DT 135 - Diagnosis and Treatment Planning (3)
- DT 143 - Preclinical Operative (5)

TOTAL CREDITS: 17

SECOND YEAR

Fall Quarter

- DT 200 - Introduction to Clinical Care (4)
- DT 210 - Dental Therapy Skill Consolidation (3)
- DT 221 - Professional Dental Therapy Practice I (3)
- DT 261 - Pharmacy and Medical/Dental Emergency (4)
- DT 265 - Local Anesthesia (2)

TOTAL CREDITS: 16

Winter Quarter

- DT 201 - Advanced Dental Therapy Concepts I (2)
- DT 211 - Dental Therapy Clinic I (4)
- DT 222 - Professional Dental Therapy Practice II (2)
- DT 231 - Community Oral Health Programs I (2)
- DT 235 - Advanced Diagnosis and Treatment Planning (3)
- DT 240 - Oral Health Education IV (2)

TOTAL CREDITS: 15

Spring Quarter

- DT 202 - Advanced Dental Therapy Concepts II (2)
- DT 212 - Dental Therapy Clinic II (6)
- DT 223 - Professional Dental Therapy Practice III (2)
- DT 232 - Community Oral Health Programs II (2)
- DT 241 - Community Rotations I (4)

TOTAL CREDITS: 16

Summer Quarter

- DT 203 - Advanced Dental Therapy Concepts III (2)
- DT 213 - Dental Therapy Clinic III (6)
- DT 224 - Professional Dental Therapy Practice IV (3)
- DT 242 - Community Rotations II (4)
- DT 280 - Digital Health Communications (2)

TOTAL CREDITS: 17

THIRD YEAR

Fall Quarter

- DT 295 - Preceptorship (14)

TOTAL CREDITS: 14

DIESEL POWER TECHNOLOGY

PLANNING GUIDE

Overview

The Diesel Power Technology (DSL) program is designed to prepare students for employment in an exciting and growing field. Diagnosis and repair of heavy trucks, industrial and agricultural machinery, transit, marine, and generator power sets are but a few of the career pathways graduates can take upon concluding the program. This efficient energy source is widely used, and provides jobs for those who enjoy working on heavy-duty equipment and the challenges of troubleshooting and diagnosing the ever-increasing use of electronic controls in the diesel industry.

Since many of today's systems are electronically controlled, the demand for trained technicians is greater than ever. Employers want employees who can understand a system and troubleshoot a problem logically. The Diesel Power Technology program provides training to fill that critical void.

The six-quarter Diesel Power Technology program combines classroom theory with hands-on experience in a well-equipped diesel shop, where students have the opportunity to work on modern diesel engines as well as a variety of drive train components. Electronic diagnostics are emphasized throughout the course, not only with engines but also components such as transmissions and ABS brakes. A modern computer lab will also help prepare students to retrieve repair information electronically, a skill which is becoming mandatory in today's workforce.

Students will be required to provide their own basic set of hand tools during their first quarter of the program and keep them at the diesel shop for the duration of their training.

Sample career options include–

- **Bus and Truck Mechanics and Diesel Engine Specialists**
- **Farm Equipment Mechanics and Service Technicians**
- **Mobile Heavy Equipment Mechanics**

Program Learning Outcomes

General Education Learning Outcomes, pp 149-150.

Graduates of the Diesel Power Technology program will be able to:

- Demonstrate an ability to arrive on time and be prepared to go to work at the appointed time.
- Be proficient at locating specific technical information regarding various repair procedures.
- Demonstrate proficiency with electrical diagnostics and meter usage.

Program Admissions

Please apply at Enrollment Services. Students may enter the Diesel Power Technology program at the beginning of Fall quarter only. For more information, contact the Department Chair, Enrollment Services, or visit the diesel shop.

Specialized Program Information

WORK-BASED LEARNING

Students will integrate classroom learning with work-based learning experience in Cooperative Education (DSL 199) at a supervised work site. Department Chair approval is required. Credits and grades are based on job-hours worked, work performance and completion of the learning objectives specified in the learning contract. Concurrent enrollment in a Cooperative Education Seminar or equivalent is required.

Degree Option

The Associate in Applied Science degree (AAS) is awarded upon completion of a minimum of 90 credits of specified technical and related education coursework above 100-level with both an overall 2.0 grade point average and a 2.0 grade point average in the technical major.

Program Map

Program Maps are an integral part of the Planning Guide. Each Program Map includes a recommended quarterly sequence of courses for a full-time student to earn this degree within two years. The courses align with the appropriate number of credits to meet degree requirements and is designed to help you create an individualized, customized Educational Plan, required of all SVC students. Please consult with an SVC Advisor to schedule courses and develop your personal Educational Plan.

DIESEL POWER TECHNOLOGY, AAS

PROGRAM MAP

99 Credits

FIRST YEAR

Fall Quarter

- DSL 101 - Diesel Electrical Theory (4)
- DSL 102 - Diesel Drivetrains I (8)
- ~ CSS 103 - First Quarter Experience (2)

TOTAL CREDITS: 14

Winter Quarter

- DSL 103 - Diesel Drivetrains II (13)
- † ENGL& 101 - English Composition I (5)

TOTAL CREDITS: 18

Spring Quarter

- DSL 104 - Diesel Drivetrains III (13)
- † WMATH 100 - Professional Technical Applied Math (5)

TOTAL CREDITS: 18

SECOND YEAR

Fall Quarter

- DSL 201 - Diesel Applied Electrical (4)
- DSL 202 - Diesel Engines I (8)
- WT 131 - Shielded Metal Arc Welding for Beginners (2)

TOTAL CREDITS: 14

Winter Quarter

- DSL 203 - Diesel Engines II (13)
- PE 200 - First Aid, Safety, and CPR (2)
  or PE 205 - Basic First Aid (1)
- CMST& 210 - Interpersonal Communication: D (5)

TOTAL CREDITS: 19

Spring Quarter

- ‡ DSL 199 - Diesel Cooperative Education (1)
- DSL 204 - Diesel Engines III (13)
- WT 133 - Oxy-Fuel Processes for Beginners (2)

TOTAL CREDITS: 16

NOTES:

† Students who do not receive an appropriate test score will require additional coursework to develop necessary skills for entry into class.

~ or prior completion of degree/certificate or one quarter or 15 credits of college level course work with a 3.0 GPA or better.

‡ DSL 199 may be taken at any time during the two-year program with Department Chair approval. First year students starting Fall quarter should enroll in DSL 101 and DSL 102 or DSL 202. Second year students should enroll in DSL 201 and DSL 102 or DSL 202. No DSL courses are offered more than one quarter during a two-year period.

EARLY CHILDHOOD EDUCATION

Overview

The Early Childhood Education (ECED) program prepares students for positions working with young children and families in a variety of early care and education settings. Students may pursue an Associate in Applied Science Degree, AAS, an Associate of Education degree (A.Ed.), a one-year certificate, or multiple program certificates. Graduates of an Early Childhood Education degree are often employed as lead teachers, family home visitors, or administrators in childcare, Head Start, Early Childhood Education and Assistance Program (ECEAP), and preschool programs. Courses meet the criteria addressed in the National Association for the Education of Young Children (NAEYC) Standards for Early Childhood Professional Preparation.

Sample career options include–

- **Preschool Teacher**
- **Childcare Worker**
- **Education Administrator, Preschool and Childcare Center/Program**

Program Learning Outcomes

General Education Learning Outcomes, pp 149-150.

Graduates of the Early Childhood Education program will be able to:

- Use knowledge of key child development theories and current research to analyze and understand children's perspectives, behavior and development.
- Develop strategies for connecting with and supporting the child and family that recognize the interconnectedness of the child, family, and community and the impacts of culture and structural inequity on their lives.
- Use effective teaching strategies that adapt and change to meet student's needs.
- Use observation and documentation as tools to understand the development, learning, and behavior of young children and use that knowledge for curriculum development.

- Create engaging curriculum that is based on knowledge of children's developmental needs, established Learning Outcomes, and children's interest.

Program Admissions

Students may enter the program at the beginning of any quarter. For specific information, contact Enrollment Services or the Department Chair.

According to Washington State law RCW 43.43.830, any person with a positive criminal history for "crimes against persons" is not allowed to work with children. Background checks of criminal history are required of all students who work with children in any setting. Students with a criminal background should complete a background check with the Department of Children Youth and Families prior to enrolling in the program to make sure they will be able to complete the practicum requirement and gain employment after graduation.

Specialized Program Information

WORK-BASED LEARNING

Students will integrate classroom learning with work-based learning experience in practicum at a supervised work site. Department Chair approval is required. Credits and grades are based on hours worked, work performance, and completion of the learning objectives specified in the course syllabus.

Each quarter students will enroll in a practicum course and will spend 2-6 hours each week working or volunteering in an early learning classroom. If a student is currently employed as an early childhood educator, you can complete most of your required practicum hours at your workplace. If you are not currently employed as an early childhood educator, we will assist you in finding a volunteer placement in an early learning program.

During the final quarter of the AAS and the Associate in Education degrees, students will compete a capstone practicum experience. Each student will be required to volunteer 12-15 hours of work each week in a practicum setting. Associate in Education students must be in a K-3rd grade classroom for their capstone practicum.

All ECED courses require extensive reading and writing. Students should expect to participate in both individual and group assignments.

Degree and Certificate Options

An Associate in Applied Science Degree, AAS is awarded upon completion of a minimum of 90 credits of specified technical and related education coursework above 100-level with both an overall 2.0 grade point average and a 2.0 grade point average in the technical major.

This degree is intended for students who want to work with children aged birth to five years old and are not interested in pursuing a Bachelor's degree.

An Associate in Education, Early Childhood Education, A.Ed. degree is intended for students who want to work with children aged birth to age 8 and are interested in pursuing a Bachelor's degree. If a student completes the Associate in Education degree requirement, they are eligible to be awarded the AA-DTA as well. The A.Ed. degree will be granted to SVC students completing with a cumulative 2.0 GPA. Entry into a baccalaureate program will require a higher GPA for admission. This degree does not guarantee admission a bachelor's progam. You will need to work closely with your advisor if you intend to pursue this option to make sure your classes meet all the requirements of the AA-DTA. Educational plans may vary based on which quarter you begin, how many credits are taken, placement into Math and English, and your preferred transfer institution.

The ECED certificates listed below have been aligned with statewide standards to improve transferability. These certificates are "stackable," i.e. build on each other, beginning with the ECED initial micro-certificate, which is equivalent to a Child Development Associate (CDA) certificate, followed by any one of the 20-credit certificates. The State ECED certificate requires taking all of the courses listed for the "stackable" certificates plus the general education courses of ENGL 101 and WMATH 100 or above.

Program Map

Program Maps are an integral part of the Planning Guide. Each Program Map includes a recommended quarterly sequence of courses for a full-time student to earn this degree within two years. The courses align with the appropriate number of credits to meet degree requirements and is designed to help you create an individualized, customized Educational Plan, required of all SVC students. Please consult with an SVC Advisor to schedule courses and develop your personal Educational Plan.

EARLY CHILDHOOD EDUCATION, AAS

PROGRAM MAP

90 credits

FIRST YEAR

Fall Quarter

- ECED& 105 - Introduction to Early Childhood Education (5)
- ECED& 120 - Nurturing Relationships (2)
- CSS 103 - First Quarter Experience (2)
- † ENGL& 101 - English Composition I (5)

TOTAL CREDITS: 14

Winter Quarter

- ECED& 107 - Health, Safety, and Nutrition (5)
- ∞ Special (3)
- EDUC& 130 - Guiding Behavior (3)
- WMATH 100 - Professional Technical Applied Math (5)
  or ***choose from one of the following:***
  - BUS 111 - Business Math (5)
  - MATH& 107 - Math in Society (5)

TOTAL CREDITS: 16

Spring Quarter

- ECED& 190 - Observation and Assessment (3)
- EDUC& 115 - Child Development (5)
  or EDUC& 122 - Child Development II *with department chair permission*
- EDUC& 150 - Child, Family, and Community (3)

- SPAN& 121-Spanish I: D (5)

TOTAL CREDITS: 16

SECOND YEAR

Fall Quarter

- ECED& 160-Curriculum Development (5)
- ECED& 180-Language and Literacy Development (3)
- ECED 201-Art, Music, and Movement for Children (4)
- *Elective (3)

TOTAL CREDITS: 15

Winter Quarter

- ECED 101-Child Abuse and Neglect (2)
- ECED 211-Equity in Education: D (3)
- EDUC& 203-Exceptional Child (3)
- CMST& 210 - Interpersonal Communications (5)
  or CMST &220
- PE 200-First Aid, Safety, and CPR (2)

TOTAL CREDITS: 15

Spring Quarter

- ECED& 170 - Learning Environments (3)
- ECED 202-Math and Science Learning for Children (4)
- ECED 223-Practicum and Seminar (4)
- EDUC 246-Working with Bilingual Children (3)

TOTAL CREDITS: 14

NOTES:

∞ Specialization, choose one 3-credit class from the following: ECED& 132, ECED& 134, ECED& 139, or ECED& 260.

* Electives (total of 3 credits).

† Students who do not receive an appropriate test score will require additional coursework to develop necessary skills for entry into class.

EARLY CHILDHOOD EDUCATION CERTIFICATES

It takes approximately two quarters to complete these certificates. They are intended to provide students with specialized training and skills.

STATE EARLY CHILDHOOD EDUCATION CERTIFICATE

PROGRAM MAP

47-52 credits

All training for this certificate is based on the Washington State core competencies for early care and education professionals and the National Association for the Education of Young Children (NAEYC) standards. Upon successful completion of the certificate, the student will have demonstrated competency in the Washington State competencies for early childhood professionals, school-age professionals, or paraprofessionals. This credential meets the minimum educational requirements for childcare center directors.

Early Childhood Education (ECED) certificates have been aligned with state-wide standards to improve transferability. These certificates are "stackable," i.e. build on each other, beginning with the ECED initial micro-certificate, which is equivalent to a Child Development Associate (CDA) certificate, followed by any one of the 20-credit certificates. The 47 credit ECED certificate requires taking all of the courses listed for the "stackable" certificates plus the general education courses of ENGL& 101 and WMATH 100 or BUS 111 or above. A certificate is awarded to students who complete the following courses with a 2.0 grade point average or above in all required coursework.

FIRST YEAR

First Quarter

- ECED& 105 -Introduction to Early Childhood Education (5)
- ECED& 120-Nurturing Relationships (2)
- ECED& 115-Child Development (5)
- CSS 103 - First Quarter Experience (2)

TOTAL CREDITS: 14

Second Quarter

- ECED& 107-Health, Safety, and Nutrition (5)
- ECED& 170-Learning Environments (3)
- ECED& 190-Observation and Assessment (3)
- † ENGL& 101-English Composition I (5)

TOTAL CREDITS: 16

Third Quarter

- ECED& 160 - Curriculum Development (5)
- ECED& 180-Language and Literacy Development (3)
- EDUC& 150-Child, Family, and Community (3)
- † WMATH 100-Professional Technical Applied Math (5)
  or BUS 111 - Business Math (5) or above.

TOTAL CREDITS: 16

Fourth Quarter

- EDUC& 130 - Guiding Behavior (3)
  *If only ECED& 170 or EDUC& 130 is taken, then the student must take **one** of the following:*
  - ECED& 132 - Infant/Toddler Care (3)
  - ECED& 134 - Family Childcare Management (3)
  - ECED& 139 - Administration of Early Childhood Ed (3)
  - EDUC& 136 - School Age Care (3)

TOTAL CREDITS: 3

NOTES:

† Students who do not receive an appropriate test score will require additional coursework to develop necessary skills for entry into class.

STATE SHORT EARLY CHILDHOOD EDUCATION ADMINISTRATION CERTIFICATE

20 credits

REQUIRED COURSES

Develop administrative skills required to develop, open, operate, manage, and assess early childhood education and care programs. Explore techniques and resources available for Washington State licensing and NAEYC standard compliance.

A certificate is awarded to students who complete the following courses with a 2.0 grade point average or above in all required coursework.

- ECED& 105-Introduction to Early Childhood Education (5)
- ECED& 107-Health, Safety, and Nutrition (5)
- ECED& 120-Nurturing Relationships (2)
- ECED& 139-Administration of Early Childhood Ed (3)
- EDUC& 115-Child Development (5)

STATE SHORT EARLY CHILDHOOD EDUCATION FAMILY CHILDCARE CERTIFICATE

A certificate is awarded to students who complete the following courses with a 2.0 grade point average or above in all required coursework.

20 credits

REQUIRED COURSES

- ECED& 105 - Introduction to Early Childhood Education (5)
- ECED& 107 - Health, Safety, and Nutrition (5)
- ECED& 120 - Nurturing Relationships (2)
- ECED& 134 - Family Childcare Management (3)
- EDUC& 115 - Child Development (5)

STATE SHORT EARLY CHILDHOOD EDUCATION GENERAL CERTIFICATE

20 credits

A certificate is awarded to students who complete the following courses with a 2.0 grade point average or above in all required coursework

REQUIRED COURSES

- ECED& 105 - Introduction to Early Childhood Education (5)
- ECED& 107 - Health, Safety, and Nutrition (5)
- ECED& 120 - Nurturing Relationships (2)
- EDUC& 115 - Child Development (5)
- EDUC& 130 - Guiding Behavior (3)

STATE SHORT EARLY CHILDHOOD EDUCATION INFANT/ TODDLER CARE CERTIFICATE

20 credits

Infant-Toddler specialists work with young children from birth to age 3 in a variety of early care and education programs. It is the responsibility of the Infant-Toddler specialist to both nurture and provide developmentally appropriate education In safe, supportive environments.

A certificate is awarded to students who complete the following courses with a 2.0 grade point average or above in all required coursework.

REQUIRED COURSES

- ECED& 105 - Introduction to Early Childhood Education (5)
- ECED& 107 - Health, Safety, and Nutrition (5)
- ECED& 120 - Nurturing Relationships (2)
- ECED& 132 - Infant/Toddler Care (3)
- EDUC& 115 - Child Development (5)

STATE SHORT EARLY CHILDHOOD EDUCATION SCHOOL AGE CARE CERTIFICATE

20 credits

School-Age Care professionals work with children ages 5-12 in a variety of settings In family child care homes, profit or non-profit centers, public schools and community centers.

A certificate is awarded to students who complete the following courses with a 2.0 grade point average or above in all required coursework.

REQUIRED COURSES

- ECED& 105 - Introduction to Early Childhood Education (5)
- ECED& 107 - Health, Safety, and Nutrition (5)
- ECED& 120 - Nurturing Relationships (2)
- EDUC& 115 - Child Development (5)
- EDUC& 136 - School Age Care (3)

EARLY CHILDHOOD EDUCATION MICRO-CERTIFICATE

Typically two quarters or less, micro-certificates are focused on providing training in a specific skill.

STATE INITIAL EARLY CHILDHOOD EDUCATION MICRO-CERTIFICATE

12 credits

All training for this certificate is based on the Washington State core competencies for early care and education professionals and the National Association for the Education of Young Children (NAEYC) standards. Upon successful completion of the certificate, the student will be demonstrated competency in the Washington State competencies for early childhood professionals, school-age professionals, or paraprofessionals. Students should be prepared for entry-level employment in the area for which the certificate or degree has been earned.

A certificate is awarded to students who complete the following courses with a 2.0 grade point average or above in all required coursework.

ECED INITIAL CERTIFICATE

This certificate is equivalent to a Child Development Associate (CDA) certificate. It is the first of three “stackable” certificates aligned with step 5 of Washington State’s Career Lattice for Early Care and Education Professionals. Level 2 core competencies are taught and assessed, enabling assistant teachers to move to lead teacher positions in licensed child care centers.

REQUIRED COURSES

- ECED& 105 - Introduction to Early Childhood Education (5)
- ECED& 107 - Health, Safety, and Nutrition (5)
- ECED& 120 - Nurturing Relationships (2)

ENVIRONMENTAL CONSERVATION

Overview

The Environmental Conservation (ENVC) program is designed to meet the growing need for environmental and natural resource technicians within the natural resources and parkland areas.

The effects from landscape uses such as forestry, agriculture, and urban development are the focus of the degree. Graduates may be employed by federal, state, county, and city governments, tribal nations or private businesses managing

natural resources. Employment by non-governmental organizations is also on the rise.

Sample career options include–

- **Soil and Water Conservationists**
- **Forest and Conservation Technicians**
- **Water/Wastewater Engineers**

Degree and Certificate Options

ASSOCIATE IN APPLIED SCIENCE TRANSFER (AAS-T) DEGREE

An Associate in Applied Science, Transfer Degree, AAS-T degree is awarded upon completion of the Aquatic-Terrestrial Emphasis, or UW/UI-Transfer degrees with a minimum of 90 credits of specified technical and related education coursework above 100-level with both an overall 2.0 grade point average and a 2.0 grade point average in the technical degree courses. Entry into a baccalaureate program at a four-year school will generally require a higher GPA for admission.

Graduates may use their AAS-T degrees as a transfer degree to the SVC Bachelor of Applied Science degree in Environmental Conservation (BASEC) which builds on the existing AAS-T degrees in Environmental Conservation at SVC or other comparable AAS-T degrees in natural resources

CERTIFICATES

The certificates focus on a specific skill within this program. A certificate is awarded to students who complete requirements with a 2.0 grade point average or above.

- Environmental Conservation Studies Certificate

MICRO-CERTIFICATES

- Environmental Conservation Advanced Wetland Delineation Micro-Certificate
- Environmental Conservation Basic Wetland Delineation Micro-Certificate

Program Learning Outcomes

General Education Learning Outcomes, pp 149-150.

Graduates of the Environmental Conservation AAS-T degree will be able to:

- Conduct water quality (WQ) analyses and reporting according to accreditation standards by Washington Department of Ecology.
- Outline an ecological sampling design.
- Use ecological processes in an ecosystem context; flow diagrams.
- Correctly perform a wetland delineation procedure using correct soil, plant, and hydrology ID
- Construct a realistic ecological restoration project; correct spatial and temporal scales; costs, ecological elements and processes restored.

Program Admissions

Please apply at Enrollment Services. Students are generally admitted fall or winter quarters. It is highly recommended that students have completed their pre-college coursework before entry. However, students with relevant work experience or equivalent coursework may be admitted at other times with the Department Chair's permission. Advanced standing may be requested. For further information, contact the Department Chair or Enrollment Services.

Specialized Program Information

WORK-BASED LEARNING

Students will integrate their classroom learning with work-based learning experience by participating in Cooperative Education (ENVC 199) at a supervised work site in an approved paid or volunteer position in an environmental business, state, federal or county administration or non-governmental organization working with environmental issues. Students who desire a degree and are already employed in the field may develop cooperative work positions with their current employer. A total of six credits are required. Department Chair approval is required. Credits and grades are based on job hours worked, work performance and completion of learning objectives. Concurrent enrollment in Cooperative Education Seminar is required. ENVC 199 may substitute for up to five credits of technical coursework with the permission of the Department Chair.

Program Map

Program Maps are an integral part of the Planning Guide. Each Program Map includes a recommended quarterly sequence of courses for a full-time student to earn this degree within two years. The courses align with the appropriate number of credits to meet degree requirements and is designed to help you create an individualized, customized Educational Plan, required of all SVC students. Please consult with an SVC Advisor to schedule courses and develop your personal Educational Plan.

ENVIRONMENTAL CONSERVATION, AAS-T

PROGRAM MAP

114 credits

FIRST YEAR

Fall Quarter

- ENVC 101 - Introduction to Watershed Management (5)
- ENVC 102 - Invertebrate Biology and Identification (4)
- ENVC 104 - Introduction to Natural Resources (1)
- CSS 103 - First Quarter Experience (2)
- † ENGL& 101 - English Composition I (5)

TOTAL CREDITS: 17

Winter Quarter

- ENVC 112 - Limnology (5)
- ENVC 123 - Fish Biology, Taxonomy, and Life History (5)
- CHEM& 121 - Introduction to Chemistry (5)
  or CHEM& 110 - Chemical Concepts with Lab (5)
  or CHEM& 161 - General Chemistry w/Lab I (5)
- PE 200 - First Aid, Safety, and CPR (2)

TOTAL CREDITS: 17

Spring Quarter

- ENVC 122 - Stream Ecology (5)

- ENVC 140 - Plants of Western Washington (5)
- ENGL& 102 - Composition II (5)
  or ENGL& 235 - Technical Writing (5)
- † MATH& 141 - Precalculus I (5)

TOTAL CREDITS: 20

Summer Quarter

- ‡ ENVC 199 - Cooperative Education (6)

TOTAL CREDITS: 6

SECOND YEAR

Fall Quarter

- ENVC 201 - Watershed Restoration (5)
- ENVC 202 - Wildlife Biology: D (5)
- GIS 101 - Introduction to Geographic Information Systems (5)

TOTAL CREDITS: 15

Winter Quarter

- ENVC 210 - Fish Ecology and Management (5)
- ENVC 211 - Ecological Sampling and Monitoring Design (4)
- GIS 107 - Introduction to Global Positioning Systems (GPS) (5)
- ENVAG 106 - Soil Science and Conservation (5)

TOTAL CREDITS: 19

Spring Quarter

- ENVC 220 - Wetlands in Managed Landscapes (4)
- ENVC 221 - Ecology of Ecosystem Edges/Ecotones (3)
- ENVC 222 - Field Project (3)
- ^ ENVC Elective *or* *LC/GE (5)
- CMST& 220 - Public Speaking (5)
  or CMST& 210 - Interpersonal Communication: D (5)

TOTAL CREDITS: 20

NOTE:

* Learning Community (5-10 credits) or 5 credits of General Education (natural sciences, social sciences, or humanities) from AA-DTA distribution/ ENVC elective, plus Integrative Experience (IE). Must be outside of technical area, approved by Department Chair. Please see INDEX regarding Learning Communities.

† Students who do not receive an appropriate test score will require additional coursework to develop necessary skills for entry into class.

‡ ENVC 199 may be taken at any time during the two-year program with Department Chair approval.

^ Electives must be chosen from within Environmental Conservation, the sciences, or Geographic Information Systems.

ENVIRONMENTAL CONSERVATION CERTIFICATE

ENVIRONMENTAL CONSERVATION STUDIES, CERTIFICATE

PROGRAM MAP

51 credits

This certificate is specially designed for the student who has already earned a college degree and is interested in redirecting their career into environmental studies. A certificate is awarded to students who complete the following with a 2.0 grade point average or above.

1st Quarter

- ENVC 101 - Introduction to Watershed Management (5)
- ENVC 201 - Watershed Restoration (5)
- GIS 101 - Introduction to Geographic Information Systems (5)

TOTAL CREDITS: 15

2nd Quarter

- ENVC 112 - Limnology (5)
- ENVC 202 - Wildlife Biology: D (5)
- ENVC 210 - Fish Ecology and Management (5)
- ENVC 211 - Ecological Sampling and Monitoring Design (4)
  or ENVC 123 - Fish Biology, Taxonomy, and Life History (5)

TOTAL CREDITS: 19

3rd Quarter

- ENVC 122 - Stream Ecology (5)
- ENVC 140 - Plants of Western Washington (5)
- ENVC 220 - Wetlands in Managed Landscapes (4)
- ENVC 221 - Ecology of Ecosystem Edges/Ecotones (3)

TOTAL CREDITS: 17

ENVIRONMENTAL CONSERVATION MICRO-CERTIFICATES

ADVANCED WETLAND DELINEATION, MICRO-CERTIFICATE

It takes approximately two quarters to complete these certificates. They are intended to provide students with specialized training and skills

19 credits

A certificate is awarded to students who receive a minimum C grade or above in each course.

REQUIRED COURSES

- ENVC 101 - Introduction to Watershed Management (5)
- ENVC 140 - Plants of Western Washington (5)
- ENVC 201 - Watershed Restoration (5)
- ENVC 220 - Wetlands in Managed Landscapes (4)

BASIC WETLAND DELINEATION, MICRO-CERTIFICATE

9 credits

The delineation certificates provide skills needed to assist/ conduct wetland delineation. A certificate is awarded to students who complete the following courses with a 2.0 grade point average or above in each course.

REQUIRED COURSES

- ENVC 140 - Plants of Western Washington (5)
- ENVC 220 - Wetlands in Managed Landscapes (4)

EARLY CHILDHOOD EDUCATION

FAMILY LIFE

Overview

The Family Life (FL) program provides parents an opportunity to work with and observe their children in an educational setting. Technical assistance is provided to independently operated parent education cooperatives. Parents observe child behavior and practice skills and techniques useful in working with small groups of children.

Program Learning Outcomes

Parents who complete Family Life coursework will be able to:

- Understand basic concepts of child development;
- Understand child behavior;
- Demonstrate effective parent/child communication;
- Demonstrate positive guidance techniques;
- Gain confidence in parental roles as the child's first and most important teacher;
- Actively engage in the child's "formal" educational experiences;
- Support the family's home culture and development of positive self-esteem;
- Access formal and informal resources to support healthy family development;
- Develop leadership skills in planning, governance and administration of program activities.

COURSES

- FL 131 - Parent Education Co-op, Infants and Toddlers (2)
- FL 132 - Parent Education Cooperative I (3)
- FL 133 - Parent Education Cooperative II (3)
- FL 134 - Parent Education Cooperative III (3)
- FL 140 - Parent Education Co-op for Second Parent (1)

FIRE SCIENCES

Overview

The Fire Sciences Department (FIRE) provides training and education for students wishing to begin a career in the fire service, attain a higher level of education, and/or prepare for career advancement.

Within the Fire Sciences Department, two degrees are offered:

- The **Fire Protection Technology, AAS degree** is designed to prepare those students wishing to enter the fire protection career as entry-level firefighters. It is a skills and certification-based program that prepares a student with the education, certifications, and affiliation, valued by fire service leaders.
- The **Fire Service Administration, AAS-T degree** is designed for students who are currently working as career firefighters and wish to create the opportunity for upward mobility. The degree is academic-based and is primarily online in its delivery, suiting the needs of shift workers. The degree is fully transferable to bachelor-level programs.
- ***By adding a third year of general education courses,*** students receiving the Fire Protection Technology, AAS degree can also obtain the Fire Service Administration, AAS-T degree. Achieving the AAS-T degree means not only being prepared for an entry-level fire-fighting position, but also lays the foundation for eventual advancement in the fire service.

Degree and Certificate Options

FIRE PROTECTION TECHNOLOGY, AAS

The Associate in Applied Science Degree, AAS is awarded upon completion of a minimum of 90 credits of specified technical and related education course work above the 100 level, with both an overall 2.0 grade point average and a 2.0 grade point average in the technical major.

The Fire Protection Technology (FIRE) program is designed to prepare the student for an entry-level career as a firefighter for private, municipal, industrial, state, and federal fire departments. Typical duties of firefighters may include responding to emergencies and performing work to save lives, stabilize emergency situations, reduce loss of property and improve public safety.

Firefighters additionally inspect, examine and care for emergency apparatus and equipment and perform routine maintenance to restore apparatus to a response-ready condition.

Fire Protection Technology is a systematic and organized inquiry into the occurrence of fire and its control. It is about gaining a deeper and useful understanding of fire's development, strategies used by the fire service to prevent its occurrence and lessen its impact, and methods employed to combat it. It is also about understanding a complex vocation that calls upon its members to perform unusually challenging tasks under virtually any condition with little room for error-or better, adapting to the unforgiving culture of a critical public safety industry.

The training of students to become career firefighters is a key component of the Fire Protection Technology program. Subjects included in the program help to improve the firefighter's use of knowledge, tools and systems to improve their career opportunities and the lives of those who they serve.

Sample Career Options Include–

- **Municipal Firefighters**
- **Forest Firefighters**

FIRE SERVICE ADMINISTRATION, AAS-T

The Associate in Applied Science, Transfer Degree, AAS-T is awarded upon completion of a minimum of 90 credits of specified transferable course work above the 100 level, with both an overall 2.0 grade point average and a 2.0 grade point average in the technical major. At least 25 college-level credits must be earned at SVC. Credits must satisfy course requirements listed below.

This degree provides the academic foundation for advancement in fire service organizations. The degree is well suited for firefighters and line officers who seek to possess a strong academic foundation in their current position and/or promotional advancement opportunity into supervisory or administrative positions.

The FSA degree is intended to prepare students to transfer to four-year colleges/universities with junior standing and with the prerequisites for their emergency service major completed.

At this time the Fire Service Administration - AAS-T Degree articulates into the Eastern Oregon University fire Service Administration, Bachelor of Science degree and provides junior-level standing.

MICRO-CERTIFICATES

These certificates focus on a specific skill within this program. A certificate is awarded to students who complete the following with a 3.0 grade point average or above.

- EMT: Basic Emergency Medical Technician Micro-Certificate
- EMT: Enhanced Emergency Medical Technician Micro-Certificate

Program Learning Outcomes

General Education Learning Outcomes, pp 149-150.

Graduates of the Fire Protection Technology degree program will be able to:

- Understand how hostile fire conditions develop that threaten the public and emergency responders.
- Understand how various work environments can effect development of hostile fire conditions.
- Efficiently utilize tactical resources and effective methods of deployment in responding to a variety of emergency incidents.
- Possess a knowledge and skill set that allows them to be effective in preventing hostile fire emergencies occurring in their community.

Graduates of the Fire Service Administration degree program will be able to:

- Understand how hostile fire conditions develop that threaten the public and emergency responders.
- Understand how various work environments can effect development of hostile fire conditions.
- Possess a knowledge and skill set that allows them to be effective in preventing hostile fire emergencies occurring in their community.

Program Admissions

Please apply at Enrollment Services. Enrollment in the program is limited to 36 students entering each September. Selection is on a first-come, first served basis from an “interest” list. Students may enter the program only at the beginning of Fall Quarter. Winter and/or Spring quarter entry is based on prior experience and Department Chair permission. All students must meet with the Fire Protection Technology Department Chair for an orientation prior to registration.

Firefighter courses can be physically demanding. Students must be medically and physically fit to participate. Students will be subject to a background evaluation. Once accepted into the program, the following requirements must be met:

- Complete an Illegal Substance-Drug Screen and Criminal Background check. This is based on emergency medical industry standards and Washington State laws protecting vulnerable populations (RCW 43.43.880 and 43.43.842). This practice is common among colleges and universities in Washington State and is required by clinical agencies where students complete their clinical experiences.
- Complete a Department of Motor Vehicle violation check. This check is used for training and counseling purposes to determine suitability to gain employment in the fire service.
- Complete and pass a physical/medical evaluation by a physician approved by the program, confirming physical ability to perform structural firefighting activities in compliance with WAC 296- 305-0159(7)(b).
- Costs associated with criminal background check, drug screen, motor vehicle violation check and physical/medical evaluations are the responsibility of the student.

Admission to individual classes for those students not in the Fire Protection Technology (FIRE) program is by Department Chair approval only. Prerequisites for all Fire Protection Technology classes must be met before enrolling in that specific FIRE class.

Admission to individual classes for those students not in the Fire Service Administration program is by Department Chair approval only. Prerequisites for all Fire Service Administration classes must be met before enrolling in that specific class.

Specialized Program Information

WORK-BASED LEARNING

Students will integrate classroom learning with work-based learning experience in Fire Service Internship (FIRE 199) at a supervised work site. Department Chair approval is required. Credits and grades are based on job-hours worked, work performance and completion of the learning objectives specified in the learning contract.

Program Map

Program Maps are an integral part of the Planning Guide. Each Program Map includes a recommended quarterly sequence of courses for a full-time student to earn this degree within two years. The courses align with the appropriate number of credits to meet degree requirements and is designed to help you create an individualized, customized Educational Plan, required of all SVC students. Please consult with an SVC Advisor to schedule courses and develop your personal Educational Plan.

FIRE PROTECTION TECHNOLOGY, AAS

PROGRAM MAP

96 credits

FIRST YEAR

Fall Quarter

- FIRE 120 - Firefighter Skills I (8)
- FIRE 160 - Hazardous Materials First Responder (5)
- CSS 103 - First Quarter Experience (2)

- PE 161-Fire Fighter Fitness and Wellness (2)

TOTAL CREDITS: 17

Winter Quarter

- FIRE 121-Firefighter Skills II (4)
- FIRE 247-Basic Emergency Medical Technician, Part I (6)
- PE 261-Advanced Firefighter Fitness (1)
- † ENGL& 101-English Composition I (5)

TOTAL CREDITS: 16

Spring Quarter

- FIRE 122-Firefighter Skills III (4)
- FIRE 130-Emergency Vehicle Driving (3)
- FIRE 240-Rescue Systems Awareness (3)
- FIRE 248-Basic Emergency Medical Technician, Part II (6)
- PE 261-Advanced Firefighter Fitness (1)

TOTAL CREDITS: 17

SECOND YEAR

Fall Quarter

- FIRE 100-Principles of Emergency Services (5)
- FIRE 103-Building Construction For Fire Protection (3)
- FIRE 213-Fire and Life Safety Education (3)
- FIRE 214-Fire Investigation (3)
- FIRE 279-Fire Services Safety and Survival (3)

TOTAL CREDITS: 17

Winter Quarter

- FIRE 101-Fire Chemistry (3)
- FIRE 211-Fire Protection Systems (3)
- FIRE 275-Emergency Service Leadership (3)
- † MATH& 107-Math in Society (5)

TOTAL CREDITS: 14

Spring Quarter

- FIRE 199-Fire Service Internship (1)
- FIRE 215-Fire Inspection and Code Enforcement (3)
- FIRE 230-Fire Service Hydraulics (3)
- FIRE 278-Managing Company Tactical Operations (3)
- CMST& 220-Public Speaking (5)

TOTAL CREDITS: 15

NOTE:

† Students who do not receive appropriate placement test score will require additional coursework to develop necessary skills for entry into class.

FIRE SERVICE ADMINISTRATION, AAS-T

TRANSFER DEGREE PLANNING GUIDE

The Fire Service Administration, AAS-T is awarded upon completion of a minimum of 90 credits of specified transferable course work above the 100 level, with both an overall 2.0 grade point average and a 2.0 grade point average in the technical major. At least 25 college-level credits must be earned at SVC. Credits must satisfy course requirements listed below.

This degree provides the academic foundation for advancement in fire service organizations. The degree is well suited for firefighters and line officers who seek to possess a strong academic foundation in their current position and/or promotional advancement opportunity into supervisory or administrative positions.

The FSA degree is intended to prepare students to transfer to four-year colleges/universities with junior standing and with the prerequisites for their emergency service major completed.

An Associate in Applied Science Transfer degree (AAS-T) is awarded upon completion of a minimum of 90 credits of specified technical and related education course work above the 100 level, with both an overall 2.0 grade point average and a 2.0 grade point average in the technical major.

Sample Career Options Include–

- **Municipal Fire Fighting and Prevention Supervisors**
- **Forest Fire Fighters**

Purpose

This degree provides the academic foundation for advancement in fire service organizations. The degree is well suited for firefighters and line officers who seek to possess a strong academic foundation in their current position and/or promotional advancement opportunity into supervisory or administrative positions.

The FSA degree is intended to prepare students to transfer to four-year colleges/universities with junior standing and with the prerequisites for their emergency service major completed.

An Associate in Applied Science Transfer degree (AAS-T) is awarded upon completion of a minimum of 90 credits of specified technical and related education course work above the 100 level, with both an overall 2.0 grade point average and a 2.0 grade point average in the technical major.

Degree Requirements

General Education Learning Outcomes, pp 149-150
Program Learning Outcomes, p 149

An ampersand (&) denotes Common Course Numbering

Students must complete a minimum of 90 quarter credits in transferable courses numbered 100 or above with a cumulative grade point average of at least 2.0 in order to graduate from SVC with an AAS-T Fire Service Administration degree. At least 25 college-level credits must be earned at SVC. Credits must satisfy course requirements listed below.

1. **First Quarter Experience (2 cr.)**
   - CSS 103-First Quarter Experience (2)
2. **Communication Skills (10 cr.)**
   - ENGL& 101-English Composition I (5)
   - ENGL& 102-Composition II (5)
3. **Quantitative Skills (5 cr.)**
   - MATH& 107-Math in Society (5)
4. **Diversity Requirement**

   At least one Diversity Intensive course is required. Students should use the SVC online quarterly class schedule search or consult their faculty advisor or counselor to identify courses that fulfill this requirement.
5. **Required Fire Service Administration Courses (32 cr.)**
   - FIRE 100-Principles of Emergency Services (5)
   - FIRE 101-Fire Chemistry (3)

- FIRE 103 - Building Construction For Fire Protection (3)
- FIRE 210 - Fundamentals of Fire Prevention (3)
- FIRE 211 - Fire Protection Systems (3)
- FIRE 212 - Fire Codes and Ordinances (3)
- FIRE 230 - Fire Service Hydraulics (3)
- FIRE 275 - Emergency Service Leadership (3)
- FIRE 278 - Managing Company Tactical Operations (3)
- FIRE 279 - Fire Services Safety and Survival (3)

6. Distribution Requirements (45 cr.)

Work with your advisor to select the appropriate distribution courses for your area of interest and chosen bachelor degree transfer.

- Natural Science
- Social Science
- Humanities

7. Firefighter Internship (2 cr.)

- FIRE 199 - Fire Service Internship (1)

PROGRAM MAP

96 credits

FIRST YEAR

Fall Quarter

- FIRE 100 - Principles of Emergency Services (5)
- FIRE 103 - Building Construction For Fire Protection (3)
- FIRE 199 - Fire Service Internship (1)
- FIRE 210 - Fundamentals of Fire Prevention (3)
- CSS 103 - First Quarter Experience (2)
- † ENGL& 101 - English Composition I (5)

TOTAL CREDITS: 19

Winter Quarter

- FIRE 101 - Fire Chemistry (3)
- FIRE 211 - Fire Protection Systems (3)
- FIRE 275 - Emergency Service Leadership (3)
- FIRE 279 - Fire Services Safety and Survival (3)
- MATH& 107 - Math in Society (5)

TOTAL CREDITS: 17

Spring Quarter

- FIRE 199 - Fire Service Internship (1)
- FIRE 212 - Fire Codes and Ordinances (3)
- FIRE 230 - Fire Service Hydraulics (3)
- FIRE 278 - Managing Company Tactical Operations (3)
- CMST& 220 - Public Speaking (5)

TOTAL CREDITS: 15

SECOND YEAR

Fall Quarter

- ~ CHEM& 121 - Introduction to Chemistry (5)
- ~ MUSC& 105 - Music Appreciation (5)
- ~ POLS& 202 - American Government: D (5)

TOTAL CREDITS: 15

Winter Quarter

- ~ ART 144 - Modern Art History: D (5)
- ~ ENGL& 102 - Composition II (5)
- ~ DRMA& 101 - Introduction to Theatre: D (5)

TOTAL CREDITS: 15

Spring Quarter

- ~ MIT 213 - Digital Photography (5)
- ~ PSYC& 100 - General Psychology (5)
- ~ SOC& 101 - Introduction to Sociology: D (5)

TOTAL CREDITS: 15

NOTES

† Students who do not receive appropriate placement test score will require additional coursework to develop necessary skills for entry into class.

~ Or, work with your advisor to select the appropriate distribution classes for your area of interest.

MICRO-CERTIFICATES

These certificates focus on a specific skill within this program. A certificate is awarded to students who complete requirements with a 3.0 grade point average or above.

EMT: BASIC EMERGENCY MEDICAL TECHNICIAN MICRO-CERTIFICATE

12 credits

REQUIRED COURSES

- FIRE 242 - Basic Emergency Medical Technician (12)
  or
- FIRE 247 - Basic Emergency Medical Technician, Part I (6) *and*
  FIRE 248 - Basic Emergency Medical Technician, Part II (6)

EMT: ENHANCED EMERGENCY MEDICAL TECHNICIAN MICRO-CERTIFICATE

15 credits

REQUIRED COURSES

- FIRE 243- Enhanced Emergency Medical Technician (15)

GEOGRAPHIC INFORMATION SYSTEMS

Overview

The Geographic Information Systems (GIS) classes are designed to provide students with software knowledge to manage information or attributes that have a geographic reference point attached. Different attributes and types of information can be displayed as maps. This allows analyzing data with respect to its spatial relationships. Geographic Information Systems are software and hardware that electronically manage these spatial data sets on virtual or real maps. Their use is revolutionizing spatial analysis in forestry, fish and wildlife, population studies, land-use planning, marketing, and other fields that involve the integration of information and geography. Advanced uses integrate GPS data management with mapping and displaying software.

GIS software is used by environmental managers, city and county administrations, natural resource managers, fish and wildlife managers, sales analysts, utility companies, and real estate agents.

Program Learning Outcomes

General Education Learning Outcomes, pp 149-150.

Graduates of the Geographic Information System program will be able to:

- Understand and apply GIS software to create and manage spatial datasets.
- Manage spatial datasets at appropriate precision and scales.
- Integrate and manage remote sensing, aerial, and physical attributes.
- Utilize and incorporate local, regional, and federal datasets appropriately.

GEOGRAPHIC INFORMATION SYSTEMS CERTIFICATE

25 credits

The Geographic Information Systems certificate enables students to be highly proficient in using ArcView© as a valuable support tool for natural resource employment or other occupations using GIS as a management tool. For further information, contact the Department Chair of Environmental Conservation or Enrollment Services.

A certificate is awarded to students who receive a minimum C grade or above in each course.

REQUIRED COURSES

- GIS 101 - Introduction to Geographic Information Systems (5)
- GIS 102 - Geographic Information Systems II (5)
- GIS 107 - Introduction to Global Positioning Systems (GPS) (5)
- GIS 202 - Introduction to Remote Sensing (5)
- GIS 203 - Advanced GIS Project (5)

NOTE:

GIS courses must be taken in this sequence. For more information, please see Geographic Information Systems (GIS).

HUMAN SERVICES

Overview

The Human Services (HSERV) program prepares students for employment in a broad range of social service agencies. Typical job titles include substance use disorder treatment professionals, residential treatment workers, case managers, out-reach and community workers. The program has a core of courses that all students must complete for the Associate in Applied Science Degree, AAS with either a Generalist or Substance Use Disorder Counseling emphasis. By their second quarter, students determine which HSERV emphasis they will pursue. Students must enroll in HSERV 198 - Pre-Practicum Seminar which prepares students for practicum (work-based experience) in an agency. After a student's first quarter, the HSERV full-time faculty will serve as the students' advisors.

The Human Services program includes classroom training in interpersonal communications, counseling, ethics, case management, substance abuse treatment and crisis intervention. An agency-based practicum experience is also required. Many courses are offered sequentially and students are expected to take courses in sequence.

Students interested in transferring to a four-year college should see a counselor or their Human Services advisor for assistance in program planning. Please note this is a Professional/Technical program and does not offer a standard transfer degree. For information on articulation agreements with university programs, see the Associate in Applied Science degree information below. Contact for the Substance Use Disorder (SUD) faculty is to be announced.Contact the Generalist department chair, Claudia Avendano-Ibarra, at 360.416.7749. Returning students who have already earned college degrees and who are interested in taking coursework necessary to become a SUD professional, who to contact is to be announced.

Degree and Certificate Options

An Associate in Applied Science Degree, AAS is awarded upon completion of a minimum of 90 credits of specified technical and related education coursework above 100-level with both an overall 2.0 grade point average and a 2.0 grade point average in the technical major. ("Technical major" means all HSERV courses; not the general education courses).
The Human Services-Generalist Emphasis, AAS currently requires completion of 93 credits, and the Human Services-SUD Emphasis, AAS requires completion of 99 credits. For those students who wish to pursue a Bachelor's degree after completion of an AAS degree, the Human Services program has transfer agreements with Fairhaven College and Trinity Western University in Bellingham, and Evergreen State College in Olympia.

Program Learning Outcomes

General Education Learning Outcomes, pp 149-150.

Graduates of the Human Services program will be able to:

- Demonstrate an understanding of the nature and treatment of addiction and psychopathology.
- Demonstrate capability in case management tasks.
- Effectively work with consumers using ethical practices.

Program Admissions:

Please apply at Enrollment Services. Students may enter the program at the beginning of any quarter, and advanced standing may be requested for some courses. All students entering the Human Services program must take the college placement test. This can be arranged by contacting Enrollment Services.

Specialized Program Information

WORK-BASED LEARNING

Students will integrate their classroom learning with work-based learning by completing a total of 12 credits (360 work hours) of supervised practicum work. Students enrolled in Practicum (HSERV 199) must enroll concurrently in the Practicum Seminar (HSERV 200). Each practicum requires permission of the Department Chairs. Credits and grades in HSERV 199 are based on job hours worked, work experience, a

site visit, completion of learning objectives, meeting time lines for all paperwork, satisfactory completion of a work journal, and quality of all grading criteria.

Students enrolling in Practicum (HSERV 199) may be required by agencies to apply for registration with the Washington State Department of Health (DOH) as counselor trainees. Such registration includes filling out a disclosure statement and may include a criminal background check. Students may submit this application while enrolled in HSERV 198. Passing HSERV 101 and HSERV 198 with grades of C or better is a prerequisite for enrollment in Practicum.

Program Maps

Program Maps are an integral part of the Planning Guide. Each Program Map includes a recommended quarterly sequence of courses for a full-time student to earn this degree within two years. The courses align with the appropriate number of credits to meet degree requirements and is designed to help you create an individualized, customized Educational Plan, required of all SVC students. Please consult with an SVC Advisor to schedule courses and develop your personal Educational Plan.

HUMAN SERVICES GENERALIST, AAS

PROGRAM MAP

93 credits

Sample career options include–

- Social and Human Services Assistants
- Psychiatric Aides

FIRST YEAR

Fall Quarter

- HSERV 101-Introduction to Human Services (3)
- HSERV 198-Pre-Practicum Seminar (3)
- CSS 103-First Quarter Experience (2)
- † ENGL& 101-English Composition I (5)

TOTAL CREDITS: 15

Winter Quarter

- HSERV 147-Basic Mediation Training (5)
- CMST& 210-Interpersonal Communication: D (5)
- OBT 122-MS Word I (3)
- † WMATH 100-Professional Technical Applied Math (5)

TOTAL CREDITS: 18

Spring Quarter

- HSERV 121-Introduction to Disabilities and Disability Law (4)
- HSERV 132-Motivational Interviewing (4)
- HSERV 141-Alcoholism and other Addictive Disorders (5)
- HSERV 199-Practicum (4)
- HSERV 200-Practicum Seminar (1)

TOTAL CREDITS: 18

SECOND YEAR

Fall Quarter

- HSERV 199-Practicum (4)
- HSERV 200-Practicum Seminar (1)
- HSERV 203-Introduction to Counseling (5)
- HSERV 231-Psychopathology and Therapeutic Intervention in Mental Health (4)
- £ PE 200-First Aid, Safety, and CPR (2)

TOTAL CREDITS: 16

Winter Quarter

- HSERV 102-Generalist Coordinated Care (5)
- HSERV 199-Practicum (4)
- HSERV 200-Practicum Seminar (1)
- HSERV 245-Professional Ethics (3)

TOTAL CREDITS: 18

Spring Quarter

- HSERV 131-Human Development (5)
- HSERV 221-Crisis Intervention (5)
- HSERV 232-Justice, Equity, Diversity, and Inclusion in Human Services: D (5)

TOTAL CREDITS: 15

NOTES:

† Students who do not receive an appropriate test score will require additional coursework to develop necessary skills for entry into class. (BUS 111 will substitute for WMATH 100).

£ or a valid CPR/First Aid certification from an approved provider.

HUMAN SERVICES SUBSTANCE USE DISORDER (SUD) COUNSELING, AAS

PROGRAM MAP

101 credits

Sample career options include–

- Substance Abuse and Behavioral Disorder Counselor

FIRST YEAR

Fall Quarter

- HSERV 101-Introduction to Human Services (3)
- HSERV 141-Alcoholism and other Addictive Disorders (5)
- HSERV 171-HIV/AIDS and Bld Pathogen Trng for Substance Use Disorder Professional (1)
- CSS 103-First Quarter Experience (2)
- ENGL& 101-English Composition I (5)
- *Students who do not receive an appropriate test score will require additional coursework to develop necessary skills for entry into class.*

TOTAL CREDITS: 18

Winter Quarter

- HSERV 145-Addictions and the Law (3)
- HSERV 198-Pre-Practicum Seminar (3)
- OBT 122-MS Word I (3)
- WMATH 100-Professional Technical Applied Math (5)
  or BUS 111 - Business Math (5)
  Students who do not receive an appropriate test score will require additional coursework to develop necessary skills for entry into class.

TOTAL CREDITS: 14

Spring Quarter

- HSERV 131-Human Development (5)
- HSERV 132-Motivational Interviewing (4)
- HSERV 199-Practicum (4)
- HSERV 200-Practicum Seminar (1)
- HSERV 248-Adolescent Addictive Disorders Counseling (3)

TOTAL CREDITS: 17

SECOND YEAR

Fall Quarter

- HSERV 199 - Practicum (4)
- HSERV 200 - Practicum Seminar (1)
- HSERV 203 - Introduction to Counseling (5)
- HSERV 231 - Psychopathology and Therapeutic Intervention in Mental Health (4)
- HSERV 242 - Physiology and Pharmacology of Psychoactive Drugs (3)

TOTAL CREDITS: 17

Winter Quarter

- HSERV 199 - Practicum (4)
- HSERV 200 - Practicum Seminar (1)
- HSERV 241 - Addictive Disorders and the Family (3)
- HSERV 243 - Substance Use Disorder Assessment and Case Management (4)
- HSERV 245 - Professional Ethics (3)
- PE 200 - First Aid, Safety, and CPR (2)

or a valid CPR/First Aid certification from an approved provider.

TOTAL CREDITS: 15

Spring Quarter

- HSERV 221 - Crisis Intervention (5)
- HSERV 232 - Justice, Equity, Diversity, and Inclusion in Human Services: D (5)
- HSERV 244 - Group Process and Addictive Disorders (3)
- CMST& 210 - Interpersonal Communication: D (5)

TOTAL CREDITS: 18

HUMAN SERVICES SUBSTANCE USE DISORDER COUNSELING, CERTIFICATE

PROGRAM MAP

47 credits

This certificate is designed for returning students and professionals who have previously earned college or university degrees and who are interested in becoming Substance Use Disorder (SUD) counseling professionals. The SUD designation is granted by the Washington State Department of Health (DOH) upon successful completion of a minimum of 45 credits of specific academic coursework, completion of internship hours, and successful passage of an examination through the DOH. Completion of the SVC certificate will acknowledge the completion of academic coursework. The course objectives outlined by DOH are found within the SUD track of the Human Services, AAS degree.

A certificate is awarded to students who complete the following courses with a 2.0 grade point average or above in all required coursework.

1st Quarter

- HSERV 141 - Alcoholism and other Addictive Disorders (5)
- HSERV 171 - HIV/AIDS and Bld Pathogen Trng for Substance Use Disorder Professional (1)
- HSERV 203 - Introduction to Counseling (5)
- HSERV 231 - Psychopathology and Therapeutic Intervention in Mental Health (4)
- HSERV 242 - Physiology and Pharmacology of Psychoactive Drugs (3)

TOTAL CREDITS: 18

2nd Quarter

- HSERV 145 - Addictions and the Law (3)
- HSERV 241 - Addictive Disorders and the Family (3)
- HSERV 243 - Substance Use Disorder Assessment and Case Management (4)
- HSERV 245 - Professional Ethics (3)

TOTAL CREDITS: 13

3rd Quarter

- HSERV 131 - Human Development (5)
- HSERV 232 - Justice, Equity, Diversity, and Inclusion in Human Services: D (5)
- HSERV 244 - Group Process and Addictive Disorders (3)
- HSERV 248 - Adolescent Addictive Disorders Counseling (3)

TOTAL CREDITS: 21

MANUFACTURING TECHNOLOGY

Overview

The Manufacturing Technology (MANF) program provides the foundational skills needed for many entry-level manufacturing jobs by introducing students to key workplace skill areas found in advanced manufacturing-related industries. Students will develop skills in several areas including quality and lean manufacturing, computer aided design (CAD), computer numeric control (CNC), automation and composite technologies. This program gives students an opportunity to learn and refine these skills with hands-on training in a working production lab. The program includes a certificate option (all the first year courses of the two-year degrees) and degree pathways for an AAS or AAS-T degree upon completion of second year courses.

Program Learning Outcomes

General Education Learning Outcomes, pp 149-150.

Graduates of the Manufacturing Technology program will be able to:

- Demonstrate the ability to participate, contribute, and work effectively in teams.
- Demonstrate instrument precision methods, the tools of quality control and lean manufacturing and how they are applied in the workplace.
- Use computer technology to develop, interpret, and communicate technical information and specifications.
- Demonstrate the proficiency in basic AC/DC theory and electrical control. (Automation emphasis in the Engineering Technology, AAS-T degree)
- Demonstrate the proficient application of composite manufacturing methods, materials and tools. (Composites emphasis in the Engineering Technology, AAS-T degree.

Program Admissions

Please apply at Enrollment Services. Students may enter the Manufacturing Technology program at the beginning of Fall quarter. Advanced standing may be requested for prior education or experience. All courses in this program require extensive reading and use of computer technology. The ability to read English at the 8th grade level or above is highly recommended. Students should be familiar with the use of

computer technology. For further information, contact the Department Chair or Enrollment Services.

Specialized Program Information

CAREER AND TECHNICAL EDUCATION (CTE)

Please see Academic Information for information regarding CTE.

Degree and Certificate Options

An **Associate in Applied Science, AAS** degree is awarded upon completion of a minimum of 90 credits of specified technical and related education coursework above 100-level with both an overall 2.0 grade point average (GPA) and a 2.0 grade point average in the technical major with a minimum letter grade of C- or above in all required courses.

An **Associate in Applied Science Transfer, AAS-T** degree is awarded upon completion of a minimum of 90 credits of specified technical and related education coursework above 100-level with both an overall 2.5 grade point average (GPA) and a 2.5 grade point average in the technical major with a minimum letter grade of C- or above in all required courses.

ENGINEERING TECHNOLOGY, AAS

The Engineering Technology, AAS degree is designed to focus on the technical and "pre-engineering" knowledge needed in a modern manufacturing facility. Upon completion, students will be equipped with the Computer Aided Design (CAD), Computer Numeric Controlled (CNC) Operations, Quality Assurance (QA), Automation, Composites, and metrology skills necessary to enter the technician level in either a manufacturing lead or maintenance capacity.

ENGINEERING TECHNOLOGY, AAS-T

The Engineering Technology, AAS-T degree has similar course content as the Engineering Technology, AAS degree but is designed to prepare a student for transfer to the Engineering Technology, Bachelor of Applied Science (BAS) program at Bellingham Technical College (BTC). This degree requires transferable math, chemistry, physics, and economics courses. Students may choose between Automation Systems, Advanced Computer Numeric Control (CNC), or the Advanced Composites option. See a counselor or department chair for details.

CERTIFICATE

The Manufacturing Technology certificate provides the basic skills needed for many entry-level manufacturing jobs by completing all first year courses. A certificate is awarded to students who complete the required courses with an overall 2.0 grade point average (GPA) or above and a minimum letter grade of C- in all required courses.

MICRO-CERTIFICATES

Micro-Certificates of Completion are designed for taking courses over a short period of time focusing on enhancement or development of a specific skill or set of skills. Micro-Certificate courses can help enhance employability skills or provide preparation for continuing education in the program area. Students must maintain a 2.0 GPA or above in all required course work and a minimum letter grade of C- or above in all required courses.

Program Map

The program map is provided as a guide for a traditional full-time student whose goal is to earn the Engineering Technology, AAS or Engineering Technology, AAS-T degrees. The courses are designed with the appropriate number of credits to meet degree requirements and are organized in a recommended sequence. Please consult an SVC advisor to schedule courses and develop an educational plan.

ENGINEERING TECHNOLOGY AAS

Overview

Interested in machinery, conventional machine tools, composites, and computerized design? Advanced Manufacturing/ Engineering Technology offers some of the highest paying and most satisfying career opportunities in today's job market. Get hands-on training in our expanded Manufacturing facility and production lab.

For students seeking advanced skills, the Engineering Technology degrees build on the foundation provided by the first-year certificate. Students acquire advanced skills in computer aided design (CAD), computer aided manufacturing (CAM), composites technology and automation. Students will culminate their studies with an advanced project incorporating the four disciplines in the AAS degree. With this degree students should be able to find employment as advanced CNC technicians, CAD technicians and maintenance professionals. Students pursuing an AAS-T degree, will select a focus option, i.e. Automation, Computer Numeric Control (CNC/CAM), or Composites. Upon successful completion of the transfer degree, students can elect to transfer to Bellingham Technical College (BTC) to pursue a BAS in Engineering Technology.

The program map is provided as a guide for a traditional full-time student whose goal is to earn the Engineering Technology, AAS degree. The courses are designed with the appropriate number of credits to meet degree requirements and are organized in a recommended sequence. Please consult an SVC advisor to schedule courses and develop an educational plan.

PROGRAM MAP

99 credits

FIRST YEAR

Fall Quarter

- MANF 102 - Introduction to Manufacturing (3)
- MANF 137 - Precision Measurement (3)
- CSS 103 - First Quarter Experience (2)
- † WMATH 100 - Professional Technical Applied Math (5)

TOTAL CREDITS: 13

Winter Quarter

- ENGR& 114 - Engineering Graphics (5)
- MANF 148 - Production Lab I (7)
- † ENGL& 101 - English Composition I (5)

TOTAL CREDITS: 17

Spring Quarter
- ENGR 216 - Integrated CAD Design (5)
- MANF 132 - Material Science (3)
- MANF 149 - Production Lab II (7)

TOTAL CREDITS: 15

Summer Quarter
- MANF 114 - Manufacturing Advanced Skills Onboarding (3)
- CMST& 210 - Interpersonal Communication: D (5)
  or CMST& 220 - Public Speaking (5)

TOTAL CREDITS: 8

SECOND YEAR

Fall Quarter
- MANF 222 - Sensor Systems and Application (5)
- MANF 242 - Computer Numeric Controlled (CNC) Operations (5)
- MANF 262 - Composite Construction (5)

TOTAL CREDITS: 15

Winter Quarter
- MANF 227 - Automated Systems (5)
- MANF 247 - Advanced Computer Numeric Control (CNC) (5)
- MANF 267 - Advanced Composites (5)

TOTAL CREDITS: 15

Spring Quarter
- MANF 121 - First Aid and CPR (1)
- MANF 277 - Capstone Manufacturing Project: Automation (5)
- MANF 278 - Capstone Manufacturing Project: Computer Aided Machining (5)
- MANF 279 - Capstone Manufacturing Project: Composite Technology (5)

TOTAL CREDITS: 16

NOTES:
† Students who do not receive an appropriate test score will require additional coursework to develop necessary skills for entry into class. (Any college level math course may substitute for WMATH 100.)

ENGINEERING TECHNOLOGY AAS-T

Overview

Interested in machinery, conventional machine tools, composites, and computerized design? Advanced Manufacturing/ Engineering Technology offers some of the highest paying and most satisfying career opportunities in today's job market. Get hands-on training in our expanded Manufacturing facility and production lab.

For students seeking advanced skills, the Engineering Technology degrees build on the foundation provided by the first-year certificate. Students acquire advanced skills in computer aided design (CAD), computer aided manufacturing (CAM), composites technology and automation. Students will culminate their studies with an advanced project incorporating the four disciplines in the AAS degree. With this degree students should be able to find employment as advanced CNC technicians, CAD technicians and maintenance professionals. Students pursuing an AAS-T degree, will select a focus option, i.e. Automation, Computer Numeric Control (CNC/CAM), or Composites. Upon successful completion of the transfer degree, students can elect to transfer to Bellingham Technical College (BTC) to pursue a BAS in Engineering Technology

The program map is provided as a guide for a traditional full-time student whose goal is to earn the Engineering Technology, AAS-T degree. The courses are designed with the appropriate number of credits to meet degree requirements and are organized in a recommended sequence. Please consult an SVC advisor to schedule courses and develop an educational plan.

PROGRAM MAP

100 credits

FIRST YEAR

Fall Quarter
- MANF 102 - Manufacturing Success Skills (3)
- MANF 137 - Precision Measurement (3)
- CSS 103 - First Quarter Experience (2)
- † WMATH 100 - Professional Technical Applied Math (5)

Transfer students must work with an advisor to determine appropriate math courses for transition into MATH& 141.

TOTAL CREDITS: 13

Winter Quarter
- ENGR& 114 - Engineering Graphics (5)
- MANF 148 - Production Lab I (7)
- † ENGL& 101 - English Composition I (5)

TOTAL CREDITS: 17

Spring Quarter
- ENGR 216 - Integrated CAD Design (5)
- MANF 132 - Material Science (3)
- MANF 149 - Production Lab II (7)

TOTAL CREDITS: 15

Summer Quarter
- MANF 114 - Manufacturing Advanced Skills Onboarding (3)
- CMST& 210 - Interpersonal Communication: D (5)
  or CMST& 220 - Public Speaking (5)

TOTAL CREDITS: 8

SECOND YEAR

Fall Quarter
- MANF 222 - Sensor Systems and Application (5)
  or MANF 242 - Computer Numeric Controlled (CNC) Operations (5)
  or MANF 262 - Composite Construction (5)
- MATH& 141 - Precalculus I(5)
- PHYS& 124 - General Physics Lab I (1)
- PHYS& 134 - General Physics I (5)

TOTAL CREDITS: 16

Winter Quarter
- MANF 227 - Automated Systems (5)
  or MANF 247 - Advanced Computer Numeric Control (CNC) (5)
  or MANF 267 - Advanced Composites (5)
- ECON& 201 - Micro Economics (5)
- MATH& 142 - Precalculus II (5)

TOTAL CREDITS: 15

Spring Quarter
- MANF 121 - First Aid and CPR (1)
- MANF 277 - Capstone Manufacturing Project: Automation (5)
  or MANF 278 - Capstone Manufacturing Project: Computer Aided Machining (5)
  or MANF 279 - Capstone Manufacturing Project: Composite Technology (5)
- CHEM& 161 - General Chemistry w/Lab I (5)

- MATH& 146 - Introduction to Stats (5)

TOTAL CREDITS: 16

NOTES:
† Students who do not receive an appropriate test score will require additional coursework to develop necessary skills for entry into class.

MANUFACTURING TECHNOLOGY, CERTIFICATE

The Manufacturing Technology certificate provides the basic skills needed for many entry-level manufacturing jobs by completing all first-year courses. A certificate is awarded to students who maintain an overall 2.0 grade point average (GPA) and a 2.0 grade point average in the technical major with a minimum letter grade of C- or above in all required courses.

PROGRAM MAP

53 credits

FIRST YEAR

Fall Quarter
- MANF 102 - Introduction to Manufacturing (3)
- MANF 137 - Precision Measurement (3)
- CSS 103 - First Quarter Experience (2)
- † WMATH 100 - Professional Technical Applied Math (5)

TOTAL CREDITS: 13

Winter Quarter
- ENGR& 114 - Engineering Graphics (5)
- MANF 148 - Production Lab I (7)
- † ENGL& 101 - English Composition I (5)

TOTAL CREDITS: 17

Spring Quarter
- ENGR 216 - Integrated CAD Design (5)
- MANF 132 - Material Science (3)
- MANF 149 - Production Lab II (7)

TOTAL CREDITS: 15

SECOND YEAR

Summer Quarter
- MANF 114 - Manufacturing Advanced Skills Onboarding (3)
- CMST& 210 - Interpersonal Communication: D (5)
  or CMST& 220 - Public Speaking (5)

TOTAL CREDITS: 8

NOTES:
† Students who do not receive an appropriate test score will require additional coursework to develop necessary skills for entry into class.

MICRO-CERTIFICATES

Micro-Certificates of Completion are designed for taking courses over a short period of time focusing on enhancement or development of a specific skill or set of skills. Micro-Certificate courses can help enhance employability skills or provide preparation for continuing education in the program area. Students must maintain a 2.0 GPA or above in all required course work and a minimum letter grade of C- or above in all required courses.

COMPOSITES REPAIR TECHNICIAN MICRO-CERTIFICATE

A certificate is awarded to students who complete the following courses with a 2.0 grade point average (GPA) or above and a minimum letter grade of C- or above in all required courses.

18 credits

This micro-certificate provides students with an overview of composites and their application across a spectrum of industries. Instruction covers materials commonly used in composite manufacturing processes such as hand lay-up, filament winding, compression molding, resin-transfer molding, and pultrusion. The fundamentals of fiberglass reinforced plastics with emphasis on chemical safety applicable to poly and vinyl-ester resins, solvents, and epoxies are taught. Students will receive hands-on training in use of molds, gel coats, release agents, resins, cosmetic color matching, and reinforcing materials in hand layup and vacuum infusion, and structural repair. Industry-appropriate shop safety standards and correct use of Personal Protection Equipment is also covered. A certificate is awarded to students who complete the following courses with a 2.0 grade point average (GPA) and a minimum letter grade of C- or above in all required courses.

REQUIRED COURSES
- MANF 114 - Manufacturing Advanced Skills Onboarding (3)
- MANF 262 - Composite Construction (5)
- MANF 267 - Advanced Composites (5)
- MANF 279 - Capstone Manufacturing Project: Composite Technology (5)

MANUFACTURING AUTOMATED SYSTEMS TECHNOLOGY, MICRO-CERTIFICATE

18 credits

This micro-certificate provides graduates with the basic skills needed to find entry-level employment at a company using high-end automation equipment. Students learn core electronics skills, characteristics and operation of various types of electric motors, pneumatics and embedded controllers. Students must maintain a 2.0 grade point average (GPA) or above and a minimum letter grade of C- or above in all required courses.

REQUIRED COURSES
- MANF 114 - Manufacturing Advanced Skills Onboarding (3)
- MANF 222 - Sensor Systems and Application (5)
- MANF 227 - Automated Systems (5)
- MANF 277 - Capstone Manufacturing Project: Automation (5)

MANUFACTURING COMPUTER NUMERIC CONTROL (CNC) OPERATOR, MICRO-CERTIFICATE

18 credits

This micro-certificate prepares the student for introductory work in the CNC field as a CNC operator. The student will learn basic code and operations of CNC equipment. A certificate is awarded to students who complete the following courses with a 2.0 grade point average (GPA) or above and a minimum letter grade of C- or above in all required courses.

REQUIRED COURSES

- MANF 114 - Manufacturing Advanced Skills Onboarding (3)
- MANF 242 - Computer Numeric Controlled (CNC) Operations (5)
- MANF 247 - Advanced Computer Numeric Control (CNC) (5)
- MANF 278 - Capstone Manufacturing Project: Computer Aided Machining (5)

MARINE MAINTENANCE TECHNOLOGY

Overview

Marine Maintenance Technology (MT) prepares students for employment in the marine trades with a focus on two major disciplines: marine mechanics and marine electrical systems. The MT program offers one-year certificates in each of these high demand areas and a two-year Associate of Applied Science (AAS) degree for those who complete coursework in both fields.

Located in the heart of the Pacific Northwest's maritime industry, the MT program has close affiliations with various marine manufacturers and service companies. Affordably priced, with out-of-state tuition waivers available, the program provides students with a unique opportunity to successfully begin a new career or expand upon existing skills.

Ongoing growth in the marine manufacturing and service industry within the pleasure, military, and commercial sectors is driving strong demand for skilled marine technicians. In response to this demand, SVC is a member of the **Marine Trades Accredited (MTA)** program, a national consortium of marine technology educators providing industry standards-based training and education. In the MT program, students divide their time between the classroom and well-equipped lab facilities. Through on-site testing and preparation, students have an excellent opportunity to earn credentials with the **American Boat and Yacht Council (ABYC), National Marine Electronics Association (NMEA), Occupational Safety and Health Administration (OSHA), and Environmental Protection Agency (EPA)**, as well as forklift certification and original equipment manufacturer (OEM) specific training.

Marine Mechanical training provides students with the skills and knowledge necessary to install, maintain, and repair modern marine engines and propulsion systems. Students learn the fundamentals of fuel, cooling, exhaust, ignition, lubrication, electrical, hydraulic, and control systems for gasoline and diesel engines. An emphasis is put on developing acute troubleshooting skills while adhering to industry best practices and techniques. Hands-on training covers how to install and repair inboard diesel and gasoline engines, sterndrives, and outboard motors to manufacturer's specifications.

Marine Electrical system training teaches students how to install, repair, maintain, and troubleshoot modern boat systems using established industry standards and best practices. Systems course work includes learning about AC and DC electrical systems, plumbing, rigging, electronics, sanitation, refrigeration, communication, HVAC, and navigation systems. Certified instructors have direct industry experience and prepare students to apply their skills to virtually any professional scenario involving troubleshooting, repair, upgrading, and integrating modern marine systems on board vessels of all types.

For information on composites and manufacturing, see Composites Technology and Manufacturing Technology certificates.

Sample career options include–

- **Motorboat Mechanics and Service Technicians**
- **Watercraft Service Attendants**

Degree and Certificate Options

ASSOCIATE IN APPLIED SCIENCE DEGREE (AAS)

The Marine Maintenance Technology - Marine Technician emphasis Associate in Applied Science Degree, AAS is awarded upon completion of a minimum of 90 credits and related general education coursework. All coursework must be 100-level or above with both an overall 2.0 grade point average and a minimum 2.0 grade in each Marine Technology course.

CERTIFICATES

Marine Mechanical Technician Certificate

A Certificate in Marine Mechanical Technician is awarded upon completion of certificate courses. All course work must be 100-level or above with both an overall 2.0 grade point average (GPA) and a minimum 2.0 grade in each course. Students must be co-enrolled in program core classes or have instructor permission. Consult with department chair or SVC counselor for scheduling options.

Marine Electrical Technician Certificate

A Certificate in Marine Electrical Technician is awarded upon completion of certificate courses. All course work must be 100-level or above with both an overall 2.0 grade point average (GPA) and a minimum 2.0 grade in each course. Students must be co-enrolled in program core classes or have instructor permission. Consult with department chair or SVC counselor for scheduling options.

Program Learning Outcomes

General Education Learning Outcomes, pp 149-150.

Graduates of the Marine Maintenance Technology program will be able to:

- Demonstrate a fundamental knowledge of marine AC and DC electrical theory.
- Demonstrate a fundamental working knowledge of marine engines.
- Demonstrate the mechanical skills need to install, troubleshoot and repair diesel and gasoline marine engines.
- Develop the knowledge and proficiency necessary to pass certification exams.
- Exhibit safe and proficient work practices in the lab/shop environment.

Specialized Program Information

CAREER AND TECHNICAL EDUCATION (CTE)

Please see Academic Information, pp 231 for information regarding CTE.

Faculty
Mike Beemer
Department Chair
360.766.6282 ext. 43515
mike.beemer@skagit.edu
Location
Northwest Career and Technical Academy
Marine Technology Center
1606 R Avenue Anacortes, Washington

WORK-BASED LEARNING

Students will integrate their classroom learning with work-based learning experience in Cooperative Education (MT 199) at a supervised work site.

Program Admissions

Please apply at Enrollment Services.

Program Map

Program Maps are an integral part of the Planning Guide. Each Program Map includes a recommended quarterly sequence of courses for a full-time student to earn this degree within two years. The courses align with the appropriate number of credits to meet degree requirements and is designed to help you create an individualized, customized Educational Plan, required of all SVC students. Please consult with an SVC Advisor to schedule courses and develop your personal Educational Plan.

MARINE MAINTENANCE TECHNOLOGY, AAS

PROGRAM MAP

99 credits

FIRST YEAR

Fall Quarter

- MT 102 - Marine Applied Mathematics (5)
  Students who do not receive an appropriate test score will require additional coursework to develop necessary skills for entry into class. (WMATH 100 can substitute for MT 102).
- MT 105 - Safety, Tools, and Fastenings (6)
- MT 132 - Marine Electrical Systems I (5)
- MT 240 - Outboard Motor Operation and Service (3)
- CSS 103 - First Quarter Experience (2)

TOTAL CREDITS: 17

Winter Quarter

- MT 110 - Electrical Tool Fundamentals (2)
  or MT 113 - Mechanical Tool Fundamentals (2)
  If MT 110 is taken this quarter, MT 112 must be taken winter quarter, second year.
- MT 133 - Marine Electrical Systems II (5)
- MT 230 - Marine Electronics (3)
- ENGL& 101 - English Composition I (5)
  Students who do not receive an appropriate test score will require additional coursework to develop necessary skills for entry into class.

TOTAL CREDITS: 16

Spring Quarter

- CMPST 121 - Composites Construction and Repair (3)
- MT 134 - Marine Electrical Systems III (5)
- MT 136 - Marine Sanitation Systems, Plumbing and Pumps (5)
- MT 199 - Cooperative Education Experience (1)
- MT 236 - Marine Electronics II (3)

TOTAL CREDITS: 17

SECOND YEAR

Fall Quarter

- MT 106 - Rigging (4)
- MT 119 - OSHA 10 Training and Forklift Certification (2)
- MT 231 - Marine Heating, Air Conditioning and Refrigeration (5)
- CMST& 210 - Interpersonal Communication: D (5)
- MANF 121 - First Aid and CPR (1)

TOTAL CREDITS: 17

Winter Quarter

- MT 112 - Mechanical Tool Fundamentals (2)
  or MT 110 - Electrical Tool Fundamentals (2)
  If MT 112 was taken first year, winter quarter, MT 110 must be taken this quarter.
- MT 160 - Marine Engine Systems (7)
- MT 161 - Inboard Drivetrain (5)
- MT 204 - Advanced Marine Systems (5)
  or CMPST 123 - Composite Vacuum Infusion/Light RTM Process (5)

TOTAL CREDITS: 17

Spring Quarter

- MT 163 - Marine Engine Systems I (5)
- MT 199 - Cooperative Education Experience (2)
- MT 241 - Outboard Motors II (5)
- MT 270 - Marine Hydraulic Systems (5)

TOTAL CREDITS: 17

MARINE ELECTRICAL TECHNICIAN, CERTIFICATE

PROGRAM MAP

55 credits

The program map is provided as a guide for a traditional full-time student whose goal is to earn the Marine Electrical Technician certificate. The courses are designed with the appropriate number of credits to meet certificate requirements and are organized in a recommended sequence. Please consult an SVC advisor to schedule courses and develop an educational plan.

A certificate is awarded to students who complete the following courses with a 2.0 grade point average or above in each course.

Fall Quarter

- MT 102 - Marine Applied Mathematics (5)
  or WMATH 100 - Professional Technical Applied Math (5)
- MT 105 - Safety, Tools, and Fastenings (6)
- MT 132 - Marine Electrical Systems I (5)
- MT 240 - Outboard Motor Operation and Service (3)
- CSS 103 - First Quarter Experience (2)

TOTAL CREDITS: 17

Winter Quarter

- MT 110 - Electrical Tool Fundamentals (2)
- MT 133 - Marine Electrical Systems II (5)
- MT 230 - Marine Electronics (3)
- CMST& 210 - Interpersonal Communication: D (5)
- ENGL& 101 - English Composition I (5)

TOTAL CREDITS: 21

Spring Quarter

- CMPST 121 - Composites Construction and Repair (3)
- MT 134 - Marine Electrical Systems III (5)
- MT 136 - Marine Sanitation Systems, Plumbing and Pumps (5)
- MT 199 - Cooperative Education Experience (1)
- MT 236 - Marine Electronics II (3)

TOTAL CREDITS: 17

MARINE MECHANICAL TECHNICIAN, CERTIFICATE

PROGRAM MAP

55 credits

The program map is provided as a guide for a traditional full-time student whose goal is to earn the Marine Maintenance Technician certificate. The courses are designed with the appropriate number of credits to meet certificate requirements and are organized in a recommended sequence. Please consult an SVC advisor to schedule courses and develop an educational plan.

A certificate is awarded to students who complete the following courses with a 2.0 grade point average or above in each course.

Fall Quarter

- MT 102 - Marine Applied Mathematics (5)
  or WMATH 100 - Professional Technical Applied Math (5)
- MT 105 - Safety, Tools, and Fastenings (3)
- MT 132 - Marine Electrical Systems I (4)
- MT 240 - Outboard Motor Operation and Service (3)
- CSS 103 - First Quarter Experience (2)

TOTAL CREDITS: 17

Winter Quarter

- MT 112 - Mechanical Tool Fundamentals (2)
- MT 160 - Marine Engine Systems I (5)
- MT 161 - Inboard Drivetrains (5)
- CMST& 210 - Interpersonal Communication: D (5)
- ENGL& 101 - English Composition I (5)

TOTAL CREDITS: 22

Spring Quarter

- CMPST 121 - Composites Construction and Repair (3)
- MT 163 - Marine Engine Systems II (5)
- MT 199 - Cooperative Education Experience (1-4) (1)
- MT 241 - Outboard Motors II (5)
- MT 270 - Marine Hydraulic Systems (5)

TOTAL CREDITS: 19

MULTI-OCCUPATIONAL TRADES (APPRENTICESHIP)

Overview

The Multi-Occupational Trades degree offers a combination of on-the-job experience provided by a registered apprenticeship training program and related general education courses. The program is intended for students already enrolled in an apprenticeship program approved by the Joint Apprenticeship Training Council (JATC). Students enrolled in apprenticeship courses who are interested in this degree should contact their apprenticeship coordinator for more information.

Specialized Program Information

Completion of (or concurrent enrollment in) a registered apprenticeship program that includes a minimum of 6,000 clock hours of on-the-job training (OJT) and a minimum of 450 clock hours of related supplemental instruction (RSI) certified by a Joint Apprenticeship and Training Committee (JATC). In addition to the completion of OJT and RSI clock hours, students must complete 17 credits of general education coursework to earn the applied science degree.

Contact Information for Apprenticeships

SVC is affiliated with two Apprenticeship programs, the Northwest Carpenter's Institute of Washington, and the Northwest Washington Electrical Industry JATC.

Although these apprenticeship programs are affiliated with Skagit Valley College, each program has its own coordinator and selection procedures. Generally, applicants must be at least 18 years old, have a valid Washington state driver's license, and go through a selection process which might include a written test, physical test, drug test, and/or interview.

If you are interested in applying to one of these apprenticeships or would like more information, please log onto the program's website.

Northwest Carpenter's Institute of Washington
www.nwci.org

Northwest Washington Electrical Industry JATC
www.nwejatc.org

MULTI-OCCUPATIONAL TRADES, AAS

REQUIRED GENERAL EDUCATION COURSES

The general education courses below are required for students that have completed or are completing their registered apprenticeship program complying with the stated requirements. Students enrolled in apprenticeship courses who are interested in this degree should contact their apprenticeship coordinator for more information regarding course sequencing.

- CSS 103 - First Quarter Experience (2)
  or an equivalent CSS Course.
- CMST& 210 - Interpersonal Communication: D (5)
  or CMST& 220 - Public Speaking (5)

- ENGL& 101 - English Composition I (5)
- MATH& 107 - Math in Society (5)
  or any college level math.

MULTIMEDIA AND INTERACTIVE TECHNOLOGY

Overview

Multimedia and Interactive Technology (MIT) is a two-year program that leads to a Web Designer, Associate in Applied Science Degree, AAS, or to Web Development, Associate in Applied Science, Transfer Degree, AAS-T. A wide array of interactive media products and services are in high demand. The MIT program prepares students to meet this demand by offering training in web design, web development, graphic arts, digital photography/videography, social media marketing, and game and app development. The MIT program offers a Web Designer degree; a Web Development degree; a one-year Web Design certificate; a Graphic Arts certificate; an Adobe certificate; a Game, App and Web Development certificate; a Digital Media Marketing certificate; and a Digital Video certificate. The Web Designer AAS degree and all but one of the certificates are available entirely online.

Program Learning Outcomes

General Education Learning Outcomes, pp 149-150.

Graduates of the Multimedia and Interactive Technology program will be able to:

- Use contemporary and industry-standard markup, scripting, and programming languages to design and develop interactive digital media products, applications and solutions.
- Use contemporary and industry-standard design tools, applications, technologies, processes and techniques to edit and create digital media products and solutions.
- Revise and improve work through self-analysis, peer critique and instructor evaluation, which are based on standard design guidelines.
- Design and produce a professional web-based digital media portfolio featuring an archive of work that demonstrates student knowledge, proficiency, skill and talent.

Program Admissions

Please apply at Enrollment Services. Students enter the program at the beginning of any quarter. Please be aware that some classes/sequences are not offered every term. Advanced standing may be requested for prior education or experience. For further information, please contact the Department Chair or Enrollment Services.

Specialized Program Information

WORK EXPERIENCE IN THE FIELD

Students will participate in Cooperative Education (MIT 199), which is supervised work experience in an approved job. Credits and grades are based on job hours worked, work performance, and completion of the learning objectives specified in the learning contract. Concurrent enrollment in the Cooperative Education seminar or arranged seminar is required. A special project may be substituted for Cooperative Education with the approval of the Department Chair.

Degree and Certificate Options

The Associate in Applied Science Degree, AAS is awarded upon completion of a minimum of 90 credits in courses numbered 100 or above with an accumulated grade point average of 2.0. Courses must include completion of the technical major and general education requirements. MIT offers an online Multimedia-Web Designer, AAS degree that is targeted to students who are interested in learning to develop and design media-rich, responsive websites.

The Associate in Applied Science, Transfer Degree, AAS-T is awarded upon completion of a minimum of 90 credits in courses numbered 100 or above with an accumulated grade point average of 2.0. Courses must include completion of the technical major and general education requirements. MIT offers a Multimedia-Web Development, AAS-T degree that is targeted to students who are interested in learning to program and develop and applications and responsive websites.

Students who are not pursuing an AAS or AAS-T degree may earn a certificate focusing on specific skills within the Multimedia program. A certificate is awarded to students who complete all courses with a 2.0 grade point average or above. These certificates can be completed in one year or less online with the exception of the Game, App and Web Development certificate.

Sample career options include–

- **Web Developers**
- **Multimedia Artist& Animators**
- **Graphic Designers**
- **Desktop Publishers**
- **Video Game Designers**
- **Software Quality Assurance Engineers& Testers**

Program Map

Program Maps are an integral part of the Planning Guide. Each Program Map includes a recommended quarterly sequence of courses for a full-time student to earn this degree within two years. The courses align with the appropriate number of credits to meet degree requirements and is designed to help you create an individualized, customized Educational Plan, required of all SVC students. Please consult with an SVC Advisor to schedule courses and develop your personal Educational Plan.

MULTIMEDIA , WEB DESIGNER, AAS

PROGRAM MAP

90 credits

FIRST YEAR

1st Quarter

- MIT 125 - Introduction to Interactive Multimedia (5)
- ART 111 - Two Dimensional Color and Design (5)
- CSS 103 - First Quarter Experience (2)

- CMST& 210 - Interpersonal Communication: D (5)
  or CMST 125 - Professional Communication: D (3)

TOTAL CREDITS: 17

2nd Quarter

- MIT 149 - Introduction to Web Page Design (5)
- MIT 226 - Adobe Photoshop (5)
- † ENGL& 101 - English Composition I (5)

TOTAL CREDITS: 15

3rd Quarter

- MIT 213 - Digital Photography (5)
  or ART 181 - Photography I (4)
- MIT 229 - Adobe Illustrator (5)
- † BUS 111 - Business Math (5)
  or WMATH 100 Professional Technical Applied Math (5)

TOTAL CREDITS: 15

SECOND YEAR

4th Quarter

- MIT 220 - Adobe InDesign (5)
- MIT 228 - Adobe Animate (5)
- MIT 235 - User Experience Design (UX) (5)

TOTAL CREDITS: 15

5th Quarter

- MIT 240 - Intermedia Web Design (5)
- MIT 260 - Search Engine Optimization (5)
- MIT 270 - CMS Fundamentals (5)

TOTAL CREDITS: 15

6th Quarter

- ‡ MIT 199 - Cooperative Educational Experience (1-15)
- MIT 249 - Advanced Web Page Design (5)
- MIT 280 - Digital Portfolio (5)
- ^ PE 100 - Wellness for Life + 1 activity credit (2)

TOTAL CREDITS: 13+

NOTES:

† Students who do not receive an appropriate test score will require additional coursework to develop necessary skills for entry into class.

‡ MIT 199 may be taken at any time after the second quarter with Department Chair approval.

^ or PE 200 or a valid CPR/First Aid certification from an approved provider

MULTIMEDIA, WEB DEVELOPMENT, AAS-T

PROGRAM MAP

97 credits

FIRST YEAR

1st Quarter

- ART 111 - Two Dimensional Color and Design (5)
- CS 101 - Computers, Technology and Society
- CSS 103 - First Quarter Experience (2)
- † ENGL& 101 - English Composition I (5)

TOTAL CREDITS: 17

2nd Quarter

- MIT 149 - Introduction to Web Page Design (5)
- CS 142 - Java Programming I (5)
- DATA 130 - Introduction to Relational Databases and SQL (5)

TOTAL CREDITS: 15

3rd Quarter

- CMST& 210 - Interpersonal Communication: D (5)
- CS 143 - Java Programming II (5)
- † MATH& 141 - Precalculus I (5)
  or MATH&146 - Introduction to Stats (5)

TOTAL CREDITS: 15

SECOND YEAR

4th Quarter

- MIT 228 - Adobe Animate (5)
- MIT 235 - User Experience Design (UX) (5)
- DATA 230 - Advanced Relational Databases and SQL (5)

TOTAL CREDITS: 15

5th Quarter

- MIT 240 - Intermedia Web Design (5)
- MIT 260 - Search Engine Optimization (5)
- MIT 270 - CMS Fundamentals (5)
- CS 210 - C++ Programming I (5)

TOTAL CREDITS: 20

6th Quarter

- MIT 249 - Advanced Web Page Design (5)
- MIT 280 - Digital Portfolio (5)
- CSS 211 - C++ Programming II (5)

TOTAL CREDITS: 15

NOTES:

† Students who do not receive an appropriate test score will require additional coursework to develop necessary skills for entry into class.

ADOBE CERTIFICATE

PROGRAM MAP

41 credits

This certificate is available entirely online. Student schedule may vary based on entry point, credit load, and prerequisites. Consult with department chair or SVC counselor for scheduling options. The student must maintain a 2.0 grade point average and complete the following:

1st Quarter

- MIT 125 - Introduction to Interactive Multimedia (5)
- MIT 220 - Adobe InDesign (5)
- MIT 226 - Adobe Photoshop (5)

TOTAL CREDITS: 15

2nd Quarter

- MIT 228 - Adobe Animate (5)
- MIT 229 - Adobe Illustrator (5)
- MIT 240 - Intermedia Web Design (5)

TOTAL CREDITS: 15

3rd Quarter

- MIT 199 - Cooperative Educational Experience (1)
- MIT 280 - Digital Portfolio (5)
- MIT 227 - Adobe Premiere Pro (5)

TOTAL CREDITS: 11

DIGITAL MEDIA MARKETING CERTIFICATE

PROGRAM MAP

41 credits

This certificate is designed to provide skills in digital marketing for the promotion of brands and products to consumers using digital technologies such as the Internet, digital advertising, and mobile phones. A certificate is awarded to students who complete the following courses with a 2.0 grade point average or above in each course.

This certificate is available entirely online.

1st Quarter
- MIT 125 - Introduction to Interactive Multimedia (5)
- MIT 226 - Adobe Photoshop (5)
- BUS 240 - Fundamentals of Marketing (5)

TOTAL CREDITS: 15

2nd Quarter
- MIT 260 - Search Engine Optimization (5)
- MIT 270 - CMS Fundamentals (5)
- BUS 122 - Social Media and Digital Marketing (5)

TOTAL CREDITS: 15

3rd Quarter
- MIT 149 - Introduction to Web Page Design (5)
- MIT 199 - Cooperative Educational Experience (1)
- MIT 229 - Adobe Illustrator (5)

TOTAL CREDITS: 11

DIGITAL VIDEO CERTIFICATE

PROGRAM MAP

31 credits

This certificate is available entirely online. The student must maintain a 2.0 grade point average and complete the following:

1st Quarter
- MIT 125 - Introduction to Interactive Multimedia (5)
- MIT 212 - Digital Videography (5)
- MIT 213 - Digital Photography (5)

TOTAL CREDITS: 15

2nd Quarter
- MIT 199 - Cooperative Educational Experience (1)
- MIT 280 - Digital Portfolio (5)
- MIT 226 - Adobe Photoshop (5)
- MIT 227 - Adobe Premiere Pro (5)

TOTAL CREDITS: 16

GAME, APP AND WEB DEVELOPMENT CERTIFICATE

PROGRAM MAP

44 credits

Courses MIT 105, MIT 115, and MIT 205 are taught at the Northwest Career and Technical Academy (NCTA) located at the Mount Vernon campus. College students will sign up for these courses through SVC. All other courses are offered online through the MIT program at SVC. The NCTA follows the K-12 school year calendar. Classes at the NCTA start earlier in September than do the online classes. Classes this year will probably start September 4. To see the complete school year K-12 calendar, go to **https://www.nwtech.k12.wa.us/** for details.

The student must maintain a 2.0 grade point average and complete the following:

Fall Quarter
- MIT 105 - Video Game Development I (8)
- MIT 149 - Introduction to Web Page Design (5)
- MIT 228 - Adobe Animate (5)

TOTAL CREDITS: 18

Winter Quarter
- MIT 115 - Video Game Development II (8)
- MIT 240 - Intermedia Web Design (5)

TOTAL CREDITS: 13

Spring Quarter
- MIT 205 - Video Game Development III (8)
- MIT 249 - Advanced Web Page Design (5)

TOTAL CREDITS: 13

GRAPHIC ARTS CERTIFICATE

PROGRAM MAP

36 credits

This certificate is available entirely online. The student must maintain a 2.0 grade point average and complete the following:

1st Quarter
- MIT 125 - Introduction to Interactive Multimedia (5)
- MIT 213 - Digital Photography (5)
  or ART 181 - Photography I (4)
- ART 111 - Two Dimensional Color and Design (5)

TOTAL CREDITS: 15

2nd Quarter
- MIT 220 - Adobe InDesign (5)
- MIT 226 - Adobe Photoshop (5)
- MIT 229 - Adobe Illustrator (5)

TOTAL CREDITS: 15

3rd Quarter
- MIT 199 - Cooperative Educational Experience (1)
- MIT 280 - Digital Portfolio (5)

TOTAL CREDITS: 6

WEB DESIGN CERTIFICATE

PROGRAM MAP

This certificate is available entirely online. Student schedule may vary based on entry point, credit load, and prerequisites. Consult with department chair or SVC counselor for scheduling options. The student must maintain a 2.0 grade point average and complete the following:

FIRST YEAR

1st Quarter
- MIT 125 - Introduction to Interactive Multimedia (5)
- MIT 149 - Introduction to Web Page Design (5)
- MIT 226 - Adobe Photoshop (5)

TOTAL CREDITS: 15

2nd Quarter

- MIT 235-User Experience Design (UX) (5)
- MIT 240-Intermedia Web Design (5)
- MIT 249-Advanced Web Page Design (5)

TOTAL CREDITS: 15

3rd Quarter

- MIT 199-Cooperative Educational Experience (1)
- MIT 260-Search Engine Optimization (5)
- MIT 270-CMS Fundamentals (5)

TOTAL CREDITS: 11

NURSING

Overview

The Nursing (NURS) program at Skagit Valley College (SVC) prepares students for a lifelong career in nursing practice. Nursing is one of the most diverse and exciting careers in today's health care field. It provides unlimited opportunities and numerous benefits for those who enter the profession. Nurses are employed in a variety of settings including hospitals, skilled and long-term care facilities, home health care agencies, medical offices, mental health facilities, and corrections. New technologies are continually developing in the health care field, offering exciting and challenging career opportunities.

Nursing is a demanding, rewarding profession that requires strong communication skills, excellent problem-solving abilities, focused concentration when performing a task, attention to detail, the ability to work well with others, and extensive knowledge of the sciences.

Program Learning Outcomes

General Education Learning Outcomes, pp 149-150.

The nursing philosophy supports the student learner outcomes of Human Flourishing, Nursing Judgment, Professional Identity and Spirit of Inquiry:

- **Human Flourishing:** Advocate for patients and families in ways that promote their self-determination, integrity, and ongoing growth as human beings.
- **Nursing Judgment:** Make judgments in practice, substantiated with evidence, that integrate nursing science in the provision of safe, quality care and promote the health of patients within a family and community context.
- **Professional Identity:** Implement one's role as a nurse in ways that reflect integrity, responsibility, ethical practices, and an evolving identity as a nurse committed to evidence-based practice, caring, advocacy, and safe, quality care for diverse patients within a family and community context.
- **Spirit of Inquiry:** Examine the evidence that underlies clinical nursing practice to challenge the status quo, question underlying assumptions, and offer new insights to improve the quality of care for patients, families, and communities.

The nursing process is foundational to the curricular framework defined by the National League for Nursing (2010) and adopted by Skagit Valley College ADN program. The nursing process consists of Assessment, Diagnosis, Planning, Implementation and Evaluation.

Nursing Curriculum and Graduate Outcomes

The curriculum includes a strong foundation in communication, biological and social sciences, general education and nursing courses. Students integrate theory and practice throughout the nursing program by combining their classroom work with skills laboratory and clinical experiences. The curriculum design reflects the nursing mission, philosophy, and program objectives. Faculty adopted the NLN Core Components and Competencies for Associate Degree Graduates (NLN 2010) as the organizing framework for the program. Each component was defined by SVC faculty. Competencies for each course and for SVC ADN students were developed. The curriculum design provides the foundation for nursing theory course content, laboratory experiences on campus, patient care experiences in clinical setting, and evaluation of student learning.

The goal of the Nursing Program at SVC is to educate students to practice nursing within varied health care settings. Nursing education will assist the student to promote optimal level of health and wellness for the individual, family and community.

Program Accreditation

Skagit Valley College's Registered Nursing program (RN) is approved by the Washington State Department of Health Nursing Care Quality Assurance Commission (NCQAC). The RN program is nationally accredited by the Accreditation Commission for Education in Nursing (ACEN). For further information, contact the organizations directly:

- NCQAC-111 Israel Road SE, Tumwater, WA 98501; 360.236.4700; **www.doh.wa.gov**
- ACEN-3390 Peachtree Road, NE, Suite 1400, Atlanta, GA 30326; 404.975.5000; **www.acenursing.org**

Program Admissions

Required Immunizations for all Nursing Programs:

1. Negative TB test, OR chest x-ray and clearance by Health Care Provider. Students must provide documentation by the end of first week of class.
2. Current American Heart Association Basic Life Support. A CPR card received through an internet-based training program is not acceptable for this program.
3. Annual Flu vaccine (except summer quarter).
4. Additional immunizations requirements will be discussed if you are accepted into the RN or LPN to RN program.

Program Re-entry

Students requesting re-entry to the Registered Nursing program must fulfill current re-entry requirements as specified by the SVC Nursing Re-Entry Policy. Re-entry is based on space availability and Nursing faculty determination. A student who has a program interruption may be required to repeat some, if not all, nursing program courses if there have been curriculum changes or if the interruption has lasted greater than one year. Students will not be allowed to reenter the SVC Registered Nursing Program at either campus more than once for any reason. An exception will be made for student withdrawal due to military service. A student can apply for re-entry only once. If

not granted, a student may not apply for new admission into the program after having been denied re-entry.

Specialized Program Information

CERTIFICATION/LICENSURE

Upon successful completion of the nursing certificate or degree program, Nursing program graduates are eligible to take the National Council Licensure Examination (NCLEX-RN) for registered nursing that is offered by the Washington State Nursing Care Quality Assurance Commission. This computerized examination is individually scheduled at designated testing sites. Successful completion of the examination is required to be licensed as a registered nurse (RN). Passing a national licensing exam from the National Council of State Boards of Nursing (NCLEX-RN for RN) is required prior to working in the field, or pursuing advanced training and education (BSN, etc.) Graduates of the NAC program are eligible to take the Washington State competency examination to become a Certified Nursing Assistant.

SVC has not determined that the Nursing curriculum meets educational requirements for licensure/certification outside of Washington State. Students who plan to work in locations outside of Washington should check local state licensure and certification requirements.

NURSING PROGRAM LOCATIONS

The Nursing programs at SVC are offered at two campus locations: Mount Vernon Campus and Whidbey Island Campus (located in Oak Harbor).

NURSING PROGRAM WEBSITE

For the most current information about the Nursing program, specific program admission requirements, application documents, and deadlines, go to SVC's website at **skagit.edu/nursing**.

Degree and Certificate Options

ASSOCIATE IN PRE-NURSING TRANSFER AGREEMENT, DTA/MRP DEGREE

90 credits, full-time

Students who complete this degree may also choose to apply for entrance into the Associate in Nursing DTA/MRP degree at Skagit Valley College.

The Pre-Nursing Direct Transfer Agreement, Major Related Program or Major Related Program (DTA/MRP) streamlines preparation for the basic Bachelor of Science in Nursing (BSN) pathway across the State. It does not, however, address the issue of significantly inadequate capacity (faculty, clinical opportunities, etc.) at the BSN level relative to workforce needs or current student interest. Due to high interest and limited space in BSN programs, admission to all BSN programs is highly competitive with many qualified applicants often finding themselves on waiting lists for admission.

BSN admission application deadlines vary; students must meet the deadline for the university or universities to which they plan to apply for admission to transfer.

Certain schools may have additional "university-specific" requirements for admission to the institution, not pre-requisites specifically identified in the DTA requirements, which will need to be completed prior to graduation. Contact with advisors from individual schools for institutional requirements is highly recommended since this DTA may not meet every institution-specific graduation requirement.

ASSOCIATE IN NURSING DTA/MRP DEGREE

135 credits, full-time

The Associate in Nursing Direct Transfer Agreement (DTA/MRP) prepares students who are highly educated, technically advanced, competent and caring individuals to practice professional nursing in a variety of settings. The full-time Registered Nursing program runs 6 quarters with summers off. Attendance requirements are daytime lecture and lab classes, and both daytime and evening clinical experiences. Graduates of this program are eligible to take the examination for licensure as a registered nurse (NCLEX-RN). Passing the NCLEX-RN exam and completion of this transfer degree provide the general education and nursing courses for direct transfer with only one additional year of study to complete the Bachelor of Science in Nursing (RN-BSN pathway). Baccalaureate institutions part of this agreement include: Washington State University, University of Washington, Western Washington University, Heritage University, Pacific Lutheran University, Seattle Pacific University, St. Martin's University, and Western Governors University.

All interested students must meet minimum academic qualifications to be considered for admission. Please see the nursing web page at **skagit.edu/nursing** for application requirements; both academic and non-academic.

Note: *Admission to an RN to BSN program may be competitive; therefore, no particular GPA can guarantee admission to any specific program. Certain schools may have additional university-specific requirements for admission to the institution that are not prerequisites specifically identified in the DTA requirements.*

REGISTERED NURSING AAS DEGREE (FULL-TIME)

99 credits, part-time

LPN LICENSE HOLDERS

SVC offers a Registered Nursing, AAS degree for nurses who have graduated from a PN program and have a current Washington State unencumbered LPN license. The LPN to RN typically focuses on the second year of Registered Nursing courses. Students complete the same RN program prerequisites and related education courses required for the ADN DTA/MRP Nursing degree. The program was designed to create a pathway for PN graduates to move into high-wage, high-demand career opportunities in healthcare. Graduates receive an Associate Degree (AAS) in Registered Nursing and are eligible to apply for the State Licensing Examination (NCLEX-RN) for Registered Nursing. This is a 3 to 4 quarters, full-time path. *If seats are available, students may choose to take SOC 191 and receive the ADN DTA/MPR Nursing degree.

ADVANCED PLACEMENT

SVC offers a Registered Nursing, AAS degree for students who have previously taken RN courses at another institution and would like to complete their RN course work at SVC. Students complete the same RN program prerequisites and related education courses required for the ADN DTA/MRP Nursing degree. In addition, students applying for advanced entry must submit a letter of recommendation from the director, chair or last nursing instructor as well as Syllabi and Course Catalog information for previous RN courses taken. Decision for advanced placement is the responsibility of the Dean of Nursing and Allied Health. Graduates receive an Associate Degree (AAS) in Registered Nursing and are eligible to apply for the State Licensing Examination (NCLEX-RN) for Registered Nursing This is full-time and number of quarters depends on placement. *If seats are available, students may choose to take SOC 191 and receive the ADN DTA/MPR Nursing degree.

NURSING ASSISTANT EDUCATION CERTIFICATE

8 credits

The Nursing Assistant program prepares students for employment as Nursing Assistants in hospitals, clinics, long-term care facilities, and home healthcare agencies. Additionally, this program prepares students for continuation into practical or registered nurse programs. Graduates of the program are eligible to take the Washington State competency examination to become a Nursing Assistant Certified. This is a Washington State approved, one quarter course, requiring 44 hours of classroom instruction and 88 hours of lab/clinical experience. Students must attend all scheduled classes and clinical experiences to meet State certification requirements.

Program Map

Program Maps are an integral part of the Planning Guide. Each Program Map includes a recommended quarterly sequence of courses for a full-time student to earn this degree within two years. The courses align with the appropriate number of credits to meet degree requirements and is designed to help you create an individualized, customized Educational Plan, required of all SVC students. Please consult with an SVC Advisor to schedule courses and develop your personal Educational Plan.

REGISTERED NURSING, AAS

34 credits

Sample career options include–

- **Registered Nurse**
- **Critical Care Nurse**
- **Acute Care Nurse**

General Education and Nursing Prerequisites

- BIOL& 160 - General Biology w/Lab(5)
- BIOL& 241 - Human Anatomy and Physiology I (5)
- BIOL& 242 - Human Anatomy and Physiology II (5)
- BIOL& 260 - Microbiology (5)
- CHEM& 121 - Introduction to Chemistry (5)
- ENGL& 101 - English Composition I (5)
- ENGL& 102 - Composition II (5)
- MATH& 146 - Introduction to Stats (5)
- NUTR& 101 - Nutrition (5)
- PSYC& 100 - General Psychology (5)
- PSYC& 200 - Lifespan Psychology (5)
- Elective Course
  See Distribution Lists - AA-DTA for elective course options in Natural Sciences, Social Sciences, and Humanities.:
- Humanities Electives - 10 Credits

FIRST QUARTER

- NURS 271-Nursing Advncd OB, Ped, M/S-Skls Prac (5)
  LECTURE
- NURS 272-Nursing Advncd OB, Ped, M/S-Skls Prac (5)
  CLINICAL
- NURS 273-Nursing Advncd OB, Ped, M/S-Skls Prac (2)
  LAB

TOTAL CREDITS: 12

SECOND QUARTER

- NURS 281-Nursing Complx M/S and Geriatric Patient (5)
  LECTURE
- NURS 282-Nursing Complx M/S and Geriatric Patient (5)
  CLINICAL

TOTAL CREDITS: 10

THIRD QUARTER

- NURS 291-Entry Nursing Practice/Practicum (3)
  LECTURE
- NURS 292-Entry Nursing Practice/Practicum (4)
  CLINICAL

TOTAL CREDITS: 7

NURSING ASSISTANT EDUCATION CERTIFICATE

Offered at Mount Vernon and Whidbey Island Campuses

8 credits

A certificate is awarded to students who complete the following courses with a 2.3 grade point average or above in each course.

REQUIRED COURSES

- NURS 100-Nursing Assistant Education (4)
  LECTURE
- NURS 101-Nursing Assistant Education (3)
  CLINICAL
- NURS 102-Nursing Assistant Education (1)
  LAB

TOTAL CREDITS: 8

PARK RANGER LAW ENFORCEMENT ACADEMY

Overview

The Park Ranger Law Enforcement Academy (PRLEA) meets the entry requirements for work as a Law Enforcement Park Ranger within the National, State, County and local park systems. It is one of only seven National Park Service (NPS) approved academies in the U.S. that provides the accredited curriculum that is also approved by other federal land management agencies as a Seasonal Law Enforcement Training Program

(SLETP). It is also an approved training program accepted by local and state park agencies. This 720 hour-long academy is nationally accredited and approved by the National Park Service and the Federal Law Enforcement Training Center (FLETC) to provide Level II law enforcement commissioning. The Park Ranger Law Enforcement Academy enrolls students in Summer and Winter quarters.

In addition to the PRLEA Certification, students are welcome to gain extra training in Wildland Firefighting and Emergency Medical Response (EMR). Classes are optional and tuition and fees are assessed separately. Gaining this extra training will add qualifications for students when they begin applying for competitive Federal and State Park Service employment.

- Wildland Firefighting-Completion of FIRE 126 will allow students to suppress wildland fires while under close supervision.
- Emergency Medical Responder-Completion of FIRE 140 prepares students to take the Washington State 60-hour First Responder emergency medical certification test battery.

As a graduate of the academy, you will gain a competitive edge in seeking jobs with the various agencies in the law enforcement community. SVC graduates have been highly successful in securing employment with the National Park Service, Washington State Parks, U.S. Fish and Wildlife Service, Bureau of Indian Affairs, Everett City Parks, and many other federal, state, county and city land management agencies (contact specific agencies for employment requirements).

Program Learning Outcomes

Graduates of the PRLEA program will be able to:

- Demonstrate an understanding of the overarching rules governing individual conduct in the Park Ranger Law Enforcement Academy.
- Demonstrate an understanding of the differences between policies, procedures, protocols, memorandums of understanding, guidelines, laws and rules as they apply in the park/public safety workplace.
- Demonstrate an understanding of the parallels between the U.S. and Washington State Constitutions.
- Perform defensive tactics, differentiate firearms, know the makeup of chemical agents, use Tasers effectively, and demonstrate emergency vehicle operations on a course.
- Demonstrate an understanding of the how the park design often influences park physical security and promotes crime within.

Program Admission

The Park Ranger Law Enforcement Academy only enrolls students in Summer and Winter quarters. Please contact Jennifer Knezek for access codes at Jennifer.Knezek@skagit.edu or 360.416.7919.

PRLEA ELIGIBILITY:

- You must be 21 years of age or older, and be physically and mentally fit for service.
- You must successfully pass a criminal history and background check, drug analysis screening, and application review by the academy's Advisory Committee.
- You must have a High School diploma or GED certificate.

Certificate Options

The Park Ranger Law Enforcement Academy meets the entry requirements for work as a Law Enforcement Park Ranger within the National, State, County and local park systems. This 720 hour-long academy is nationally accredited and approved by the National Park Service and the Federal Law Enforcement Training Center (FLETC) to provide Level II law enforcement commissioning. A certificate is awarded to students who complete the required courses with a 2.0 grade point average or above in each course and achieve technical competency. For further information contact the Director of SVC's Law Enforcement Academies.

Sample career options include–

- **Association of National Park Rangers**
- **National Park Service**
- **Federal Law Enforcement Training Center**
- **WA State Parks and Recreation Commission**

PARK RANGER LAW ENFORCEMENT ACADEMY PRLEA CERTIFICATE

30 credits

REQUIRED COURSES:

- PRLEA 241 - Park Ranger Law Enforcement Academy (PRLEA) Module 1 (6)
- PRLEA 242 - Park Ranger Law Enforcement Academy (PRLEA) Module 2 (6)
- PRLEA 243 - Park Ranger Law Enforcement Academy (PRLEA) Module 3 (6)
- PRLEA 244 - Park Ranger Law Enforcement Academy (PRLEA) Module 4 (6)
- PRLEA 245 - Park Ranger Law Enforcement Academy (PRLEA) Module 5 (6)

PARK RANGER LAW ENFORCEMENT ACADEMY PRLEA/EMT CERTIFICATE

35 credits

REQUIRED COURSES:

- PRLEA 241 - Park Ranger Law Enforcement Academy (PRLEA) Module 1 (6)
- PRLEA 242 - Park Ranger Law Enforcement Academy (PRLEA) Module 2 (6)
- PRLEA 243 - Park Ranger Law Enforcement Academy (PRLEA) Module 3 (6)
- PRLEA 244 - Park Ranger Law Enforcement Academy (PRLEA) Module 4 (6)
- PRLEA 245 - Park Ranger Law Enforcement Academy (PRLEA) Module 5 (6)
- FIRE 140 - Emergency Medical Responder (5)

PARK RANGER LAW ENFORCEMENT ACADEMY PRLEA/ FIRE CERTIFICATE

33 credits

Required Courses:

- PRLEA 241 - Park Ranger Law Enforcement Academy (PRLEA) Module 1 (6)
- PRLEA 242 - Park Ranger Law Enforcement Academy (PRLEA) Module 2 (6)
- PRLEA 243 - Park Ranger Law Enforcement Academy (PRLEA) Module 3 (6)
- PRLEA 244 - Park Ranger Law Enforcement Academy (PRLEA) Module 4 (6)
- PRLEA 245 - Park Ranger Law Enforcement Academy (PRLEA) Module 5 (6)
- FIRE 126 - Wildland Firefighting (3)

TECHNICAL DESIGN (CAD)

Overview

Technical Design is part of the Manufacturing Technology program at Skagit Valley College. It prepares students for entry-level work as a technical designer/drafter and Computer- Aided Design (CAD) operator. Drafters prepare technical drawings and plans, which are used by production and construction workers to build everything from microchips to skyscrapers. Drafters' drawings provide visual guidelines, dimensions, materials, and show how to construct a product or structure.

Program Learning Outcomes

Students that complete the Technical Drawing micro-certificate will be able to:

- Satisfy transfer requirements for engineering graphics course.
- Produce basic engineering drawings.
- Understand the information contained on drafted material when on the job.
- Be familiar with the design process, working both as an individual and as part of a group.
- Demonstrate computer aided design (CAD) parametric modeling.
- Create and analyze advanced assembly models.
- Apply CAD computational analysis tools to engineering design.
- Participate in the fundamental engineering design sequence.
- Document an engineering design package
- Apply GD&T to specify Form for a part.

Program Admissions

Please apply at Enrollment Services. Students may enter the program at the beginning of any quarter. It is recommended that students complete at least one year of high school algebra, or take WMATH 100 (Professional Technical Applied Math) before starting any certificate sequence. All courses in this program require extensive reading and use of computer technology. The ability to read English at the 8th grade level or above is highly recommended. Students should be skilled users of computer technology. For further information, contact the Department Chair or Enrollment Services.

Specialized Program Information

For more information, please contact the department chair, Bruce Poole, at 360.416.6549 or bruce.poole@skagit.edu.

Certificate Options

Micro-Certificates of Completion are designed for taking courses over a short period of time focusing on enhancement or development of a specific skill or set of skills. Micro-Certificate courses can help enhance employability skills or provide preparation for continuing education in the program area. Students must maintain a 2.0 GPA or above in all required course work and a minimum letter grade of C- or above in all required courses.

TECHNICAL DRAWING MICRO-CERTIFICATE

10 credits

This micro-certificate program prepares students for entry-level work as a technical drafter and Computer-Aided Design (CAD) operator. The program is designed to provide training for individuals seeking entry-level employment as drafting technicians. A micro-certificate is awarded to students who maintain an overall 2.0 grade point average (GPA) and a 2.0 grade point average in the technical major with a minimum letter grade of C- or above in all required courses.

REQUIRED COURSES

- ENGR& 114 - Engineering Graphics (5)
- ENGR 216 - Integrated CAD Design (5)

WELDING TECHNOLOGY

Overview

The Welding Technology (WT) program prepares students to work as entry-level welders, fitters, or metal fabricators in a variety of industries including boat-building, construction, industrial maintenance, and manufacturing. Students study a variety of layout, fabrication, and metal joining techniques using steel, stainless steel, and aluminum. Processes include oxyfuel cutting, shielded metal arc welding, gas metal arc welding, flux cored arc welding, and gas tungsten arc welding. Instructional facilities include individual welding practice booths and a large metal fabrication area.

The Welding Program stays current with industry needs through an active Advisory Committee made up of representatives from local businesses that regularly seek our graduates for employment. SVC is accredited through the American Welding Society entry-level welder training program. SVC is also a certified Washington Association of Building Officials (WABO) testing site. Students will move from theory

to application to certification in all common manual and semi-automatic welding processes.

Students are required to supply various tools, protective clothing, and welding consumables. A complete list can be obtained by contacting Mary Kuebelbeck at mary.kuebelbeck@skagit.edu or 360.416.6743.

Program Learning Outcomes

General Education Learning Outcomes, pp 149-150.

Graduates of the Welding Technology program will be able to:

- Demonstrate safe and healthy welding practices
- Fabricate competently
- Weld proficiently
- Work effectively

Program Admissions

Please apply at Enrollment Services. Welding is a precision craft that demands good eyesight, hand-eye coordination, manual dexterity, and the ability to work in awkward positions. The ability to read English at the 8th grade level is highly recommended. Advanced standing may be requested. For more information, contact the Department Chair or Enrollment Services.

Specialized Program Information

CAREER AND TECHNICAL EDUCATION (CTE)

Please see Academic Information, pp 231 for information regarding CTE.

PROGRAM NOTES

The Welding Technology program offers a wide variety of classes with morning, afternoon, evening, and Saturday options. Students may choose brief skills enhancing classes, i.e. program certificates or a 2-year AAS Degree.

WORK-BASED LEARNING

Students will integrate classroom learning with work-based learning experience in Cooperative Education (WT 199) at a supervised work site. Department Chair approval is required. Credits and grades are based on job-hours worked, work performance, and completion of the learning objectives specified in the learning contract. Concurrent enrollment in a Cooperative Education Seminar or equivalent is required.

Degree Options

ASSOCIATE IN APPLIED SCIENCE DEGREE

An Associate in Applied Science Degree, AAS is awarded upon completion of a minimum of 90 credits in courses numbered 100 or above with an accumulated grade point average of 2.0. Courses must include completion of the technical major and general education requirements.Graduates of the two-year Welding Technology Associate in Applied Science (AAS) degree program become proficient in all of the common industrial welding and cutting processes used in the boatbuilding, industrial maintenance, construction, and manufacturing, industries. Students receive advanced training in diverse topics ranging from welding metallurgy to blueprint reading and weld symbols.

Certificate Options

A Professional Technical Certificate prepares students for entry into a technical field of employment. Certificates include completion of the technical major required courses and related instruction in communication, math, and human relation skills. To qualify for certification, students must maintain a 2.0 GPA or above in all required course work.

AMERICAN WELDING SOCIETY CERTIFICATE

The SVC Welding program is an approved participant in the American Welding Society Entry-Level Welder Training program. Students who complete coursework requirements and pass written and performance exams will earn a certificate from the AWS (nominal fee required).

WABO CERTIFICATION

The SVC Welding Program is an approved test lab for the Washington Association of Building Officials (WABO) welder certification program. Students completing certification or degree programs will have the opportunity to earn this important industry credential (a nominal fee is required). Special coursework is available to prepare experienced welders for this test.

Program Map

Program Maps are an integral part of our Planning Guide. Each Program Map includes a recommended quarterly sequence of courses for a full-time student to earn this degree within two years. The courses align with the appropriate number of credits to meet degree requirements and is designed to help you create an individualized, customized Educational Plan, required of all SVC students. Please consult with an SVC Advisor to schedule courses and develop your personal Educational Plan.

Sample career options include–

- **Welding, Soldering and Brazing Machine Setters, Operators, and Tenders**
- **Welders, Cutters, and Welder Fitters**
- **Structural Metal Fabricators and Fitters**

WELDING TECHNOLOGY, AAS

PROGRAM MAP

104 credits

FIRST YEAR

Fall Quarter

- WT 111 - Introduction to Shielded Metal Arc Welding (5)
- WT 114 - Thermal Cutting Processes (3)
- WT 211 - Intermediate Shielded Metal Arc Welding (9)
- CSS 103 - First Quarter Experience (2)

TOTAL CREDITS: 19

Winter Quarter

- WT 112 - Introduction to Wirefeed Welding (5)

- WT 221-Shielded Metal Arc Welding Applications and Certification (9)
- † ENGL& 101-English Composition I (5)

TOTAL CREDITS: 19

Spring Quarter

- WT 140-Print Reading in Welding (3)
- WT 212-Intermediate Wirefeed Welding (9)
- † WMATH 100-Professional Technical Applied Math (5)

TOTAL CREDITS: 22

SECOND YEAR

Fall Quarter

- WT 113-Introduction to Inert Gas and Aluminum Welding (5)
- WT 118-Welding Joint Design and Welding Symbols (3)
- WT 222-Wirefeed Welding Applications and Certification (9)

TOTAL CREDITS: 17

Winter Quarter

- WT 116-Introduction to Welding Metallurgy (5)
- WT 213-Intermediate Inert Gas and Aluminum Welding (9)
- CMST& 210-Interpersonal Communication: D (5)

TOTAL CREDITS: 14

Spring Quarter

- WT 199-Cooperative Education Experience (1)
- WT 223-Inert Gas and Aluminum Welding Applications and Certification (9)
- MANF 120-Industrial Safety (2)
- MANF 121-First Aid and CPR (1)

TOTAL CREDITS: 13

NOTES

† Students who do not receive an appropriate test score will require additional coursework to develop necessary skills for entry into class.

Students are required to supply protective clothing and various welding consumables. A complete list can be obtained by emailing the Department Chair or by visiting the weld shop in Reeves Hall.

WELDING TECHNOLOGY CERTIFICATE

PROGRAM MAP

71 credits

This certificate is for training and certification in two of the three most commonly used manual welding processes. Credits earned will depend on the training sequence selected.

A certificate is awarded to students who complete the required courses with a 2.0 grade point average or above in all required coursework.

REQUIRED COURSES

(select any two of the following WT sequences):

Shield Metal Arc Welding

- WT 111 - Introduction to Shielded Metal Arc Welding (5)
- WT 114 - Thermal Cutting Processes (3)
- WT 211 - Intermediate Shielded Metal Arc Welding (9)
- WT 221 - Shielded Metal Arc Welding Applications and Certification (9)

Flux Cored Arc Welding

- WT 112 - Introduction to Wirefeed Welding (5)
- WT 114 - Thermal Cutting Processes (3)
- WT 212 - Intermediate Wirefeed Welding (9)
- WT 222 - Wirefeed Welding Applications and Certification (9)

Inert Gas and Aluminum Welding

- WT 113 - Introduction to Inert Gas and Aluminum Welding (5)
- WT 118 - Welding Joint Design and Welding Symbols (3)
- WT 213 - Intermediate Inert Gas and Aluminum Welding (9)
- WT 223 - Inert Gas and Aluminum Welding Applications and Certification (9)

Plus related instruction in

- MANF 120 - Industrial Safety (2)
- MANF 121 - First Aid and CPR (1)
- CMST& 210 - Interpersonal Communication: D (5)
- ENGL& 101 - English Composition I (5)
- WT 140 - Print Reading in Welding (3)
- WT 199 - Cooperative Education Experience (1-15) (1)
- WMATH 100 - Professional Technical Applied Math (5)

WELDING TECHNOLOGY: ALUMINUM WELDING SPECIALTY CERTIFICATE

32 credits

This certificate focuses on specific welding process skills which culminates with the passing of a standard welder qualification test using the covered process. The training time needed to pass the culminating welder qualification test will vary based on past experience and pace of learning.

A certificate is awarded to students who complete the required courses with a 2.0 grade point average or above in all required coursework.

REQUIRED COURSES

- WT 113 - Introduction to Inert Gas and Aluminum Welding (5)
- WT 117 - Hand and Power Tools (3)
- WT 140 - Print Reading in Welding (3)
- WT 213 - Intermediate Inert Gas and Aluminum Welding (9)
- WT 223 - Inert Gas and Aluminum Welding Applications and Certification (9)
- MANF 120 - Industrial Safety (2)
- MANF 121 - First Aid and CPR (1)

WELDING TECHNOLOGY: FLUX-CORED ARC WELDING SPECIALTY CERTIFICATE

32 credits

This certificate focuses on specific welding process skills which culminates with the passing of a standard welder qualification test using the covered process. This is a strictly skills-based certificate. The training time needed to pass the culminating welder qualification test will vary based on past experience and pace of learning.

A certificate is awarded to students who complete the required courses with a 2.0 grade point average or above in all required coursework.

REQUIRED COURSES

- WT 112 - Introduction to Wirefeed Welding (5)
- WT 114 - Thermal Cutting Processes (3)
- WT 140 - Print Reading in Welding (3)
- WT 212 - Intermediate Wirefeed Welding (9)
- WT 222 - Wirefeed Welding Applications and Certification (9)
- MANF 120 - Industrial Safety (2)
- MANF 121 - First Aid and CPR (1)

WELDING TECHNOLOGY: SHIELDED METAL ARC WELDING SPECIALTY CERTIFICATE

32 credits

This certificate focuses on specific welding process skills which culminates with the passing of a standard welder qualification test using the covered process. This is a strictly skills-based certificate. The training time needed to pass the culminating welder qualification test will vary based on past experience and pace of learning.

A certificate is awarded to students who complete the required courses with a 2.0 grade point average or above in all required coursework.

REQUIRED COURSES

- WT 111 - Introduction to Shielded Metal Arc Welding (5)
- WT 114 - Thermal Cutting Processes (3)
- WT 140 - Print Reading in Welding (3)
- WT 211 - Intermediate Shielded Metal Arc Welding (9)
- WT 221 - Shielded Metal Arc Welding Applications and Certification (9)
- MANF 120 - Industrial Safety (2)
- MANF 121 - First Aid and CPR (1)

7 Other Degree/Program Information

DISTRIBUTION LISTS – AA-DTA

Select credits from three areas of study: Natural Sciences, Social Sciences, and Humanities. Eligible courses are listed below. A specific course may be credited toward no more than one distribution requirement. Courses with an ampersand (&) are Common Course Numbering courses.

Natural Sciences (15 cr.)

Select courses from at least two of the following disciplines, with no more than 10 credits from one discipline and no more than 5 credits in Math or Earth Sciences. One lab science must also be included in selected courses.

An asterisk (*) designates a lab course.

BIOLOGICAL SCIENCE

- BIOL& 100 - Survey of Biology (5) *
- BIOL 105 - Introduction to Plant Science (5) *
- BIOL 133 - Field Botany (5) *
- BIOL& 160 - General Biology w/Lab (5) *
- BIOL& 170 - Human Biology (5)
- BIOL 205 - Marine Biology (5) *
- BIOL& 221 - Majors Ecology/Evolution (5) *
- BIOL& 222 - Majors Cell/Molecular Biology (5) *
- BIOL& 223 - Majors Organismal Physiology (5) *
- BIOL& 241 - Human Anatomy and Physiology I (5) *
- BIOL& 242 - Human Anatomy and Physiology II (5) *
- BIOL& 260 - Microbiology (5) *

CHEMISTRY

- CHEM& 100 - Preparatory Chemistry (5)
- CHEM& 105 - Chemical Concepts (5)
- CHEM& 110 - Chemical Concepts with Lab (5) *
- CHEM& 121 - Introduction to Chemistry (5) *
- CHEM& 122 - Introduction to Organic Chemistry (5)
- CHEM& 123 - Introduction to Biochemistry (5)
- CHEM& 131 - Introduction to Organic/Biochemistry (5) *
- CHEM& 161 - General Chemistry w/Lab I (5) *
- CHEM& 162 - General Chemistry w/Lab II (5) *
- CHEM& 163 - General Chemistry w/Lab III (5) *
- CHEM& 241 - Organic Chemistry I (4) *and*
- CHEM& 251 - Organic Chemistry Lab I (2) *
- CHEM& 242 - Organic Chemistry II (4) *and*
- CHEM& 252 - Organic Chemistry Lab II (2) *
- CHEM& 243 - Organic Chemistry III (3)

EARTH SCIENCES

- ASTR& 100 - Survey of Astronomy (5)
- ASTR& 101 - Introduction to Astronomy (5) *
- EASC 102 - Meteorology (5) *
- EASC 110 - Energy and Society (5) *
- EASC 111 - Matter and Energy in Earth Science (5) *
- EASC 120 - Climate Change and Climate Solutions (5) *
- GEOL& 100 - Survey of Earth Science (5)
- GEOL& 101 - Introduction to Physical Geology (5) *
- GEOL& 110 - Environmental Geology (5) *
- GEOL& 208 - Geology of Pacific NW (5) *
- OCEA& 101 - Introduction to Oceanography (5) *

ENVIRONMENTAL CONSERVATION

- ENVC 165 - Sustainability Fundamentals (5) *
- ENVC 202 - Wildlife Biology: D (5) *

ENVIRONMENTAL SCIENCE

- ENVS& 101 - Introduction to Env Science (5) *

MATHEMATICS

- MATH& 107 - Math in Society (5)
- MATH& 141 - Precalculus I (5)
- MATH& 142 - Precalculus II (5)
- MATH& 146 - Introduction to Stats (5)
- MATH& 148 - Business Calculus (5) or
- MATH& 151 - Calculus I (5)
- MATH& 152 - Calculus II (5)
- MATH& 153 - Calculus III (5)

NUTRITION

- NUTR& 101- Nutrition (5)

PHYSICS

- PHYS& 100 - Physics Non-Sci Majors (5)
- PHYS 111 - Matter and Energy in Physics (5) *
- PHYS& 124 - General Physics Lab I (1) * *and*
- PHYS& 134 - General Physics I (5)
- PHYS& 125 - General Physics Lab II (1) * and
- PHYS& 135 - General Physics II (5)
- PHYS& 126 - General Physics Lab III (1) * and
- PHYS& 136 - General Physics III (5)

7 Other Degree Information

- PHYS& 231 - Engineering Phys Lab I (1) * *and*
- PHYS& 241 - Engineering Physics I (5)
- PHYS& 232 - Engineering Phys Lab II (1) * *and*
- PHYS& 242 - Engineering Physics II (5)
- PHYS& 233 - Engineering Phys Lab III (1) * *and*
- PHYS& 243 - Engineering Physics III (5)

Social Sciences (15 cr.)

Select courses from at least two of the following disciplines, with no more than 10 credits from one discipline:

ANTHROPOLOGY

- ANTH& 204 - Archaeology (5)
- ANTH& 205 - Biological Anthropology (5)
- ANTH& 206 - Cultural Anthropology: D (5)
- ANTH& 234 - Religion and Culture: D (5)

BUSINESS ADMINISTRATION

- BUS& 101 - Introduction to Business (5)
- BUS 200 - Introduction to Law (5)
- BUS& 201 - Business Law (5)
- BUS 241 - Introduction to International Business (5)

COMPUTER SCIENCE

- CS 101 - Computers, Technology and Society (5)

ECONOMICS

- ECON 101 - Introduction to Economics (5)
- ECON 104 - Introduction to Economic Geography (5)
- ECON 150 - Consumer Economics (5)
- ECON& 201 - Micro Economics (5)
- ECON& 202 - Macro Economics (5)

EARLY CHILDHOOD EDUCATION

- ECED& 105 - Introduction to Early Childhood Education (5)

EDUCATION

- EDUC& 115 - Child Development (5)
- EDUC& 122 - Child Development II (5)
- EDUC& 202 - Introduction to Education (5)

ETHNIC STUDIES

- ETHNC 100 - American Minorities: D (5)
- ETHNC 111 - Pacific Northwest Indigenous People: D (5)
- ETHNC 120 - Survey of the Chicano Movement: Culture, Politics, and Thought (5)
- ETHNC 201 - Minorities in American Society: D (5)

HISTORY

- HIST& 116 - Western Civilization I (5)
- HIST& 117 - Western Civilization II: D (5)
- HIST& 118 - Western Civilization III: D (5)
- HIST 121 - Religions of the World: D (5)
- HIST& 126 - World Civilizations I: D (5)
- HIST& 127 - World Civilizations II: D (5)
- HIST& 128 - World Civilizations III: D (5)
- HIST& 146 - U.S. History I: D (5)
- HIST& 147 - U.S. History II: D (5)
- HIST& 148 - U.S. History III: D (5)
- HIST& 214 - Pacific NW History (5)
- HIST& 215 - Women in U.S. History (5)
- HIST& 219 - Native American History: D (5)
- HIST 242 - History of the Modern Middle East: D (5)
- HIST 270 - History of Modern Asia (5)

LIBRARY

- LIB 201 - Critical Information Studies and Research Methods (5)

POLITICAL SCIENCE

- POLS& 101 - Introduction to Political Science (5)
- POLS 200 - Introduction to Law (5)
- POLS 201 - Comparative Government: D (5)
- POLS& 202 - American Government: D (5)
- POLS& 203 - International Relations: D (5)
- POLS 204 - State and Local Government (5)

PSYCHOLOGY

- PSYC& 100 - General Psychology (5)
- PSYC 115 - Knowing and Learning (5)
- PSYC& 180 - Human Sexuality (5)
- PSYC& 200 - Lifespan Psychology (5)
- PSYC 202 - Biopsychology (5)
- PSYC 205 - Social Psychology (5)
- PSYC& 220 - Abnormal Psychology (5)

SOCIAL SCIENCE

- SOSC 100 - Global Issues/Social Science (5)
- SOC 110 - Gender and Power: Introduction to Gender Studies (5)
- SOSC 190 - Social History of Work (1-3)

SOCIOLOGY

- SOC& 101 - Introduction to Sociology: D (5)
- SOC 112 - Comparative Ethnic Relations (5)
- SOC& 201 - Social Problems (5)
- SOC 204 - Introduction to Stratification and Inequality in America: D (5)
- SOC 206 - Sociology of the Family: D (5)

Humanities (15 cr.)

Select courses from at least two of the following disciplines, with no more than 10 credits from one discipline. No more than 5 credits may be applied in world languages at the 100 level. No more than 5 credits may be applied in performance/skill studio courses.

Performance/skill courses are indicated with an *

ART

- ART& 100 - Art Appreciation: D (5)
- ART 101 - Drawing Fundamentals (5) *
- ART 111 - Two Dimensional Color and Design (5) *
- ART 142 - Survey of Art History: Prehistory to 1300 AD: D (5)

7 Other Degree Information

- ART 143 - Survey of Art History: 1300-1850: D (5)
- ART 144 - Modern Art History: D (5)
- ART 150 - Health and Safety in the Visual Arts (1)
- ART 181 - Photography I (4) *
- ART 201 - Painting I (5) *
- ART 241 - Ceramics I (1-5) *

COMMUNICATION STUDIES

- CMST& 102 - Introduction to Mass Media (5)
- CMST 105 - Multicultural Communication: D (5)
- CMST 141 - Oral Interpretation of Literature (5)
- CMST 201 - Communication Theory (5)
- CMST 205 - Intercultural Communication: D (5)
- CMST& 220 - Public Speaking (5)

DRAMA

- DRMA& 101 - Introduction to Theatre: D (5)
- DRMA 133 - Acting: Voice Expression (5) *
- DRMA 134 - Acting: Physical Expression (5) *
- DRMA 136 - Acting Shakespeare (5)
- DRMA 236 - Theater History I: Ancient-Renaissance (5)
- DRMA 237 - Theater History II: Renaissance-1850 (5)
- DRMA 238 - Modern Theater History (5)

ENGLISH

- ENGL& 112 - Introduction to Fiction: D (5)
- ENGL& 113 - Introduction to Poetry: D (5)
- ENGL 115 - Introduction to Film: D (5)
- ENGL 120 - Introduction to Children's Literature (5)
- ENGL& 111 - Introduction to Literature: D (5)
- ENGL& 220 - Introduction to Shakespeare (5)
- ENGL& 236 - Creative Writing I (5)
- ENGL 239 - Introduction to U.S. Latino Literature: D (5)
- ENGL 250 - Introduction to American Literature: D (5)
- ENGL& 254 - World Literature I (5)
- ENGL 283 - British Literature 19th and 20th Centuries: D (5)

JOURNALISM

- JOUR 101 - Introduction to Journalism and Newswriting (5)

MUSIC

- MUSC 100 - Music Fundamentals (5)
- MUSC& 105 - Music Appreciation (5)
- MUSC 124 - Survey of Music History: Ancient to 1750 ACE (5)
- MUSC 125 - Survey of Music History: 1750-1900 ACE (5)
- MUSC 126 - Survey of Music History: 1900-Present (5)
- MUSC 127 - History of Rock and Roll: D (5)
- MUSC 128 - Jazz: America's Artform: D (5)
- MUSC 129 - World Music: D (5)
- MUSC 137 - Choir (2) *
- MUSC 138 - Small Vocal Ensemble (1-5) *
- MUSC& 141 - Music Theory I (5)
- MUSC& 142 - Music Theory II (5)
- MUSC 164 - Jazz Ensemble (1-3) *

PHILOSOPHY

- PHIL& 101 - Introduction to Philosophy (5)
- PHIL& 106 - Introduction to Logic (5)
- PHIL 115 - Introduction to Learning and Knowing (5)
- PHIL 140 - Philosophy of Religion (5)
- PHIL 215 - Introduction to Ethics (5)

WORLD LANGUAGES

- American Sign Language
  - ASL& 121 - American Sign Language I (5)
  - ASL& 122 - American Sign Language II (5)
  - ASL& 123 - American Sign Language III (5)
- Japanese
  - JAPN& 121 - Japanese I: D (5)
  - JAPN& 122 - Japanese II: D (5)
  - JAPN& 123 - Japanese III: D (5)
- Spanish
  - SPAN& 121 - Spanish I: D (5)
  - SPAN& 122 - Spanish II: D (5)
  - SPAN& 123 - Spanish III: D (5)
  - SPAN& 221 - Spanish IV: D (5)
  - SPAN& 222 - Spanish V: D (5)
  - SPAN& 223 - Spanish VI: D (5)

GRAY AREA COURSES

Gray area courses include, but are not limited to, those found in the following departments. Exceptions count as Academic Electives.

ACCOUNTING

- ACCT 142 - Payroll Procedures (3)
- ACCT 145 - Small Business Accounting I (5)
- ACCT 146 - Small Business Accounting II (5)
- ACCT 242 - QuickBooks (3)

ALLIED HEALTH EDUCATION

All courses

AUTOMOTIVE TECHNOLOGY

All courses

COLLEGE AND CAREER SUCCESS SKILLS

All courses

COMPOSITES TECHNOLOGY

All courses

COMMUNICATION STUDIES

- CMST 125 - Professional Communication: D (3)

CRAFT BREWING

All courses

7 Other Degree Information

CULINARY ARTS
All courses

DENTAL ASSISTING
All courses

DIESEL POWER TECHNOLOGY
All courses

EARLY CHILDHOOD EDUCATION
All courses *except*
- ECED& 105 - Introduction to Early Childhood Education (5)

EDUCATION PARAPROFESSIONAL
All courses *except*
- EDUC& 115 - Child Development (5)
- EDUC& 122 - Child Development II (5)
- EDUC& 202 - Introduction to Education (5)
- EDUC& 203 - Exceptional Child (3)
- EDUC 223 - Practicum and Seminar (1-5)
- EDUC 246 - Working with Bilingual Children (3)

ENGINEERING
- ENGR 100 - Engineering Orientation (2)
- ENGR 199 - Cooperative Education Experience (1-15)
- ENGR 299 - Learning into Action (1-15)

ENGLISH
- ENGL 170 - Professional and Technical Communication (3)

ENVIRONMENTAL CONSERVATION
- ENVC 165 - Sustainability Fundamentals (5)
- ENVC 202 - Wildlife Biology: D (5)

FAMILY LIFE
All courses

FIREFIGHTER PROTECTION TECHNOLOGY
All courses

GEOGRAPHIC INFORMATION SYSTEMS
All courses

HUMAN SERVICES
All courses *except*
- HSERV 141 - Alcoholism and other Addictive Disorders (5)

JOURNALISM
No more than 2 credits applied news writing

MANUFACTURING TECHNOLOGY
All courses (Including Operations Technology)

MARINE MAINTENANCE TECHNOLOGY
All courses

MULTIMEDIA AND INTERACTIVE TECHNOLOGY
All courses

NURSING
All courses

PHYSICAL EDUCATION
All courses (one credit in addition to the 3-credit PE degree requirement)

POLITICAL SCIENCE
- POLS 131 - Seminar in Educ Government I (1)
- POLS 132 - Seminar in Educ Government II (1)

SOCIAL SCIENCE
- SOSC 113 - Job Search (1)
- SOSC 125 - Employer/Employee Roles and Perspectives (2)
- SOSC 131 - College Governance (1)
- SOSC 132 - Student Leadership Seminar (1-2)

TECHNICAL DESIGN
All courses

WELDING TECHNOLOGY
All courses

ADDITIONAL COURSE OPTIONS
- Any class taken as CLEP, DANTES, or for military credit
- Independent study workshop classes
- Cooperative classes (199): AHE 199, AT 199, BIOL 199, CUL 199, CHEM 199, DSL 199, ECED 199, ENGR 199, ENVC 199, GIS 199, HFT 199, MIT 199, MT 199, PHYS 199, VETA 199, and WT 199
- Learning into Action (LIA) classes (299): ANTH 299, ART 299, AT 299, BIOL 299, BUS 299, CHEM 299, CMST 299, DRMA 299, EASC 299, ECON 299, EDUC 299, ENGL 299, ENGR 299, ETHNC 299, GEOG 299, HIST 299, HUM 299, MATH 299, MUSC 299, PE 299, PHIL 299, PHYS 299, POLS 299, PSYC 299, SOC 299, SOSC 299, and SPAN 299

ASSOCIATE OF ARTS GENERAL STUDIES, AA

Overview
The Associate of Arts General Studies Degree is appropriate for students whose primary goal is to earn a two-year college degree. It may be suitable for you if you wish to apply credit by challenge, independent study, CLEP, professional/technical, or military programs to courses not included in the Direct Transfer Agreement (DTA) where applicable.

This degree is not designed to be a transfer degree. It is strongly recommended that students taking the AA General Studies degree and desiring to transfer to a four-year college or university seek the assistance of an advisor to plan an appropriate course of study. This entire degree can be completed online.

7 Other Degree Information

Learning Outcomes

GENERAL EDUCATION LEARNING OUTCOMES

THINK

Think analytically, logically, creatively, and reflectively.

- Recognize how the values and biases in different disciplines can affect the ways in which information and knowledge are created and analyzed
- Analyze issues and develop questions within a discipline
- Access, interpret, and evaluate relevant information to reach defensible conclusions
- Develop unique and/or innovative solutions and gain insight utilizing reflective and creative thought processes

QUANTIFY

Apply mathematical skills quantitatively, logically, creatively, and critically.

- Use mathematical principles and methods to reason, gain insight, and solve problems
- Interpret data presented in various formats

COMMUNICATE

Produce and exchange ideas and information through written, spoken, and visual forms.

- Read, comprehend, and produce college level writing
- Demonstrate effective interpersonal, group, and/or public communication skills
- Develop appropriate communication strategies to inform, persuade, or entertain
- Demonstrate informational, critical, and empathetic listening skills appropriate to a given context
- Analyze, interpret, and/or create visually communicated content

INTEGRATE

Apply knowledge, skills, and methodologies from multiple disciplines.

- Recognize the interconnectedness of diverse disciplines and areas of study
- Identify the strengths and limitations of different disciplinary frameworks and methodologies and their implementation
- Identify and evaluate the relationships among different perspectives within a field of study or among different fields of study
- Demonstrate cognitive complexity by considering issues from multiple perspectives

Program Learning Outcomes

Graduates of the AA-DTA program will be able to:

NATURAL SCIENCES OUTCOMES

- Collect and analyze data and interpret the results from scientific investigations.
- Demonstrate an understanding of the fundamental concepts in at least one scientific discipline.
- Demonstrate scientific literacy.

SOCIAL SCIENCES OUTCOMES

- Apply concepts from the social sciences to analyze individual or social phenomena, processes, events, conflicts, or issues.
- Explain the variables that influence the structure of cultures and societies.
- Identify social variables, structures, and experiences that shape individual perspectives.

HUMANITIES OUTCOMES

- Apply skills, terms, concepts, research and/or analysis methods to express ideas within the humanities.
- Analyze and/or interpret creative and communicative expressions of the humanities.

PHYSICAL EDUCATION OUTCOMES

- Develop mental and physical health through movement.
- Gain knowledge of body systems and demonstrate skills necessary to pass national or state certification tests for emergency response.
- Obtain and apply science-based knowledge to support personal fitness, health, and well-being.

Degree Requirements

This degree requires a total of 90 credits in courses numbered 100-level or above. At least 25 quarter college-level credits must be earned at SVC with a minimum cumulative GPA of 2.0. Credits must satisfy requirements listed below.

- An ampersand (&) denotes Common Course Numbering

1. First Quarter Experience (2 cr.)

- CSS 103 - First Quarter Experience (2)

2. Communication Skills (13-15 cr.)

- ENGL& 101 - English Composition I (5)

Choose one:

- CMST& 210 - Interpersonal Communication: D (5)
- CMST& 220 - Public Speaking (5)
- CMST& 230 - Small Group Communication: D (1-5)
- EAP 105 - Bridge I: Communication Skills (5)

Choose a second course in Communications Distribution::

- ENGL& 102 - Composition II (5)
- ENGL 103 - Advanced Composition (5)
- ENGL 170 - Professional and Technical Communication (3)
- ENGL& 235 - Technical Writing (5)
- CMST 125 - Professional Communication: D (3)
- CMST& 210 - Interpersonal Communication: D (5)
- CMST& 220 - Public Speaking (5)
- CMST& 230 - Small Group Communication: D (1-5)
- EAP 105 - Bridge I: Communication Skills (5)

3. Physical Education (3 cr.)

Two credits must be activities.

4. Natural Science/Technologies (15 cr.)

Maximum of 10 credits from one department:

7 Other Degree Information

- Astronomy
- AAS Technologies
- Biological Sciences
- Chemistry
- Earth Science
- Environmental Conservation 202
- Environmental Science
- Geology
- Mathematics (100-level and above)
- Natural Science
- Nutrition
- Oceanography
- Physics

5. Social Sciences (15 cr.)

Maximum of 10 credits from one department:

- Anthropology
- Business Administration: BUS& 101, BUS& 201, BUS 241
- Computer Science: CS 101
- Criminal Justice CJ& 101
- Early Childhood Education: ECED& 105
- Economics
- Education: EDUC& 115, EDUC& 122, EDUC& 202
- Ethnic Studies
- Geography
- History
- International Studies
- Political Science
- Psychology
- Social Science
- Sociology

6. Humanities (15 cr.)

Maximum of 10 credits from one department:

- Art
- Communication Studies CMST& 102, CMST 105, CMST 141, CMST 201, CMST 205, CMST& 220,
- Drama
- English ENGL& 112, ENGL& 113, ENGL 115, ENGL 120, ENGL 202, ENGL& 220, ENGL& 236, ENGL 239, ENGL 250, ENGL& 254, ENGL 283
- Humanities
- Music
- Philosophy
- World Languages

7. Electives (25-29 cr.)

In order to accumulate 90 college-level (100 or higher) credits for the degree, you will need elective credits. You may select electives from the Distribution Lists in the Natural Sciences, Humanities or Social Sciences, or any other transferable college-level Academic Elective courses. A maximum of 45 credits from Gray Area Courses are allowed in this degree. Professional/ technical credits, credits by examination, independent study, PE activity credits beyond two credits, military credits, DANTES, CLEP, Advanced Placement exams and seminars, workshops are examples of "gray area" credits. Consult your academic advisor or credit evaluator.

8 Course Descriptions

ACCT 142 Payroll Procedures (3)
BUSINESS ADMINISTRATION
Computation of employee earnings, completion of payroll register, completion of individual earnings records, and preparation of various tax forms and reports.
Prerequisite: None

ACCT 145 Small Business Accounting I (5)
BUSINESS ADMINISTRATION
Learn to analyze and record the business transactions of sole-proprietorship, service businesses in journals and ledgers using double-entry accounting. Complete worksheets, record adjusting and closing entries, and create financial statements as required for a complete accounting cycle. Additional topics include cash control, basic payroll preparation, and partnerships. Not intended for transfer.
Prerequisite: None

ACCT 146 Small Business Accounting II (5)
BUSINESS ADMINISTRATION
Learn to analyze and record the business transactions of sole-proprietorship, merchandise businesses in general and special journals using double-entry accounting. Complete worksheets, record adjusting and closing entries, and create financial statements as required for a complete accounting cycle. Additional topics include notes payable and notes receivable, bad debt, inventory, and fixed assets. Not intended for transfer.
Prerequisite: ACCT 145 with a "D" or higher.

ACCT 159 Governmental Accounting (5)
BUSINESS ADMINISTRATION
Essentials of accounting for governmental and not-for-profit organizations. Introduction to budgeting, accounting, and reporting systems (BARS).
Prerequisite: OBT 145 and OBT 146 or ACCT& 201 with a "D" or higher.

ACCT 242 QuickBooks (3)
BUSINESS ADMINISTRATION
Introduction to the completion of the accounting cycle using QuickBooks Pro accounting software. Includes accounting for customers and vendors, inventory, budgets, and financial reports.
Prerequisite: OBT 145 and OBT 146 or ACCT& 201 with a "D" or higher.

ACCT 244 Sage 50 (3)
BUSINESS ADMINISTRATION
Introduction to the completion of the accounting cycle using Sage (formerly Peachtree) accounting software. Includes accounts payable, accounts receivable, inventory, and financial reports.
Prerequisite: ACCT 145 or ACCT& 201 with a "D" or higher.

ACCT& 201 Prin of Accounting I (5)
BUSINESS ADMINISTRATION
Introduction to financial accounting as an essential part of business decision making. The concepts of asset/liability valuation and reporting, income measurement, inventory systems and the interpretation of financial statements are presented. Required for business majors transferring to 4 year business programs.
Prerequisite: ENGL 099 with a "C" or higher (or placement into ENGL& 101).

ACCT& 202 Prin of Accounting II (5)
BUSINESS ADMINISTRATION
Continuation of ACCT& 201. Business organizations, financing, cash flow analysis and financial statement analysis are presented. Required for business majors transferring to 4 year business programs.
Prerequisite: ACCT& 201 with a "C" or higher.

ACCT& 203 Prin of Accounting III (5)
BUSINESS ADMINISTRATION
Introduction to the use of accounting information in the planning, controlling and decision-making processes of business managers. Job and process costing, cost-volume-profit analysis and budgeting are discussed in detail.
Prerequisite: ACCT& 202 with a "C" or higher or concurrent enrollment.

AHE 101 Healthcare Interactions: D (3)
HEALTH SCIENCES
Self-awareness training. Receiving, organizing, prioritizing and transmitting effective and therapeutic communications with patients who have a variety of diagnoses. Development of team member and leadership skills. Discussion of death, dying and the grieving process of a variety of different cultures.
Prerequisite: See Allied Health department to apply and for permission code. Concurrent enrollment required in CSS 103.

AHE 102 Basic Medical Terminology (5)
HEALTH SCIENCES
Learning word parts of medical terms; word building and definitions; medical terms as related to each system of the human body. Correct spelling of medical terms and medical conditions is emphasized. Influence of different cultures on medical terms.
Prerequisite: None.

AHE 103 Law, Ethics, and Professionalism in Healthcare (5)
HEALTH SCIENCES
Legal and working relationships between medical personnel and patients; professional liability; intentional and unintentional torts; contracts; law of agency; informed consent; professional practice requirements; medical ethics; public duties and responsibilities; licenses and accreditation; workplace legalities; influence of cultural mores. Professionalism and image, goal setting, time management, and relationships between healthcare teams.
Prerequisite: AHE 101 with a "C" or higher or concurrent enrollment.

AHE 105 Electronic Medical Documents and Administrative Procedures (6)
HEALTH SCIENCES
Learn about Electronic Medical Records (EMR), bookkeeping and basic accounting in todays medical office. Covers appointment scheduling, telephone practices, processing mail, downloading/uploading electronic medical records information, inventory, office insurance, ordering and maintenance of office equipment and supplies; bank-

8 Course Descriptions

ing, payroll, credit and collection; organizing a procedure manual, time-management techniques, and cultural differences concerning perception of time and expectation.
Prerequisite: AHE 101 with a "C" or higher or concurrent enrollment.

AHE 106 Anatomy and Physiology (6)
HEALTH SCIENCES
Study of the structure and function of the multiple systems of the human body. Study how the body systems are interdependent in maintaining homeostasis. Develop an understanding of how cultural influences may alter the external appearances and internal functioning of different populations. Significant laboratory component required.
Prerequisite: AHE 102 (or AHE 160 and 161) and OBT 162 with a "C" or higher.

AHE 107 Clinical Non-Sterile Procedures (6)
HEALTH SCIENCES
Definition and theory of medical asepsis; information on non-sterile procedures/tests, i.e. temperature, pulse, respiration, blood pressure, electrocardiograms, audiograms, visual acuity, colorblindness, spirometry, height and weight, physical examinations, charting and documentation. Awareness of universal precautions to protect the patient and the healthcare professional. Discussion of cultural beliefs and expectations concerning health care interactions. Includes lab practice of selected non-sterile procedures.
Prerequisite: Concurrent enrollment in AHE 108.

AHE 108 Clinical Sterile Procedures (6)
HEALTH SCIENCES
Theory of surgical asepsis and proper disposal of biohazardous and contaminated materials. Discussion of body mechanics and rehabilitative medicine. Principles of nutrition and diet therapy. Awareness of culture, ethnicity, and economics regarding patient compliance. Accurate charting and documentation principles. Includes lab practice of selected sterile procedures.
Prerequisite: Concurrent enrollment in AHE 107.

AHE 109 Medical Disease and Pathology (4)
HEALTH SCIENCES
Overview of the many diseases and conditions affecting the human body. Includes discussions of how cultural perceptions and influences affect medical disease and pathology. Disease prevention and lifestyle for health.
Prerequisite: AHE 106 and AHE 110 with a "C" or higher.

AHE 110 Introduction to Medical Coding and Insurance (5)
HEALTH SCIENCES
Use of the Current Procedural Terminology (CPT) and International Classification of Diseases (ICD) manuals to properly code and process government and private insurance forms. Other procedure/diagnosis coding systems include: Diagnosis Related Groups (DRGs), Healthcare Common Procedure Coding System (HCPCS), Resource Based Relative Value Scale (RBRVS); and managed care referrals and pre-certifications.
Prerequisite: AHE 102 (or AHE 160 and 161) and OBT 162 with a "C" or higher.

AHE 112 Basic Pharmacology (5)
HEALTH SCIENCES
Introduction to drugs: sources, schedules, forms, uses and actions, side effects, adverse effects and classifications. Contributions of different cultures to drug therapy. Information regarding medication orders and prescriptions.
Prerequisite: AHE 101 with a "C" or higher or concurrent enrollment.

AHE 113 Introduction to Phlebotomy (3)
HEALTH SCIENCES
Review government regulations concerning blood products. Perform venipunctures and capillary punctures. Perform selected blood tests. Discussion of cultural/religious beliefs concerning blood products.
Prerequisite: AHE 108 with a grade of C or higher; and concurrent enrollment in AHE 114. Must provide documentation of first two injections of Hepatitis B vaccination series prior to registering for class.

AHE 114 Microbiology/Medical Lab Procedures (5)
HEALTH SCIENCES
Methods of collecting, processing, preparing, and preserving lab specimens. Discussion of government regulations and cultural beliefs concerning specimens. Urinalysis, pertinent hematology, immunology and microbiology tests and procedures are presented.
Prerequisite: AHE 108 with a grade of C or higher; and concurrent enrollment in AHE 115. Must provide documentation of first two injections of Hepatitis B vaccination series prior to registering for class.

AHE 115 Injection Therapy (4)
HEALTH SCIENCES
Procedures of oral administration of drugs. Familiarization with equipment and supplies for parenteral administration of medications. Theory and practice of reading the medication order, drawing up of medications and parenteral administration of medications, and theory of IV therapy. Cultural aspects of medication administration are discussed. Upon successful completion of AHE 115, each student must meet all requirements for practicum placement.
Prerequisite: AHE 108 and AHE 118 with grade C or higher; and concurrent enrollment in AHE 114. Must provide documentation of first two injections of Hepatitis B vaccination series prior to registering for class.

AHE 116 Medical Assistant Clinical Practicum (6)
HEALTH SCIENCES
Supervised practicum in an approved medical facility for medical assistant students. Application of knowledge learned in previous courses; experience to increase understanding and appreciation of other cultures. Interact with other health care professionals and patients to enhance the development of a professional demeanor.
Prerequisite: Complete each course in the AHE certificate with a minimum C grade; have current American Heart Association Basic Life Support (BLS) card; have current First Aid card; have completed immunization requirements; present evidence of a current n

AHE 117 Medical Assistant Clinical Practicum Seminar (1)
HEALTH SCIENCES
Discussion and critical analysis of student experiences in their various practicum placements. Topics include legal concepts, professionalism, and aspects of culture and application of front office and clinical skills. Includes a community service project and sitting for the CMA (AAMA) exam.
Prerequisite: Concurrent enrollment in AHE 116.

AHE 118 Drug Dosage Calculations (5)
HEALTH SCIENCES
Application of arithmetic skills and metric system to the calculating of ratios and percentages related to drug dosages.
Prerequisite: MATH 096 or equivalent with a "C" or higher.

AHE 122 Coding in Outpatient Settings (6)
HEALTH SCIENCES
Application of professional skills in abstracting medical records and assigning appropriate ICD-10-CM, CPT-4 and HCPCS codes for data retrieval and claims processing in outpatient health care settings.
Prerequisite: AHE 106 and AHE 110 with a "C" or higher.

AHE 123 Medical Insurance Billing with Coding Practicum (5)
HEALTH SCIENCES
Application of professional skills in evaluating medical records for accuracy and completeness in various health care settings. Preparing UB-04 and CMS-1500 claims for health insurance plans. Covers assign-

8 Course Descriptions

ing correct code numbers to diagnoses and procedures in an online coding practicum in preparation for the CPC certification exam.
Prerequisite: AHE 122 with a "C" or higher.

AHE 130 Orientation to Pharmacy Practice (4)
HEALTH SCIENCES
Introduction and orientation to the influence that medication laws, standards and regulations have on pharmacy practice and the concept of quality assurance and its procedures. Focuses on the patient care continuum and the pharmacy technician's role in its delivery with emphasis on the different roles of pharmacists and technicians.
Prerequisite: Concurrent enrollment in AHE 131 and 118; completion of AHE 102 (or AHE 160 and 161), AHE 112 and OBT 162 or higher with minimum C grade.

AHE 131 Pharmacy Technician Terminology (3)
HEALTH SCIENCES
Emphasis on specific medical terminology and mathematics related to pharmacy. Focuses on how to interpret prescription or medication orders, including how to interpret medical abbreviations, terminology, pharmaceutical equations and solutions.
Prerequisite: Concurrent enrollment in AHE 130.

AHE 132 Applied Pharmacology (5)
HEALTH SCIENCES
Use and side effects of prescription medications and alternative therapies commonly used to treat diseases affecting the various systems of the human body including psychiatric disorders.
Prerequisite: AHE 130 and 131 with a minimum C grade; concurrent enrollment in AHE 133.

AHE 133 Pharmacy Records Management (4)
HEALTH SCIENCES
Purchasing pharmaceuticals, devices and supplies, including acquisition in emergency situations. Controlling inventory of medications, equipment, and devices according to an established plan. Introduction to the concept of troubleshooting, maintenance and repairing pharmacy equipment, devices and facilities. Use of various forms of technology for storing, accessing and recording pharmacy data. Includes specialized terminology, filing rules and systems, paper-based and electronic files management, records security, ethical concerns with emphasis on pharmaceutical practical records and applications; regulations regarding tracking and tracing drug shipments.
Prerequisite: Concurrent enrollment in AHE 132.

AHE 134 Applied Pharmacology II (5)
HEALTH SCIENCES
Continuation of Applied Pharmacology. Topics include pharmacodynamics, pharmacokinetics, mechanism of action, indications, side effects, common auxiliary warnings, routes of administration, and storage of medication of the current top 200 medications and over the counter medications with a focus on musculoskeletal, endocrine, CNS agents, antianxiety, antidepressants, anticonvulsants, hormone therapy, chemotherapy agents, and urinary medications.
Prerequisite: Concurrent enrollment in AHE 133 and AHE 135.

AHE 135 Community and Hospital Drug Dispensing/ Management (4)
HEALTH SCIENCES
Introduction to the role of pharmacy technicians in the community and hospital pharmacy setting. Filling orders under the supervision of a registered pharmacist. Use of hospital based equipment for the processing of sterile and non-sterile dosage forms. Discussion and demonstration of sensitivity when working with a multicultural population.
Prerequisite: AHE 132 and AHE 133 with a "C" or higher and concurrent enrollment in AHE 134.

AHE 136 Community Clinical Experience/Pharmacy Technician (3)
HEALTH SCIENCES
Practical experience in the role of a pharmacy technician in a community setting to integrate knowledge and enhance skills.
Prerequisite: AHE 134 and 135 with minimum C grade; concurrent enrollment in AHE 137 and 138.

AHE 137 Hospital Clinical Experience/Pharmacy Technician (3)
HEALTH SCIENCES
Practical experience in the role of a pharmacy technician in a hospital setting to integrate knowledge and enhance skills.
Prerequisite: AHE 134 and 135 with minimum C grade, department chair or instructor approval, and concurrent enrollment in AHE 136 and 138.

AHE 138 Pharmacy Technician Clinical Experience Seminar (1)
HEALTH SCIENCES
Discussion and critical analysis of student experiences in their various clinical experience placements. Topics include legal concepts, professionalism, and aspects of culture and application of various pharmacy skills. Job search readiness including finding jobs, completing applications, developing effective resumes and interviewing skills.
Prerequisite: AHE 134, AHE 135, and AHE 200 with a "C" or higher.

AHE 150 Fundamentals of Medical Interpreting (4)
HEALTH SCIENCES
Professional practice of medical interpretation in various healthcare settings. Framework of the roles, responsibilities and skills of an interpreter. Ethics and standards; qualities and skills; healthcare systems; cultural competency; and skills practice on a range of interpreting tasks. Must have an equivalent proficiency in a second language.
Prerequisite: ENGL 095 with a "C" or higher.

AHE 160 Medical Dialogue I (3)
HEALTH SCIENCES
Learning word parts of medical terms; word building and definitions; medical terms as related to each system of the human body. Correct spelling of medical terms and medical conditions is emphasized. Influence of different cultures on medical terms. (AHE 160 is equivalent to the first half of AHE 102)
Prerequisite: AHE 101 with a "C" or higher or concurrent enrollment.

AHE 161 Medical Dialogue II (3)
HEALTH SCIENCES
Continuation of AHE 160 and the study of medical terminology word-building, pronunciation, and spelling. Includes discussions on how cultures may affect medical terms. (AHE 161 is equivalent to the last half of AHE 102).
Prerequisite: AHE 160 with a "C" or higher.

AHE 180 Clinical Procedures for MA-R to MA-C Scope (6)
HEALTH SCIENCES
Clinical procedures required for the Medical Assisting Certified credential through the Washington State Department of Health that are outside of the scope of the MA-R credential. This is a clinical procedures course designed to bridge experienced MA-R candidates to the MA-C WA scope of practice, and obtain the AAS Medical Assistant degree.
Prerequisite: Department chair permission.

AHE 199 Cooperative Education Experience (1-5)
HEALTH SCIENCES
Supervised cooperative education relative to program course in Allied Health Education.
Prerequisite: Department chair permission required.

AHE 200 First Aid and Emergency Procedures (3)
HEALTH SCIENCES
Prepares students to recognize, respond, and manage First Aid, and CPR emergencies. Covers disaster preparedness training. First Aid,

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AHA Basic Life Support (BLS), and 7 hour HIV/AIDS prevention certificates are awarded after successful completion of this course.
Prerequisite: AHE 101, or concurrent enrollment and department chair permission required.

AHE 201 Basic Life Support (1)
HEALTH SCIENCES
Prepares students to recognize, respond and manage cardiac emergencies. An American Heart Association Basic Life Support for Healthcare Providers card will be issued upon completion of written test and skills demonstration.
Prerequisite: None.

AHE 202 First Aid (1)
HEALTH SCIENCES
Prepares student to recognize, respond and manage First Aid emergencies. A First Aid certificate will be awarded after successful completion of the course.
Prerequisite: None.

AHE 203 Mental Health First Aid (1)
HEALTH SCIENCES
Learn how to identify, understand, and respond to the risk factors or warning signs of mental health crisis and substance use disorders safely and responsibly. Create an action plan to help those who are experiencing mental health crisis or substance disorder. Learn the steps and tools to assess the risk, respectfully listen to the individual in crisis, and identify the appropriate professional for help.
Prerequisite: None.

AHE 221 Procedural Coding in Outpatient Settings (5)
HEALTH SCIENCES
Application of professional skills in abstracting medical records and assigning appropriate CPT and HCPCS procedural and service codes for data retrieval and claims processing in outpatient health care settings.
Prerequisites: AHE 106 and AHE 110 with a C or higher. Concurrent enrollment in AHE 222 required.

AHE 222 Diagnostic Coding in Outpatient Settings (5)
HEALTH SCIENCES
Application of professional skills in abstracting medical records and assigning appropriate ICD-10-CM diagnosis codes for data retrieval and claims processing in outpatient health care settings.
Prerequisites: AHE 106 and AHE 110 with a C or higher. Concurrent enrollment in AHE 221 required.

AHE 223 Advanced Medical Insurance Billing (6)
HEALTH SCIENCES
Application of professional skills in evaluating medical records for accuracy and completeness in various health care settings. Preparing UB-04 and CMS-1500 claims for health insurance plans.
Prerequisites: AHE 221 and AHE 222 with a C or higher.

AHE 230 Advanced Outpatient Coding and Auditing (5)
HEALTH SCIENCES
Advanced application of the principles of diagnostic and procedural coding and auditing practice using ICD-10-CM, CPT, and HCPCS codes in coding exercises and abstracted medical records in various healthcare settings.
Prerequisites: AHE 221 and AHE 222 with a C or higher. Concurrent enrollment in AHE 240 required. .

AHE 240 National Exam Preparation (4)
HEALTH SCIENCES
Practice and preparation to apply skills and acquired knowledge for taking the national CPC exam from the American Academy of Professional Coders (AAPC).
Prerequisites: AHE 221 and AHE 222 with C or higher. Concurrent enrollment in AHE 230 required.

AHE 241 Online Coding Practicum (6)
HEALTH SCIENCES
Code immersive real redacted medical records using the American Academy of Professional Coders (AAPC) Practicode web-based practicum. Students successfully completing Practicode Practicum are eligible to remove the -A apprentice from their CPC-A credential.
Prerequisites: AHE 230 and AHE 240 with a C or higher.

ANTH& 204 Archaeology (5)
SOCIAL SCIENCES
A comprehensive survey of archaeology introducing the student to methods, principles, ethics, and reconstruction of artifacts and sites used by archaeologists to reconstruct past cultures in the old and new world.
Prerequisite: : ENGL& 101 with a "C" or higher.

ANTH& 205 Biological Anthropology (5)
SOCIAL SCIENCES
The study of human and non-human primates from a biological perspective, including the evolution of the human species over time and the biological processes involved in human adaptation. The focus is on biological principles involved in evolutionary processes, hereditary differences in human populations, the geological time scale, various forms of primates (from earliest to contemporary), the sequence of development of various fossil forms culminating in modern humans, the significance of humankind's animal heritage, and the strategic aspects in the consideration of what is distinctly human about human nature.
Prerequisite: ENGL& 101 with a "C" or higher.

ANTH& 206 Cultural Anthropology: D (5)
SOCIAL SCIENCES
A study of the origin and development of various forms of culture found among tribal and early agricultural peoples. This will include the development of language, the meeting of basic needs such as food and shelter, the family, magic and religion, and leisure activities (including artistic, musical, literary, and other forms of expression).
Prerequisite: ENGL& 101 with a "C" or higher.

ANTH& 234 Religion and Culture: D (5)
SOCIAL SCIENCES
Survey of concepts, models and theories that emphasize the anthropological study of religion and religious-like enterprises. Examines the universal basis of religion and various ways religions are constructed and relate to the society they are found within.
Prerequisite: ENGL& 101 with a "C" or higher.

ANTH 270 Field Course in Archaeology (1-10)
SOCIAL SCIENCE
Field work at an archaeological site. Practical application of techniques of excavation, artifact identification, and preservation.
Prerequisite: None

ANTH 299 Learning into Action (1-15)
SOCIAL SCIENCES
Student develops and completes curriculum-related independent project which demonstrates skills and abilities and explores career options. May include, but is not limited to, service learning, original research, and travel abroad. Faculty sponsor approval required. Students with 45 transferable college credits are eligible to begin Learning into Action.
Prerequisite: None

ART& 100 Art Appreciation: D (5)
HUMANITIES
An introduction to the fundamental concepts and principles of the visual arts as a form of communication that links culture and artistic development.
Prerequisite: ENGL& 101 with a "D" or higher or concurrent enrollment.

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ART 101 Drawing Fundamentals (5)
HUMANITIES
A foundation studio course in which beginning students develop observational skills to create expressive drawings using line, shape, value, space and texture.
Prerequisite: None

ART 102 Drawing Composition and Techniques (5)
HUMANITIES
An intermediate studio course in which students develop drawing skills with an emphasis on composition and technique.
Prerequisite: ART 101 with a "D" or higher.

ART 107 Life Drawing (4)
HUMANITIES
A studio course in which students are introduced to observing and drawing the human form. Using discussion and analysis students will be directed in both traditional and nontraditional use of the figure in drawing.
Prerequisite: Grade of 2.0 or higher in ENGL 097, or AESL 098, or appropriate test score.

ART 111 Two Dimensional Color and Design (5)
HUMANITIES
An introduction to the fundamental principles and elements of two dimensional design. This course will emphasize visual communication through studio work, discussion and analysis.
Prerequisite: ENGL 099 with a "C" or higher (or placement into ENGL& 101).

ART 112 Three Dimensional Design (5)
HUMANITIES
An intermediate studio course continuing the study of the fundamental elements of visual communication in three dimensional space. Emphasis will be placed on form, plane, shape, mass and texture through both additive and subtractive processes.
Prerequisite: None

ART 142 Survey of Art History: Prehistory to 1300 AD: D (5)
HUMANITIES
An introduction and exploration of the relationship between historic world events and the visual arts from the ancient period to 1300 CE.
Prerequisite: ENGL& 101 with a "D" or higher or concurrent enrollment.

ART 143 Survey of Art History: 1300-1850: D (5)
HUMANITIES
An introduction and exploration of the relationship between historic world events and the visual arts from the 1300 - 1850 CE.
Prerequisite: ENGL& 101 with a "D" or higher or concurrent enrollment.

ART 144 Modern Art History: D (5)
HUMANITIES
An introduction and exploration of the relationship between historic world events and the visual arts from 1850 to the present.
Prerequisite: ENGL& 101 with a "D" or higher or concurrent enrollment.

ART 150 Health and Safety in the Visual Arts (1)
HUMANITIES
This course is an overview of health and safety concerns in the visual arts pertaining to processes and materials used in studio courses. Information will cover hazardous materials, precautions, ventilation and disposal procedures.
Prerequisite: Grade of 2.0 or higher in ENGL 097, or AESL 098, or appropriate test score.

ART 160 Portfolio (1)
HUMANITIES
This studio course is required for the AVA degree but open to all students and professionals. Students will learn documentation and presentation of a professional portfolio.
Prerequisite: Three studio courses plus 5 additional arts credits or permission of the instructor.

ART 161 Exhibition (1)
HUMANITIES
A seminar class required spring quarter of the second year of the AVA degree. Students will plan and install a graduating exhibition in the SVC Art Gallery. This course will cover professional practices in exhibition, planning, production, and publicity. Required for AVA degree.
Prerequisite: ART160 with a "D" or higher; at least 25 credits in Art.

ART 181 Photography I (4)
HUMANITIES
A studio course introducing theory, practice, and history of photography as a medium of visual communication and creative expression. Field and laboratory work on guided self-directed projects in digital and black and white processing/printing. Students supply materials and digital camera. No text purchase. Fully manual film cameras are available in the lab. Lab fee.
Prerequisite: ENGL 099 with a "C" or higher (or placement into ENGL& 101).

ART 182 Photography II (1-4)
HUMANITIES
An intermediate or advanced studio course continuing the practice and refinement of vision and technique in digital and black and white photography with emphasis on content and meaning, visual structure, and presentation. Students supply materials and digital camera. No text purchase. Fully manual film cameras are available in the lab. May be retaken for up to 8 credits. Lab fee. Prerequisite: ART 180 or 181
Prerequisite: ART 180 or ART 181 with a "D" or higher.

ART 201 Painting I (4)
HUMANITIES
A studio course in either oil, watercolor or acrylic medium. More than one medium may be offered per quarter and will be outlined in the quarterly schedule. This course will cover preparation, techniques, composition and analysis.
Prerequisite: Grade of C or higher in ENGL 097, or AESL 098, or appropriate test score.

ART 202 Painting II (4)
HUMANITIES
An intermediate or advanced studio course in either oil, watercolor or acrylic medium. This course will continue the study of formal composition and analysis with an emphasis on development of subject matter, themes and individual style. Course content will focus on research and independent projects. May be repeated for a total of 8 credits.
Prerequisite: ART 201 with a "D" or higher.

ART 241 Ceramics I (1-4)
HUMANITIES
An introductory studio course that focuses on fundamental hand building and glazing techniques. Emphasis will be placed on discussion and analysis.
Prerequisite: Grade of C or higher in ENGL 097, or AESL 098, or appropriate test score.

ART 242 Ceramics II (1-4)
HUMANITIES
An intermediate or advanced studio course which focuses on throwing and advanced hand-building techniques. Emphasis is on discussion and analysis. May be retaken for up to 8 credits.
Prerequisite: ART 241 with a "D" or higher.

ART 261 Printmaking I (1-4)
HUMANITIES
An introductory studio course in which students learn basic printmaking processes including but not limited to relief, etching and/or monotype. Emphasis will be placed on discussion and analysis.
Prerequisite: None (for pending AVA majors, ART 101 or 111 highly recommended).

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ART 262 Printmaking II (4)
HUMANITIES
An intermediate or advanced studio course focusing on continued development with printmaking processes and techniques. Course content will focus on research and independent projects.
Prerequisite: ART 261 with a "D" or higher.

ART 299 Learning into Action (1-15)
HUMANITIES
Student develops and completes curriculum-related independent project which demonstrates skills and abilities and explores career options. May include, but is not limited to, service learning, original research, and travel abroad. Faculty sponsor approval required. Students with 45 transferable college credits are eligible to begin Learning into Action.
Prerequisite: None

ASL& 121 American Sign Language I (5)
HUMANITIES
An introduction to conversationally relevant signs, finger spelling, grammatical principles of American Sign Language (ASL), cultural background and information relating to the deaf community and American Sign Language.
Prerequisite: Grade of 2.0 or higher in ENGL 097, or AESL 098, or appropriate test score.

ASL& 122 American Sign Language II (5)
HUMANITIES
Further expansion of pre-existing vocabulary to include creative conversation incorporating the rules of communication in an accurate and fluent manner.
Prerequisite: ASL& 121 with a "C" or higher.

ASL& 123 American Sign Language III (5)
HUMANITIES
Practice and development of ASL in social and professional settings. Further incorporation of rules, vocabulary, and style will be included.
Prerequisite: ASL& 122 with a "C" or higher.

ASTR& 100 Survey of Astronomy (5)
SCIENCE, TECHNOLOGY, ENGINEERING, AND MATH
Astronomy for non-scientists with topics including birth and death of stars, workings of the solar system, Big Bang, quasars, pulsars, black holes, and the search for extraterrestrial life.
Prerequisite: ENGL 099 with a grade of "C" or higher (or placement into college-level English); and either placement into OR co-enrollment in OR completion of a college-level Math course with a grade of "C" or higher.

ASTR& 101 Introduction to Astronomy (5)
SCIENCE, TECHNOLOGY, ENGINEERING, AND MATH
A survey of astronomy including the solar system, stellar evolution, galactic structure, and cosmology. Emphasis on recent discoveries, historical and cultural impact of astronomy, application of physical science to astronomical observations, and stargazing. Lab included.
Prerequisite: ENGL 099 with a grade of "C" or higher (or placement into college-level English); and either placement into OR co-enrollment in OR completion of a college-level Math course with a grade of "C" or higher.

AT 100 Automotive Fundamentals (3)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION
Introduction to automotive vehicle systems, maintenance, tool usage, and safety practices. Exploration of career opportunities and industry certifications included. Designed for non-degree seeking students.
Prerequisite: None

AT 101 Industrial Safety and Fundamentals (3)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION
Introduction to shop safety and basic industrial skills required for employment in the automotive or other trade industries. Discussion of shop safety concerns and safe practices including OSHA 10 certification. Introduction to basic shop practices including safe use of shop equipment, proper use of hand and power tools, equipment maintenance, hardware identification, and basic vehicle inspection and maintenance.
Prerequisite: None

AT 107 Light Maintenance I (8)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION
Introduction to basic automotive maintenance including batteries, starting & charging systems, lighting, fluids, tires, and other general services. Industry terminology, workplace safety, tools and repair information included.
Prerequisite: None

AT 121 Automotive Electrical I (7)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION
Fundamentals of electricity including series, parallel and series-parallel circuit operation; electrical measurement including voltage, amperage and resistance; diagnosis and repair of batteries, starting and charging systems; introduction to scan tool operation.
Prerequisite Concurrent enrollment in AT 101 and AT 133.

AT 124 Brake Systems (8)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION
Operation, diagnosis & repair of automotive brake systems including disc & drum brakes, hydraulic systems, anti-lock systems and computer controls. Perform diagnosis, service and repair on a variety of vehicles.
Prerequisite:AT 133 with a D grade or higher; and concurrent enrollment in AT 131 and ENGL& 101.

AT 131 Suspension, Steering and Alignment (7)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION
Operation, diagnosis and repair of suspension, steering and alignment systems including suspension modifications and electronic controlled systems. Learn on a variety of front and rear suspension systems.
Prerequisite: AT 133 with a D grade or higher; and concurrent enrollment in AT 124 and ENGL& 101.

AT 133 Automotive Electrical II (8)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION
Operation, diagnosis and repair of automotive electrical systems including advanced lighting, power controlled systems, sensors, actuators, modules, and vehicle networking. Use of scan tools, lab scopes, power probes and other electrical diagnostic equipment included. Navigation of wiring diagrams and troubleshooting techniques will be discussed.
Prerequisite: Concurrent enrollment in AT 101 and AT 121.

AT 141 Transmissions and Drivetrain Systems (12)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION
Operation, diagnosis, service and repair of automatic transmissions/transaxles, including principles of planetary power flow and operation of valve body, torque converter, and electronic controls. Operation, diagnosis, service and repair of manual transmissions/transaxles, clutches and differentials. Perform diagnosis, service and repair on a variety of vehicles.
Prerequisite: Concurrent enrollment: AT 101 or 107; AT 133, WT 133 and WMATH 100.

AT 181 Small Gas Engines (3)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION
Basic engine theory, maintenance, overhaul, and tune-up of small gas engines.
Prerequisite: None

AT 199 Cooperative Education Experience (1-15)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION
Supervised work experience in the field. Includes a weekly seminar.
Prerequisite: Must complete 3 quarters of automotive core. Instructor permission required.

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AT 201 Automotive Parts and Service Specialist (3)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION
Training in skills necessary to gain employment in the automotive parts & sales industry, and as a service writer in all types of repair facilities. Learn a variety of techniques and software applications. Emphasis on oral and written communication, organizational skills, vehicle knowledge, parts cataloging, customer service, and other necessary skills for employment.
Prerequisite: AT 101 or concurrent enrollment.

AT 205 Automotive Engines and Cooling Systems (8)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION
Operation, diagnosis, service and repair of automotive engines, including discussion of internal components, diagnosis of engine related problems, cooling system operation and diagnosis, and repair procedures. Engine rebuilding techniques and performance modifications will be discussed. Proper use and care of precision tools and equipment included.
Prerequisite: AT 133; and concurrent enrollment in AT 210 and WT 133.

AT 206 Automotive HVAC Systems (4)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION
Operation, diagnosis, service and repair of automotive HVAC systems, including air conditioning, heater systems, climate control and related electrical circuits. Includes factory repair, retrofitting, and safe handling of refrigerants and related chemicals. Section 609 Certification included.
Prerequisite: AT 133 with a D grade or higher; and concurrent enrollment in AT 220 or 225; and MANF 121 and WT 231.

AT 210 Engine Performance I (7)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION
Operation, diagnosis, service and repair of engine computer control systems with emphasis on ignition systems, engine mechanical condition, and engine sensors. Use of scan tools, lab scopes, and other specialty test equipment included.
Prerequisites: AT 133 with a D grade or higher; and concurrent enrollment in AT 205 and WT 133.

AT 212 Engine Performance II (8)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION
Operation, diagnosis, service and repair of engine computer control systems with an emphasis on fuel delivery and emission control systems. Includes throttle body, port, and direct injection, EGR, 5-gas analysis, and other emission control devices. Computer controls, and operation of diagnostic equipment included.
Prerequisite: AT 133 with a D grade or higher; and Co-Requisites: AT 215 and CMST& 210.

AT 215 Alternative Power Technologies (7)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION
Operation, diagnosis service and repair of hybrid-electric and electric vehicles, including technician and responder safety. Operation, diagnosis, service and repair of light-duty diesel vehicles. Discussion of ethanol, propane, compressed natural gas (CNG), fuel cells and other alternative fuels included.
Prerequisites: AT 133 with a D grade or higher; and concurrent enrollment in AT 212 and CMST& 210.

AT 220 Professional Lab Techniques (8)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION
Develop professionalism and productivity in a work place environment. Troubleshoot, analyze, and perform diagnosis and repair on a variety of automotive systems and vehicles. Emphasis will be placed on industry standards, communication, flat-rate production, and customer satisfaction.
Prerequisites: AT 133 with a D grade or higher; and concurrent enrollment in AT 199 and MANF 121 and WT 231.

AT 225 Engine Machining I (8)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION
Engine machining operations and building procedures of gasoline and diesel engines. Includes a variety of procedures focusing primarily on cylinder heads including teardown and diagnosis, machining of parts, assembly and testing, and custom machining for performance applications. Emphasis will be placed on safe practices while using specialty equipment, and attention to detail in measuring, machining and assembly practices.
Prerequisites: AT 101 and AT 199 and WT 231 with a D grade or higher; and AT 205 with a B-grade or higher; and concurrent enrollment in MANF 121.

AT 226 Cylinder Head Rebuilding (6)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION
Rebuilding & machining operations of gasoline and diesel cylinder heads. Learn and practice a variety of procedures including tear-down and diagnosis, machining of parts, assembly and testing. Emphasizes understanding the internal combustion engine and attention to detail in measuring, machining, assembly and safe practices. Designed for industry professionals and non-degree seeking students.
Prerequisite: Instructor permission required.

AT 299 Learning into Action (1-15)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION
Student develops and completes curriculum-related independent project which demonstrates skills and abilities and explores career options. May include, but is not limited to, service learning, original research, and travel abroad. Faculty sponsor approval required. Students with 45 transferable college credits are eligible to begin Learning into Action.
Prerequisite: None

BASM 301 Foundations of Management (5)
BACHELOR OF APPLIED SCIENCE: MANAGEMENT
Introduction and orientation to the student-centered applied learning model of the BASM program and its applicability to management and leadership. Topics include personal and professional agency, business and contemporary landscapes, and the relationships between managerial effectiveness, bias, equity, and inclusion.
Prerequisite: Admission to BASM program and Dept. Chair permission.

BASM 322 Project Management (5)
BACHELOR OF APPLIED SCIENCE: MANAGEMENT
Examine the importance of project management as a key managerial competency and investigate the ways in which key project management concepts and tools integrate into an operational model. Analyze the connections between project management and other management functions and define the characteristics of effective project management and managers. Investigate the ways in which bias can impact effectives project management and develop mitigating solutions.
Prerequisite: BASM Dept. Chair permission.

BASM 324 Marketing for Managers (5)
BACHELOR OF APPLIED SCIENCE: MANAGEMENT
Discover the ways in which key marketing concepts come together to form a marketing plan. Investigate the ways in which technology and social media are shaping customer and consumer marketing. Analyze ways in which organizations allocate resources to marketing activities and how the effectiveness of these activities is assessed. Examine how bias can influence marketing decision making and develop mitigating solutions.
Prerequisite: BASM Dept. Chair permission.

BASM 330 Operations Management (5)
BACHELOR OF APPLIED SCIENCE: MANAGEMENT
Explore and apply the concepts, principles, problems, and practices of operations management in different sizes and types of goods producing and service organizations. Topics include operations strategy, process design, capacity planning, facilities location and design,

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forecasting, scheduling, quality assurance, continual improvement and operational effectiveness, environmentally sustainable practices, and inventory management.

Prerequisite: BASM Dept. Chair permission.

BASM 332 Human Resources and the Manager (5)

BACHELOR OF APPLIED SCIENCE: MANAGEMENT

Explores the role that the human resource function and the manager play to achieve high levels of organizational performance. Evaluate the organizational impact related to the following areas of human resources: talent acquisition and talent management; total rewards (compensation and benefits); evaluating and managing employee performance; and health, safety, and security.

Prerequisite: BASM Dept. Chair permission.

BASM 334 Accounting for Managers (5)

BACHELOR OF APPLIED SCIENCE: MANAGEMENT

Provides the foundational accounting acumen that managers should possess. Analyze financial statements to assess an organizations operational condition and to project future strategy and budgets. Examine the key legal, regulatory, and ethical considerations that apply to financial and accounting areas and the possible correlations between bias and managerial fiduciary responsibility.

Prerequisite: BASM Dept. Chair permission.

BASM 410 Managerial Presence (5)

BACHELOR OF APPLIED SCIENCE: MANAGEMENT

Designed as an opportunity to apply learning on social capital theories and to develop and advance social capital in professional contexts. Analyze the features that define a professional presence in fields of interest. Examine the impact of implicit bias on professional presence and develop countering strategies. By the end of this course, students will have defined a workplace project/internship that they will implement in the next quarter.

Prerequisite: BASM Dept. Chair permission.

BASM 422 Principles of Finance (5)

BACHELOR OF APPLIED SCIENCE: MANAGEMENT

Introduction to the application of financial management principles in the students field of interest. Includes the analysis of financial statements for capital decision making and managing working capital (planning and control, equipment purchase and depreciation, budgeting). Covers ways in which financial decisions can be impacted by bias and identifies ways to manage the related risk.

Prerequisite: BASM Dept. Chair permission.

BASM 495 Capstone: Management (5)

BACHELOR OF APPLIED SCIENCE: MANAGEMENT

The culmination of the BASM program. Students will be asked to synthesize their learning through the creation of a professionally presented evidence driven strategic plan in a field of their professional interest. Students will reflect on their exploration of culture bound assumptions and will be asked to develop a plan to transfer their program learning to a workplace and career context.

Prerequisite: BASM Dept. Chair permission.

BASM 499 BASM Workplace Project Experience Internship (5)

BACHELOR OF APPLIED SCIENCE: MANAGEMENT

Provides students with supervised and assessed practical project-based work experiences that connect to a BASM program learning outcome. Using a project management-based approach, and under the guidance of a workplace project sponsor, students will tackle a workplace problem or opportunity that will have been defined in BASM 410.

Prerequisite: BASM Dept. Chair permission.

BIOL& 100 Survey of Biology (5)

NATURAL SCIENCES

This NON-MAJORS course begins with the study of scientific method, and continues with the study of chemistry of life, cells, metabolism, heredity, evolution, ecology, and the diversity of life. This course is intended to show students the relevancy of biology in everyday life. Lab included.

Prerequisite: ENGL 099 with a grade of "C" or higher (or placement into college-level English); and either placement into OR co-enrollment in OR completion of a college-level Math course with a grade of "C" or higher.

BIOL 105 Introduction to Plant Science (5)

NATURAL SCIENCES

Study of how plants are structured, important plant processes, how plants reproduce, and the effect of the environment on plant growth. Topics may include: scientific method, centers of plant origin, plant cells and tissues, soils and mineral nutrition, genetics, propagation, and plant pests. Lab included. Field trips may be required.

Prerequisite: ENGL 099 with a grade of "C" or higher (or placement into college-level English); and either placement into OR co-enrollment in OR completion of a college-level Math course with a grade of "C" or higher.

BIOL 133 Field Botany (5)

NATURAL SCIENCES

The identification, life histories, ethnobotany, ecological relationships, distributions of evolutionary trends of endemic ferns, conifers, and flowering plants. Field trips may be required. Labs included.

Prerequisite: ENGL 099 with a grade of "C" or higher (or placement into college-level English); and either placement into OR co-enrollment in OR completion of a college-level Math course with a grade of "C" or higher.

BIOL 150 Microbiology and Chemistry Laboratory Techniques for Brewing (1)

NATURAL SCIENCES

Essential laboratory skills for the brewing industry. Covers skills required for growth, maintenance and storage of yeast cultures. Beer production techniques including, but not limited to, testing for alcohol concentration, bitterness and color using American Society of Brewing Chemists (ASBC) official analytical techniques.

Prerequisite: Permission Required

BIOL& 160 General Biology w/Lab (5)

NATURAL SCIENCES

This course provides introduction to basic concepts of biology, with an emphasis on the cells as the fundamental unit of life. Topics include cell structure, basic chemical and biochemical concepts, metabolism, cell division, principles of genetics, biological diversity, and methods of scientific inquiry and critical thinking. Course establishes foundation necessary for continued biology study, especially in human anatomy and physiology. Lab included.

Prerequisite: ENGL 099 with a grade of "C" or higher (or placement into college-level English); and CHEM& 121 with a grade of "C" or higher; and either co-enrollment in OR completion of a college-level Math course with a grade of "C" or higher.

BIOL& 170 Human Biology (5)

NATURAL SCIENCES

This NON-MAJORS course begins with the study of scientific method, and continues with the study of chemistry of life, cells, metabolism, heredity, evolution, ecology, and the diversity of life. This course is intended to show students the relevancy of biology in everyday life.

Prerequisite: ENGL 099 with a grade of "C" or higher (or placement into college-level English); and either placement into OR co-enrollment in OR completion of a college-level Math course with a grade of "C" or higher.

BIOL 180 Native Plants Pacific Northwest (3)

NATURAL SCIENCES

The identification, life histories, ethnobotany, ecological relationships, and distributions of endemic ferns, conifers, and flowering plants.

Prerequisite: None

BIOL 199 Cooperative Education (1-15)

NATURAL SCIENCES

Supervised work experience in the field. Includes a weekly seminar. Instructor permission required.

Prerequisite: None

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BIOL 205 Marine Biology (5)
NATURAL SCIENCES
Introduction to marine organisms and the environment in which they live. Special emphasis is given to the species found in the Pacific Northwest. Field trips may be required. Lab included.
Prerequisite: ENGL 099 with a grade of "C" or higher (or placement into college-level English); and either placement into OR co-enrollment in OR completion of a college-level Math course with a grade of "C" or higher.

BIOL 224 Ecology (5)
NATURAL SCIENCES
Fundamental ecological principles through basic theory and applications.
Prerequisite: ENGL 099 with a grade of "C" or higher (or placement into college-level English); and either placement into OR co-enrollment in OR completion of a college-level Math course with a grade of "C" or higher.

BIOL& 221 Majors Ecology/Evolution (5)
NATURAL SCIENCES
Mendelian genetics, evolution, biodiversity of life forms, and ecology. First course of three-quarter series. For students intending to major in the sciences. Lab included.
Prerequisite: Both ENGL& 101 and CHEM& 161 with a grade of "C" or higher (or concurrent enrollment); and either placement into MATH& 141 OR co-enrollment with MATH& 141 OR completion of MATH& 141 with a grade of "C" or higher.

BIOL& 222 Majors Cell/Molecular Biology (5)
NATURAL SCIENCES
For students intending to major in the sciences. Metabolism and energetics, structure and function of biomolecules, cell structure and function, current applications of biotechnology and molecular biology. Second course of three-quarter series. Lab included.
Prerequisite: ENGL& 101 with a grade of "C" or higher; and either placement into MATH& 141 OR co-enrollment with MATH& 141 OR completion of MATH& 141 with a grade of "C" or higher; and CHEM& 161 with a grade of "C" or higher (or concurrent enrollment).

BIOL& 223 Majors Organismal Physiology (5)
NATURAL SCIENCES
For students intending to major in the sciences. Animal development and physiology, plant development and physiology, including photosynthesis. Final course of three-quarter series. Lab included.
Prerequisite: ENGL& 101 with a grade of "C" or higher; and either placement into MATH& 141 OR co-enrollment with MATH& 141 OR completion of MATH& 141 with a grade of "C" or higher; and CHEM& 161 with a grade of "C" or higher (or concurrent enrollment).

BIOL& 241 Human Anatomy and Physiology I (5)
NATURAL SCIENCES
For pre-nursing and allied health majors. First of a two-quarter series studying the structure and function of the human body. First quarter includes histology, integumentary, skeletal, muscular, special senses and nervous systems. Lab Included.
Prerequisite: ENGL& 101 with a grade of "C" or higher; and either BIOL& 211, BIOL& 160, or BIOL&222; all courses with a grade of "C" or higher; and either co-enrollment in OR completion of MATH& 146 or MATH& 141 with a grade of "C" or higher.

BIOL& 242 Human Anatomy and Physiology II (5)
NATURAL SCIENCES
Continuation of BIOL& 241. In-depth study of the structure and function of the human body; endocrine, cardiovascular, lymphatic, respiratory, urinary, fluid, electrolyte, digestive, and reproductive systems. Lab included.
Prerequisite: Prerequisite: Both ENGL& 101 and BIOL& 241 with a grade of "C" or higher; and either MATH& 146 or MATH& 141 with a grade of "C" or higher.

BIOL& 260 Microbiology (5)
NATURAL SCIENCES
Practical and elementary theoretical aspects of medical microbiology for students in allied health professions. Lab included.
Prerequisite: ENGL& 101; BIOL& 221; BIOL& 222; and BIOL& 223; all courses with a grade of "C" or higher. (Acceptable BIOL& 221, BIOL& 222, and BIOL& 223 substitutes: BIOL& 160 or BIOL& 211 with a grade of "C" or higher); and either placement into MATH& 146 OR co-enrollment with MATH and 146 OR completion of MATH& 146 with a grade of "C" or higher.

BIOL 270 Natural Science of Western Washington (5)
NATURAL SCIENCES
The course provides applied, multidisciplinary scientific exploration of the natural history of the western Pacific Northwest region. Fieldstudies, supplemented with class work, will include hands-on skills-building investigations of: (1) ecological systems (and the organisms that comprise them); (2) abiotic systems (geology, climatology, hydrology, glaciology, oceanography), and (3) human interactions with the environment (pre and postEuropean settlement). Weekly meetings or half-day field trips will culminate in a 2 to 4 day (or multiday during Summer) camping trip to areas of scientific interest.
Prerequisite: Either placement into OR co-enrollment in OR completion of a college-level Math course with a grade of "C" or higher.

BIOL 271 Natural Science of Eastern Washington (5)
NATURAL SCIENCES
The course provides applied, multidisciplinary scientific exploration of the natural history of the eastern Pacific Northwest region. Fieldstudies, supplemented with class work, will include hands-on skills-building investigations of: (1) ecological systems (and the organisms that comprise them); (2) abiotic systems (geology, climatology, hydrology, glaciology), and (3) human interactions with the environment (pre and postEuropean settlement). Weekly meetings or half-day field trips will culminate in a 2 to 4 day (or multiday during Summer) camping trip to areas of scientific interest.
Prerequisite: Either placement into OR co-enrollment in OR completion of a college-level Math course with a grade of "C" or higher.

BIOL 295 Biology Integrative Experience Seminar (2)
NATURAL SCIENCES
Intended for science majors. An Integrative Experience emphasizing an interdisciplinary approach to current issues in biology, including the societal context of biology and technology, and/or the ethical, political, and cultural aspects of biology.
Prerequisite: BIOL& 221; or CHEM& 161; or PHYS& 241; or CHEM& 241; or BIOL& 241 with a grade of "C" or higher; and either placement into MATH& 141 OR co-enrollment with MATH& 141 OR completion of MATH& 141 with a grade of "C" or higher.

BIOL 299 Learning into Action (1-15)
NATURAL SCIENCES
Student develops and completes curriculum-related independent project which demonstrates skills and abilities and explores career options. May include, but is not limited to, service learning, original research, and travel abroad. Faculty sponsor approval required. Students with 45 transferable college credits are eligible to begin Learning into Action.
Prerequisite: None

BLDG 101 Introduction to Building Construction (1-15)
BUSINESS ADMINISTRATION
Practical hands-on experience in core construction skills. Includes basic building vocabulary and nomenclature in the safe operation of hand and power tools. Covers construction math applications and exposure to construction trade clusters. Instruction will include OSHA 10-Hour Construction Industry Certification and fork lift operation certification.
Prerequisite: None

BRW 101 Culture of Craft Brewing (3)
FOOD AND BEVERAGE MANAGEMENT
Introduction to sensory perception (taste and smell) as it relates to beer identification and quality, and considerations for food and beverage pairings. Topics include the history of brewing, craft vs. factory industrial models, alcohol and health, overview of the brewing process, ingredients used and beer styles. Includes industry tours and presentations from industry professionals.
Prerequisite: None

8 Course Descriptions

BRW 103 Beverage Biochemistry (4)
FOOD AND BEVERAGE MANAGEMENT
Covers general microbiology and chemistry as it pertains to the production of alcoholic beverages and the brewing of beer. Raw materials/ingredients used in the brewing process will be discussed along with the properties of water, pH, enzymes, proteins, carbohydrates, and other micro-organisms in the brewery regarding their role in brewing. Develop an understanding of the ingredient interactions of biological molecules, particularly as they pertain to fermentation (yeast biology, wild yeasts, yeast production), identification of wort/beer spoilage organisms using microscopy, staining and differential media.
Prerequisite: None

BRW 105 Raw Materials (3)
FOOD AND BEVERAGE MANAGEMENT
Covers the basic ingredients used in brewing: malted barley (and other adjunct grains), hops, yeast and water. Provides an overview of the role various raw materials play in the production of beer and other food products and the importance of these ingredients in the flavor profiles imparted. Topics include hop varieties, barley types, breeding & selection, growing, harvesting, drying and malting of grains, yeast types, and water properties. Learn about the grain to glass philosophy and how local brewers are incorporating locally sourced raw materials into their craft beverage products.
Prerequisite: None

BRW 107 Wort Production (3)
FOOD AND BEVERAGE MANAGEMENT
Provides training in the technology/science of wort creation and the brewing skills required to create the final product. Covers each critical factor in wort production from barley choices to mashing, sparging, wort boiling and cooling. Topics include barley, malt, hops, water analysis, brewing adjuncts, milling and mashing, sensory evaluation and how each aspect of the production process impacts the final product. Industry tours to observe the production process are included.
Prerequisite: None

BRW 110 Brewery Operations (5)
FOOD AND BEVERAGE MANAGEMENT
Employees working in small, craft breweries need to be prepared to handle small equipment problems as they arise (pumps, valves, lights, motors, etc.) Covers essential topics of brewery operations, including brewery equipment and maintenance, tasks required in the brewing process, design/layout of brewery production areas, supply and product control, safety (production lines under pressure), cleaning and sanitation issues, disposal of liquid and solid brewery waste by-products, and storage and distribution systems. Discusses the processing and packaging of finished beer, including the most recent developments in alternative materials (such as plastic bottles) and super-high-speed bottling systems.
Prerequisite: BRW 101 with a D or higher

BRW 120 Essentials of Quality Assurance/Quality Control (3)
FOOD AND BEVERAGE MANAGEMENT
Learn the tools and procedures used by breweries worldwide to evaluate beer at every important phase of production. Covers a full range of topics related to Quality Assurance/Quality Control (QA/QC) and tools required to create beers of the highest quality and consistency. Differentiate between the principles of QA & QC and the essential components of a quality production system within a brewery. Topics include sensory evaluation, analytical testing, microbiological testing, lab safety and standard practice, practical and usable analytical methods, sampling techniques, QC methods for fermentation and packaged products, and taste panel design and management. Learn how to use PH meters, CO2 volume meters, thermometers, and calibration techniques to maintain temperature consistency.
Prerequisite: BRW 103 with a D or higher

BRW 125 Flavor Production and Control (2)
FOOD AND BEVERAGE MANAGEMENT
Introduction to samples of flavor and aromatic compounds associated with the raw materials and the brewing process. Analyze the origins of those compounds, and provides foundational knowledge required to effectively control them. Topics include fermentation characteristics, malting effects, carbonation, flavor production, and beer freshness qualities. Includes training the palate to make informed decisions during the production process for beer. Learn about beers quality attributes such as foam, stability, color, aroma, attenuation, and ability to interpret the reasons why a product deviates from expected performance.
Prerequisite: BRW 101 with a D or higher

BRW 128 Industry Experience (1)
FOOD AND BEVERAGE MANAGEMENT
Complete two observation-based industry experiences. Areas of focus include: Brewery Operations, Packaging & Process Technology, Equipment Maintenance, Quality Assurance/Quality Control, and Flavor Production.
Prerequisite: BRW 101 with a D or higher

BRW 130 Business of Craft Brew (4)
FOOD AND BEVERAGE MANAGEMENT
Overview of small business start-ups and basic business practices as applied in the brewing industry as well as an introduction to brewery compliance. Topics include the economics of running a brewery, overhead control and pricing, cash management, the selling and distribution process, inventory control, marketing the business, insurance considerations, and hiring/managing employees, licensing and permits, label approval process, taxes, recordkeeping and reporting requirements for the Washington State Liquor and Cannabis Board (WSLCB), the Alcohol and Tobacco Tax and Trade Bureau (TTB), and the Washington State Department of Revenue (DOR).
Prerequisite: BRW 110 with a D or higher

BRW 135 Tradition and Innovation in Beer Styles (2)
FOOD AND BEVERAGE MANAGEMENT
Overview of the techniques and technologies used to design and brew the full range of established and emerging beer styles. Topics include styles and sub-categories of beer with an emphasis on methodology used to brew beer that matches the style parameters, while retaining the brewers own artistic interpretation. Learn about the technical side of the development of recipe formulation and creating a style.
Prerequisite: BRW 125 with a D or higher

BRW 160 Brewery Lab I (1)
FOOD AND BEVERAGE MANAGEMENT
Apply brewing theory in the brewery lab. Introduces brewing equipment, proper cleaning and sanitizing techniques, cellar work, and the brewing process.
Prerequisite: None

BRW 161 Brewery Lab II (2)
FOOD AND BEVERAGE MANAGEMENT
Apply brewing theory in the brewery lab. Reviews equipment and basic maintenance, proper cleaning and sanitizing techniques, cellar work, and ways to troubleshoot and adapt the brewing process.
Prerequisite: BRW 160 with a "C" or higher.

BRW 198 Brewery Capstone Project (1)
FOOD AND BEVERAGE MANAGEMENT
Includes a final brewing project in the lab. Students work in small groups to formulate and brew an original recipe, and then market and sell their product to another brewery/restaurant or at Cardinal Craft Brewing.
Prerequisite: BRW 161 with a grade of 2.0 or better.

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BRW 199 Brewery Internship (5)
FOOD AND BEVERAGE MANAGEMENT
Supervised work experience in the field. Apply skills and knowledge learned in a craft brewery business operation. Students Course includes a weekly classroom seminar.
Prerequisite: Instructor permission required.

BUS& 101 Introduction to Business (5)
BUSINESS
An overview of the American business environment including forms of business ownership, management techniques, decision making, marketing and production, human resources, accounting and financial management and the effects of globalization on American business.
Prerequisite: Grade of 2.0 or higher in ENGL 097, or AESL 098, or appropriate test score.

BUS 111 Business Math (5)
BUSINESS
Applied mathematics in daily business experiences. Basic mathematics (whole numbers, decimals, fractions, percents, ratios, equations and formulas) applied to business cases. Additional mathematical applications as they relate to banking, (including introductory international/cultural issues) payroll, purchasing, selling, interest, inflation, annuities, stocks, bonds, loans, taxes, insurance, depreciation, financial statements, ratios, metric system, business statistics, financial calculators. Practical mathematical problem solving techniques explored through presentations, discussion, and lab work. This course is non-transferable and for professional/technical students only.
Prerequisite: Recommended - Basic Arithmetic skills including fractions and percentages, Math 095 with a grade of C or higher, or equivalent. Math placement score or instructor permission.

BUS 112 Personal Finance (5)
BUSINESS
Analysis of savings, investments and consumer spending patterns. Personal budgeting, net worth, goal setting, consumer credit, financial institutions, insurance, real estate, stocks, mutual funds, precious metals, taxes, social security, retirement plans and estate planning.
Prerequisite: None.

BUS 120 Business Computers and Applications (5)
BUSINESS
Strategic use of common software applications to support business activity. Use software to create professional documents in Microsoft Word, build effective business presentations in Microsoft PowerPoint, introduction to problem-solving spreadsheet models in Microsoft Excel and introduction to databases with Microsoft Access. Current industry computer topics will be covered; basic web page design, advance spreadsheet modeling, social media, Networking, Management Information Systems and other current topics.
Prerequisite: Basic keyboarding and Computer Skills recommended.

BUS 122 Social Media and Digital Marketing (5)
BUSINESS
The use of social networks, online communities, or other online collaborative media for advertising, marketing, sales, public relations or customer service. Popular online digital technologies will be used to design an effective social media marketing campaign.
Prerequisite: None

BUS 171 Latino Leadership I (2)
BUSINESS
Communication, teamwork and leadership skill development as a foundation for an applied project addressing issues of significance to the LatinX community to be planned and implemented in Latino Leadership II and Latino Leadership III.
Prerequisite: None

BUS 172 Latino Leadership II (2)
BUSINESS
Apply communication, teamwork and leadership skills to plan a service project to address issues of significance to the LatinX community with an emphasis on mentoring and college access. This is the second of a three-class sequence and should be taken with 1 credit of Learning Into Action.
Prerequisite: BUS 171 with a "D" or better.

BUS 173 Latino Leadership III (2)
BUSINESS
Apply communication, teamwork and leadership skills to address issues of significance to the LatinX community with an emphasis on mentoring and college access. This is the third of a three-class sequence and should be taken with 1 credit of Learning Into Action.
Prerequisite: BUS 172 with a "D" or better.

BUS 180 Leadership Development and Management Skills: D (5)
BUSINESS
Identify individual strengths and weakness to build strong business leaders and managers . Leading and managing through times of change, innovation and other challenges. Focuses on communication, relationships, teamwork, collaboration, accountability, motivation, influence, problem solving, goal setting and decision making.
Prerequisite: None

BUS 199 Internship / Cooperative Education (1-15)
BUSINESS
Supervised work experience in the field providing practical experience in the operations and methods of business. The internship will augment the classroom learning by applying skills and knowledge learned in a real business setting. Students will be supervised by business professionals who are experienced practitioners in the field, and will practice the work skills required to be successful in their chosen field. In partnership with the instructor and the supervisor, students will develop learning objectives to achieve during the internship/work experience.
Prerequisite: Instructor permission required.

BUS 200 Introduction to Law (5)
BUSINESS
Introduction to the origins, development, structure, institutions and processes of the U.S. legal system. Topics include law as a system of social thought and behavior; law as a framework for the resolution of conflicting claims; legal reasoning; law as a process for protecting and facilitating voluntary interactions and fundamental rights in a business society; legal terminology, civil and criminal procedures, legal rights and remedies, torts, contracts, criminal law, and property. Required for all business students transferring to the UW School of Business; recommended for any student interested in a career in law, law enforcement or related.
Prerequisite: ENGL& 101 with a "C" or higher.

BUS& 201 Business Law (5)
BUSINESS
Introductory study of law, analyzing its origins, development and its role in society. The course surveys legal rights and remedies, courts and court procedures, torts, contracts and criminal law. Critical thinking skills are developed by analyzing and writing summaries of court rulings/opinions. Attending one court proceeding is required. Course required for business majors transferring to four-year schools.
Prerequisite: ENGL& 101 with a "C" or higher.

BUS 205 Human Resources Management (5)
BUSINESS
A comprehensive introduction to the management of human resources in profit and non-profit organizations, including job analysis, workforce planning, employee recruitment, selection, training and development,

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compensation, benefits, discipline/termination and performance appraisal, as well as human resources law, human resources information systems, employee health and safety, and labor relations.
Prerequisite: None

BUS 212 Investment and Financial Planning II (3)
BUSINESS
Continuation of BUS 112 for those who have had some investment experience. Stocks, bonds, warrants, options, commodities, investment trusts, real estate, retirement plans, tax shelters and estate planning.
Prerequisite: BUS 112 with a "D" or better.

BUS 240 Fundamentals of Marketing (5)
BUSINESS
Introduction to the marketing of goods and services in a free enterprise system and the role of marketing in society. Topics include the marketing environment, marketing functions in manufacturing, retailing and service industries, market analysis including buyer behavior and market segmentation, marketing mix policies, advertising, pricing and public and legal policies that impact marketing. This course provides a valuable background both for students intending to transfer to 4 year business programs and for business owners wishing to improve their knowledge of marketing practices
Prerequisite: None

BUS 241 Introduction to International Business (5)
BUSINESS
An overview of how businesses operate in the global environment including topics on marketing, management, production, human resource management and finance.
Prerequisite: ENGL& 101 with a "C" or higher.

BUS 242 Professional Selling and Sales Management (5)
BUSINESS
Introduction to sales process, buying process, relationship selling, prospecting, sales call planning, communication, negotiating, and closing sales as well as how to motivate, compensate, and train sales people. Includes topics in Customer Relationship Management.
Prerequisite: None.

BUS 280 Entrepreneurship and Small Business Management (5)
BUSINESS
Introduction to developing and starting a business. Develop a business plan which includes marketing, financial, and planning sections of the plan. Use a computer to accomplish the functions involved in a small business including the planning, organizing, and control of a small business.
Prerequisite: None

BUS 290 Leadership Skagit (1-17)
BUSINESS
Study the issues challenging our region. Explore different locations, industries and resources in Skagit County. Focus on critical topics such as history and sense of place, law and justice, economy and economic development, community services and health, and arts and culture. Meet with local leaders, identify existing resources and learn how to apply leadership skills to current issues in each of these areas. Directly apply leadership skills to choose, plan, and complete a service project in partnership with a local nonprofit agency. Identify individual strengths and weaknesses as a community leader. Learn to lead through times of change, innovation and other challenges. Focus on ethics and stewardship, interpersonal communications, teamwork, group process, equity, diversity, inclusion, conflict resolution, managing change, and public speaking.
Prerequisite: Instructor permission required.

BUS 292 Leadership San Juan Islands (6)
BUSINESS
Learn from local leaders about the issues challenging San Juan County. Explore different locations, industries and resources in the county. Focus on critical topics impacting local government, natural resources and land use planning, economic development, health, education, social services, arts, culture and history. Learn how to apply leadership skills to current issues. Directly apply leadership skills to choose, plan, and complete a service project. Identify individual personality strengths and weaknesses, and learn strategies for working effectively with different people. Topics will include self awareness, ethics and stewardship, interpersonal communications, teamwork, group process, facilitation, equity, diversity, inclusion, conflict resolution, managing change, and public speaking.
Prerequisite: Instructor permission required.

BUS 293 Leadership Whidbey (6)
BUSINESS
Learn from local leaders about the history and legacies of Whidbey Island and the critical topics and initiatives in local government, ecology, economy, arts, culture, and education. Apply systems thinking, justice, inclusion, and equity to understanding these topics. Gain awareness of leadership frameworks while developing a personal leadership practice. Develop as a leader through self-awareness, values clarification, building on strengths, speaking in public, practicing conflict resolution, and behaviors that build strong teams and engage diverse communities. Directly apply leadership skills to choose, plan, and complete a service project.
Prerequisite: None.

BUS 295 Business Integrated Experience Seminar (2)
BUSINESS
In this integrative experience, students will analyze assigned business cases and current business news stories from multiple perspectives in order to arrive at a fuller understanding of the situations described.
Prerequisite: ECON& 201 or ECON& 202 with a "D" or higher.

BUS 299 Learning into Action (1-15)
BUSINESS
Student develops and completes curriculum-related independent project which demonstrates skills and abilities and explores career options. May include, but is not limited to, service learning, original research, and travel abroad. Faculty sponsor approval required. Students with 45 transferable college credits are eligible to begin Learning into Action.
Prerequisite: None.

BUS 340 Project Management (5)
BUSINESS
Explore both traditional project management with modern approaches adopted by lean and agile methods. Including determining the timeline, tasks, roles of the developer and other stakeholders, resources needed, cost calculations, risk analysis and mitigation, progress monitoring and quality assurance required to plan a project.
Prerequisites: ENGL& 101 with a C or higher; and CMST& 210 or CMST& 220 or CMST& 230 with a C or higher.

BUS 430 Evidence Driven Decision Making (5)
BUSINESS
Examine the uses of different types of data and evidence and explore collection methods. Investigate frameworks for tackling workplace problems using reliable, valid, and credible data and evidence. Focus on ways in which bias can enter into data collection and analysis, and related decision making, and on mitigating solutions.
Prerequisite: BASM Dept. Chair permission.

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BUS 450 The Manager and the Law (5)
BUSINESS
Examine the ways in which the American legal system governs the contemporary workplace developing the legal awareness that astute leaders should have in areas such as privacy, competition law, tort, and intellectual property. Analyze the effect of bias in managerial decision making and in managing legal risks. Evaluate how managers can navigate the inherent tension between organizational objectives, legal obligations, ethical behavior, and social responsibility.
Prerequisite: BASM Dept. Chair permission.

BUS 455 Healthcare Manager and the Law (5)
BUSINESS
Analyze the origins and development of law and its role in society as it relates to the healthcare environment. Survey legal rights and remedies, courts and court procedures, torts, contracts, and criminal law. Topics include contracts with equipment vendors, HIPAA and Stark laws, and insurance, working effectively with counsel and creating accurate documentation of situations. Focuses on the use of case studies for contextualization and application.
Prerequisite: BASM Dept. Chair permission.

C2C 201 Compass to Campus: Youth Mentoring I (3)
EARLY CHILDHOOD EDUCATION
Introduction to service-learning mentoring through a campus wide mentoring initiative designed to encourage under-represented, low-income, first generation, and diverse 5th through 12th grade students to graduate from high school and consider post-secondary education.
Prerequisite: None

CCB 010 CCB Orientation (1-3)
BASIC EDUCATION FOR ADULTS
A learner-focused course designed to orient students to the College and Career Bridge/High School Completion program and other resources and services; to appraise students' current abilities, characteristics, backgrounds, and interests; and to help students set long-term and short-term goals and create a plan of action to meet those goals.
Prerequisite: None

CCB 011 I-BEST Orientation (1-5)
BASIC EDUCATION FOR ADULTS
A learner-focused course designed to orient students to the I-BEST and Professional/Technical certificate and degree programs; resources and services; to appraise students' current abilities, characteristics, backgrounds, and interests; and to help students set long-term and short-term goals and create a plan of action to meet those goals.
Prerequisite: none

CCB 020 CCB Special Topics (1-10)
BASIC EDUCATION FOR ADULTS
Special topics related to high school equivalency preparation and/or college and career transition. May include contextualized content along with improvement in or application of reading, writing, or math skills.
Prerequisite: none

CCB 022 CCB General Instruction (1-10)
BASIC EDUCATION FOR ADULTS
Improve basic skills in reading, writing, and/or math toward completion of high school equivalency and/or preparation for entry into college coursework. Course work may be contextualize in social science, science, or humanities topics.
Prerequisite: none

CCB 024 CCB Computer Basics (1-10)
BASIC EDUCATION FOR ADULTS
Introduction to basic computer skills for CCB or High School Completion students who are novice computer users. Through a hands-on approach, understand common computer terms, develop navigation skills with the keyboard and mouse, manage electronic files, send and receive email, locate information on the World Wide Web, and explore e-learning tools. Basic reading and writing will be taught in the context of using a personal computer.
Prerequisite: none.

CCB 025 CCB Digital Literacy (1-5)
BASIC EDUCATION FOR ADULTS
This course covers skills and knowledge needed to effectively use technology for college and career success.
Prerequisite: None

CCB 031 CCB Literacy and Math I (1-16)
BASIC EDUCATION FOR ADULTS
First in a series of three courses in which students improve critical thinking, reading, writing, oral communication, and math skills to prepare for entry into high school completion and/or transition to college or employment.
Prerequisite: None

CCB 032 CCB Literacy and Math II (1-16)
BASIC EDUCATION FOR ADULTS
Second in a series of three courses in which students improve critical thinking, reading, writing, oral communication, and math skills to prepare for entry into high school completion and/or transition to college or employment.
Prerequisite: None

CCB 033 CCB Literacy and Math III (1-16)
BASIC EDUCATION FOR ADULTS
Third course in a series to improve academic confidence through mastering critical thinking, writing, and reading skills in order to prepare for completion of HS21+ or GED and/or transition to college coursework. May be contextualized within social science, humanities, or science content areas or topics.
Prerequisite: none

CCB 041 CCB Basic Math (1-10)
BASIC EDUCATION FOR ADULTS
A beginning mathematics course designed to establish a solid mathematical foundation. Topics include operations using whole numbers, decimals, and fractions; determining place-value, and order of operations; calculations using ratios and proportions.
Prerequisite: CASAS math score 204-220 or placement based on HS transcripts.

CCB 042 CCB Pre-Algebra (1-10)
BASIC EDUCATION FOR ADULTS
A course designed to prepare students for entry into Math 97 or WMath 100. Emphasis on strengthening basic arithmetic skills, analyzing data, computing with integers, and using basic algebra equations to solve applied proportion, percent, and geometry problems.
Prerequisite: CCB 041 OR CCBS 041 or CASAS Math Goals score of 221-235 or placement based on HS transcripts.

CCB 043 CCB Beginning Algebra (1-10)
BASIC EDUCATION FOR ADULTS
A non-transfer credit beginning course in algebra, building on topics introduced in ABE 042. Topics include algebraic expressions, solving linear equations and inequalities, graphing linear equations, solving systems of linear equations and inequalities, mathematical modeling, and functions.
Prerequisite: CCB 042 or CASAS Goals Math 226-235 or placement based on HS transcripts.

CCB 046 Financial Literacy (2)
BASIC EDUCATION FOR ADULTS
This course covers topics in financial literacy and personal finances.
Prerequisite: Students must be co-enrolled in at least one other CCB/HSC/ELA course to enroll

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CCB 050 College Prep Seminar (1-3)
BASIC EDUCATION FOR ADULTS
Course will focus on providing students transitioning into college and career programs with an orientation to college resources and labor market information to assist them in making an informed decision in choosing a career pathway.
Prerequisite: Concurrent Enrollment in CCB 054 OR advisor permission.

CCB 051 Academic Skills Lab (1-5)
BASIC EDUCATION FOR ADULTS
Students receive support and tutoring in academic skills including writing, math, and reading for coursework assigned in CCB, ELA, On Ramp, HS21+, or I-BEST classes.
Prerequisite: none

CCB 060 GED Prep Social Studies and Language Arts (1-16)
BASIC EDUCATION FOR ADULTS
Students work toward knowledge and competencies required to pass GED exams in one or more subject areas.
Prerequisite: CASAS GOALS Reading Score 243+; (or Accuplacer Reading Next Gen 237+). Prerequisite/Corequisite: Concurrent enrollment in either HSC 018 or ELA 018, or HSC 018 or ELA 018 with a "D" or higher.

CCB 062 GED Prep Math and Science (1-7)
BASIC EDUCATION FOR ADULTS
Students work toward knowledge and competencies required to pass GED exams in one or more subject areas.
Prerequisite: CCB 041 with a "C" or higher (or CASAS Math score 221+ or Accuplacer Arithmetic 237+) Prerequisite/Corequisite: Concurrent enrollment in either HSC 018 or ELA 018 or HSC 018 or ELA 018 with a "D" or higher.

CCB 063 GED Prep (7)
BASIC EDUCATION FOR ADULTS
Students work toward knowledge and competencies required to pass GED exams in one or more subject areas.
Prerequisite: None

CCB 064 CCB Grammar I (1-3)
BASIC EDUCATION FOR ADULTS
This course provides an introduction to topics in English grammar.
Prerequisite: Placement into ELA 014 or above.

CCB 065 CCB Grammar II (1-3)
BASIC EDUCATION FOR ADULTS
This course covers topics in English grammar.
Prerequisite: Placement in ELA 014 or above.

CCB 066 CCB Grammar III (1-3)
BASIC EDUCATION FOR ADULTS
This course covers topics in English grammar and punctuation.
Prerequisite: Placement in ELA 014 or above.

CCB 087 Elementary Algebra (5)
BASIC EDUCATION FOR ADULTS
This is a beginning course in algebra. Topics include: algebraic expressions; linear equations and inequalities; systems of linear equations and inequalities; and an introduction to polynomials and factoring.
Prerequisite: MATH 096 or CCB 42 with a "C" or higher (or placement into CCB42/MATH 097/WMATH 100).

CCB 089 Intermediate Algebra (5)
BASIC EDUCATION FOR ADULTS
This course builds on topics from Math 97. Topics include: an introduction to polynomials and factoring; quadratic, rational, radical, exponential, and logarithmic functions and equations; complex numbers; composite and inverse functions; distance formula and circles.
Prerequisite: CCB 87 or ODHS 87 or MATH 97 with a grade of C or higher, or appropriate math placement score.

CCB 095 Transitional Reading and Writing (1-10)
BASIC EDUCATION FOR ADULTS
Examine habits, attitudes, and thought processes that lead to academic and professional success. Improve academic confidence through building critical thinking, writing, and reading skills, as well as digital literacy.
Prerequisite: CASAS Reading GOALS score of 217-227 or instructor permission

CCB 096 English Foundations (5)
BASIC EDUCATION FOR ADULTS
For High School Completion students who have not taken and passed any high school English courses. This course covers grammar, writing, and communication skills in fulfillment of the English 1 and 2 requirements for the high school diploma.
Prerequisite: CASAS Reading score 228-242 AND completion of / co-enrollment in HSC 018.

CCB 097 College Prep English (1-10)
BASIC EDUCATION FOR ADULTS
Improve academic skills and confidence through mastering critical thinking, writing, and reading skills. Identify and implement habits, attitudes, and thought processes that lead to academic and professional success.
Prerequisite: CASAS Reading GOALS Score 243-262 OR passing grade in CCB 096. Students enrolling in this course should possess typing and computer skills.

CCB 099 Academic Skills (1-10)
BASIC EDUCATION FOR ADULTS
Develop fundamental reading, writing, and/or math skills needed for success in discipline-based I-BEST course through contextualized instruction.
Prerequisite: Co-enrollment in appropriate content course.

CCBS 024 Computer Basics (3)
BASIC EDUCATION FOR ADULTS
Introduction to basic computer skills taught in Spanish for CCB or HSC students who are novice computer users. Through a hands-on approach, understand common computer terms, develop navigation skills with the keyboard and mouse, manage electronic files, send and receive email, locate information on the worldwide web, and explore e-learning tools. Basic reading and writing will be taught in the context of using a personal computer.

CCBS 025 Digital Literacy (3)
BASIC EDUCATION FOR ADULTS
This course covers skills and knowledge needed to effectively use technology for college and career success.

CCBS 041 CCB Basic Math (5)
BASIC EDUCATION FOR ADULTS
A beginning mathematics course designed to establish a solid mathematical foundation. Topics include operations using whole numbers, decimals, and fractions; determining place-value, and order of operations; calculations using ratios and proportions. Instruction offered in Spanish
Prerequisite: CASAS math score 204-220 or placement based on HS transcripts.

CCBS 044 Introduction to Geometry and Math Literacy (5)
BASIC EDUCATION FOR ADULTS
Students will review and apply basic math skills while exploring topics in geometry. Instruction offered in Spanish.

CCBS 070 GED Prep Social Studies and Language Arts (7)
BASIC EDUCATION FOR ADULTS
Students work towards knowledge and competencies required to pass GED exams in Social Studies and Language Arts. Instruction offered in Spanish.
Prerequisite: Basic computer and typing skills OR CCB 024 or CCBS 024 with a C or better.

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CCBS 072 GED Prep Math and Science (3)
BASIC EDUCATION FOR ADULTS
Students work toward knowledge and competencies required to pass GED exams in Math and Science. Instruction offered in Spanish.
Prerequisite: CCB 041 with a C or higher OR CCBS 044 with a C or higher, OR CASAS Math score 221+ OR Accuplacer Arithmetic 237+.

Prerequisite: Co-enrollment in appropriate content course.

CHEM& 100 Preparatory Chemistry (5)
NATURAL SCIENCES
Chemistry introduction for those who need background before CHEM& 121. Introduces chemical symbols and nomenclature, equations, states of mater, bonding, energy, and dimensional analysis.
Prerequisite: Either placement into OR co-enrollment in OR completion of a college-level Math course with a grade of "C" or higher.

CHEM& 105 Chemical Concepts (5)
NATURAL SCIENCES
A survey course for non-science majors. Fundamental concepts of chemistry will include atoms and molecules, states of matter, chemical reactions, and topics of current interest.
Prerequisite: ENGL 099 with a grade of "C" or higher (or placement into college-level English); and either placement into OR co-enrollment in OR completion of a college-level Math course with a grade of "C" or higher.

CHEM& 110 Chemical Concepts with Lab (5)
NATURAL SCIENCES
An inquiry-based survey of the basic concepts in chemistry for non-science majors. Topics covered include scientific method, structure of matter, states of matter, chemical bonding, chemical reactions, nuclear chemistry, topics of current interest, and philosophy of science. LAB INCLUDED, lab fee required. DOES NOT SATISFY CHEMISTRY REQUIREMENTS FOR BIOL& 160.
Prerequisite: ENGL 099 with a grade of "C" or higher (or placement into college-level English); and either placement into OR co-enrollment in OR completion of a college-level Math course with a grade of "C" or higher.

CHEM& 121 Introduction to Chemistry (5)
NATURAL SCIENCES
Introductory course for non-science majors, nursing, and environmental science students. Includes the nature of atoms and molecules, chemical notation, scientific reasoning, and problem solving in the study of the theory and applications of inorganic chemistry. Not recommended for students continuing chemistry beyond CHEM& 131. Lab included.
Prerequisite: ENGL 099 with a grade of "C" or higher (or placement into college-level English); and placement into college-level Math. Students who do not meet the prerequisite should enroll in the IBEST section of the course.

CHEM& 122 Introduction to Organic Chemistry (5)
NATURAL SCIENCES
Structure and properties of organic compounds: hydrocarbons, alcohols, ethers, aldehydes, ketones, carboxylic acids, esters, amines, amides, and carbohydrates.
Prerequisite: CHEM& 121 with a grade of "C" or higher; and placement into college-level Math.

CHEM& 123 Introduction to Biochemistry (5)
NATURAL SCIENCES
Lipids, proteins, enzymes, bioenergetics, carbohydrate, lipid, and protein metabolism; biosynthetic pathways; nucleic acids and protein synthesis; chemical communication; body fluids; nutrition; and digestion.
Prerequisite: CHEM& 121 with a grade of "C" or higher; and placement into college-level Math.

CHEM& 131 Introduction to Organic/Biochemistry (5)
NATURAL SCIENCES
One-quarter course of organic chemistry and biochemistry for non-science majors, nursing, and environmental science students. Includes study of structure, nomenclature, and reactions of organic and biological compounds. Applications to living systems. Not recommended for students continuing chemistry beyond CHEM& 131. Lab included.
Prerequisite: ENGL 099 with a grade of "C" or higher (or placement into college-level English); and either placement into OR co-enrollment in OR completion of a college-level Math course with a grade of "C" or higher; and either CHEM& 121 or CHEM& 161 with a grade of "C" or higher.

CHEM& 141 General Chemistry I (4)
NATURAL SCIENCES
For programs requiring strong backgrounds in chemistry. Scientific method, Atomic theory, quantum theory, periodic relationships, chemical bonding, molecular geometry, stoichiometry, and reactions in aqueous solution.
Prerequisite: ENGL 099 with a grade of "C" or higher (or placement into college-level English); and MATH& 141 with a grade of "C" or higher (or concurrent enrollment); and CHEM& 151 with a grade of "C" or higher (or concurrent enrollment).

CHEM& 142 General Chemistry II (4)
NATURAL SCIENCES
A continuation of CHEM& 141. Properties of solutions, thermodynamics, gases, liquids and solids, entropy and energy, chemical equilibrium.
Prerequisite: ENGL& 101 with a grade of "C" or higher (or concurrent enrollment); and MATH& 141 with a grade of "C" or higher (or placement into MATH& 142); and CHEM& 141 with a grade of "C" or higher; and CHEM& 152 with a grade of "C" or higher (or concurrent enrollment).

CHEM& 143 General Chemistry III (4)
NATURAL SCIENCES
A continuation of CHEM& 142. Acids and bases, acid-base and solubility equilibria, electrochemistry, kinetics.
Prerequisite: ENGL& 101; and MATH& 141; and CHEM& 142; all courses with a grade of "C" or higher; and CHEM& 153 with a grade of "C" or higher (or concurrent enrollment).

CHEM& 151 General Chemistry Lab I (4)
NATURAL SCIENCES
Lab activities to accompany CHEM& 141. Scientific method, Atomic theory, quantum theory, periodic relationships, chemical bonding, molecular geometry, stoichiometry, and reactions in aqueous solution. Lab Fee.
Prerequisite: ENGL 099 with a grade of "C" or higher (or placement into college-level English); and MATH& 141 with a grade of "C" or higher (or concurrent enrollment); and CHEM& 141 with a grade of "C" or higher (or concurrent enrollment).

CHEM& 152 General Chemistry Lab II (4)
NATURAL SCIENCES
Labs to accompany CHEM& 142. Gases, thermochemistry, intermolecular forces, liquids and solids, properties of solutions, kinetics, and equilibrium.
Prerequisite: ENGL& 101 with a grade of "C" or higher (or concurrent enrollment); and MATH& 141 with a grade of "C" or higher; and CHEM and 151 with a grade of "C" or higher. AND Co-requisite: CHEM& 142 with a grade of "C" or higher (or concurrent enrollment).

CHEM& 153 General Chemistry Lab III (4)
NATURAL SCIENCES
A continuation of CHEM& 152. Acids and bases, acid-base and solubility equilibria, entropy and free energy, electrochemistry.
Prerequisite: ENGL& 101; and MATH& 141; and CHEM& 152; all courses with a grade of "C" or higher; and CHEM& 143 with a grade of "C" or higher (or concurrent enrollment).

CHEM& 161 General Chemistry w/Lab I (5)
NATURAL SCIENCES
Course Abstract: For programs requiring strong backgrounds in chemistry. Scientific method, Atomic theory, quantum theory, periodic relationships, chemical bonding, molecular geometry, stoichiometry, and reactions in aqueous solution.
Prerequisite: ENGL 099 with a grade of "C" or higher (or placement into college-level English); and MATH& 141 with a grade of "C" or higher (or concurrent enrollment); and either CHEM& 105; OR CHEM& 121; OR high school Chemistry within the past 5 years is CHEM& 105 or 121 or high school chemistry within the past 5 years is strongly recommended.

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CHEM& 162 General Chemistry w/Lab II (5)
NATURAL SCIENCES
A continuation of CHEM& 161. Properties of solutions, thermodynamics, gases, liquids and solids, entropy and energy, chemical equilibrium.
Prerequisite: ENGL 099 with a grade of "C" or higher (or placement into college-level English); and MATH& 141 with a grade of "C" or higher (or placement into MATH& 142); and CHEM& 161 with a grade of "C" or higher.

CHEM& 163 General Chemistry w/Lab III (5)
NATURAL SCIENCES
A continuation of CHEM& 162. Acids and bases, acid-base and solubility equilibria, electrochemistry, kinetics.
Prerequisite: Both ENGL& 101 and CHEM& 162 with a grade of "C" or higher.

CHEM 199 Cooperative Education (1-15)
NATURAL SCIENCES
Supervised work experience in the field. Includes a weekly seminar. Instructor permission required.
Prerequisite: None

CHEM& 241 Organic Chemistry I (4)
NATURAL SCIENCES
For students majoring in chemistry or biology, or pursuing graduate degrees in medicine or pharmacy. Acid base chemistry, alkanes, stereochemistry, mechanisms, substitution reactions, alkene preparation and reactions, alkyne preparation and reactions.
Prerequisite: CHEM& 163 with a grade of "C" or higher (or concurrent enrollment).

CHEM& 242 Organic Chemistry II (4)
NATURAL SCIENCES
A continuation of CHEM& 241. For students majoring in chemistry or biology, or pursuing graduate degrees in medicine or pharmacy. Radical reactions, infrared and nuclear magnetic resonance spectroscopy, mass spectrometry, preparation and reactions of alcohols, ethers, and epoxides, conjugated systems and pericyclic reactions, aromaticity and aromatic substitution reactions.
Prerequisite: Both CHEM& 163 and CHEM& 241 with a grade of "C" or higher.

CHEM& 243 Organic Chemistry III (3)
NATURAL SCIENCES
A continuation of CHEM& 242. For students majoring in chemistry or biology, or pursuing graduate degrees in medicine or pharmacy. Preparation and reactions of aldehydes, ketones, carboxylic acids and their derivatives, and amines, alpha carbon chemistry, and synthetic polymers.
Prerequisite: CHEM& 242 with a grade of "C" or higher.

CHEM& 251 Organic Chemistry Lab I (2)
NATURAL SCIENCES
Techniques of organic chemistry, including reactions, separations, syntheses, and spectroscopy.
Prerequisite: CHEM& 242 with a grade of "C" or higher (or concurrent enrollment).

CHEM& 252 Organic Chemistry Lab II (2)
NATURAL SCIENCES
A continuation of CHEM& 251
Prerequisite: Both CHEM& 242 and CHEM& 251 with a grade of "C" or higher.

CHEM 295 Chemistry Integrative Experience Seminar (2)
NATURAL SCIENCES
An Integrative Experience emphasizing an interdisciplinary approach to current issues in chemistry, including the societal context of chemistry and technology, and/or the ethical, political, and cultural aspects of chemistry.
Prerequisite: None

CHEM 299 Learning into Action (1-15)
NATURAL SCIENCES
Student develops and completes curriculum-related independent project that demonstrates skills and abilities and explores career options. May include, but is not limited to, service learning, original research, and travel abroad. Faculty sponsor approval required. Students with 45 transferable college credits are eligible to begin Learning into Action.
Prerequisite: None

CHEM 301 Chemistry for Environmental Conservation (5.5)
NATURAL SCIENCES
For the Bachelor of Applied Science Environmental Conservation program. Reactions in aqueous solution, equilibrium, acids and bases, acid-base and solubility equilibria, and electrochemistry. Lab included.
Prerequisite: CHEM& 121 with a grade of "C" or higher.

CMPST 121 Composites Construction and Repair (3)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION
Introduction to fiberglass reinforced plastics with emphasis on chemical safety applicable to poly and vinyl ester resins, solvents, and epoxies. Hands-on training in use of molds, gel coats, release agents, resins, cosmetic color matching and reinforcing materials in hand layup and structural repair.
Prerequisite: None

CMPST 123 Composite Vacuum Infusion/Light RTM Process (5)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION
Introduction to vacuum infused plastics. Training in infusion reinforcements, core identification, infusion equipment usage, manifold systems both flow and feed, flow media, bag building, peel ply installation, resin building and infusion techniques employing reusable B side molds. Training in silicone bag building and their usage along with development of rigid B side molds and their usage in Light Resin Transfer Method.
Prerequisite: CMPST 121 with a "C-" or higher.

CMPST 127 Advanced Composites Construction and Repair (5)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION
Introduction to composite manufacturing and repair of windblades with emphasis on thermoset prepreg technology. Hands on training in manufacturing and repair using VIP/Vacuum Bagging with proper bleeder schedules, hot-bond repairs/heat blankets, and damage inspection repair techniques. Includes preparation for American Composites Manufacturer's Association (ACMA) Wind Blade Construction and Repair certification exam.
Prerequisite: CMPST 123 with a "C-" or higher.

CMPST 128 Composites Windblade Construction and Repair (5)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION
Introduction to composite manufacturing and repair of windblades with emphasis on thermoset prepreg technology. Hands on training in manufacturing and repair using VIP/Vacuum Bagging with proper bleeder schedules, hot-bond repairs/heat blankets, and damage inspection repair techniques. Includes preparation for American Composites Manufacturer's Association (ACMA) wind blade construction and repair certification exam.
Prerequisite: CMPST 121 and 123 with a "C-" or higher.

CMPST 129 Introduction to Nondestructive Testing (3)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION
Introduction to nondestructive testing (NDT), nondestructive inspection (NDI), and inspection of fiber reinforced plastics using ultrasonic testing techniques. Includes basic principles of acoustics, equipment, test techniques, calibration, straight and angle beam procedures. Prepares students for NDT/NDI testing for qualification and certification.
Prerequisite: None

CMPST 130 Recycling Composites (4)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION
Overview of methods, ideas and concepts for reclamation. Focuses on the recycling of composite material and highlights of waste stream reduction and recycling. Includes the challenges of composites recy-

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cling, methods of recycling composites and an opportunity to recycle composite parts or use recycled composite materials to build new composite parts.
Prerequisite: None

CMPST 220 Composite Tooling (5)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION
Theory and application of tooling for the composite industry using various forms of medium. In-depth study and hands-on work building both A and rigid B molds using both manual and computer aided development for plug construction.
Prerequisite: CMPST 121, or concurrent enrollment, and 123 or instructor permission.

CMST 100 Speech and Performance Anxiety Management (1-2)
HUMANITIES
Supports students/professionals who experience moderate to severe anxiety in public and/or group presentation, performance, and/or academic situations by introducing and practicing anxiety management techniques. May be taken prior to or concurrently with communication studies, speech intensive, or other academic courses or professional speech activities.
Prerequisite: None

CMST& 102 Introduction to Mass Media (5)
HUMANITIES
A survey of the media of mass communications, including newspapers, magazines, radio, TV, motion pictures, and electronic media, with an emphasis on function, structure, content, and social and cultural effects.
Prerequisite: ENGL 099 with a "C" or higher (or placement into ENGL& 101).

CMST 105 Multicultural Communication: D (5)
HUMANITIES
Explores cultural differences in communication styles and thought through the study of American ethnic, gender, and other groups, and the practice of effective intercultural communication strategies in various leadership roles and communication contexts.
Prerequisite: ENGL 099 with a "C" or higher (or placement into ENGL& 101).

CMST 122 English Pronunciation (1)
HUMANITIES
An English pronunciation course with an emphasis on articulation, intonation, regional dialects, and communicative norms.
Prerequisite: None

CMST 125 Professional Communication: D (3)
HUMANITIES
Stresses theory and practice of interpersonal, group, and public speaking skills for the workplace. Topics include problem-solving, leadership, speech preparation, and analysis of effective language, nonverbal behavior, listening, and conflict styles.
Prerequisite: None

CMST 141 Oral Interpretation of Literature (5)
HUMANITIES
Stresses analysis of literature and its vocal and visual performance before an audience. Explores relationships between literary text, author, performer, and audience as well as delivery techniques. May focus on one or more literary genres.
Prerequisite: ENGL 099 with a "C" or higher (or placement into ENGL& 101).

CMST 201 Communication Theory (5)
HUMANITIES
Survey of theories and concepts in communication ranging from intrapersonal to interpersonal, small group, organizational, public, mass, and/or intercultural communication. Highly recommended for speech/communication majors/minors.
Prerequisite: ENGL& 101 with a "C" or higher.

CMST 205 Intercultural Communication: D (5)
HUMANITIES
A comparative study of cultural perspectives, communication styles, relationships, and customs. May include analysis of and participation in cross-cultural interactions.
Prerequisite: ENGL 099 with a "C" or higher (or placement into ENGL& 101).

CMST& 210 Interpersonal Communication: D (5)
HUMANITIES
Uses theory and practice to develop self-awareness, confidence, and skill in communicating effectively, building healthy relationships with others, and managing conflict. Explores the impact of self-concept, perception, language, emotions, and nonverbal behavior on communication.
Prerequisite: Grade of 2.0 or higher in ENGL 097, or AESL 098, or appropriate test score.

CMST 211 Interpersonal Communication II (1-3)
HUMANITIES
A review of research and theory in the study of interpersonal communication.
Prerequisite: CMST 210 with a "D" or higher.

CMST& 220 Public Speaking (5)
HUMANITIES
Provides students with theory and practice in preparing organized, goal-specific speeches, presenting them confidently before an audience, and analyzing components of the public speaking process. Meets AA-DTA communications requirements. Highly recommended for students planning to major in education or business at transfer colleges and universities.
Prerequisite: ENGL& 101 with a "C" or higher.

CMST& 230 Small Group Communication: D (1-5)
HUMANITIES
A survey class that explores the basic principles and techniques of effective small group discussion. Emphasizes the relationship of discussion to the communication process, critical thinking, problem solving, conflict management, leadership, group development, and role behaviors. Meets DTA communication requirement.
Prerequisite: ENGL 099 with a "C" or higher (or placement into ENGL& 101).

CMST 295 Communications Studies Integrative Experience Seminar (2)
HUMANITIES
An Integrative Experience emphasizing an interdisciplinary approach to current issues in communications studies, including the societal context of communications studies and technology, and/or the ethical, political, and cultural aspects of communications studies.
Prerequisite: ENGL& 101 with a "C" or higher.

CMST 299 Learning Into Action (1-15)
HUMANITIES
Student develops and completes curriculum-related independent project which demonstrates skills and abilities and explores career options. May include, but is not limited to, service learning, original research, and travel abroad. Faculty sponsor approval required. Students with 45 transferable college credits are eligible to begin Learning into Action.
Prerequisite: None

CMST 303 Communication in Natural Resources (3)
HUMANITIES
This course provides an overview of communication processes involved in small group interactions and collaborative decision making related to natural resources and natural resource management. It focuses on applications of group dynamics, decision making, problem solving, and conflict resolution.
Prerequisite: Admission to BASEC or Department Chair permission.

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CMST 413 Leadership Development in Natural Resources (2)
HUMANITIES
This course is designed to provide organizational management theory, communication and team building skills to strengthen leadership development in the field of natural resource management.
Prerequisite: Admission to BASEC or Department Chair permission.

CS 101 Computers, Technology, and Society (5)
SCIENCE, TECHNOLOGY, ENGINEERING, AND MATH
An overview of essential computer and digital technologies impacting society today. Analysis of the history, political events, social impacts and ethical issues surrounding computer technology. Includes an introduction to computer concepts, wireless technologies, security issues, and other current trends. Students will also work hands-on with the Internet, communication software, and typical applications available in a modern Windows environment.
Prerequisite: ENGL 097 or EAP 098 with a grade of "C" or higher (or placement into ENGL 098).

CS 110 Introduction to Computer Science (5)
SCIENCE, TECHNOLOGY, ENGINEERING, AND MATH
Introduces fundamental concepts of computer science and computational thinking. Includes introduction to logical reasoning, procedural decomposition, conditionals, iteration, problem solving, and abstraction.
Prerequisite: MATH 099 or placement into MATH 099 with a C or higher.

CS 142 Java Programming I (5)
SCIENCE, TECHNOLOGY, ENGINEERING, AND MATH
The Java programming language is used for applying basic programming-in-the-small abilities and concepts including algorithms, problem solving techniques, procedural programming (methods, parameters, return, values), basic control structures (sequence, if/else, for loop, while loop), file processing, arrays, and an introduction to defining objects. Intended for students without prior programming experience, but who are seriously considering majoring in Computer Science or related field.
Prerequisite: MATH 099 with a grade of "C" or higher (or placement into MATH& 141).

CS 143 Java Programming II (5)
SCIENCE, TECHNOLOGY, ENGINEERING, AND MATH
This course is a continuation of CS 142. The successful student will be able to read and write Java code containing recursion and abstract data types (ADTs) such as stacks, queues, linked lists, binary trees, lists, sets and maps. Students will utilize OOP concepts such as encapsulation, inheritance, interfaces and polymorphism while implementing data structures themselves, or using components from the Java Collections Framework.
Prerequisite: CS 142 with a grade of "C" or higher; and either MATH 099 with a grade of "C" or higher (or placement into MATH& 141).

CS 210 C++ Programming I (5)
SCIENCE, TECHNOLOGY, ENGINEERING, AND MATH
The C++ programming language is used for applying basic programming-in-the-small abilities and concepts including algorithms, problem solving techniques, procedural programming (functions, parameters, return, values), basic control structures (sequence, if/else, for loop, while loop), file processing, arrays, and an introduction to defining objects. Intended for students without prior programming experience, but who are seriously considering majoring in Computer Science or related field.
Prerequisite: MATH 099 with a grade of "C" or higher (or placement into MATH& 141).

CS 211 C++ Programming II (5)
SCIENCE, TECHNOLOGY, ENGINEERING, AND MATH
This course is a continuation of CS 210. The successful student will be able to read and write C++ code containing recursion and abstract data types (ADTs) such as stacks, queues, linked lists, binary trees, lists, sets and maps. Students will utilize OOP concepts such as encapsulation, inheritance and polymorphism while implementing data structures themselves, or using components from the Standard Template Library.
Prerequisite: S 210 with a grade of "C" or higher; and either MATH 099 with a grade of "C" or higher (or placement into MATH& 141).

CS 222 Computing, Data, and Society (5)
SCIENCE, TECHNOLOGY, ENGINEERING, AND MATH
Exploration of the use and impact of technology on society including artificial intelligence, algorithmic bias, social media, mass data collection and the spread of disinformation. Topics include privacy, spying, mass personalization and copyright.
Prerequisite: ENGL& 101 with a C or higher.

CS 300 Discrete Math for Software Development (5)
SCIENCE, TECHNOLOGY, ENGINEERING, AND MATH
Explore topics important to the area of application development including symbolic logic, study of proofs, functions, relations, set theory, Boolean algebra including de Morgans Laws, logic and counting techniques including permutations and combination.
Prerequisite: SDEV Department Chair permission.

CS 310 Data Structures and Algorithms (5)
SCIENCE, TECHNOLOGY, ENGINEERING, AND MATH
Introduction to fundamental data structures and the algorithms and applications important to problem solving in application development. Includes topics such as linked lists, stacks, queues, binary and multiway trees, hash tables, graphs, heaps, internal and external sorting, logic, sets and set operations and functions.
Prerequisites: SDEV Dept. Chair permission.

CS 315 Database Modeling and Design (5)
SCIENCE, TECHNOLOGY, ENGINEERING, AND MATH
Explore how to operate a relational database, understand key value stores, and use simple database programming using real world data examples.
Prerequisite: SDEV Dept. Chair permission.

CS 350 Operating Systems (5)
SCIENCE, TECHNOLOGY, ENGINEERING, AND MATH
Introduction of the main functional components of a modern, general purpose operating system. Including the process management memory management, threads, event driven programming and I/O subsystems.
Prerequisite: SDEV Dept. Chair permission.

CS 375 Programming and Data Analysis for Managers (5)
SCIENCE, TECHNOLOGY, ENGINEERING, AND MATH
Explore critical concepts and skills in computer programming and statistical inference, in conjunction with hands-on analysis of real-world datasets, including economic data and geographic data, document collections, and social networks. Investigate the workplace implications of ethical and social issues surrounding data analysis including bias and privacy.
Prerequisite: BASM Dept. Chair permission.

CSS 100 College Success Skills I (1-3)
BASIC EDUCATION FOR ADULTS
Learning skills necessary to achieve success in college courses. Topics include time management, note taking, reading comprehension, memory enhancement, test taking techniques, and locating resources.
Prerequisite: None

CSS 101 College Success Skills II (2)
BASIC EDUCATION FOR ADULTS
Review and expansion of skills learned in College Success Skills I. Study of critical thinking and its application to reading, writing, verbal expression, and the media.
Prerequisite: None

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CSS 102 College Success Skills III: Future Tense (2)
BASIC EDUCATION FOR ADULTS
An overview of information and skills helpful in successfully completing a Bachelor's degree; college selection, applications, selecting a major, financing college tuition, understanding degree requirements and coping with change.
Prerequisite: None

CSS 103 First Quarter Experience (2)
BASIC EDUCATION FOR ADULTS
An orientation to college life and specific resources to succeed in attaining educational goals. Topics include: identifying interests and occupational choices, engaging in "college knowledge" and planning for financing college costs and a degree timeline.
Prerequisite: None

CSS 104 College Success Skills for Online Learning (1-3)
BASIC EDUCATION FOR ADULTS
Introduction to the basic skills necessary to successfully complete an online/e-learning class. Intended for students new to online/e-learning classes.
Prerequisite: None

CSS 106 Fast Track for Success (2)
BASIC EDUCATION FOR ADULTS
Designed for new students, this course will address the learning skills necessary to achieve success in college. Topics include: time management, note taking, memory enhancement, test-taking techniques, and locating college and community resources. Additionally, this course examines values, skills, interests, career paths, and educational goals.
Prerequisite: None

CSS 107 Career Exploration (2)
BASIC EDUCATION FOR ADULTS
Students will look at values, skills, interests, and goals; identify occupational resources; explore the world of work; and develop a plan for action.
Prerequisite: None

CSS 109 - First Quarter Experience - Career emphasis (3)
Develop skills necessary to navigate SVC and to find a viable career pathway. Topics include locating campus resources, creating an academic plan of classes, planning for financing college costs, as well as personality types, Interests and values as they relate to choosing a career pathway.
Prerequisite: None

CSS 110 College Orientation and Success (4)
BASIC EDUCATION FOR ADULTS
Skills necessary to navigate SVC and to achieve success in college level courses. Topics include time management, note-taking, reading comprehension, memory enhancement, test-taking techniques, locating campus resources, identifying interests and occupational choices, creating an academic plan of classes, and planning for financing college costs.
MEETS FQE requirement for degree seeking students
Prerequisite: None

CSS 120 Computer Tutorial Seminar (2)
BASIC EDUCATION FOR ADULTS
Introduction to the basic computer skills necessary for college success. Topics include: Microsoft Windows operating system, email, searching the Internet, the online learning platform Blackboard, and MS Word.
Prerequisite: None

CUL 101 Sustainable Food System Practices (3)
FOOD AND BEVERAGE MANAGEMENT
Introduction to sustainability as it pertains to culinary arts and kitchen management. Visit local growers and businesses that have applied sustainable practices. Includes discussions concerning current food issues such as global hunger, genetically modified foods, and other food supply issues.
Prerequisite: None

CUL 111 Culinary Math (5)
FOOD AND BEVERAGE MANAGEMENT
Emphasis is on applied math for the culinarian. Meets the requirement for WMATH 100 for culinary students.
Prerequisite: MATH 096 with a "C" or higher.

CUL 123 Safety and Sanitation (3)
FOOD AND BEVERAGE MANAGEMENT
Applied food service sanitation and safety for the food service professional. This course provides students with understanding and practice of the principles of sanitation in order to maintain a safe and healthy environment for the consumer in the food service industry. Laws and regulations related to current FDA food codes and adherence to them in the food service operation are addressed. The National ServSafe Certificate is part of this course.
Prerequisite: CSS 103 with a "D" or higher or concurrent enrollment.

CUL 164 Baking Theory (3)
FOOD AND BEVERAGE MANAGEMENT
Theory and study of ingredients and techniques used in the professional bakery.
Prerequisite: None

CUL 165 Baking Lab (10)
FOOD AND BEVERAGE MANAGEMENT
Introduction to bakeshop principles and operation, to include an orientation to the bakeshop equipment, safety, and sanitation. Course covers the basic techniques of making cookies, quick breads, pies, cream fillings, cakes, icings, yeast breads, classic pastries and specialty desserts.
Prerequisite: None

CUL 170 Introduction to Culinary Arts (1)
FOOD AND BEVERAGE MANAGEMENT
Introduction and exploration of the Hospitality and Baking industry to include career exploration and industry trends.
Prerequisite: None.

CUL 171 Cooking Fundamentals (3)
FOOD AND BEVERAGE MANAGEMENT
Study and preparation of basic center plate items. Dry and wet cooking method application for meat, poultry, fish, shellfish and vegetables. Classical knife cuts, meat, poultry and fish fabrication.
Prerequisite: CUL 165 with a "C" or higher.

CUL 172 Stocks, Soups, and Sauces (3)
FOOD AND BEVERAGE MANAGEMENT
Study and preparation of basic stocks, variety of soups and classic and modern sauces.
Prerequisite: CUL 165 with a "C" or higher.

CUL 173 The Cold Kitchen (3)
FOOD AND BEVERAGE MANAGEMENT
Study and preparation of salads, salad dressings sandwiches, appetizers, dips, spreads and cured meats.
Prerequisite: Prerequisite: CUL 165 with a "C" or higher.

CUL 174 Food Identification and Preparation (3)
FOOD AND BEVERAGE MANAGEMENT
Basic cooking applications. Identification of tools and equipment, kitchen staples, stocks, soups, sauces and salads. Introduction to culinary history and identification of meat, fish, poultry, grains fruits and vegetables.
Prerequisite: CUL 164 with a "C" or higher.

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CUL 184 Remarkable Service (3)
FOOD AND BEVERAGE MANAGEMENT
Customer service and dining room etiquette, recipe yields, menu costing pricing and methods.
Prerequisite: CUL 174 with a "C" or higher.

CUL 185 American Regional Cuisines (10)
FOOD AND BEVERAGE MANAGEMENT
Introduction to food operations and food production, Ala carte and batch cookery. Food based on American Regional Cuisines. Overview of the roles and responsibilities of various restaurant styles, personnel and professionalism.
Prerequisite: CUL 170, 171, 172, 173 with a grade of C (2.0) or higher.

CUL 199 Cooperative Education Experience (1-5)
FOOD AND BEVERAGE MANAGEMENT
Supervised work experience in an approved job. Includes a weekly seminar.
Prerequisite: Instructor permission required.

CUL 210 Human Resources Management and Supervision (3)
FOOD AND BEVERAGE MANAGEMENT
Managing human resources and understanding the dynamics of leadership in the hospitality and restaurant industry.
Prerequisite: None

CUL 236 Controlling Foodservice Costs (3)
FOOD AND BEVERAGE MANAGEMENT
Analysis of food purchasing, receiving and production controls for foodservice professionals. Emphasis on applied math for the Culinary Arts. Forecasting, budgeting and controlling labor costs in various foodservice operations.
Prerequisite: CUL 111 with a "C" or higher.

CUL 237 Wine and Beverage Studies (3)
FOOD AND BEVERAGE MANAGEMENT
Beer, spirits and wine history, the making process and service. Introduction to sensory analysis of wine and food and wine paring.
Prerequisite: None

CUL 238 Garde Manger (3)
FOOD AND BEVERAGE MANAGEMENT
Theory and practice of garde manger principles. Charcuterie, cheese making, appetizer assembly, advanced garnishes and advanced sauce making.
Prerequisite: CUL 185 with a "C" or higher.

CUL 239 Chocolate, Sugar, and Fondant Cakes (3)
FOOD AND BEVERAGE MANAGEMENT
Theory and practice in the use of chocolate, sugar and fondant.
Prerequisite: CUL 164, 165, 170, 171, 172, 173, and 174 with a "C" or higher.

CUL 240 Bakery Sous Chef Lab (10)
FOOD AND BEVERAGE MANAGEMENT
Introduction to Restaurant/Bakery management(Station Assigned) to include menu development, food costing, purchasing, receiving, supervisory skills, marketing, sales, maintenance, sanitation scheduling, and food service accounting.
Prerequisite: CUL 164, 165, 170, 171, 172, 173, and 174 with a "C" or higher.

CUL 241 International Cuisines (10)
FOOD AND BEVERAGE MANAGEMENT
International Cuisine Ala carte cookery. Student operated restaurant. Overview of all roles and responsibilities in the restaurant and personnel and professionalism.
Prerequisite: CUL 185 with a "C" or higher.

CUL 242 Advanced Breads and Pastry (10)
FOOD AND BEVERAGE MANAGEMENT
Advanced baking and pastry skills with an emphasis on developing industry speed, professionalism, and presentation techniques.
Prerequisite: CUL 164, 165, 170, 171, 172, 173, and 174 with a "C" or higher.

CUL 264 Advanced Breads and Pastry Theory (3)
FOOD AND BEVERAGE MANAGEMENT
Theory and study of items produced in the bakeshop including breads, Viennoiserie, pastries, creams, cakes, chocolate, confections and decorative work for the advanced baking and pastry student.
Prerequisite: CUL 164 with a "C" or higher.

CUL 284 Food Business Concepts (3)
FOOD AND BEVERAGE MANAGEMENT
Navigates the logical progression from dream to reality, from concept to finding a market gap to managing and operating a restaurant. Provides a comprehensive picture of the restaurant business.
Prerequisite: CUL 184 with a "C" or higher.

CUL 297 Baking and Pastry Capstone Project (1)
FOOD AND BEVERAGE MANAGEMENT
Comprehensive performance and knowledge based assessment for completion of the Baking and Pastry emphasis program. Includes creating a project portfolio.
Prerequisite: Department chair permission.

CUL 298 Culinary Capstone Project (1)
FOOD AND BEVERAGE MANAGEMENT
Plan and present a 5-course meal. Menu development, cost control, safety and sanitation, management and all cooking and baking principles.
Prerequisite: Department chair permission.

DATA 101 Introduction to Data and its Application (5)
SCIENCE, TECHNOLOGY, ENGINEERING, AND MATH
Introduction to the field of data science, building skills in data analysis, visualization and organization using current application tools and learning applied skills in data fundamentals. Includes an introduction to non-relational data, and a preview of data science possibilities in the world of information management and related fields.
Prerequisite: None

DATA 105 Exploring Data Science and Technological Applications (5)
SCIENCE, TECHNOLOGY, ENGINEERING, AND MATH
Building on foundational skills in information management and data science, this course provides next-step introduction to more intermediate and advanced concepts and applied skills such as working with data analytics and data visualization. Hands-on experience in exploring data science tools in cloud computing environment is introduced.
Prerequisite: DATA 120 with a grade of C or higher.

DATA 110 Essentials of Cloud and Technological Ecosystems (5)
SCIENCE, TECHNOLOGY, ENGINEERING, AND MATH
Introduction to foundational-level cloud services industry concepts providing hands-on experience in solving problems by designing, operating, and implementing solutions using cloud services.
Prerequisite: None

DATA 120 Programming Fundamentals with Python (5)
SCIENCE, TECHNOLOGY, ENGINEERING, AND MATH
Introduction to designing, implementing, testing and debugging computer programs using an object-oriented language. Topics include functions, control structures, data structures, objects and classes.
Prerequisite: DATA 101 with a grade of C or higher.

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DATA 130 Introduction to Relational Databases and SQL (5)
SCIENCE, TECHNOLOGY, ENGINEERING, AND MATH
An introduction to relational database concepts and management systems. Topics include database design, data normalization, user interface, testing, and data manipulation using query by example and Structured Query Language (SQL).
Prerequisite: None

DATA 199 Community Contribution / Cooperative Education (Capstone I) (5)
SCIENCE, TECHNOLOGY, ENGINEERING, AND MATH
Cooperative Education is a work-based learning program that helps students to bridge the gap between classroom theory and practical work skills. Students will explore and secure their own work placements, which may be paid, or unpaid positions related to their field of study. Students will work on product ideation for an industry-based project. The student, faculty sponsor, employer and Co-op Ed Coordinator work closely together to ensure a successful learning experience.
Prerequisite: DATA 101, DATA 105, DATA 110, and DATA 120 with a grade of C or higher.

DATA 215 Big Data and Data Analytics (5)
SCIENCE, TECHNOLOGY, ENGINEERING, AND MATH
An introduction to designing, building, and securing big data solutions, including exploring data analytics solutions to get deeper insight into addressing business scenarios.
Prerequisite: DATA 105, DATA 110, and DATA 130 with a C or higher.

DATA 225 Business Intelligence and Predictive Analytics (5)
SCIENCE, TECHNOLOGY, ENGINEERING, AND MATH
Introduction to preparing data for PivotTables, creating Data Analysis Expressions (DAX) for calculated columns and measures, building a model from a single flat table, exploring the cloud benefits of business intelligence (BI) tools and features in modern information management technologies for making informed business decisions.
Prerequisite: DATA 101 and DATA 230 with a C or higher.

DATA 230 Advanced Relational Databases and SQL (5)
SCIENCE, TECHNOLOGY, ENGINEERING, AND MATH
Continuation of relational database concepts and database management systems.
Prerequisite: DATA 130 with a grade of C or higher.

DATA 235 Ethics and Law in Data and Analytics (5)
SCIENCE, TECHNOLOGY, ENGINEERING, AND MATH
An introduction to ethical and legal frameworks to initiatives in the data and related professions, including practical approaches to data and analytics problems posed by big data, data science, and concepts related to artificial intelligence.
Prerequisite: DATA 101 with a grade of C or higher.

DATA 240 Current Trends in Computing Futures (5)
SCIENCE, TECHNOLOGY, ENGINEERING, AND MATH
Learn to build and derive insights from data science using modern approaches. Introduction to machine learning concepts and how to use machine learning to prepare data for modeling including key concepts in data acquisition, preparation, exploration and visualization, and how to build a cloud data science solution using cloud computing services, R, and Python.
Prerequisite: None.

DATA 245 Data Security (5)
SCIENCE, TECHNOLOGY, ENGINEERING, AND MATH
Introduction to current topics in network security, including computer security and incident response, disaster recovery issues such as identifying, quantifying, planning for and managing risks, fault tolerance, disaster planning, system backups, and hands-on system recovery. Hands-on introduction to skill sets which include information protection, advanced threat analytics and cloud services security.
Prerequisite: Both DATA 110 and DATA 120 with a C or higher.

DATA 299 Community Contribution / Cooperative Education (Capstone II) (5)
SCIENCE, TECHNOLOGY, ENGINEERING, AND MATH
Cooperative Education is a work-based learning program that helps students to bridge the gap between classroom theory and practical work skills. Students will explore and secure their own work placements, which may be paid, or unpaid positions related to their field of study. Students will work on product deployment of a work-based project. The student, faculty sponsor, employer and Co-op Ed Coordinator work closely together to ensure a successful learning experience.
Prerequisite: DATA 199 with a grade of C or higher.

DEN 100 Introduction to Dental Assisting (1)
HEALTH SCIENCES
Orientation to college and program policies, procedures, standards, materials and resources. Introduction to the role of dental assisting within the field of dentistry and to the historical, legal, and ethical issues relating to dental assisting.
Prerequisite: None

DEN 105 Head and Neck Anatomy (2)
HEALTH SCIENCES
Introduction to structure of head and neck region. Emphasis on anatomical structures of the skeletal, muscular, nervous, cardiovascular, and digestive systems as it pertains to the head and neck. Includes an overview of microbiology and disease.
Prerequisite: None

DEN 110 Dental Foundations (5)
HEALTH SCIENCES
Provides the foundation necessary to enter into the programs dental clinic. Learn the knowledge and skills required to maintain a safe dental environment. Includes federal and state regulations regarding chemical use and infection control in the dental office. Introduction to basic concepts of radiology. Learn how to evaluate need for X-rays including: exposing, processing and mounting intraoral radiographs utilizing the bitewing technique.
Prerequisite: DEN 100 and DEN 105 with a "C" or higher or concurrent enrollment.

DEN 112 Chairside Assisting I (7)
HEALTH SCIENCES
Provides the knowledge and skills needed to operate and maintain typical equipment found in a dental operatory. Learn the design, function, and maintenance of hand-pieces, dental instruments and the dental unit water/vacuum line. Also focuses on the theory and delivery of basic dental assisting skills, such as dental ergonomics, principles of team positioning, instrument transfer and oral evacuation.
Prerequisite: DEN 110 and DEN 114 with a "C" or higher.

DEN 114 Dental Sciences (4)
HEALTH SCIENCES
Focuses on related biomedical sciences that are the foundation of the dental assistant curriculum. Includes basic oral embryology and histology and tooth morphology with an introduction to the concepts of oral pathology and oral inspection. Also covers the disease process of HIV/AIDS and how it relates to the field of dentistry.
Prerequisite: None

DEN 128 Introduction to Dental Clinic (2)
HEALTH SCIENCES
Introduction to a variety of clinical responsibilities designed to enhance competence in performing dental assisting functions. Duties include assisting a RDH with operatory set up and post-op disinfection as well as gathering information through an observation format. Gain hands-on clinical experience in front office, clinical coordination, radiographic

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techniques, bitewing x-ray exposure, patient management, sterilization and disinfection procedures and maintaining equipment and operatory. Emphasis on professionalism and image, attitude and demeanor, appropriate communication skills, and functioning as a team member.
Prerequisite: None

DRMA& 101 Introduction to Theatre: D (5)
HUMANITIES
An introduction to the art, craft, and history of the theater. The process of play production will be studied from the points of view of the playwright, actor, director, and designer.
Prerequisite: Grade of 2.0 or higher in ENGL 097, or AESL 098, or appropriate test score.

DRMA 133 Acting: Voice Expression (5)
HUMANITIES
A study of the fundamental theory and practice of realistic acting with a focus on the vocal instrument of the actor. Basic acting theory will be discussed and practiced.
Prerequisite: None

DRMA 134 Acting: Physical Expression (5)
HUMANITIES
A study of realistic acting with a focus on making the body expressive through character creation, script analysis and rehearsal technique.
Prerequisite: None

DRMA 135 Acting III (5)
HUMANITIES
Using scenes from modern dramatic literature (1850-present), this course will focus on polishing characterization and script analysis skills, with additional emphasis on rehearsal procedure, actor preparation, performance skills and auditioning.
Prerequisite: DRMA 133 or DRMA 134 with a "C" or higher.

DRMA 136 Acting Shakespeare (5)
HUMANITIES
An introduction for the actor to the plays of William Shakespeare, including historical perspectives, script analysis, verse forms, and acting traditions, using the “Playing Shakespeare” videotape series from the Royal Shakespeare Company.
Prerequisite: Grade of 2.0 or higher in ENGL 097, or AESL 098, or appropriate test score.

DRMA 137 Acting for the Camera (3)
HUMANITIES
An introduction to acting for the camera. Auditions, agents, casting directors, resumes and unions will also be discussed.
Prerequisite: None

DRMA 138 Auditioning Skills (4)
HUMANITIES
A practical overview of the audition process for the actor. Subjects to be covered will include prepared monologues, cold readings, preparing an effective resume, and interviewing techniques.
Prerequisite: None

DRMA 139 Improvisation and Game Theater (3)
HUMANITIES
A practical course in the techniques of improvisation for the stage. Theater sports, sketch comedy and game theatre will be studied. Students should have basic acting experience.
Prerequisite: None

DRMA 144 Writing for Performance (3)
HUMANITIES
Screenplay and stage script format, story construction and character development will be studied. Student writing will be read and discussed in a supportive workshop setting. An appropriate class for both beginning and advanced writers.
Prerequisite: None

DRMA 151 Theater Workshop (1)
HUMANITIES
This is a practical workshop during which students will provide technical support for the play(s) being produced by the Theater Arts department. Duties may include set construction, lighting, costuming, house management, publicity or assignment to a running crew. Running crews will work from production week through closing.
Prerequisite: None

DRMA 152 Theater Workshop (2)
HUMANITIES
This is a practical workshop during which students will provide technical support for the play(s) being produced by the Theater Arts department. Duties may include set construction, lighting, costuming, house management, publicity or assignment to a running crew. Running crews will work from production week through closing.
Prerequisite: None

DRMA 153 Theater Workshop (3)
HUMANITIES
This is a practical workshop during which students will provide technical support for the play(s) being produced by the Theater Arts department. Duties may include set construction, lighting, costuming, house management, publicity or assignment to a running crew. Running crews will work from production week through closing.
Prerequisite: None

DRMA 154 Workshop for Actors (4)
HUMANITIES
A rehearsal and performance class open only to those students cast in a Theater Arts department production or directing a student project.
Prerequisite: None

DRMA 161 Basic Stagecraft (5)
HUMANITIES
Planning, drafting, construction and rigging of scenery. Practical laboratory experiences in scenery construction, painting, handling and rigging of scenery. One production crew assignment with one scheduled laboratory assignment.
Prerequisite: None

DRMA 162 Stage Design Theory and Practice (3)
HUMANITIES
This class covers the process of design as it relates to the theater. Students will explore the use of basic design principles along with the practical aspects of the theater.
Prerequisite: None

DRMA 163 Introduction to Stage Lighting (1-4)
HUMANITIES
An introduction to the basic concepts of stage lighting, including the operation of stage lighting, planning and rigging; theory of lighting design, color and basic electricity; implementation of light plots, lighting equipment, control systems, technical rehearsal/performance procedures and operations.
Prerequisite: None

DRMA 164 Costume Construction (3)
HUMANITIES
This course focuses on the practical aspects of costume construction to include fabric selection, machine and hand sewing, pattern drafting and draping, fitting, and finishing.
Prerequisite: None

DRMA 166 Introduction to Stage Costuming (3)
HUMANITIES
An introduction to costuming for the stage including history, theory, design, and practical applications.
Prerequisite: None

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DRMA 168 Introduction to Stage Management (3)
HUMANITIES
This course introduces the student to the basic principles of stage management, including a study of differences between educational, community, and professional productions. The course includes the basic techniques used to oversee rehearsals and performances, assembling a prompt book, supervision of stage craft staff and compliance with safety regulations.
Prerequisite: None

DRMA 230 Advanced Theatre Seminar (1-5)
HUMANITIES
A seminar to discuss special topics of interest in the theatre arts.
Prerequisite: Declared theatre arts major or permission of the instructor

DRMA 233 Introduction to Directing (3)
HUMANITIES
An introduction to directing for the theater, including history, styles and traditions, and practical techniques and theories of directing.
Prerequisite: None

DRMA 234 Directing II: Scene Study (4)
HUMANITIES
A scene study class for advanced directors. Student directors will work with student actors in rehearsing and staging of scenes from different types of dramatic literature.
Prerequisite: DRMA 233 with a "D" or higher or previous directing experience and instructor permission.

DRMA 235 Advanced Acting (5)
HUMANITIES
A scene study class for the experienced actor.
Prerequisite: DRMA 135 with a "D" or higher or instructor permission.

DRMA 236 Theater History I: Ancient-Renaissance (5)
HUMANITIES
An introduction and exploration of the relationship between historical events and the theater arts from the ancient period to the Renaissance.
Prerequisite: ENGL 099 with a "C" or higher (or placement into ENGL& 101).

DRMA 237 Theater History II: Renaissance-1850 (5)
HUMANITIES
An introduction and exploration of the relationship between historical events and the theater arts from the Renaissance to 1850.
Prerequisite: Appropriate placement or grade of 2.0 or higher in ENGL 099.

DRMA 238 Modern Theater History (5)
HUMANITIES
An introduction and exploration of the relationship between historical events and the theater arts from 1850 to the present.
Prerequisite: ENGL 099 with a "C" or higher (or placement into ENGL& 101).

DRMA 299 Learning into Action (1-15)
HUMANITIES
Student develops and completes curriculum-related independent project which demonstrates skills and abilities and explores career options. May include, but not limited to, service learning, original research, and travel abroad. Faculty sponsor approval required. Students with 45 transferable college credits are eligible to begin Learning into Action.
Prerequisite: None

DSL 101 Diesel Electrical Theory (4)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION
Introduction to basic electrical concepts of voltage, amperage, and resistance and their relationship to each other in a circuit (Ohm's Law) as applied primarily to heavy-duty equipment. Includes digital multi-meter familiarization, working with simulation boards, and building basic electrical circuits.
Prerequisite: CSS 103 with a "D" or higher or concurrent enrollment.

DSL 102 Diesel Drivetrains I (8)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION
Introduction to the diesel industry with an emphasis on safety. Introduction to heavy-duty vehicle drivetrain systems. Theory of bearings and seals. Wheel bearing theory and adjustment. Theory, diagnosis, and repair of vehicle foundation brake and air system components.
Prerequisite: Concurrent enrollment in DSL 101 or 201; CSS 103 or concurrently enrolled.

DSL 103 Diesel Drivetrains II (13)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION
Continuation of DSL 102. Theory and shop application of wheels and tires, front (non-drive) axles, steering, suspensions and alignments; adjustment of clutches, both push and pull type, and manual and self-adjusting; basic hydraulic systems. Vehicle inspection and out-of-service criteria.
Prerequisite: DSL 102 and MATH 096 with a "D" or higher or concurrent enrollment.

DSL 104 Diesel Drivetrains III (13)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION
Continuation of DSL 103. Theory and repair of manual transmissions, drive axles, differentials, and drivelines. Introduction to automatic transmissions and their electronic control systems, and auto-shift manual transmissions. Theory and service diagnostics of ABS brakes. Theory and servicing of vehicle air-conditioning systems. Preventative maintenance summary. Develop skills regarding teamwork and customer service with a diverse and multicultural population.
Prerequisite: DSL 103 and WMATH 100 with a "D" or higher or concurrent enrollment.

DSL 199 Diesel Cooperative Education (1-15)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION
Supervised work experience in the field. Includes a weekly seminar.
Prerequisite: Instructor permission required.

DSL 201 Diesel Applied Electrical (4)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION
Focuses on practical applications of electrical circuits in heavy-duty equipment. Emphasis on the operation and testing of battery, starting and charging systems, wiring, connectors, circuit protection devices, gauges and warning systems, as well as wiring diagrams and symbols.
Prerequisite: DSL 101 with a "D" or higher.

DSL 202 Diesel Engines I (8)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION
Introduction to the diesel engine and its importance to the economy. Covers shop safety, hand and power tools, precision measuring tools, threaded fasteners, torque and tension. Basics of diesel engine operating theory and design, including all internal engine mechanical components. Introduction to preventative maintenance. Mathematics as it relates to the diesel industry will be incorporated. Shop projects include removal, teardown, and inspection of a modern diesel engine.
Prerequisite: Concurrent enrollment in DSL 101 or 201; CSS 103 or concurrently enrolled.

DSL 203 Diesel Engines II (13)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION
Continuation of DSL 202. Covers theory and servicing of engine support systems, including cooling, lubrication, and breathing systems. Introduction to diesel fuels and hydro-mechanical fuel systems, including pump-line-nozzle and various unit injector systems, governors and proper adjustments. Covers failure analysis and troubleshooting as applied to mechanical engines and fuel systems. Use of engine dyno to demonstrate engine break-in and performance characteristics. Shop work to include reassembly of engine projects started fall quarter, with the intent to run them.
Prerequisite: DSL 202 and MATH 096 with a "D" or higher or concurrent enrollment.

DSL 204 Diesel Engines III (13)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION
Continuation of DSL 203. Introduction to vehicle computer systems. Emphasis on electronically controlled fuel systems on Caterpillar,

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Cummins, Detroit Diesel, and International-Navistar engines. Covers tune-ups and diagnostics using PC based troubleshooting software. Preventative maintenance summary.
Prerequisite: DSL 203 with a "D" or higher; WMATH 100 with a "D" or higher or concurrent enrollment.

DT 101 Fundamentals of Dental Therapy I (4)
HEALTH SCIENCES
Acceptance into the Dental Therapy program required. Introduction to the dental team and the role of dental therapy in public health settings. Topics include OSHA training, maintenance of equipment, identification of instruments and their uses, anatomical landmarks of the head and neck, overview of dental anatomy, taking and recording vital signs, taking and recording health and dental history, and the impact of medical conditions on dental treatment.
Prerequisite: None;

DT 102 Fundamentals of Dental Therapy II (1)
HEALTH SCIENCES
Builds on the knowledge and skills learned in DT 101 and DT 111. Provides additional content about the theory and practice of dental therapy. Emphasis on dental radiology principles and techniques, identifying radiological anatomy, landmarks, radiographic interpretation, and performing dental examinations.
Prerequisite: DT 101 with a C or higher.

DT 111 Dental Therapy Lab I (2)
HEALTH SCIENCES
Clinical applications of topics including infection control practices, ergonomic principles, instrument grasp and fulcrum, utilization of a dental instruments, moisture control, and rubber dam isolation, managing medical emergencies including the use of emergency oxygen, providing basic first aid, and Basis Life Support (BLS) CPR. Acceptance into the Dental Therapy program required.

DT 112 Dental Therapy Lab II (1)
HEALTH SCIENCES
Emphasis is on practicing taking periapical, horizontal, and vertical bitewings, occlusal and panoramic radiographs, digital photographs, and performing dental examinations that will be applied throughout the curriculum. Additional topics include utilizing Learn-a-Prep block to begin fine motor skills using a dental hand piece.
Prerequisite: DT 111 with a C or higher.

DT 113 Dental Therapy Lab III (4)
HEALTH SCIENCES
Place dental sealants, apply fluoride varnish, silver diamine fluoride (SDF), and povidone iodine. Practice SMART, Hall technique for placing stainless steel crowns (SSC), head and neck examinations, prophylaxis, placing and removing periodontal dressings, and suture removal.
Prerequisite: DT 112 with a C or higher.

DT 114 Dental Therapy Lab IV (7)
HEALTH SCIENCES
Simulation lab course where manikins and typodonts are used. Emphasis on practicing preparation and restoration of permanent teeth using amalgam and composite materials.
Prerequisite: DT 113 with a C or higher.

DT 131 Oral Health Education I (2)
HEALTH SCIENCES
Customize oral health instruction for patients in all stages of life, and learn the relationship of western diet on dental caries, and the value of native, traditional foods. Focuses on evidence-based oral health practices and becoming culturally competent oral health providers utilizing motivational interviewing strategies. Self-care practices are included to develop resilient providers who are role models in their communities. Acceptance into the Dental Therapy Program required.

DT 132 Oral Health Education II (2)
HEALTH SCIENCES
Continuation of topics related to the art and science of preventing dental disease. Accentuates application of motivational interviewing to improve oral health, and work with patients who use tobacco or have substance use disorders.
Prerequisite: DT 131 with a C or higher.

DT 133 Oral Health Education III (2)
HEALTH SCIENCES
Builds on earlier coursework to actively use knowledge and skills to connect with and build trust with patients. Highlights the important role of health literacy and cultural humility as well as practical applications of motivational interviewing, behavior modification techniques, and management of fear and anxiety across all patient groups with emphasis on pediatric, geriatric, and autistic patients.
Prerequisite: DT 132 with a C or higher.

DT 135 Diagnosis and Treatment Planning (3)
HEALTH SCIENCES
Learn about the relationship of patient needs, medical history, radiographs, and other tests to diagnose and plan dental treatment in a systematic way. Topics include customizing treatment plans to accommodate special populations, identification of conditions requiring consultation and treatment by dentists, physicians, other healthcare providers, and treatment for which the dental therapist is competent to provide. Interactive cases, critical thinking activities, and case presentations provide practice to make diagnoses and plan treatment.
Prerequisite: DT 144 with a C or higher.

DT 142 Anatomy, Physiology, Head and Neck, and Pathology (3)
HEALTH SCIENCES
Introduction to anatomy and physiology of head and neck with focus on intraoral tissues, bones, muscles, nerves, and vascularization. Incorporates embryology, histology, and pathology as it relates to the head and neck, consultation and referral of conditions that are not within the scope of dental therapy practice.
Prerequisite: BIOL& 170 with a C or higher.

DT 143 Preclinical Operative (5)
HEALTH SCIENCES
Concepts and principles of dental anatomy, occlusion, and dental materials as they relate to permanent tooth preparation and restoration. Evidence-based practices for selection of dental materials are emphasized, as are criteria for assessing the quality of cavity preparations and tooth restorations.
Prerequisite: DT 113 with a C or higher.

DT 144 Cariology and Minimally Invasive Dentistry (3)
HEALTH SCIENCES
Topics include examining the impact of social determinants, health equity, nutrition and disparities on caries prevalence and evidence-based practices to prevent, diagnosis, treat, and control caries. Practice preventive and minimally invasive techniques.
Prerequisite: DT 131 with a C or higher.

DT 156 Hygiene and Periodontology (3)
HEALTH SCIENCES
Concepts and clinical applications to prevent, diagnose, treat, and manage periodontal disease. Topics include periodontal risk assessment, dental prophylaxis, recall intervals, referrals, placing and changing periodontal dressings, and suture removal.
Prerequisite: DT 131 with a C or higher.

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DT 200 Introduction to Clinical Care (4)
HEALTH SCIENCES
Orientation to the Swinomish Dental Clinic to become members of the health care team. Clinical skills are assessed to demonstrate competence when providing clinical services to patients.
Prerequisite: DT 114 with a C or higher.

DT 201 Advanced Dental Therapy Concepts I (2)
HEALTH SCIENCES
Review of topics learned in previous courses with an emphasis on critical thinking and integrating the knowledge and skill sets into direct care scenarios. Topics include anticipatory guidance, preparation and placement of restorations and preformed crowns on primary teeth, indirect pulp capping, and pulpotomy on primary teeth. Provide clinical care within the scope of dental therapy practice.
Prerequisite: DT 200 with a C or higher.

DT 202 Advanced Dental Therapy Concepts II (2)
HEALTH SCIENCES
Review topics learned in previous courses with an emphasis on critical thinking and integrating the knowledge and skill sets into direct care scenarios. Additional topics include urgent care dentistry, simple/non-surgical extraction of erupted teeth, characteristics of oral lesions, and managing oral surgery consultations and referrals.
Prerequisite: DT 201.

DT 203 Advanced Dental Therapy Concepts III (2)
HEALTH SCIENCES
Review topics learned in previous courses with an emphasis on critical thinking and integrating the knowledge and skill sets into direct care scenarios. Topics include repair of removable defective prosthetic appliances, and removal of space maintainers. Provide clinical care within the scope of dental therapy practice.
Prerequisite: DT 202 with a C or higher.

DT 210 Dental Therapy Skill Consolidation (3)
HEALTH SCIENCES
Perform diagnostic, preventive, and emergency palliative treatment to patients at the Swinomish Dental Clinic. Educate patients to promote oral health and prevent dental disease.
Prerequisite: DT 114 with a C or higher.

DT 211 Dental Therapy Clinic I (4)
HEALTH SCIENCES
Provide treatment for patients applying knowledge and skills learned in previous courses with an emphasis on developing clinical skills and on critical thinking. Deepen reasoning and clinical proficiency with each patient encounter.
Prerequisite: DT 200 with a C or higher.

DT 212 Dental Therapy Clinic II (6)
HEALTH SCIENCES
Provide treatment for patients applying knowledge and skills learned in previous courses with an emphasis on developing clinical skills and on critical thinking. Deepen reasoning and clinical proficiency with each patient encounter.
Prerequisite: DT 211 with a C or higher.

DT 213 Dental Therapy Clinic III (6)
HEALTH SCIENCES
Provide treatment for patients applying knowledge and skills learned in previous courses with an emphasis on developing clinical skills and on critical thinking. Deepen reasoning and clinical proficiency with each patient encounter.
Prerequisite: DT 212 with a C or higher.

DT 221 Professional Dental Therapy Practice I (3)
HEALTH SCIENCES
Professional expectations and responsibilities of an oral health provider are discussed. Laws and ethics that govern dental therapy practice are applied using critical thinking frameworks. Strategies to prevent malpractice, the responsibilities of a mandatory reporter, and healthy self-care practices are presented. The impact of historical trauma on patients, providers, and communities is examined.
Prerequisite: DT 101 with a C or higher.

DT 222 Professional Dental Therapy Practice II (2)
HEALTH SCIENCES
Work in teams to conduct quality assurance (QA) projects designed to study different factors that affect the delivery of oral healthcare for patients. Findings with recommendations to correct deficiencies are presented. Continue to practice healthy self-care strategies.
Prerequisite: DT 221 with a C or higher.

DT 223 Professional Dental Therapy Practice III (2)
HEALTH SCIENCES
Topics include a variety of methods to improve communication skills, manage conflict, and handle difficult conversations. Complete mandatory State of Washington suicide prevention CE course and continue to develop and practice healthy self-care strategies.
Prerequisite: DT 222 with a C or higher.

DT 224 Professional Dental Therapy Practice IV (3)
HEALTH SCIENCES
Emphasis on efficiently managing a dental office, crafting an effective resume, practicing interviewing skills, and developing and practicing healthy self-care strategies. Present Community Oral Health Promotion Projects that were developed, implemented, and evaluated in prior third year courses.
Prerequisite: DT 223 with a C or higher.

DT 231 Community Oral Health Programs I (2)
HEALTH SCIENCES
Design an oral health needs assessment and a culturally relevant community oral health promotion project supported by community input and ownership. Topics include building relationships with individuals who live in predominately rural, Native American communities. Discuss elements of POARE format in prevention planning and use of SMARTER objectives as they relate to indigenous cultures.
Prerequisite: DT 133 with a C or higher.

DT 232 Community Oral Health Programs II (2)
HEALTH SCIENCES
Practical applications of epidemiology, public health, and cultural competency principles learned in previous courses. Apply components of POARE and SMARTER objectives to implement and evaluate culturally appropriate community oral health promotion projects.
Prerequisite: DT 231 with a C or higher.

DT 235 Advanced Diagnosis and Treatment Planning (3)
HEALTH SCIENCES
Interactive cases, critical thinking activities, and case presentations provide practice to further develop diagnostic and treatment planning knowledge and skills. Apply evidence-based practices to customize treatment plans.
Prerequisite: DT 135 with a C or higher.

DT 240 Oral Health Education IV (2)
HEALTH SCIENCES
Builds on earlier coursework to actively use knowledge and skills in the art and science of preventing oral diseases. Learn to create and deliver oral health promotion and disease prevention presentations appropriate for different audiences (students, caregivers, teachers, and healthcare providers).
Prerequisite: DT 133 with C or higher.

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DT 241 Community Rotations I (4)
HEALTH SCIENCES
Students are assigned to various community sites to provide services within the scope of dental therapy practice, and work on community oral health promotion projects.
Prerequisite: DT 231 with a C or higher.

DT 242 Community Rotations II (4)
HEALTH SCIENCES
Students are assigned to various community sites to provide services within the scope of dental therapy practice, and work on community oral health promotion projects.
Prerequisite: DT 232 with a C or higher.

DT 261 Pharmacy and Medical/Dental Emergency (4)
HEALTH SCIENCES
Focuses on drugs used in dental settings, common interactions of those drugs, as well as recognition and understanding of commonly prescribed medications. Analyze medical histories and patient medication lists to assess overall patient health, and identify complications that could impact dental treatment. Practice dental and medical emergency scenarios, and complete mandatory Washington State Opioids in Dental Practice Continuing Education (CE) course.
Prerequisite: DT 135 with a C or higher.

DT 265 Local Anesthesia (2)
HEALTH SCIENCES
Topics include understanding fundamentals in pain impulse generation and transmission, mode and site of action of local anesthetics, onset and duration of action, addressing failures to achieve profound anesthesia, and possible complications associated with administration of the local anesthetic agents.
Prerequisite: DT 142 with a C or higher.

DT 280 Digital Health Communications (2)
HEALTH SCIENCES
Practice the use of telehealth and other technology to communicate with supervising dentists and other healthcare providers as well as explore the potential and consequences of social media on health beliefs and behavior. Design, implement, and evaluate a mini social media campaign.
Prerequisite: DT 240 with a C or higher.

DT 295 Preceptorship (14)
HEALTH SCIENCES
After successfully completing 39 competencies, students will become members of a dental healthcare team at a sponsoring dental clinic, and will continue to develop as a competent dental therapist through the synthesis, application, and interpretation of cognitive, affective, and psychomotor skills learned throughout the program. Evaluations and feedback will be provided to aid in growth and confidence building. Presentation of student portfolios will be scheduled during the quarter.
Prerequisite: DT 213 with a C or higher.

EAP 050 Connect I: Reading and Writing (9)
BASIC EDUCATION FOR ADULTS
An intensive course for English language learners with an emphasis on sentence structure, academic vocabulary development, grammar skills, and reading strategies that will prepare students for EAP 60.
Prerequisite: Appropriate placement test score or instructor permission.

EAP 055 Connect I: Listening and Speaking (9)
BASIC EDUCATION FOR ADULTS
An intensive course for English language learners with an emphasis on communication skills that will prepare students for EAP 65.
Prerequisite: Appropriate placement test score; or instructor permission.

EAP 060 Connect II: Reading and Writing (9)
BASIC EDUCATION FOR ADULTS
An intensive course for English language learners with an emphasis on paragraph structure, academic vocabulary development, grammar skills, and reading strategies that will prepare students for EAP 70.
Prerequisite: Appropriate placement test score; B- (80%) or higher in EAP 50; or instructor permission.

EAP 065 Connect II: Listening and Speaking (9)
BASIC EDUCATION FOR ADULTS
An intensive course for English language learners with an emphasis on communication skills that will prepare students for EAP 75.
Prerequisite: Appropriate placement test score; B- (80%) or higher in EAP 55; or instructor permission.

EAP 070 Connect III: Reading and Writing (9)
BASIC EDUCATION FOR ADULTS
An intensive course for English language learners with an emphasis on basic essay structure, academic vocabulary development, grammar skills, and reading strategies that will prepare students for EAP 97.
Prerequisite: Appropriate placement test score; B- (80%) or higher in EAP 60; or instructor permission.

EAP 075 Connect III: Listening and Speaking (9)
BASIC EDUCATION FOR ADULTS
An intensive course for English language learners with an emphasis on communication skills that will prepare students for EAP 105.
Prerequisite: Appropriate placement test score; B- (80%) or higher in EAP 65; or instructor permission.

EAP 097 Bridge I: Composition (5)
BASIC EDUCATION FOR ADULTS
A semi-intensive course for English language learners with an emphasis on academic composition and grammar skills that will prepare students for EAP 98.
Prerequisite: Appropriate placement test score; B- (80%) or higher in EAP 70; or instructor permission.

EAP 098 Bridge II: Composition (5)
BASIC EDUCATION FOR ADULTS
A semi-intensive course for English language learners with an emphasis on academic composition and grammar skills that will prepares students for English 99.
Prerequisite: Appropriate placement test score; B- (80%) or higher in EAP 97; or instructor permission.

EAP 103 Bridge II: Academic Reading (5)
BASIC EDUCATION FOR ADULTS
A semi-intensive reading support course for English Language Learners in the EAP Bridge Program who are taking a linked 100 level or higher non-EAP reading-intensive course.
Prerequisite: Appropriate placement test score; B- (80%) or higher in EAP 97; or instructor permission.

EAP 105 Bridge I: Communication Skills (5)
BASIC EDUCATION FOR ADULTS
A semi-intensive course for English language learners with an emphasis on communication skills that will prepare degree-seeking students for future 100 level and higher courses.
Prerequisite: Appropriate placement test score; B- (80%) or higher in EAP 75; or instructor permission.

EASC 102 Meteorology (5)
NATURAL SCIENCES
A survey of atmospheric science, emphasizing weather observation and global viewpoint. Forecasting, weather map interpretation, physics and chemistry of the atmosphere, and optics. The interaction between human activity and the atmosphere is stressed. Lab included.
Prerequisite: ENGL 099 with a grade of "C" or higher (or placement into college-level English); and either placement into OR co-enrollment in OR completion of a college-level Math course with a grade of "C" or higher.

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EASC 110 Energy and Society (5)
NATURAL SCIENCES
An exploration of the scientific basis for our conventional energy resources (fossil fuels, nuclear, hydro) and for renewable/sustainable energy resources (solar, wind, biomass etc.). Surveys the political, social, economic and environmental context of how our culture uses energy and the barriers to large-scale renewable energy implementation. Lab included.
Prerequisite: ENGL 099 with a grade of "C" or higher (or placement into college-level English); and either placement into OR co-enrollment in OR completion of a college-level Math course with a grade of "C" or higher.

EASC 111 Matter and Energy in Earth Science (5)
NATURAL SCIENCES
Hands-on (i.e. lab-based) exploration of Earth sciences developing understanding of the interactions of matter and energy in Earth processes such as rock formation, plate tectonics, earthquakes and volcanism. The inquiry also develops tools to understand how Earth has changed over geologic time-scales. Lab included. This course is open to all students and is strongly recommended for the Associate in Education and Early Childhood Education degrees, and is a highly desired science course for students pursuing Woodring College of Education's ECE or Elementary Ed. programs at WWU. The suggested sequence is PHYS 111 followed by EASC 111.
Prerequisite: ENGL 099 with a grade of "C" or higher (or placement into college-level English); and either placement into OR co-enrollment in OR completion of a college-level Math course with a grade of "C" or higher.

EASC 120 Climate Change and Climate Solutions (5)
NATURAL SCIENCES
An exploration of the Earths changing global climate system and of solutions. We will review the atmospheric, oceanic, solid Earth, biological and extraterrestrial controls on climate and examine climate forecast scenarios in the context of societal and environmental impacts. Strategies for reducing emissions and reversing carbon dioxide buildup will be a focus. Lab included.
Prerequisite: ENGL 099 with a grade of "C" or higher (or placement into college-level English); and either placement into OR co-enrollment in OR completion of a college-level Math course with a grade of "C" or higher.

EASC 299 Learning into Action (1-15)
NATURAL SCIENCES
Student develops and completes curriculum-related independent project which demonstrates skills and abilities and explores career options. May include, but is not limited to, service learning, original research, and travel abroad. Faculty sponsor approval required. Students with 45 transferable college credits are eligible to begin Learning into Action.
Prerequisite: None

ECED& 100 Child Care Basics (3)
EDUCATION
Designed to meet licensing requirements for early learning lead teachers and family home child care providers, STARS 30 hour basics course recognized in the MERIT system. Topics: child growth/development, cultural competency, community resources, guidance, health/safety/nutrition and professional practices.
Prerequisite: None

ECED 101 Child Abuse and Neglect (2)
EDUCATION
Overview of the legal requirements, professional responsibilities and local laws and policies regarding child abuse and neglect. Reviews symptoms and remediation/intervention/prevention techniques.
Prerequisite: None

ECED& 105 Introduction to Early Childhood Education (5)
EDUCATION
Explore the foundations of early childhood education. Examine theories defining the field, issues and trends, best practices, and program models. Observe children, professionals, and programs in action.
Prerequisite: None

ECED& 107 Health, Safety, and Nutrition (5)
EDUCATION
Introduction to implementation of equitable health, safety and nutrition standards for the growing child in group care. Focus on federal Child Care Block Grant funding (CCDF) requirements, WA state licensing and Head Start Performance standards. Develop skills necessary to keep children healthy & safe, report abuse & neglect, and connect families to community resources.
Prerequisite: None

ECED 108 Bridges Module I (1)
EDUCATION
Teaching strategies and guidance techniques for individual and groups of children to prevent behavior problems, assist in solving problems, and promote the development of effective social skills. ECED 108, 109, and 110 combined are equivalent to EDUC& 130.
Prerequisite: Must take ECED 108, 109 and 110 to equal EDUC& 130.

ECED 109 Bridges Module II (1)
EDUCATION
Teaching strategies and guidance techniques for individual and groups of children to prevent behavior problems, assist in solving problems, and promote the development of effective social skills. ECED 108, 109, and 110 combined are equivalent to ECED& 130
Prerequisite: Must take ECED 108, 109 and 110 to equal EDUC& 130.

ECED 110 Bridges Module III (1)
EDUCATION
Teaching strategies and guidance techniques for individual and groups of children to prevent behavior problems, assist in solving problems, and promote the development of effective social skills. ECED 108, 1079, and 110 combined are equivalent to ECED& 130.
Prerequisite: Must take ECED 108, 109 and 110 to equal EDUC& 130

ECED& 120 Nurturing Relationships (2)
EDUCATION
In an early learning setting, engage in establishing nurturing, supportive relationships with all children and professional peers. Focus on childrens health & safety, promoting growth & development, and creating a culturally responsive environment.
Prerequisite: Department chair permission.

ECED& 132 Infant/Toddler Care (3)
EDUCATION
Examine the unique developmental needs of infants and toddlers in an early learning setting. Student will work or volunteer two hours each week in an infant or toddler classroom.
Prerequisite: None

ECED& 134 Family Childcare Management (3)
EDUCATION
Learn how to manage a family childcare program. Topics include: licensing requirements, record-keeping, relationship building, communication strategies, guiding behavior, and promoting growth and development.
Prerequisite: None

ECED& 138 Home Visiting and Family Engagement (3)
EDUCATION
Plan and provide home visits and group activities. Promote secure parent-child relationships. Support families to provide high-quality

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early learning opportunities embedded in everyday routines and experiences.
Prerequisite: None

ECED& 139 Administration of Early Childhood Ed (3)
EDUCATION
Develop administrative skills required to develop, operate, manage and improve early childhood education and care programs. Acquire basic business management skills. Explore resources and supports for meeting Washington State licensing and professional NAEYC standards.
Prerequisite: None

ECED 140 Issues and Trends in Education (3)
EDUCATION
Review and discussion of current issues and special topics regarding school, community, and home relationships affecting education.
Prerequisite: None

ECED& 160 Curriculum Development (5)
EDUCATION
Investigate learning theory, program planning, tools and methods for curriculum development promoting language, fine/gross motor, social-emotional, cognitive and creative skills and growth in children birth through age 8 utilizing developmentally appropriate and culturally responsive practice.
Prerequisite: ECED& 105 and EDUC& 115 with a "D" or higher.

ECED 161 Bridges Module I (1)
EDUCATION
Focuses on the significance of childhood from birth to age three. Emphasis on caring relationships and early learning. Examines the range of typical and atypical development. Develop skills in noticing and responding to infant/toddler cues, forming partnerships with parents, designing culturally relevant and inclusive environments, encouraging sensory motor exploration, and nurturing play and social and emotional development. ECED 161, 162, and 163 combined are equivalent to ECED& 132.
Prerequisite: Must take ECED 161, 162 and 163 to equal ECED& 132

ECED 162 Bridges Module II (1)
EDUCATION
Focuses on the significance of childhood from birth to age three. Emphasis on caring relationships and early learning. Examines the range of typical and atypical development. Develop skills in noticing and responding to infant/toddler cues, forming partnerships with parents, designing culturally relevant and inclusive environments, encouraging sensory motor exploration, and nurturing play and social and emotional development. ECED 161, 162, and 163 combined are equivalent to ECED& 132.
Prerequisite: Must take ECED 161, 162 and 163 to equal ECED& 132.

ECED 163 Bridges Module III (1)
EDUCATION
Focuses on the significance of childhood from birth to age three. Emphasis on caring relationships and early learning. Examines the range of typical and atypical development. Develop skills in noticing and responding to infant/toddler cues, forming partnerships with parents, designing culturally relevant and inclusive environments, encouraging sensory motor exploration, and nurturing play and social and emotional development. ECED 161, 162, and 163 combined are equivalent to ECED& 132.
Prerequisite: Must take ECED 161, 162 and 163 to equal ECED& 132.

ECED& 170 Learning Environments (3)
EDUCATION
Focuses on the adults role in designing, evaluating, and improving indoor and outdoor environments that ensure quality learning, nurturing experiences, and optimize the development of young children.
Prerequisite: None

ECED& 180 Language and Literacy Development (3)
EDUCATION
Teaching strategies for language acquisition and literacy skill development are examined at each developmental stage (birth-age 8) through the four interrelated areas of speaking, listening, writing, and reading.
Prerequisite: ECED& 190.

ECED& 190 Observation and Assessment (3)
EDUCATION
Collect and record observation of and assessment data in order to plan for and support the child, the family, the group and the community. Practice reflection techniques, summarizing conclusions and communicating findings.
Prerequisite: ENGL 099 with a "C" or higher (or placement into ENGL& 101).

ECED 199 Cooperative Education (1-15)
EDUCATION
Supervised work experience in the field. Includes a weekly seminar.
Prerequisite: Instructor permission required.

ECED 201 Art, Music, and Movement for Children (4)
EDUCATION
Practical ways to plan, select and prepare art, music and movement experiences for young children (birth to 8 years).
Prerequisite: EDUC& 115 with a grade of D or higher.

ECED 202 Math and Science Learning for Children (4)
EDUCATION
Focuses on math and science learning for children birth to 8 years. Explores the process of planning, selecting and preparing materials and experiences for young children.
Prerequisite: EDUC& 115 with a grade of D or higher.

ECED 203 Essentials of Child Development Associate Credential (CDA): Health and Safety (3)
EDUCATION
The first of three courses in preparation for the Child Development Associates Credential (CDA). Examines how to establish and maintain a safe and healthy learning environment for young children.
Prerequisite: None

ECED 204 Essentials of Child Development Associate Credential (CDA): Child Development (3)
EDUCATION
Continuation of ECED 203. Examines positive ways to support children's social and emotional development and intellectual competence. Topics include communication, creativity, self-esteem, social and cognitive development. Explores typical and atypical development patterns for young children.
Prerequisite: ECED 203 with a "D" or higher.

ECED 205 Essentials of CDA: Working with Families, Program Management and Ethics. (3)
EDUCATION
Continuation of ECED 203 and 204. Examines working with families, program management and professionalism.
Prerequisite: ECED 203 and ECED 204 with a "D" or higher.

ECED 206 Essentials of the Child Development Associates Credential (CDA): Resource File (3)
EDUCATION
Child Development Associates (CDA) resource file documentation of the required skills and knowledge to become a professional teacher

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of young children. Students who have completed the educational requirements for the CDA will be provided with information to help them apply, understand, define, and clarify the requirements established by the CDA National Credentialing program for center or home based settings. May be taken in conjunction with one of the other CDA courses.
Prerequisite: ECED 203, ECED 204, or ECED 205 with a "D" or higher.

ECED 211 Equity in Education: D (3)
EDUCATION
Examination of historical and institutional oppression and how these systems of oppression operate in educational settings. Focuses on how teachers can interrupt this oppression and create more equitable classrooms for all students.
Prerequisite: None

ECED 223 Practicum and Seminar (1-4)
EDUCATION
Practical application of education coursework in the Birth-3rd Grade classroom setting. Attend a weekly seminar and work with children in a public or private school setting under the direct supervision of a Bachelor's level staff member or teacher. Experiences will include supporting and assisting in instructional and other services to children, youth and their families.
Prerequisite: Department chair approval.

ECED 241 Bridges Module I (1)
EDUCATION
Administration and management of early childhood education and child care programs in both the public and private sector. ECED 241, 242, and 243 combined are equivalent to ECED& 139.
Prerequisite: Must take ECED 241, 242, and 243 to equal ECED& 139.

ECED 242 Bridges Module II (1)
EDUCATION
Administration and management of early childhood education and child care programs in both the public and private sector. ECED 241, 242, and 243 combined are equivalent to ECED& 139.
Prerequisite: Must take ECED 241, 242, and 243 to equal ECED& 139.

ECED 243 Bridges Module III (1)
EDUCATION
Administration and management of early childhood education and child care programs in both the public and private sector. ECED 241, 242, and 243 combined are equivalent to ECED& 139.
Prerequisite: Must take ECED 241, 242, and 243 combined to equal ECED& 139.

ECON 101 Introduction to Economics (5)
SOCIAL SCIENCES
Introduction to basic principles of macro and micro economics for the non-major. Areas covered include supply and demand, the determination of equilibrium prices and quantities, types of production costs, economic growth, unemployment, fiscal policy and monetary policy.
Prerequisite: ENGL 099 with a "C" or higher (or placement into ENGL& 101).

ECON 104 Introduction to Economic Geography (5)
SOCIAL SCIENCES
An analysis of the impact of depletable and renewable natural resources on the economic development of regional and world economies. Topics of discussion include pollution, conservation, environmental valuation, market failure and environmental policies to remedy misallocations of resources.
Prerequisite: ENGL 099 with a "C" or higher (or placement into ENGL& 101).

ECON 150 Consumer Economics (5)
SOCIAL SCIENCES
Designed for students who desire a general overview of economic principles as they relate to personal finance. Supply and demand, inflation, money and banking, interest, savings, investments, credit, estate planning and other consumer-related topics are presented. Not recommended for business majors.
Prerequisite: None.

ECON& 201 Micro Economics (5)
SOCIAL SCIENCES
A comprehensive introduction to the functions of the market system including allocation of scarce resources, production of goods and services, determination of prices, output and profit maximization in competitive and monopolistic markets. Required for business majors planning to transfer to 4 year business programs.
Prerequisite: ENGL& 101 with a grade of "C" or higher; and either placement into OR co-enrollment in OR completion of a college-level Math course with a grade of "C" or higher.

ECON& 202 Macro Economics (5)
SOCIAL SCIENCES
A comprehensive introduction to the structure of the American economy as compared to other economic structures, supply and demand, GDP, inflation, monetary policy, money and banking, taxation, economic growth, international exchange and comparisons of classical, Keynesian and monetarist economic philosophies are presented. Required for business majors planning to transfer to 4-year business programs.
Prerequisite: ENGL& 101 with a grade of "C" or higher; and either placement into OR co-enrollment in OR completion of a college-level Math course with a grade of "C" or higher.

ECON 299 Learning Into Action (1-15)
SOCIAL SCIENCES
Provides business students with the opportunity to design and perform a curriculum related, independent project which develops business skills and explores career options. An LIA project may take a variety of forms such as an internship with a local business, travel abroad, original research or other projects as approved by the LIA coordinator. Faculty sponsorship is required. Students with 45 transferable college credits are eligible to participate in an LIA.
Prerequisite: None

ECON 310 Economics for Managers (5)
SOCIAL SCIENCES
Investigate how fundamental economic concepts such as demand and supply, market structure, tradeoffs and external costs guide managerial decisions. Debate the role of government in managing the economy and research how interactions between political and economic choices impact consumer and organizational choices.
Prerequisite: Admission to BASM program and Dept. Chair permission.

EDUC 101 Paraeducator Basics (3)
EDUCATION
Introduction to roles and responsibilities of the Paraeducator in the K-12 educational system. Explore techniques supporting instruction, professional and ethical practices, positive and safe learning environments, effective communication, and teamwork. Student will work or volunteer 2 hours each week in a K-12 setting.
Prerequisite: None

EDUC& 115 Child Development (5)
EDUCATION
Build foundation for explaining how children develop in all domains, conception through early adolescence. Explore various developmental theories, methods for documenting growth, and impact of brain development. Topics addressed: stress, trauma, culture, race, gender identity, socioeconomic status, family status, language, and health issues.
Prerequisite: None

EDUC& 122 Child Development II (5)
EDUCATION
Survey of the development of children from middle childhood through adolescence. Includes social, emotional, physical, motor, intellectual,

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moral and language characteristics. History, philosophy and theories of development applied to current educational settings.
Prerequisite: EDUC& 115 or department chair permission.

EDUC& 130 Guiding Behavior (3)
EDUCATION
Examine the principles and theories promoting social competence in young children and creating safe learning environments. Develop skills promoting effective interactions, providing positive individual guidance, and enhancing group experiences.
Prerequisite: None

EDUC& 136 School Age Care (3)
EDUCATION
Develop skills to provide developmentally appropriate and culturally relevant activities/care for children ages 5-12 in a variety of settings. Topics include: implementation of curriculum, preparation of environments, building relationships, guiding cognitive and social emotional development, and community outreach.
Prerequisite: None

EDUC& 150 Child, Family, and Community (3)
EDUCATION
Integrate the family and community contexts in which a child develops. Explore cultures and demographics of families in society, community resources, strategies for involving families in the education of their child, and tools for effective communication.
Prerequisite: None

EDUC& 202 Introduction to Education (5)
EDUCATION
Introduction to the history, philosophy, principles, learning theories, issues, and trends of education. Includes observations of educational models and exploration of career paths.
Prerequisite: None.

EDUC& 203 Exceptional Child (3)
EDUCATION
Introduction to the categories of special needs and the rules and regulations concerning special education and related services. Overview of the issues and techniques, current trends, and classroom approaches for maximizing the development of children with special needs.
Prerequisite: CSS 103 with a "D" or higher or concurrent enrollment.

EDUC 211 Diversity in Education: D (3)
EDUCATION
Overview of diversity in education including culture, ethnicity, family structure, socio-economics and educational philosophy.
Prerequisite: None

EDUC 223 Practicum and Seminar (1-5)
EDUCATION
Practical application of education coursework in the K-3 classroom setting. Attend a weekly seminar and work with children in a public or private school setting under the direct supervision of a certified/licensed staff member or teacher. Experiences will include supporting and assisting in instructional and other services to children, youth and their families.
Prerequisite: Department chair permission.

EDUC 246 Working with Bilingual Children (3)
EDUCATION
Focuses on effectively meeting the learning needs of children whose first language is not English. Explores ways to collaborate with family and other professionals to meet the needs of bilingual learners.
Prerequisite: None

EDUC 260 Instructional Technology (3)
EDUCATION
Interactive hands-on approach to learning and evaluating different software programs for use in educational technology and its application in today's classroom. Emphasis on turning basic technology skills into effective and enhanced instructional skills.
Prerequisite: None

EDUC 299 Learning into Action (1-15)
EDUCATION
Student develops and completes curriculum-related independent project which demonstrates skills and abilities and explores career options. May include, but is not limited to, service learning, original research, and travel abroad. Faculty sponsor approval required. Students with 45 transferable college credits are eligible to begin Learning into Action.
Prerequisite: None

ELA 010 ELA Orientation (1-8)
BASIC EDUCATION FOR ADULTS
Orientation for English language learners to the Adult ELA program and college resources and services. Through educational interviewing and CASAS assessment students are supported in identifying educational and career goals and in appropriate course registration.

ELA 011 ELA Level 1 (Beginning ELA Literacy) (10)
BASIC EDUCATION FOR ADULTS
ELA Level 1 (Beginning ELA Literacy) Students improve English listening, speaking, reading, writing and comprehension with a goal to develop college and career readiness skills.

ELA 012 ELA Level 2 (Beginning ELA) (10)
BASIC EDUCATION FOR ADULTS
ELA Level 2 (Beginning ELA) Students improve English listening, speaking, reading, and writing and comprehension with a goal to develop college and career readiness skills.
Prerequisite: ELA 011 with a "P" (or placement into ELA 012)

ELA 013 ELA Level 3 (Low Intermediate ELA) (10)
BASIC EDUCATION FOR ADULTS
ESL Level 3 (Low Intermediate ESL) Students improve English listening, speaking, reading, and writing and comprehension with a goal to develop college and career readiness skills.
Prerequisite: ELA 012 with a P (or placement into ELA 013)

ELA 014 ELA Level 4 (High Intermediate ESL) (10)
BASIC EDUCATION FOR ADULTS
ELA Level 4 (High Intermediate ESL). Students improve English listening, speaking, reading, and writing and comprehension with a goal to develop college and career readiness skills.
Prerequisite: ELA 013 with a P (or placement into ELA 014)

ELA 015 ELA Level 5 (Low Advanced ESL) (10)
BASIC EDUCATION FOR ADULTS
ELA Level 5 (Low Advanced ELA). Students improve English listening, speaking, reading, and writing and comprehension with a goal to develop college and career readiness skills. Prepares students for transition to On Ramp.
Prerequisite: ELA 014 with a P (or placement into ELA 015)

ELA 018 ELA College Transition (4)
BASIC EDUCATION FOR ADULTS
In this course, students will be introduced to college and career pathways. Students will acquire contextualized English language skills. Students will learn about the United States higher education system and identify college resources and support services, culminating in designing a life and education plan that reflects their college, career, and personal goals. Students will receive study skills instruction contextualized to co-enrolled classes.
Prerequisite: ELA 015 with a "P" (or placement into ELA 018)

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ELA 020 English for Special Purposes (1-10)
BASIC EDUCATION FOR ADULTS
Special topics support English speaking, listening, reading and writing skills for persons with limited English language skills. Topics may include areas of academic interest, career exploration, or civics.

ELA 021 ELA General Instruction I (1-16)
BASIC EDUCATION FOR ADULTS
The first course in a three course series for improving English Language skills in listening, speaking, reading, writing, and math. Coursework may be contextualized in social science, science, or humanities topics.

ELA 022 ELA General Instruction II (1-16)
BASIC EDUCATION FOR ADULTS
Second in a series of three courses to improve English skills in listening, speaking, reading, writing, and math toward transition into high school equivalency, IBEST, and/or college coursework. Course work may be contextualized in social science, science, or humanities topics.

ELA 023 ELA General Instruction III (1-16)
BASIC EDUCATION FOR ADULTS
The third in a series of three courses to improve English skills in listening, speaking, reading, writing and math to prepare for transition to high school completion, I-BEST, college programs or employment. Coursework may be contextualized in social science, science, or humanities topics.

ELA 024 ELA Computer Basics (1-5)
Introduction to basic computer skills for ELA students who are novice computer users. Through a hands-on approach, understand common computer terms, develop navigation skills with the keyboard and mouse, manage electronic files, send and receive email, locate information on the World Wide Web, and explore e-learning tools. English language skills (reading, writing, listening, and speaking) will be taught in the context of using a personal computer.

ELA 025 ELA Digital Literacy (1-5)
BASIC EDUCATION FOR ADULTS
This course covers skills and knowledge needed to effectively use technology for college and career success.

ELA 033 Speaking and Listening Level 5 (3)
BASIC EDUCATION FOR ADULTS
A course for English Language Acquisition students with an emphasis on developing speaking fluency, listening, and pronunciation skills. Use correct word stress in sentences.Demonstrate ability to comprehend, pronounce, and define academically appropriate vocabulary. Pronounce syllables and vowel reduction. Develop vowel, consonant , consonant blends correct pronunciation.
Prerequisite: ELA 014 with a P (or placement into ELA 033)

ELA 034 Speaking and Listening (1-3)
BASIC EDUCATION FOR ADULTS
A course for English Language Acquisition students with an emphasis on developing speaking fluency, listening, and pronunciation skills.
Prerequisite: ELA 015 with a "P" (or placement into ELA 034)

ELA 035 On-Ramp Speaking and Listening (1-4)
BASIC EDUCATION FOR ADULTS
A course for English Language Acquisition students with an emphasis on developing speaking fluency, listening, and pronunciation. This prepares students for College and Career Bridge classes.Speak for understanding and clarity through peer interviews, group discussions, and presentations. Demonstrate ability to comprehend , pronounce, and define academically appropriate vocabulary. Participate actively in class and group discussions. Demonstrate academic listening comprehension by identifying main ideas and answering questions about lectures, Ted Talks , or Podcasts.
Prerequisite: ELA 015 with a "P" (or placement into ELA 035)

ELA 043 ELA Grammar I (1-5)
BASIC EDUCATION FOR ADULTS
This course covers topics in English grammar.
Prerequisite: Completion of ELA 013 with a P grade OR appropriate CASAS score OR Instructor permission.

ELA 044 ELA Grammar II (1-5)
BASIC EDUCATION FOR ADULTS
This course explores topics in English grammar.
Prerequisite: Completion of ELA 013 with a P grade OR appropriate CASAS score OR Instructor permission.

ELA 045 Grammar III (1-5)
BASIC EDUCATION FOR ADULTS
This course explores topics in English grammar.
Prerequisite: Successful completion of ELA 013 with a P grade OR appropriate CASAS score.

ELA 050 Connect I: Reading and Writing (9)
BASIC EDUCATION FOR ADULTS
ELA students with clearly defined academic goals will take an intensive course for English language learners with an emphasis on sentence structure, academic vocabulary development, grammar skills, and reading strategies that will prepare students for ELA 60.
Prerequisite: CASAS and CaMLA testing and permission of ELA and EAP department chairs.

ELA 055 Connect I: Listening and Speaking (9)
BASIC EDUCATION FOR ADULTS
ELA students with clearly defined academic goals will take an intensive course for English language learners with an emphasis on communication skills that will prepare students for ELA 65.
Prerequisite: CASAS and CaMLA testing and permission of ELA and EAP department chairs.

ELA 060 Connect II: Reading and Writing (9)
BASIC EDUCATION FOR ADULTS
ELA students with clearly defined academic goals will take an intensive course for English language learners with an emphasis on paragraph structure, academic vocabulary development, grammar skills, and reading strategies that will prepare students for ELA 70.
Prerequisite: CASAS and CaMLA testing, B- (80%) or higher in ELA 50, and/or permission of ELA and EAP department chairs.

ELA 064 ELA Grammar I (1-5)
BASIC EDUATION FOR ADULTS
This course covers topics in English grammar.
Prerequisite: Completion of ELA 013 or appropriate CASAS score or Instructor permission.

ELA 065 Connect II: Listening and Speaking (9)
BASIC EDUATION FOR ADULTS
ELA students with clearly defined academic goals will take an intensive course for English language learners with an emphasis on communication skills that will prepare students for ELA 75.
Prerequisite: CASAS and CaMLA testing, B- (80%) or higher in ELA 055, or permission of ELA and EAP department chairs

ELA 065 ELA Grammar II (1-5)
BASIC EDUATION FOR ADULTS
This course explores topics in English grammar.
Prerequisite: Completion of ELA 013 or appropriate CASAS score or Instructor permission.

ELA 066 ELA Grammar III (1-5)
BASIC EDUATION FOR ADULTS
This course explores topics in English grammar.
Prerequisite: Successful completion of ELA 013 or appropriate CASAS score.

ELA 066 Grammar III (1-5)
BASIC EDUCATION FOR ADULT
This course explores topics in English grammar.
Successful completion of ELA 013 or appropriate CASAS score.

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ELA 070 Connect III: Reading and Writing (9)
BASIC EDUCATION FOR ADULT
ELA students with clearly defined academic goals will take an intensive course for English language learners with an emphasis on basic essay structure, academic vocabulary development, grammar skills, and reading strategies that will prepare students for ELA 97.
Prerequisite: CASAS and CaMLA testing, B- (80%) or higher in ELA 060, or permission of ELA and EAP department chairs

ELA 075 Connect III: Listening and Speaking (9)
BASIC EDUCATION FOR ADULT
ELA students with clearly defined academic goals will take an intensive course for English language learners with an emphasis on communication skills.
Prerequisite: CASAS and CaMLA testing, B- (80%) or higher in ELA 065, or permission of ELA and EAP department chairs

ELA 095 Transitional Read Write (10)
BASIC EDUCATION FOR ADULT
Examine habits, attitudes, and thought processes that lead to academic and professional success. Improve academic language skills including English writing, reading, listening, and speaking skills.
Prerequisite: ELA 015 with a "P" (or placement into ELA 095)

ELA 097 Bridge I: Composition (5)
BASIC EDUCATION FOR ADULT
ELA students with clearly defined academic goals who are preparing for academic and university transfer studies will take a semi-intensive course for English language learners with an emphasis on academic composition and grammar skills that will prepare students for ELA 98.
Prerequisite: CASAS and CaMLA testing, B- (80%) or higher in ELA 70, or permission of ELA and EAP department chairs.

ELA 098 Bridge II: Composition (5)
BASIC EDUCATION FOR ADULT
ELA students with clearly defined academic goals will take a semi-intensive course for English language learners with an emphasis on academic composition and grammar skills that will prepare students for English 99.
Prerequisite: CASAS and CaMLA testing, B- (80%) or higher in ELA 097, or permission of ELA and EAP department chairs.

ENGL 092 Basic Writing Foundation (1-10)
HUMANITIES
Introduction to expressing ideas on paper and understanding basic grammar. (Variable credit, 1-10)
Prerequisite: None

ENGL 095 Transitional Reading and Writing (1-10)
HUMANITIES
Examine habits, attitudes, and thought processes that lead to academic and professional success. Improve academic confidence through building critical thinking, writing, and reading skills, as well as digital literacy.
Prerequisite: CASAS Reading GOALS score of 217-227 or Accuplacer NextGen Reading Score 200-226.

ENGL 096 English Foundations (1-5)
HUMANITIES
This course covers grammar, reading, writing, and communication skills that help guarantee students will be successful in their college-level English classes.
Prerequisite: Either ENGL 095 or CCB 095 or ELA 095 with a "C" or higher (or CASAS Reading score 228-242 or Accuplacer NextGen Reading score 227-236).

ENGL 097 College Prep English (1-10)
HUMANITIES
Improve academic skills and confidence through mastering critical thinking, writing, and reading skills. Identify and implement habits, attitudes, and thought processes that lead to academic and professional success.
Prerequisite: ENGL 096 with a "D" or higher (or placement into ENGL 097).

ENGL 098 Integrated Reading and Writing (10)
HUMANITIES
Students will develop reading and writing skills needed for success in college level courses through integrated assignments and intensive practice.
Prerequisite: None

ENGL 099 Basic Composition (5)
HUMANITIES
The study of fundamentals of grammar, syntax, and composition leading to the construction of effective sentences, paragraphs, and essays.
Prerequisite: Grade of 2.0 or higher in ENGL 97, or AESL 98, or appropriate test score and concurrent enrollment or completion of CSS 103.

ENGL& 101 English Composition I (5)
HUMANITIES
The study of fundamental writing skills and varied writing strategies leading to the planning, organizing, writing, and revising of academic essays.
Prerequisite: ENGL 099 with a ""C"" or higher (or placement into ENGL& 101).

ENGL& 102 Composition II (5)
HUMANITIES
The planning, researching, and writing of a substantial academic paper based on a clearly stated thesis and using a variety of scholarly sources.
Prerequisite: ENGL& 101 with a "C" or higher.

ENGL 103 Advanced Composition (5)
HUMANITIES
The advanced study of and practice in writing within academic contexts. Includes the planning, researching, writing, and revising of academic essays and the integration of appropriate scholarly sources.
Prerequisite: ENGL& 101 with a "C" or higher.

ENGL& 111 Introduction to Introduction to Literature: D (5)
HUMANITIES
Course focuses on the process of reading, analyzing, and writing critical responses to a variety of literary texts from at least three different genreswith emphasis on cultural context.
Prerequisite: ENGL& 101 with a "C" or higher.

ENGL& 112 Introduction to Fiction: D (5)
HUMANITIES
The study of the formal strategies of novels and shorter fictional works. Course includes written and oral analysis of selected works.
Prerequisite: Completed ENGL& 101 with a "C" or higher.

ENGL& 113 Introduction to Poetry: D (5)
HUMANITIES
The study of the formal strategies of poetry. Course includes written and oral analysis of selected works.
Prerequisite: ENGL& 101 with a "C" or higher.

ENGL 115 Introduction to Film: D (5)
HUMANITIES
A survey of the history of film and the development of cinematic technique. Course includes written and oral analysis of selected works.
Prerequisite: ENGL& 101 with a "C" or higher.

ENGL 120 Introduction to Children's Literature (5)
HUMANITIES
An exploration of literature written for children including fairytales, picture books, myths, poetry and fiction for preschool and school age children and adolescents. Readings will include works from cultures from throughout the world.
Prerequisite: None

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ENGL 170 Professional and Technical Communication (3)
HUMANITIES
English 170 is the study of fundamental composition skills and writing strategies commonly used in employment situations. By the end of the quarter, students will have written and revised a number of writing assignments, including but not limited to memoranda, letters of inquiry and response, summaries, technical descriptions, instructions, and business proposals.
Prerequisite: ENGL 099 with a "C" or higher (or placement into ENGL& 101).

ENGL& 220 Introduction to Shakespeare (5)
HUMANITIES
An introductory survey course that explores the plays of William Shakespeare from literary and historical perspectives.
Prerequisite: ENGL& 101 with a "C" or higher.

ENGL& 235 Technical Writing (5)
HUMANITIES
Introduction to and practice in planning, researching, and writing clear and concise technical reports of at least 1,250 words, progress reports, proposals, letters of applications and transmittal, and resumes.
Prerequisite: ENGL& 101 with a "C" or higher.

ENGL& 236 Creative Writing I (5)
HUMANITIES
Helps to develop skills in writing fiction, creative nonfiction, or poetry (emphasis to be determined by instructor). Students will read and discuss works by professional authors, compose original works, and participate in peer workshops.
Prerequisite: ENGL& 101 with a "C" or higher.

ENGL 239 Introduction to U.S. Latino Literature: D (5)
HUMANITIES
This course focuses on the reading, analyzing, and writing critical responses to literary works by U.S. Latinos, with an emphasis on writers of Mexican descent. Particular attention will be paid to the roles that history and culture play in the formation of works of fiction, poetry, non-fiction and drama. Knowledge of Spanish is not required.
Prerequisite: ENGL& 101 with a "C" or higher.

ENGL 250 Introduction to American Literature: D (5)
HUMANITIES
This course introduces analysis and interpretation of a diverse selection of works of American literature from several major movements and time periods, with an emphasis on interpreting the works in cultural context.
Prerequisite: ENGL& 101 with a "C" or higher.

ENGL& 254 World Literature I (5)
HUMANITIES
A study of literary tradition and techniques outside of America, including literature in translation. May be organized around specific genres, themes, regions or time periods. Includes written and oral analysis of different genres, including fiction, nonfiction, drama, and poetry.
Prerequisite: ENGL& 101 with a "C" or higher.

ENGL 261 Integrative Seminar (1)
HUMANITIES
Students explore the ways in which the culture of a particular time and place influences and is influenced by the literature of that time and place.
Prerequisite: None

ENGL 283 British Literature 19th and 20th Centuries: D (5)
HUMANITIES
Course introduces analysis and interpretation of 19th and 20th century British literature in cultural context.
Prerequisite: ENGL& 101 with a "C" or higher.

ENGL 295 English Integrative Experience Seminar (2)
HUMANITIES
An Integrative Experience emphasizing an interdisciplinary approach to current issues in English, including the societal context of English and technology, and/or the ethical, political, and cultural aspects of English.
Prerequisite: None

ENGL 299 Learning into Action (1-15)
HUMANITIES
Student develops and completes curriculum-related independent project which demonstrates skills and abilities and explores career options. May include, but is not limited to, service learning, original research, and travel abroad. Faculty sponsor approval required. Students with 45 transferable college credits are eligible to begin Learning into Action.
Prerequisite: None

ENGL 324 Advanced Writing in Science (5)
HUMANITIES
Focuses on the skills necessary to write in the natural sciences. Problems common to all technical writing will be discussed. Develop effective ways to describe equipment, processes and procedures; to classify, analyze, and present information; explain principles, laws, and concepts. Intensive peer review is a strong component. The course includes a significant research component.
Prerequisite: Admission to BASEC or Department Chair permission.

ENGR 100 Engineering Orientation (2)
SCIENCE, TECHNOLOGY, ENGINEERING, AND MATH
Introduction to the engineering disciplines and career paths. Specific topics include plans of study for an engineering major, academic study strategies for engineering courses, degree and transfer options, and engineering ethics.
Prerequisite: None

ENGR& 104 Introduction to Engineering and Design (5)
SCIENCE, TECHNOLOGY, ENGINEERING, AND MATH
Introduction to the engineering profession and the elements of engineering design and communication through a project-based approach which stresses the design process, creative and analytic thinking, and teamwork.
Prerequisite: ENGL 097 with a grade of "C" or higher; and MATH 098 with a grade of "C" or higher (or placement into MATH 099).

ENGR& 114 Engineering Graphics (5)
SCIENCE, TECHNOLOGY, ENGINEERING, AND MATH
Methods of depicting three-dimensional objects and communicating design information. Emphasis is on using parametric solid modeling software as a design tool and freehand sketching to develop visualization skills.
Prerequisite: MATH 098 with a grade of "C" or higher (or placement into MATH 099).

ENGR 119 Engineering Mathematics Preparation (2)
SCIENCE, TECHNOLOGY, ENGINEERING, AND MATH
Additional exposure to various mathematical concepts (e.g., differentiation; integration; vector calculus; etc.) and how they apply within an engineering context. Intended as an additional pathway through the upper-division engineering curriculum for students that do not quite meet certain course prerequisites.
Prerequisite: MATH& 151 with a grade of C or higher (or concurrent enrollment).

ENGR 170 Fundamentals of Materials Science (5)
SCIENCE, TECHNOLOGY, ENGINEERING, AND MATH
An introduction to materials science. Explores the relationship between material processing, structure, properties, and manufactured product performance. Topics include metallic, ceramic, and polymeric materials; multiphase systems; amorphous and crystalline microstructures; and their relationship with thermal, optical, electrical, chemical,

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and mechanical properties. Other topics include: phase equilibrium, heat treatments, strengthening and failure mechanisms, etc.
Prerequisite: CHEM& 161 with a grade of C or higher or concurrent enrollment.

ENGR 199 Cooperative Education Experience (1-15)
SCIENCE, TECHNOLOGY, ENGINEERING, AND MATH
Work experience related to career interests in the field. Instructor permission required.
Prerequisite: None

ENGR& 214 Statics (5)
SCIENCE, TECHNOLOGY, ENGINEERING, AND MATH
The fundamentals of Newtonian equilibrium mechanics using vector notation. Equilibrium of particles and rigid bodes, structural analysis, internal forces, friction, center of gravity and centroids, and moments of inertia.
Prerequisite: MATH& 151 with a grade of "C" or higher (or concurrent enrollment); and PHYS& 241 with a grade of "C" or higher (or concurrent enrollment).

ENGR& 215 Dynamics (5)
SCIENCE, TECHNOLOGY, ENGINEERING, AND MATH
Kinematics of particles, systems of particles, and rigid bodies; moving reference frames; kinetics of particles, systems of particles, and rigid bodies; equilibrium, energy, linear momentum, angular momentum, Euler equations, and special problems (e.g., central force motion, vibration).
Prerequisite: ENGR& 214 with a grade of "C" or higher; and MATH& 151 with a grade of "C" or higher (or concurrent enrollment); and PHYS& 241 with a grade of "C" or higher (or concurrent enrollment).

ENGR 216 Integrated CAD Design (5)
SCIENCE, TECHNOLOGY, ENGINEERING, AND MATH
CAD based analysis for engineering design focused on the application of motion, finite element analysis and CAD simulations to the engineering design process. Emphasis on communication of physical parameters and mechanical properties of designs in a virtual prototype environment.
Prerequisite: ENGR& 114 with a grade of C- or higher.

ENGR& 224 Thermodynamics (5)
SCIENCE, TECHNOLOGY, ENGINEERING, AND MATH
Introduction to the basic principles of thermodynamics, from a predominately macroscopic point of view. Development of the basic laws of thermodynamics, together with their illustration by application to energy transformations and state changes in engineering problems. Individual and group design projects. History of and contributions by various cultures to thermodynamics.
Prerequisite: MATH& 152 with a grade of "C " or higher (or concurrent enrollment); and PHYS& 242 with a grade of "C" or higher (or concurrent enrollment).

ENGR& 225 Mechanics of Materials (5)
SCIENCE, TECHNOLOGY, ENGINEERING, AND MATH
Introduction to the concepts of stress, deformation, and strain in solid materials. Development of basic relationships between loads on structural and machine elements such as rods, shafts, and beams, and the stresses, deflections, and load-carrying capacity of these elements under tension, compression, torsion, bending and shear forces, or combinations thereof. Individual and group design projects. History of and cultural contributions to the mechanics of materials.
Prerequisite: ENGR& 214 with a grade of "C" or higher; and MATH& 152 with a grade of "C " or higher (or concurrent enrollment); and PHYS& 242 with a grade of "C" or higher (or concurrent enrollment).

ENGR& 240 Engineering Computation (5)
SCIENCE, TECHNOLOGY, ENGINEERING, AND MATH
An introduction to engineering and scientific computing using a high-level, interpreted programming language (e.g., MATLAB; Python). Topics include modeling physical quantities using vectors and matrices; program architecture (e.g., logic; loops; functions); data pre- and postprocessing; and visualization. Specific applications include solutions of linear and nonlinear systems; regression and interpolation; numerical differentiation and integration; and solution of ordinary differential equations. Emphasis given to practical applications and how the subject applies in industry.
Prerequisite: MATH& 153 with a grade of C or higher (or concurrent enrollment with concurrent enrollment in ENGR 119).

ENGR 299 Learning into Action (1-15)
SCIENCE, TECHNOLOGY, ENGINEERING, AND MATH
Student develops and completes curriculum-related independent project which demonstrates skills and abilities and explores career options. May include, but is not limited to, service learning, original research, and travel abroad. Faculty sponsor approval required. Students with 45 transferable college credits are eligible to begin Learning into Action.
Prerequisite: None

ENVC 101 Introduction to Watershed Management (5)
NATURAL SCIENCES
Basic geologic processes related to aquatic systems such as rivers, lakes, and wetlands. Measuring and calculating watershed management parameters encouraging quantitative thinking. Includes map interpretation skills. Introduction to Excel and reading figures/tables.
Prerequisite: MATH 097 with a grade of "C" or higher (or concurrent enrollment.) Lab and field trips required.

ENVC 102 Invertebrate Biology and Identification (4)
NATURAL SCIENCES
Natural history, biology, and taxonomy of common invertebrates including their natural history and biogeographic distribution.
Prerequisite: None

ENVC 104 Introduction to Natural Resources (1)
NATURAL SCIENCES
Introduction to natural resource agencies and institutions, including career opportunities; i.e. the role of the technician in forestry, fisheries, agriculture and parks. Includes student success skills.
Prerequisite: CSS 103 with a "D" or higher or concurrent enrollment.

ENVC 105 Emergency Incident Management System (3)
NATURAL SCIENCES
Introduction to Incident Management System and emergency operations. Satisfies training requirements for the National Incident Management System and ICS100/200.
Prerequisite: None

ENVC 106 Soil Science and Conservation (5)
NATURAL SCIENCES
Study of soils as living ecosystems, including their physical, chemical, and biological properties. Nutrient cycling, fertility management, soil building, and site diagnosis and classification are also examined. Field trips are an integral part of this course.
Prerequisite: None

ENVC 112 Limnology (5)
NATURAL SCIENCES
Introduction to natural and human-induced processes that shape lake ecosystems. Quantitative and qualitative measuring techniques will be used to assess water quality, including biological integrity.
Prerequisite: ENVC 101 or ENVS& 101 with a "C" or higher. Lab and field trips required.

ENVC 122 Stream Ecology (5)
NATURAL SCIENCES
Introduction to physical, chemical and biological components of lotic systems and their anthropogenic impacts. Sampling techniques, lab procedures, water quality and stream habitat will be evaluated. Perform bioassessment. Exploration of global and cultural issues in relation to rivers.
Prerequisite: ENVC 112 with a "C" or higher.

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ENVC 123 Fish Biology, Taxonomy, and Life History (5)
NATURAL SCIENCES
Classification, biology, physiology, and evolution of representative North American fish.
Prerequisite: None

ENVC 130 Environmental Interpretation (5)
NATURAL SCIENCES
Research presentation and communication styles through oral, visual, and audio-visual means of the history, geology, or natural history of an area, concept or species. Interpretation and discussion of ancient cultural archeological sites and influences on the present.
Prerequisite: None

ENVC 133 Facilities Maintenance Fundamentals (5)
NATURAL SCIENCES
Introduction to facilities maintenance including basic grounds maintenance, electrical, plumbing, and carpentry fundamentals. Includes sediment and erosion control measures for construction sites.
Prerequisite: None

ENVC 140 Plants of Western Washington (5)
NATURAL SCIENCES
Collection, identification, and plant community grouping of local and regional gymnosperms and angiosperms. Identify invasive species.
Prerequisite: None

ENVC 165 Sustainability Fundamentals (5)
NATURAL SCIENCES
Introduction to understanding sustainability principles in human societies. Evaluate how sustainability principles can be applied to urbanization, agriculture and the business world in light of climate change. Solutions will be explored in renewable energy, water resources, transportation, and globalization in the light of environmental economics.
Prerequisite: None

ENVC 199 Cooperative Education (1-15)
NATURAL SCIENCES
Supervised work experience in the field. Includes a weekly seminar.
Prerequisite: Instructor permission required.

ENVC 201 Watershed Restoration (5)
NATURAL SCIENCES
Techniques and ecological context for restoration and its application in the conservation of biodiversity. Covers state and federal laws pertaining to ecological field work and potential funding sources. Evaluation of social and economic impact of restoration to diverse groups of people. Includes methods in biological engineering.
Prerequisite: ENVC 101 with a "C" or higher. Field trips required.

ENVC 202 Wildlife Biology: D (5)
NATURAL SCIENCES
Concepts in wildlife management and conservation biology. Understand and identify wildlife management perspectives and constraints in relation to different cultural and social values. Includes relationships between land use patterns and responses by wildlife populations, and wildlife management with climate change challenges. Lab included.
Prerequisite: Reading in technical journals and report writing required.

ENVC 210 Fish Ecology and Management (5)
NATURAL SCIENCES
Fish communities and their ecological and physical requirements. Emphasis on population dynamics in relation to habitat changes and fishing pressures.
Prerequisite: ENVC 122 and ENVC 123 with a "C" or higher. Report writing required.

ENVC 211 Ecological Sampling and Monitoring Design (4)
NATURAL SCIENCES
General sampling concepts and population estimation. Methods in ecological sampling of mammals, birds, amphibians, reptiles, fish, and vascular plants. TFW program procedures for stream ambient monitoring.
Prerequisite: Field trips required. Strongly recommended: familiarity with computers and spreadsheets. Strongly recommended: familiarity with computers and spreadsheets.

ENVC 212 Fluid Flow Laboratory (2)
NATURAL SCIENCES
Focuses on the use of approved methods for collection, testing and reporting of results of samples taken to obtain data for submission to state and federal regulatory agencies. Use of appropriate methods for collection, testing and reporting of results of effluent samples used to control operation of Water and Wastewater Treatment plants.
Prerequisite: Either placement into OR co-enrollment in OR completion of a college-level Math course with a grade of "C" or higher.

ENVC 220 Wetlands in Managed Landscapes (4)
NATURAL SCIENCES
General overview of wetland soils, hydrology, and ecology including wetland delineation. Application of basic landscape ecology theory and human impacts on wetlands.
Prerequisite: ENVC 101 and ENVC 122 with a "C" or higher. Field trips required.

ENVC 221 Ecology of Ecosystem Edges/Ecotones (3)
NATURAL SCIENCES
Importance of ecotones between freshwater systems and upland areas. Essential biological processes shaping ecological properties of ecotones at various scales of time and space. Students must conduct research and give a short seminar.
Prerequisite: ENVC 101 and ENVC 202 with a "C" or higher.

ENVC 222 Field Project (3)
NATURAL SCIENCES
Field project in cooperation with a landowner starting with a proposal performing an ecological survey and analysis, and ending with a written report based on data collected by the student. Includes research in technical journals, and time estimates.
Prerequisite: ENVC 202 and 210 or department chair approval.

ENVC 225 Current Issues in Ecology (2)
NATURAL SCIENCES
A current topic of ecology will be examined through guest speakers combined with literature research and seminar presentations.
Prerequisite: ENVC 101 or 112 or BIOL& 221 or 241 or CHEM& 161 or 242 or PHYS& 241.

ENVC 226 Current Issues in Water Policy (2)
NATURAL SCIENCES
Current topics in U.S. water policies will be examined and evaluated. Water quality standards and the current regulatory environment will be of special interest.
Prerequisite: None

ENVC 231 Introduction to Mammalogy (5)
NATURAL SCIENCES
Natural history, structure, identification, and classification of North American mammals.
Prerequisite: None

ENVC 232 Bird Identification (5)
NATURAL SCIENCES
Natural history, biology, taxonomy, and identification of Pacific Northwest species.
Prerequisite: None

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ENVC 244 Salmon Ecology (3)
NATURAL SCIENCES
Ecology of the Pacific Northwest salmon and their importance to social and economic values.
Prerequisite: None

ENVC 249 Introduction to Wastewater Technology (5)
NATURAL SCIENCES
Introduction to the practical aspects of operating and maintaining wastewater treatment plants. Learn to analyze and solve operational problems including mathematical calculations relating to wastewater treatment process control. Covers plant safety, good housekeeping, equipment maintenance, and laboratory procedures.
Prerequisite: Either placement into OR co-enrollment in OR completion of a college-level Math course with a grade of "C" or higher.

ENVC 250 Introduction to Water Treatment (5)
NATURAL SCIENCES
Focuses on training water treatment operators in the practical aspects of operating and maintaining water treatment facilities. Includes water sources, reservoir management, infrastructure needs, and water safety.
Prerequisite: Either placement into OR co-enrollment in OR completion of a college-level Math course with a grade of "C" or higher.

ENVC 302 Data Management (2)
NATURAL SCIENCES
Development of a data management strategy from field collection, processing, to data storage. Emphasis will be given to the use of tablets and cell phones for field collection to server storage.
Prerequisite: Admission to BASEC or Department Chair permission.

ENVC 304 River Ecology and Watershed Management (5)
NATURAL SCIENCES
Watershed perspective to learn about rivers and streams with special emphasis on the Pacific Northwest coastal ecoregion. Topics include hydrology, hyporheic flow, geomorphology, stream classification, riparian ecology, and biogeochemical cycles. Development of watershed and ecosystem management at the appropriate spatial and temporal scales including adaptive management processes incorporating cultural values and philosophies allowing successful watershed management.
Prerequisite: Admission to BASEC or Department Chair permission. GIS 101.

ENVC 310 Soil Ecology (5)
NATURAL SCIENCES
Fundamental principles of soil ecology in relation to physical, nutrient cycling dynamics, biogeochemical cycling, belowground biomass, biodiversity of soil organisms, and soil food webs and ecological processes.
Prerequisite: Admission to BASEC or Department Chair permission.

ENVC 315 Limnology and Reservoir Ecology (5)
NATURAL SCIENCES
Structure and function of lakes, ponds, and reservoirs. Includes physical, chemical, and biological controls of productivity and species composition of aquatic flora and fauna, and effects of pollution on water quality.
Prerequisite: Admission to BASEC or Department Chair permission.

ENVC 320 Landscape Ecology (5)
NATURAL SCIENCES
The science and art of studying and influencing the relationships between spatial pattern and ecological processes across different spatio-temporal scales and levels of biological organization.
Prerequisite: Admission to BASEC or Department Chair permission.

ENVC 327 Advanced Wetland Ecology (5)
NATURAL SCIENCES
Wetland hydrology, biogeochemistry, and biological adaptations to wetland conditions. Including global wetland issues, wetlands and climate change, international management of wetlands, and human interface with wetland in different socio-economic settings. Course includes advanced wetland delineation.
Prerequisite: Admission to BASEC or Department Chair permission.

ENVC 405 Behavioral Ecology (5)
NATURAL SCIENCES
Investigates the evolutionary and ecological behavioral adaptations of animals. Various taxonomic groups will be examined with an emphasis on vertebrate species as well as species of ecological and economic importance. Ecological behavior will be viewed in light of ecosystem management activities.
Prerequisite: Admission to BASEC or Department Chair permission.

ENVC 407 Forest Ecology (5)
NATURAL SCIENCES
Forest ecology includes the development of forestry, biogeochemistry, nutrient cycling, transfer and storage of energy, and the physical environment. Forest management as a renewable resource, including fire ecology, forest succession, and functioning of forest ecosystems.
Prerequisite: Admission to BASEC or Department Chair permission.

ENVC 410 Conservation Biology (5)
NATURAL SCIENCES
Exploring the world's biological diversity including a wide range of species, complex ecosystems, and the genetic variation within species. Conservation biology is an interdisciplinary science that includes not only biological and ecological solutions, but includes socio-economic aspects. Includes ecological modeling.
Prerequisite: Admission to BASEC or Department Chair permission.

ENVC 412 Natural Resource Policy Analyses (5)
NATURAL SCIENCES
Course evaluates and analyzes a broad range of contemporary natural resource policies, case studies, and controversies using bioeconomic resource management models. Topics include wildlife and fisheries policies, forestry policies, tropical deforestation, water rights/management policies, endangered species and nature preservation a, and sustainable development.
Prerequisite: Admission to BASEC or Department Chair permission.

ENVC 420 Estuarine and Nearshore Ecology (5)
NATURAL SCIENCES
Provide an integrated view of the ecological processes in estuaries and nearshore environments. Special emphasis will be on the Salish Sea and the Pacific Northwest coastal environments.
Prerequisite: Admission to BASEC or Department Chair permission.

ENVC 422 Culminating Project (5)
NATURAL SCIENCES
Carry out a field project including all aspects of documentation. Includes initial proposal, peer review processes, data collection and analysis, secondary research, time estimates, and report writing.
Prerequisite: Admission to BASEC or Department Chair permission.

ENVC 424 Applied Population and Community Ecology (5)
NATURAL SCIENCES
Principles of population dynamics and ecosystem functioning. Key issues in the study of biodiversity and ecosystems, including functional complementarity, food web stability and complexity, material cycling, and meta-communities.
Prerequisite: Admission to BASEC or Department Chair permission.

8 Course Descriptions

ENVC 451 Independent Study (1)
NATURAL SCIENCES
Special project as approved by instructor and department chair.
Prerequisite: None

ENVC 452 Independent Study (2)
NATURAL SCIENCES
Special project as approved by instructor and department chair.
Prerequisite: None

ENVC 453 Independent Study (3)
NATURAL SCIENCES
Special project as approved by instructor and department chair.
Prerequisite: None

ENVC 454 Independent Study (4)
NATURAL SCIENCES
Special project as approved by instructor and department chair.
Prerequisite: None

ENVC 455 Independent Study (5)
NATURAL SCIENCES
Special project as approved by instructor and department chair.
Prerequisite: None

ENVC 499 Internship (3)
NATURAL SCIENCES
Supervised work experience in the field. Internship positions must include an interview process. Part of the work experience must include a leadership component.
Prerequisite: Admission to BASEC or Department Chair permission.

ENVS& 101 Introduction to Env Science (5)
NATURAL SCIENCES
Investigates connections between environmental problems (e.g. global climate change, air and water pollution, biodiversity and habitat loss) and human activities (e.g. population dynamics, fossil fuel use, deforestation, industrial agriculture). Utilizes sustainability and socio-economic perspectives to understand environmental degradation (e.g. eco-footprint, externalized costs, ecosystem services, natural capital).
Prerequisite: ENGL 097 or EAP 098 with a grade of "C" or higher (or placement into ENGL 098); and either placement into OR co-enrollment in OR completion of a college-level Math course with a grade of "C" or higher.

ENVS 314 Environmental Science and the Manager (5)
NATURAL SCIENCES
Investigate how human activities such as fossil use and industrial agriculture impact the global environment. Analyze the relationships between components of sustainability and socio-economic perspectives on the environment, such as eco-footprint, externalized costs, ecosystem services, and natural capital. Examine the contributions that workplace leadership can make to solve global environmental issues such as climate change, air and water pollution, and biodiversity loss with a focus on the equity impact of sustainability solutions.
Prerequisite: Admission to BASM program and Dept. Chair permission.

ETHNC 100 American Minorities: D (4)
SOCIAL SCIENCES
The culture, contributions and contemporary issues of Asian, Black, Chicano, and Native Americans, with an emphasis on the historical experience and contributions of American minorities.
Prerequisite: ENGL 099 with a "C" or higher (or placement into ENGL& 101).

ETHNC 111 Pacific Northwest Indigenous People: D (5)
SOCIAL SCIENCES
The social and cultural evolution of the indigenous peoples of the Pacific Northwest including historical context, colonization, and continued presence as self-determining political actors in a contemporary multicultural region Focus on such aspects as U.S. policy toward native people, tribal sovereignty, treaty rights, education, health, economic development, and urbanization.
Prerequisite: ENGL 099 with a "C" or higher (or placement into ENGL& 101).

ETHNC 120 Introduction to the Chicano Movement: Culture, Politics, and Thought (5)
SOCIAL SCIENCES
This course will explore the economic, pollical, and cultural factors the lead to the creation of Chicana/o/@ identity and the political movement by the same name. We will explore ways in which Chicano identity becomes a way for Mexican American and others to resist oppression but also a means of creating coalitions and growing political power in order the make real world change. We will explore cultural expression by Chicanos from the early part of the 20th century up to the last ten years as we situate those examples of culture within a historical and economic perspective. Students will be asked to read historical, creative, and theoretical writing and take part in discussion about challenging topics related to race, ethnicity, gender, sexuality, national identity, and power. We will look at several topics over the quarter while analyzing them through a range of critical perspectives including but not limited to historical-materialist, intersectional, women of color feminist, and queer of color.
Prerequisite: ENGL& 101 with a "C" or higher or concurrent enrollment.

ETHNC 201 Minorities in American Society: D (5)
SOCIAL SCIENCES
Study of theories used for explaining ethnic minority relations in American society. Includes study of prejudice, discrimination, racism, ethnocentrism, and cultural patterns.
Prerequisite: ENGL 099 with a "C" or higher (or placement into ENGL& 101).

ETHNC 299 Learning into Action (1-15)
SOCIAL SCIENCES
Student develops and completes curriculum-related independent project which demonstrates skills and abilities and explores career options. May include, but is not limited to, service learning, original research, and travel abroad. Faculty sponsor approval required. Students with 45 transferable college credits are eligible to begin Learning into Action.
Prerequisite: None.

FIRE 100 Principles of Emergency Services (5)
PUBLIC SERVICE AND SOCIAL SCIENCE
Overview of fire protection and emergency services, career opportunities in fire protection and related fields; culture and history of emergency services; fire loss analysis; organization and function of public and private fire protection services; fire department as part of local government; laws and regulation affecting the fire service; fire service nomenclature; specific fire protection functions; basic fire chemistry and physics; introduction to fire protection systems; introduction to fire strategy and tactics; and life safety initiatives.
Prerequisite: None

FIRE 101 Fire Chemistry (3)
PUBLIC SERVICE AND SOCIAL SCIENCE
Introduction to basic concepts of chemistry and the chemical/physical nature of fire and its development.
Prerequisite: None

FIRE 103 Building Construction For Fire Protection (3)
PUBLIC SERVICE AND SOCIAL SCIENCE
Concepts of building construction, structure rating and classification, and uniform codes. Building systems including floors, ceilings, walls, roofs and building support systems. Building collapse and firefighter safety in burning buildings.
Prerequisite: None

8 Course Descriptions

FIRE 120 Firefighter Skills I (8)
PUBLIC SERVICE AND SOCIAL SCIENCE
Preparation for initial assignment as a basic firefighter with a structural fire agency. Meets minimum training requirements of WAC 296-305 and NFPA Standard 1001, Standard for Fire Fighter Professional Qualifications. For students seeking Washington State Patrol, State Fire Marshals Office certification for Firefighter 1.
Prerequisite: CSS 103 with a "D" or higher or concurrent enrollment.

FIRE 121 Firefighter Skills II (4)
PUBLIC SERVICE AND SOCIAL SCIENCE
Continues foundational knowledge and skills mastered in FIRE 120. Prepares the student for mastery of higher level tactical skills and knowledge typically associated with truck company operations.
Prerequisite: FIRE 120 with a "C" or higher.

FIRE 122 Firefighter Skills III (4)
PUBLIC SERVICE AND SOCIAL SCIENCE
Continues the foundational knowledge and skills mastered in FIRE 121. Prepares the student for mastery of higher level tactical skills and knowledge typically associated with engine company operations. For students seeking Washington State Patrol, State Fire Marshals Office certification for Firefighter 2.
Prerequisite: FIRE 121 with a "C" or higher.

FIRE 126 Wildland Firefighting (3)
PUBLIC SERVICE AND SOCIAL SCIENCE
Firefighters who successfully complete this course will be qualified to suppress wildland fires while under close supervision. Provides required training for all personnel prior to certification as a Firefighter (FFT2) under the Wildland Qualification System (NWCG 310-1). A student who successfully completes the training has a completed Task Book and receives recommendation for certification.
Prerequisite: None

FIRE 130 Emergency Vehicle Driving (3)
PUBLIC SERVICE AND SOCIAL SCIENCE
Introduction to driving various types of fire apparatus in emergency and non-emergency modes. Meets academic and drill ground training requirements for Washington State Emergency Vehicle Accident Prevention certification. Valid driver's license required.
Prerequisite: None

FIRE 140 Emergency Medical Responder (5)
PUBLIC SERVICE AND SOCIAL SCIENCE
Classroom instruction and practical field exercises to prepare students to take the Washington State 60-hour First Responder emergency medical certification test battery.
Prerequisite: Department chair approval. In accordance with Washington State law, must be at least 17 years of age at course start.

FIRE 160 Hazardous Materials First Responder (5)
PUBLIC SERVICE AND SOCIAL SCIENCE
Prepares firefighters who witness or discover hazardous materials releases to recognize the presence of hazmat, protect themselves, secure the area, initiate emergency response of additional resources, and take defensive actions. Meets the training requirements for Hazardous Materials First Responder Awareness & Operations. Meets the training requirements for Hazardous Materials First ResponderAwareness & Operations Level certification.
Prerequisite: None

FIRE 162 Hazardous Materials Awareness For Public Safety (1)
PUBLIC SERVICE AND SOCIAL SCIENCE
Provides the basic skills necessary to safely and effectively manage the initial activities of an emergency involving the uncontrolled release of dangerous chemicals. Focuses on responding to and assessing the hazard involved, and making necessary notifications of hazardous material spills. For emergency pre-hospital care personnel, emergency communications officers, law enforcement officers, private industry employees, public works personnel, and Wildland firefighters.
Prerequisite: None

FIRE 199 Fire Service Internship (1)
PUBLIC SERVICE AND SOCIAL SCIENCE
Relevant work experience through appointment to a fire protection agency. Augments classroom learning by applying skills and knowledge learned and opportunity to develop workplace ethics, appropriate performance levels, and behavioral traits in workplace settings.
Prerequisite: Instructor permission required. Completion of FIRE 120 with minimum C grade or Department Chair approval. Must possess Firefighter 1 and Hazardous Materials First Responder, Operations certifications from the Washington State Fire Marshals Office. Must possess EMT-B certification from National Registry EMT.

FIRE 210 Fundamentals of Fire Prevention (3)
PUBLIC SERVICE AND SOCIAL SCIENCE
History and philosophy of fire prevention. Covers fire protection & prevention challenges, public education, laws and codes, and a review of current fire prevention programs.
Prerequisite: None

FIRE 211 Fire Protection Systems (3)
PUBLIC SERVICE AND SOCIAL SCIENCE
Introduction to the concepts and principles of fire protection systems including fire extinguishers, automatic sprinkler systems, standpipes, fire detection and alarm systems, and special hazard systems.
Prerequisite: None

FIRE 212 Fire Codes and Ordinances (3)
PUBLIC SERVICE AND SOCIAL SCIENCE
Covers the International Fire Code and certain chapters of the International Building Code. Develop a working knowledge of the Codes and their application to fire inspections.
Prerequisite: None

FIRE 213 Fire and Life Safety Education (3)
PUBLIC SERVICE AND SOCIAL SCIENCE
Provides the fundamental and technical knowledge needed to coordinate and deliver existing fire safety educational programs and information. Assists the student in meeting job performance requirements of NFPA 1035, Professional Qualifications for Fire & Life Safety Educator, for Fire & Life Safety Educator 1 and prepares the student for Washington State certification testing for Public Fire & Life Safety Educator.
Prerequisite: None

FIRE 214 Fire Investigation (3)
PUBLIC SERVICE AND SOCIAL SCIENCE
Provides the fundamental and technical knowledge needed for proper fire scene interpretations, including recognizing and conducting origin and cause, preservation of evidence and documentation, scene security, motives of the fire setter, and types of fire causes. Assists the student in meeting the job performance requirements of NFPA 1033, Professional Qualifications for Fire Investigator, and prepares the student for Washington State certification testing for Fire Investigator.
Prerequisite: None

FIRE 215 Fire Inspection and Code Enforcement (3)
PUBLIC SERVICE AND SOCIAL SCIENCE
Provides the fundamental and technical knowledge needed to conduct basic fire inspections and apply codes and standards. Assists the student in meeting the job performance requirements of NFPA 1031, Professional Qualifications for Fire Inspector and Plan Examiner, for Fire Inspector 1. Prepares the student for Washington State certification testing for Fire Inspector I.
Prerequisite: None

8 Course Descriptions

FIRE 223 Live Fire Operations (1)
PUBLIC SERVICE AND SOCIAL SCIENCE
Introduction to fire development theory as well as water application principals in order to effectively extinguish interior “”Class A”” fires. Provides the skills necessary to function as the nozzle operator of an interior fire attack team. Also introduces the basic properties of fire-fighting foam and the application methods used to control and combat “Class B” liquid fires.
Prerequisite: FIRE 271 or concurrent enrollment.

FIRE 230 Fire Service Hydraulics (3)
PUBLIC SERVICE AND SOCIAL SCIENCE
Introduction to hydraulics as it affects fire stream development and water supply. Includes formula and table calculation of friction loss and engine pressures using hydraulic principles. Covers water main systems, water tender shuttle operations, and fire engine pumping operations. Studies fire pump construction, operation, and techniques of pumping. Pumping evolutions are practiced to become proficient in performing various water supply and attack evolutions.
Prerequisite: None

FIRE 240 Rescue Systems Awareness (3)
PUBLIC SERVICE AND SOCIAL SCIENCE
Apply search and rescue skills, approach rescue situations safely, and understand the organizational concerns at a structural collapse incident. Provides skill sets that meet or exceed NFPA 1670 at the awareness level for various rescue situations.
Prerequisite: None.

FIRE 241 Vehicle Extrication (3)
PUBLIC SERVICE AND SOCIAL SCIENCE
Techniques of rescue company operations to gain entry to damaged vehicles, disentangle and prepare patients for transport, and extricate to safety and care. Includes scene management, heavy rescue apparatus, and equipment and practical applications.
Prerequisite: None

FIRE 242 Basic Emergency Medical Technician (12)
PUBLIC SERVICE AND SOCIAL SCIENCE
Training for the EMT-Basic level per National Standards Curriculum and abiding by the laws of the Washington State. Learn to recognize, assess and treat medical and trauma related emergencies at the basic life support level. Preparation for National Registry EMT certification testing and includes the National Registry Emergency Medical Technician certification practical examination for EMT-Basic.
Prerequisite: In accordance with Washington State law, must be at least 17 years of age at course start.

FIRE 243 Enhanced Emergency Medical Technician (15)
PUBLIC SERVICE AND SOCIAL SCIENCE
Training for the EMT-Basic level per National Standards Curriculum, Washington State Department of Health regulation, and Skagit County EMS protocol. Learn to recognize, assess, and treat medical and trauma-related emergencies at the basic life support level. Master field skills for placement in responding EMS companies. Preparation for National Registry EMT certification testing and includes the National Registry Emergency Medical Technician certification practical examination for EMT-Basic.
Prerequisite: Instructor permission required. In accordance with Washington State Law, must be at least 17 years of age at course start.

FIRE 246 Wilderness EMT (3)
PUBLIC SERVICE AND SOCIAL SCIENCE
For EMTs who need to acquire wilderness emergency medical skills and knowledge to be certified as Wilderness EMTs. Learn to provide patient care using improvised equipment.
Prerequisite: FIRE 242 or EMT-B certification.

FIRE 247 Basic Emergency Medical Technician, Part I (6)
PUBLIC SERVICE AND SOCIAL SCIENCE
Training for the EMT-Basic level per National Standards Curriculum and abiding by the laws of Washington State. Learn to recognize, assess, and treat medical and trauma-related emergencies at the basic life support level. Preparation for National Registry EMT certification testing.
Prerequisite: In accordance with Washington State Law, must be at least 17 years of age at course start.

FIRE 248 Basic Emergency Medical Technician, Part II (6)
PUBLIC SERVICE AND SOCIAL SCIENCE
Training for the EMT-Basic level per National Standards Curriculum and abiding by the laws of Washington State. Learn to recognize, assess, and treat medical and trauma-related emergencies at the basic life support level. Preparation for National Registry EMT certification testing and includes the National Registry Emergency Medical Technician certification practical examination for EMT-Basic.
Prerequisite: FIRE 247 with a minimum C grade.

FIRE 275 Emergency Service Leadership (3)
PUBLIC SERVICE AND SOCIAL SCIENCE
Meets training requirements for National Fire Academy, Leadership training series and part of Washington State training requirement for certification as Fire Officer I. For mid-range managers and company officers to enhance critical skills and experience needed to be effective as leaders.
Prerequisite: None

FIRE 278 Managing Company Tactical Operations (3)
PUBLIC SERVICE AND SOCIAL SCIENCE
Provides a basic foundation for the management of one or more companies operating at a structural fire emergency. Uses simulations to apply concepts and develop skills.
Prerequisite: None.

FIRE 279 Fire Services Safety and Survival (3)
PUBLIC SERVICE AND SOCIAL SCIENCE
Introduction to basic principles and history related to the national firefighter life safety initiatives, focusing on the need for cultural and behavior change throughout the emergency services.
Prerequisite: None

FL 131 Parent Education Co-op: Infants and Toddlers (2)
EDUCATION
For parents with infants and toddlers; birth to 36 months. Includes child growth and development, guidance techniques, nutrition, child health and safety, activities for infants and toddlers and parental development. Curriculum may be delivered through weekly home visits and group meetings.
Prerequisite: None

FL 132 Parent Education Cooperative I (3)
EDUCATION
For parents with preschool children. Parents will be involved in the operation of the program through parent meetings, committee work, and classroom involvement.
Prerequisite: None

FL 133 Parent Education Cooperative II (3)
EDUCATION
For parents of pre-school age children enrolled in a community-based cooperative preschool. Pre-school serves as a lab setting in which parents will observe child development and behavior, positive approaches to guidance and positive adult/child interactions. Parents will participate in assisting the teacher in the classroom, attending monthly parent education sessions, and assistance with a committee job to maintain the lab/school.
Prerequisite: None

8 Course Descriptions

FL 134 Parent Education Cooperative III (3)
EDUCATION
For parents of preschool age children enrolled in a community-based cooperative preschool. Provides an opportunity for parents to focus on areas of child development and behavior, lab school organizational development, parenting and/or parents as teachers. Student participation includes practicing developmentally appropriate child guidance and positive adult/child activities, assisting the teacher in the classroom, attending monthly parent education sessions, and performing committee or leadership roles to support the lab/school.
Prerequisite: None

FL 140 Parent Education Co-op for Second Parent (1)
EDUCATION
For second parent of families in cooperative group of toddlers, three-year olds, four-year olds, and five year olds. Parents will be involved in operation of the program through parent meetings, committee work, or classroom involvement.
Prerequisite: None

FL 142 Early Intervention Parent Education I (3)
EDUCATION
For parents with children enrolled in Early Intervention Services. Parents will learn vital parenting skills through individual coaching and guided play sessions with Early Intervention specialists.
Prerequisite: None

FL 143 Early Intervention Parent Education II (3)
EDUCATION
For parents with children enrolled in Early Intervention Services. Parents will learn vital parenting skills through individual coaching and guided play sessions with Early Intervention specialists.
Prerequisite: None

FL 144 Early Intervention Parent Education III (3)
EDUCATION
For parents with children enrolled in Early Intervention Services. Parents will learn vital parenting skills through individual coaching and guided play sessions with Early Intervention specialists.
Prerequisite: None.

GEOL& 100 Survey of Earth Science (5)
NATURAL SCIENCES
Introduction to the scientific study of the earth and space. Intended for non-scientists. Basic physics and chemistry applied to the earth and solar system. Emphasis on the evolution of the Pacific Northwest, including a survey of geologic, oceanographic, meteorologic, and astronomic processes that contributed to its development. Field trips may be required; however, the online course does not include field trips.
Prerequisite: ENGL 099 with a grade of "C" or higher (or placement into college-level English); and either placement into OR co-enrollment in OR completion of a college-level Math course with a grade of "C" or higher.

GEOL& 101 Introduction to Physical Geology (5)
NATURAL SCIENCES
A survey of physical systems that give the Earth its structure. Emphasis on internal and surface processes, and applying physical sciences to explain Earth composition, forms, and past. Field trips may be required. Lab included.
Prerequisite: ENGL 099 with a grade of "C" or higher (or placement into college-level English); and either placement into OR co-enrollment in OR completion of a college-level Math course with a grade of "C" or higher.

GEOL& 110 Environmental Geology (5)
NATURAL SCIENCES
Study of the interaction of humans and geological processes. Analysis of geologic hazards (volcanism, slope failure, earthquakes, flooding) and resource management (ores, water, energy resources, waste disposal). GEOL& 100 or 101 recommended. Field trips may be required. Lab included.
Prerequisite: ENGL 099 with a grade of "C" or higher (or placement into college-level English); and either placement into OR co-enrollment in OR completion of a college-level Math course with a grade of "C" or higher.

GEOL& 208 Geology of Pacific NW (5)
NATURAL SCIENCES
Field trips, hands-on examples, on-line resources, maps, and current topics are used to explore the geological processes that produced the landscapes, resources, and hazards seen today in Washington, Oregon, Idaho, and British Columbia. GEOL& 100, 101, 110, EASC 111, or OCEA& 101 recommended but NO PRIOR GEOLOGY COURSEWORK REQUIRED. Field trips may be required. Lab included.
Prerequisite: ENGL 099 with a grade of "C" or higher (or placement into college-level English); and either placement into OR co-enrollment in OR completion of a college-level Math course with a grade of "C" or higher.

GEOL 295 Geology Integrative Experience Seminar (2)
NATURAL SCIENCES
An Integrative Experience emphasizing an interdisciplinary approach to current issues in geology, including the societal context of geology and technology, and/or the ethical, political, and cultural aspects of geology.
Prerequisite: None

GIS 101 Introduction to Geographic Information Systems (5)
SCIENCE, TECHNOLOGY, ENGINEERING, AND MATH
Principles and conceptual overview of GIS software. Covers the use and applications in natural resource management, and other fields utilizing GIS, with hands-on experience using ArcGIS. Computer and spreadsheet familiarity required.
Prerequisite: None

GIS 102 Geographic Information Systems II (5)
SCIENCE, TECHNOLOGY, ENGINEERING, AND MATH
Develop advanced skills using ESRIs ArcGIS. Learn the basics of the Spatial Analyst and 3D Analyst extensions for ArcGIS. Other topics include types of GIS data available and map accuracy standards.
Prerequisite: GIS 101 with a "C" or higher.

GIS 105 Introduction to Global Positioning Systems (GPS) (2)
SCIENCE, TECHNOLOGY, ENGINEERING, AND MATH
Introduction to global positioning systems (GPS) and their uses in natural resources and agriculture.
Prerequisite: None

GIS 106 Advanced Global Positioning Systems (2)
SCIENCE, TECHNOLOGY, ENGINEERING, AND MATH
Continuation of GIS 105. Global Positioning Systems (GPS) data management. Integration of GPS data into mapping software and displaying with Google Earth and ArcGIS.
Prerequisite: GIS 101 with a "C" or higher and GIS 105 with a "C" or higher or concurrent enrollment.

GIS 107 Introduction to Global Positioning Systems (5)
SCIENCE, TECHNOLOGY, ENGINEERING, AND MATH
Introduction to Global Positioning Systems (GPS). Focusing on its uses in environmental and agricultural applications, including data management, GPS data integration with mapping software and displaying data with Google Earth and ArcMap. Emerging GPS data collection methods (i.e. apps like ArcCollector) with smart devices explored.
Prerequisite: None.

GIS 199 Cooperative Education (1-15)
SCIENCE, TECHNOLOGY, ENGINEERING, AND MATH
Supervised work experience in the field. Includes a weekly seminar.
Prerequisite: Instructor permission required.

8 Course Descriptions

GIS 202 Introduction to Remote Sensing (5)
SCIENCE, TECHNOLOGY, ENGINEERING, AND MATH
Principles and conceptual overview of remote sensing instruments and how data and images are used to monitor and evaluate the condition and distribution of the earth's surface features.
Prerequisite: GIS 102 with a "C" or higher.

GIS 203 Advanced GIS Project (5)
SCIENCE, TECHNOLOGY, ENGINEERING, AND MATH
Using ArcGIS, create individual GIS projects from pre-approved data sets. Covers formulating a research question for analysis, conducting background research, map development and layout, and presenting the results in a research paper.
Prerequisite: GIS 102 with a "C" or higher.

HCM 325 Project Management in Healthcare (5)
BAS: MANAGEMENT, HEALTHCARE MANAGEMENT
Provides a framework for understanding and applying the ideas, methods, principles, practices, and knowledge of structured project management in healthcare settings. Learn to apply the knowledge, skills, tools, and techniques for project activities necessary to meet project requirements through software and approaches modeled on the principles of Project Management Institute Global Standards. Emphasis is on project management application in healthcare settings.
Prerequisite: BASM Dept. Chair permission.

HCM 327 Marketing for Health Care Managers (5)
BAS: MANAGEMENT, HEALTHCARE MANAGEMENT
Develop the marketing knowledge and skills necessary for successful marketing in healthcare settings including aspects of business-to-business, business-to-customer, and appropriate use of digital platforms. Topics include marketing concepts and strategies, cost benefit analysis, and assessment of success of marketing initiatives.
Prerequisite: BASM Dept. Chair permission.

HCM 335 Healthcare Operations Management (5)
BAS: MANAGEMENT, HEALTHCARE MANAGEMENT
Explore and apply the concepts, principles, problems, and practices of operations management in different sizes and types of healthcare organizations. Topics include operations strategy, process design, capacity planning, facilities location and design, forecasting, scheduling, quality assurance, continual improvement and operational effectiveness, environmentally sustainable practices, and inventory management.
Prerequisite: BASM Dept. Chair permission.

HCM 339 Human Resources and the Healthcare Manager (5)
BAS: MANAGEMENT, HEALTHCARE MANAGEMENT
Explores the role that the human resources function and the manager play to achieve high levels of organizational performance in healthcare settings. Evaluate the organizational impact related to the following areas of human resources: talent acquisition and talent management; total rewards (compensation and benefits); evaluating and managing employee performance; union relationships, health, safety, and security.
Prerequisite: BASM Dept. Chair permission.

HCM 425 Principles of Finance in Healthcare (5)
BAS: MANAGEMENT, HEALTHCARE MANAGEMENT
Introduction to the application of financial management principles in the healthcare setting. Includes the analysis of financial statements for capital decision making and managing working capital (planning and control, equipment purchase and depreciation, budgeting) and. Review the people, processes, and technology used during each phase of the healthcare reimbursement cycle. Evaluate best practices in revenue cycle management, including coding and reimbursement to make effective management decisions.
Prerequisite: BASM Dept. Chair permission.

HIST& 116 Western Civilization I (5)
SOCIAL SCIENCES
Survey of the origins of Western civilization in the Near East, ancient Greece and Rome, through the end of the Middle Ages.
Prerequisite: ENGL 099 with a "C" or higher (or placement into ENGL& 101).

HIST& 117 Western Civilization II: D (5)
SOCIAL SCIENCES
Survey of the origins of Western civilization from the end of the Middle Ages, the Renaissance, the Reformation through the end of the French revolution.
Prerequisite: ENGL 099 with a "C" or higher (or placement into ENGL& 101).

HIST& 118 Western Civilization III: D (5)
SOCIAL SCIENCES
Survey of the origins of Western civilization from the end of the French revolution to the present day.
Prerequisite: ENGL 099 with a "C" or higher (or placement into ENGL& 101).

HIST 121 Religions of the World: D (5)
SOCIAL SCIENCES
Introduction to the history of the major world religions, with primary attention to their origins, basic structures, and role in contemporary society.
Prerequisite: ENGL 099 with a "C" or higher (or placement into ENGL& 101).

HIST& 126 World Civilizations I: D (5)
SOCIAL SCIENCES
A study of human achievements from prehistoric times through the Middle Ages. Includes the culture and institutions of Mesopotamia, Egypt, India, China, Greece, Rome, and medieval Europe.
Prerequisite: ENGL 099 with a "C" or higher (or placement into ENGL& 101).

HIST& 127 World Civilizations II: D (5)
SOCIAL SCIENCES
A survey of world civilizations from the 13th through the early 19th century. Includes the Renaissance and Reformation, Islamic Empires, European colonization, Scientific Revolution, and the American and French Revolutions.
Prerequisite: ENGL 099 with a "C" or higher (or placement into ENGL& 101).

HIST& 128 World Civilizations III: D (5)
SOCIAL SCIENCES
A survey of world history in the 19th and 20th centuries. Topics include the Industrial Revolution, global imperialism, nationalism and nation building, communism, fascism, and the Cold War.
Prerequisite: ENGL 099 with a "C" or higher (or placement into ENGL& 101).

HIST& 146 U.S. History I: D (5)
SOCIAL SCIENCES
A survey of the United States from the Native American cultures and the founding of the colonies through 1815.
Prerequisite: ENGL 099 with a "C" or higher (or placement into ENGL& 101).

HIST& 147 U.S. History II: D (5)
SOCIAL SCIENCES
A survey of United States history from 1815 to 1914.
Prerequisite: ENGL 099 with a "C" or higher (or placement into ENGL& 101).

HIST& 148 U.S. History III: D (5)
SOCIAL SCIENCES
A survey of United States history from 1914 to the present.
Prerequisite: ENGL 099 with a "C" or higher (or placement into ENGL& 101).

HIST& 214 Pacific NW History (5)
SOCIAL SCIENCES
Exploration, settlement, and development of the Pacific Northwest with emphasis on the state of Washington.
Prerequisite: ENGL& 101 with a "C" or higher.

8 Course Descriptions

HIST& 215 Women in U.S. History (5)
SOCIAL SCIENCES
This course explores womens place in American History, including historical attitudes about womens place in society and the realities of life and work for women of a variety of backgrounds in American History from pre-colonial times to the present. The course also covers the womens rights movements from the mid-1800s to the present.
Prerequisite: None

HIST& 219 Native American History: D (5)
SOCIAL SCIENCES
The American Indian from earliest times to the present.
Prerequisite: ENGL& 101 with a "C" or higher.

HIST 242 History of the Modern Middle East: D (5)
SOCIAL SCIENCES
With a particular emphasis on the effects of imperialism and colonialism, this course explores the social, political, and cultural changes that have occurred in the Middle East during the past two centuries, reflecting on the history of the region and the connection to present conflicts.
Prerequisite: ENGL& 101 with a "C" or higher.

HIST 270 History of Modern Asia (5)
SOCIAL SCIENCES
Comprehensive look at the events and people who have shaped the past 150 years of Asia-Pacific history, and relates it to Pacific Basin relationships today.
Prerequisite: ENGL& 101 with a "C" or higher.

HIST 280 Introduction to Chinese Civilization (1-5)
SOCIAL SCIENCES
Survey of Chinese history and culture from ancient time to present.
Prerequisite: None

HIST 295 History Integrative Experience Seminar (2)
SOCIAL SCIENCES
An Integrative Experience emphasizing an interdisciplinary approach to current issues in history, including the societal context of history and technology, and/or the ethical, political, and cultural aspects of history.
Prerequisite: None

HIST 299 Learning into Action (1-15)
SOCIAL SCIENCES
Student develops and completes curriculum-related independent project which demonstrates skills and abilities and explores career options. May include, but is not limited to, service learning, original research, and travel abroad. Faculty sponsor approval required. Students with 45 transferable college credits are eligible to begin Learning into Action.
Prerequisite: None

HMATH 100 Math for Health Professions (5)
SCIENCE, TECHNOLOGY, ENGINEERING, AND MATH
This course is non-transferrable and for health profession students only. Estimation and practical problem solving techniques explored through lecture, discussion and computer work. Topics include: medical abbreviations; conversions using metric, household, apothecary units and scientific notations; percentages; calculation of body statistics; medication dosages and intravenous flow rates.
Prerequisite: MATH 096 with a "C" or higher (or placement into MATH 097/WMATH 100).

HSC 010 Academic Success Skills (1-10)
BASIC EDUCATION FOR ADULTS
This course is designed to help students gain knowledge of academic success skills necessary for completion of a high school diploma. Guides students through the process of developing a plan for completing the requirements for their high school diploma and transition to college.
Prerequisite: CASAS reading score of 225 or higher or instructor permission.

HSC 015 HS21+ Prior and Experiential Learning Project (1-5)
BASIC EDUCATION FOR ADULTS
This course is designed to help students demonstrate high school competencies in fulfillment of HS21+ diploma requirements through completion of individual portfolio assignments.
Prerequisite: Completion of CCB 018 and Permission.

HSC 018 HSC First Quarter Experience (1-3)
BASIC EDUCATION FOR ADULTS
In this course, students will explore the relationship between power and education by learning about the historical inequities of the U.S. public school system. Students will identify the institutional, societal, and personal barriers to education that they have faced in the past and create a plan for overcoming those barriers in the future. Students will receive consistent study skills instruction and feedback that they will apply to co-enrolled courses.
Prerequisite: None

HSC 020 HSC Academic Skills Lab (1-5)
BASIC EDUCATION FOR ADULTS
Students receive support and tutoring in academic skills and subject content for coursework and competencies needed to meet adult high school completion requirements.
Prerequisite: None

HSC 021 Competency—Science w/ Lab (1)
BASIC EDUCATION FOR ADULTS
This course provides students the opportunity to demonstrate high school competency in lab sciences through life experience.
Prerequisite: Completion of HSC 018 and Department Chair permission

HSC 022 Competency—Health (1)
BASIC EDUCATION FOR ADULTS
This course provides students the opportunity to demonstrate high school competency in health through life experience.
Prerequisite: Completion of HSC 018 and Department Chair permission

HSC 023 Competency—Fine Arts(1)
BASIC EDUCATION FOR ADULTS
This course provides students the opportunity to demonstrate high school competency in fine arts through life experience.
Prerequisite: Completion of HSC 018 and Department Chair permission

HSC 024 Competency—PE (1)
BASIC EDUCATION FOR ADULTS
This course provides students the opportunity to demonstrate high school competency in physical education through life experience.
Prerequisite: Completion of HSC 018 and Department Chair permission

HSC 025 Competency—Occupational Education (1)
BASIC EDUCATION FOR ADULTS
This course provides students the opportunity to demonstrate high school competency in occupational education through life experience.
Prerequisite: Completion of HSC 018 and Department Chair permission

HSC 026 Competency—World Languages (1)
BASIC EDUCATION FOR ADULTS
This course provides students the opportunity to demonstrate high school competency in world languages through life experience.
Prerequisite: Completion of HSC 018 and Department Chair permission

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HSC 027 Competency—English (1)
BASIC EDUCATION FOR ADULTS
This course provides students the opportunity to demonstrate high school competency in English through placement exam and prior transcripts.

HSC 028 Competency—State History (1)
BASIC EDUCATION FOR ADULTS
This course provides students the opportunity to demonstrate high school competency in State History through life experience or prior transcripts.

HSC 029 Competency—U. S. History (1)
BASIC EDUCATION FOR ADULTS
This course provides students the opportunity to demonstrate high school competency in U.S. History through prior transcripts or life experience.

HSC 040 HSC Mathematics (5)
BASIC EDUCATION FOR ADULTS
This course covers topics in fulfillment of math requirements for the HS21+ diploma.
Prerequisite: Completion / co-enrollment in HSC 018 or permission.

HSC 044 HSC Inroduction to Geometry and Math Literacy (5)
BASIC EDUCATION FOR ADULTS
In this course, students explore a variety of topics related to geometry, both in theory and in practice.
Prerequisite: Completion of /co-enrollment in HSC 018 AND one of the following: completion of CCB 042, CASAS Math Goals score 226-235, or placement based on HS transcripts.

HSC 045 HSC Algebra II (5)
BASIC EDUCATION FOR ADULTS
This course continues topics covered in high school algebra and completes all HS math requirements for the HS21+ diploma.
Prerequisite: Completion of HSC 018 or Permission AND one of the following: completion of CCB 043, CASAS Math Goals score 236-250, or placement based on HS transcripts.

HSC 050 HSC Fine Arts (3)
BASIC EDUCATION FOR ADULTS
This course explores the forms, meanings, and purposes of art and its role in human society.
Prerequisite: Completion of/co-enrollment in HSC 018 or permission.

HSC 060 HSC Social Studies Project (1-5)
BASIC EDUCATION FOR ADULTS
This project-based course is designed to help students demonstrate competency in social studies subjects required for the HS+ diploma.
Prerequisite: HSC 018 with a "D" or higher AND HSC 065 with a "C" or higher (or 1 credit U.S. History from HS transcripts).

HSC 061 HSC World Problems and Fine Arts (5)
BASIC EDUCATION FOR ADULTS
This course explores the historical and cultural context of current world problems using methods of Theater of the Oppressed and/or other art forms.
Prerequisite: Completion of /co-enrollment in HSC 018 or Permission

HSC 062 HSC History, Geography, World Problems (1-5)
BASIC EDUCATION FOR ADULTS
This course explores the historical and cultural context of current world problems.
Prerequisite: Completion of /co-enrollment in HSC 018 or Permission.

HSC 063 HSC Civics and Government (2)
BASIC EDUCATION FOR ADULTS
In this course, students explore a number of systems of government, including their histories and underlying philosophies. Students also study the U. S. Constitution and gain a firm understanding of the roles of the 3 branches of government.
Prerequisite: HSC 065 with a "C" (or 1 credit U.S. History from HS transcripts) Prerequisite/ Corequisite: HSC 018 with "D".

HSC 065 HSC U.S. History (1-5)
BASIC EDUCATION FOR ADULTS
This course examines major developments in U.S. history.
Prerequisite: HSC 018 or ELA 018 with a "D" or higher (or concurrent enrollment).

HSC 066 Washington State History (3)
BASIC EDUCATION FOR ADULTS
Students explore topics in Washington State history.
Prerequisite: CASAS Reading Score 228 or completion of CCB/ENGL 095 AND Co-requisite HSC 018.

HSC 067 Washington State History and the Environment (3)
BASIC EDUCATION FOR ADULTS
Students explore the ways in which human civilization has shaped the land in Washington State throughout its history.
Prerequisite: CASAS Reading Score 228 or completion of CCB/ENGL 095 AND Co-requisite HSC 018.

HSC 068 HSC Washington State History and Ethnic Studies (5)
BASIC EDUCATION FOR ADULTS
This course examines major developments in Washington State history and the Pacific Northwest region.
Prerequisite/Corequisite: HSC 018 or ELA 018 with a D or higher (or concurrent enrollment).

HSC 069 Washington State History and the Environment (w/ lab) (5)
BASIC EDUCATION FOR ADULTS
Students explore the ways in which human civilization has shaped the land in Washington State throughout its history.
Prerequisite: CASAS Reading Score 236 or completion of CCB/ENGL 096 AND co-requisite HSC 018.

HSC 070 HSC Science Project (5)
BASIC EDUCATION FOR ADULTS
This course covers science topics in Life and/or Physical Sciences in fulfillment of high school completion Science requirements. There is no lab associated with this course.
Prerequisite: HSC 018 with a "D" or higher.

HSC 071 HSC Physical Science and Algebra (1-10)
BASIC EDUCATION FOR ADULTS
For students who are interested in entering the medical or other STEM fields, especially Pre-Nursing, this course offers a refresher (or an introduction) to topics including physics, chemistry, and biology, along with the foundational math required to understand these subjects.
Prerequisite: Completion of HSC 018 or Permission. Students must have earned a passing grade in MATH 96, CCB 042, or a pre-algebra class at another institution.

HSC 073 HSC Science of Music (5)
BASIC EDUCATION FOR ADULTS
Students explore the connection between music and science by learning about the physics of sound, the biology of sound perception, and the psychology of human responses to music. This course is especially useful to students pursuing Early Childhood Education AAS or Education DTA.
Prerequisite: HSC 018 with a grade of D or higher; and MATH 96 or CCB 042 with a grade of C or higher, or a pre-algebra class at another institution; and CCB or ENGL 096 with a grade of C or higher OR placement into CCB or ENGL 097.

HSC 073 HSC Botany (5)
BASIC EDUCATION FOR ADULTS
Students explore the structure and life cycle of plants and their role in our ecosystem and in society.
Prerequisite: HSC 018 with a grade of D or higher; and MATH 96 or CCB 042 with a C or higher, or a pre-algebra class at another institution; and CCB or ENGL 096 with a C or higher OR placement into CCB or ENGL 097.

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HSC 075 HSC Science with Lab (5)
BASIC EDUCATION FOR ADULTS
This course covers life and /or physical science topics in fulfillment of lab science requirements for the HS21+ diploma.
Prerequisite: HSC 018 with a grade of D or higher; and MATH 96 or CCB 042 with a C or higher, or a pre-algebra class at another institution; and CCB or ENGL 096 with a C or higher OR placement into CCB or ENGL 097.

HSC 076 HSC Nutrition, Health and Fitness (5)
BASIC EDUCATION FOR ADULTS
This course explores basic principles of nutritional science, digestion, absorption, and metabolism, scientific evaluation of nutritional needs of humans, cultural influences on food, and current nutrition controversies.
Prerequisite: HSC 018 or ELA 018 with a "D" or higher (or concurrent enrollment).

HSC 080 HSC Physical Education and Health (3)
BASIC EDUCATION FOR ADULTS
This course covers topics in health and fitness in fulfillment of high school completion requirements.
Prerequisite: HSC 018 or ELA 018 with a "D" or higher (or concurrent enrollment).

HSC 081 Competency–World Problems (1)
BASIC EDUCATION FOR ADULTS
This course provides students the opportunity to demonstrate high school competency in World Problems through life experience or prior transcripts.
Prerequisite: None.

HSC 083 Competency–Electives (1-4)
BASIC EDUCATION FOR ADULTS
This course provides students the opportunity to demonstrate high school competency in electives through life experience.
Prerequisite: None.

HSC 084 Competency–Civics (1)
BASIC EDUCATION FOR ADULTS
Identify and document life experience to demonstrate competency in high school Civics.
Prerequisite: None.

HSC 085 Science 85 (1)
BASIC EDUCATION FOR ADULTS
This course provides students the opportunity to demonstrate high school competency in science through life experience and high school transcripts.
Prerequisite: None.

HSC 086 Competency–Competency–Algebra/Int. Math I (1)
BASIC EDUCATION FOR ADULTS
This course provides students the opportunity to demonstrate high school competency in algebra or Integrated Math I through life experience.
Prerequisite: None.

HSC 087 Competency–Geometry/Integrated Math II (1)
BASIC EDUCATION FOR ADULTS
This course provides students the opportunity to demonstrate high school competency in Geometry or Integrated Math II through life experience.
Prerequisite: None.

HSC 088 Competency–Algebra 2/ Integrated Mathematics III (1)
BASIC EDUCATION FOR ADULTS
This course provides students the opportunity to demonstrate high school competency in Algebra 2/Integrated Mathematics III.
Prerequisite: None.

HSC 089 Math 089 (1)
BASIC EDUCATION FOR ADULTS
This course provides students the opportunity to demonstrate high school competency in Math through life experience, placement, and high school transcripts.
Prerequisite: None.

HSERV 101 Introduction to Human Services (3)
PUBLIC SERVICE AND SOCIAL SCIENCE
Overview of the delivery systems in social services with focus on historical perspectives, pluralism and current trends. (Required course for students seeking a Human Services degree).
Prerequisite: CSS 103 or concurrent enrollment.

HSERV 102 Generalist Coordinated Care (5)
PUBLIC SERVICE AND SOCIAL SCIENCE
Preparation for coordinating individual client activities and evaluation of their needs. Includes current coordinated care techniques for those in the Human Services profession. Required coordinated care course for the generalist degree.
Prerequisite: None

HSERV 121 Introduction to Disabilities and Disability Law (4)
PUBLIC SERVICE AND SOCIAL SCIENCE
Overview of disabilities and disability law, and historical and current rehabilitation techniques. (Required course for students seeking a Generalist degree).
Prerequisite: None

HSERV 131 Human Development (5)
PUBLIC SERVICE AND SOCIAL SCIENCE
Introduction to the stages of human development with particular attention to adult life development. Explores the relevance of ethnicity, culture, gender, socioeconomic class, sexual orientation and community in a person's development. Required course for both Human Services degrees (including fast track students).
Prerequisite: HSERV 101 with a "C" or higher.

HSERV 132 Motivational Interviewing (4)
PUBLIC SERVICE AND SOCIAL SCIENCE
Introduction to basic terminology and techniques involved in Motivational Interviewing. This is a skill building course for students interested in entering the Human Services profession. Required course for both Human Services degrees (not required for fast track students).
Prerequisite: None.

HSERV 141 Alcoholism and other Addictive Disorders (5)
PUBLIC SERVICE AND SOCIAL SCIENCE
Social, psychological, and physiological aspects of drug abuse and addictive disorders. Introduction to drug use behaviors and their impact on contemporary society. Foundational course for those who desire more knowledge regarding psychoactive drugs, drug-use behavior and the treatment systems currently available to assist those with drug related problems. Required course for both Human Services degrees (including fast track students).
Prerequisite: None.

HSERV 145 Addictions and the Law (5)
PUBLIC SERVICE AND SOCIAL SCIENCE
Overview of the mutual impacts of substance use disorder treatment and the legal system on each other. Guidelines and laws which affect case management and the structures and functions of courts as they affect addiction treatment. Federal and state confidentiality law. Required course for students seeking the Substance Use Disorder Counseling degree (including fast track students).
Prerequisite: None.

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HSERV 147 Basic Mediation Training (5)
PUBLIC SERVICE AND SOCIAL SCIENCE
Learn the skills, tools and processes of effective mediation. Reviews the causes and dynamics of conflict and mediator interventions. Explores communication skills designed to facilitate cooperation and help parties reach agreement. (Required course for students seeking the Generalist degree).
Prerequisite: HSERV 101 with a "C" or higher.

HSERV 171 HIV/AIDS and Bld Pathogen Trng for Substance Use Disorder Professional (1)
PUBLIC SERVICE AND SOCIAL SCIENCE
Covers HIV/AIDS and includes Brief Risk Intervention (BRI) segment. Satisfies the Washington State Department of Health requirement for those applying to become Substance Use Disorder Professionals (SUDP). Required for students seeking the Substance Use Disorder Counseling degree (including fast track students).
Prerequisite: None.

HSERV 198 Pre-Practicum Seminar (3)
PUBLIC SERVICE AND SOCIAL SCIENCE
Provides information, direction and sequence of tasks in preparation for practicum in an agency setting. Identify specific responsibilities for successful practicum experience and become familiar with the paperwork flow and purpose of each task. Required for both Human Services degrees (not required for fast track students).
Prerequisite: None

HSERV 199 Practicum (1-4)
PUBLIC SERVICE AND SOCIAL SCIENCE
Supervised practicum in an approved human services agency site. Structured learning and development of workplace skills. Opportunity for application of critical thinking skills, pluralism, and communication skills within human services systems. Concurrent enrollment in HSERV 200. Required for both Human Services degrees (not required for fast track students).
Prerequisite: HSERV 101 and HSERV 198 with a "C" or higher.

HSERV 200 Practicum Seminar (1)
PUBLIC SERVICE AND SOCIAL SCIENCE
Discussion of issues arising in field placement. Must be taken concurrently with HSERV 199. Required for both Human Services degrees (not required for fast track students).
Prerequisite: HSERV 101 and HSERV 198 with a "C" or higher.

HSERV 203 Introduction to Counseling (5)
PUBLIC SERVICE AND SOCIAL SCIENCE
Historical perspectives, theory and fundamentals of counseling therapies as related to Human Services agency work. Introduction to evidenced-based and Best Practices models. Development of basic techniques and critical thinking skills appropriate for mental health, substance abuse disorders and rehabilitation counseling. Required course for both Human Services degrees (including fast track students).
Prerequisite: HSERV 101 with a "C" or higher.

HSERV 221 Crisis Intervention (5)
PUBLIC SERVICE AND SOCIAL SCIENCE
Theory and techniques of crisis intervention with an emphasis on assessment and knowledge of local resources. Required course for both Human Services degrees (not required for fast track students).
Prerequisite: HSERV 101 with a "C" or higher.

HSERV 231 Psychopathology and Therapeutic Intervention in Mental Health (4)
PUBLIC SERVICE AND SOCIAL SCIENCE
Survey of various treatment approaches in mental health, substance abuse treatment, etiology of mental disorders, and DSM diagnostic criteria. Required course for both Human Services degrees (including fast track students).
Prerequisite: HSERV 101 with a "C" or higher.

HSERV 232 Justice, Equity, Diversity, and Inclusion in Human Services: D (5)
PUBLIC SERVICE AND SOCIAL SCIENCE
A diversity intensive course that examines historical information related to the development of our multiethnic society. Ethnic privilege, prejudice, racism, discrimination, and basic human rights are reviewed. Required course for both Human Services degrees (including fast track students).
Prerequisite: None.

HSERV 241 Addictive Disorders and the Family (3)
PUBLIC SERVICE AND SOCIAL SCIENCE
Alcoholism and other disorders as a family disease; effects of role disturbance, boundary violations, and communication disruptions on children, spouse, and family systems; therapeutic interventions for families. Development of a multicultural perspective in working with families and within communities. Required course for students seeking the Substance Use Disorder Counseling track (including fast track students).
Prerequisite: None

HSERV 242 Physiology and Pharmacology of Psychoactive Drugs (3)
PUBLIC SERVICE AND SOCIAL SCIENCE
Broad overview of the pharmacological and physiological impact of psychoactive drug use coupled with a detailed examination of the neurochemical changes that accompany drug dependencies. Required course for students seeking the Substance Use Disorder Counseling degree (including fast track students).
Prerequisite: HSERV 141 with a "C" or higher.

HSERV 243 Substance Use Disorder Assessment and Case Management (4)
PUBLIC SERVICE AND SOCIAL SCIENCE
Introduction to the tools and techniques (including ASAM criteria) used for drug and alcohol assessments and case management. Covers treatment plan formation and the implementation of quality care as well as making appropriate referrals. Required course for students seeking the Substance Use Disorder Counseling degree (including fast track students).
Prerequisite: HSERV 141 with a "C" or higher.

HSERV 244 Group Process and Addictive Disorders (3)
PUBLIC SERVICE AND SOCIAL SCIENCE
Group counseling skills for working with addicted clients in residential and outpatient treatment settings. Includes best practices, emerging practices and other major counseling theories and techniques. Required course for students seeking the Substance Use Disorder Counseling degree (including fast track students).
Prerequisite: HSERV 141 with a "C" or higher.

HSERV 245 Professional Ethics (3)
PUBLIC SERVICE AND SOCIAL SCIENCE
Presentation and discussion of ethical principles and codes of professional behavior for those working in substance use disorder counseling, mental health services, developmental disability rehabilitation and other human service settings. Required course for both Human Services degrees (including fast track students).
Prerequisite: None

HSERV 248 Adolescent Addictive Disorders Counseling (3)
PUBLIC SERVICE AND SOCIAL SCIENCE
Provides the opportunity to pursue substance use disorder counseling qualifications to learn how to work with children and adolescents in an

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effective manner. Required course for students seeking the Substance Use Disorder Counseling degree (including fast track students).
Prerequisite: None

INV 011 INVEST Orientation (2)
BASIC EDUCATION FOR ADULTS
Students develop tools and skills to prepare for academic, employment, and personal success. Specific emphasis on academic and career goal setting, resources, and success strategies. Topics include study skills, goal-setting, college policies and resources, programmatic requirements, and accessing local and state resources, academic and career planning, time management, relationships, and self-empowerment.
Prerequisite: None

INV 020 INVEST Digital Technology (1-5)
BASIC EDUCATION FOR ADULTS
Provides opportunities for INVEST students to learn assistive and learning technologies, explore learning styles, and develop study and test-taking strategies. Students receive instruction in learning and applying reading strategies and navigating college courses.
Prerequisite: None

INV 030 INVEST Communication and Self-advocacy (3)
BASIC EDUCATION FOR ADULTS
Students develop an understanding of the key differences between the child and adult service structures for people with disabilities. The course provides a framework for disclosure of disability in academic and career settings. Students will explore the advantages and disadvantages of disclosure while practicing self-advocacy skills in school and work-based environments. Students explore the differences between causal and professional communication and demonstrate effective communication strategies in higher education and employment settings.
Prerequisite: None

INV 035 INVEST Critical Thinking (2)
BASIC EDUCATION FOR ADULTS
Students gain skills and practice in evaluating information from a variety of sources to make informative decisions relating to learning, life choices, and employment.
Prerequisite: None

INV 040 INVEST Career Inventory (2)
BASIC EDUCATION FOR ADULTS
Students to use previous experiences, skills, interests, and assessments to guide career development. Students set short and long term employment goals, practice interviewing, and development employment related materials such as resume, cover letter, and diversity statement.
Prerequisite: None

INV 045 INVEST Interview Skills (2)
BASIC EDUCATION FOR ADULTS
Students learn to communicate skills and strengths to potential employers. Students will engage in mock interviews in class and will be able to watch and critique themselves on video.
Prerequisite: None

INV 050 INVEST Balancing Work and Life (2)
BASIC EDUCATION FOR ADULTS
Develop understanding and skills necessary to balance work, school, and personal life, minimizing potential barriers to success. Participate in discussions aimed at better understanding the impact that complex social situations and a variety of other factors can have on life success. Practice using a range of organizational tools that assist with time management, develop strategies to identify and solve problems, and create a final project that addresses a student's individual plan, strategies, and tools.
Prerequisite: None

INV 055 INVEST Study Lab (1-5)
BASIC EDUCATION FOR ADULTS
Independent guided study lab to support students in meeting learning objectives for the INVEST program.
Prerequisite: None

INV 060 INVEST Elective (1-10)
BASIC EDUCATION FOR ADULTS
Students meet individualized learning outcomes through attendance in SVC courses or independent study.
Prerequisite: None

INV 061 INVEST Fine and Performing Arts (1-5)
BASIC EDUCATION FOR ADULTS
Students meet individualized learning outcomes in fine or performing arts through classroom instruction or independent study.
Prerequisite: None

INV 062 INVEST Industrial Arts (1-5)
BASIC EDUCATION FOR ADULTS
Students meet individualized learning outcomes in industrial arts through classroom instruction or independent study.
Prerequisite: None

INV 063 INVEST Food and Hospitality (1-10)
BASIC EDUCATION FOR ADULTS
Students meet individualized learning outcomes in food and hospitality through classroom instruction or independent study.
Prerequisite: none

INV 064 INVEST Business Technology (1-5)
BASIC EDUCATION FOR ADULTS
Students meet individualized learning outcomes in business technology through class instruction or independent study.
Prerequisite: None

INV 065 INVEST Health and Wellness (1-5)
BASIC EDUCATION FOR ADULTS
Students meet individualized learning outcomes in health and wellness through classroom instruction or independent study.
Prerequisite: None

INV 066 INVEST Media and Journalism (1-5)
BASIC EDUCATION FOR ADULTS
Students meet individualized learning outcomes in Media or Journalism through classroom instruction or independent study.
Prerequisite: None

INV 067 INVEST Leadership and Communication (1-5)
BASIC EDUCATION FOR ADULTS
Students meet individualized learning outcomes in leadership and/or communication studies through classroom instruction or independent study.
Prerequisite: None

INV 068 INVEST Customer Service (1-5)
BASIC EDUCATION FOR ADULTS
This course focuses on the importance of customer service and developing a customer-friendly approach that is right for every business. It covers the do's and don'ts of dealing with customers and the benefits of providing great customer service.
Prerequisite: None

Prerequisite: None

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INV 070 INVEST Service Learning (1-8)
BASIC EDUCATION FOR ADULTS
Examines civic responsibility and membership through service-related learning activities with local organizations and groups. Students form teams and identify meaningful ways to contribute to their communities.
Prerequisite: None

INV 071 INVEST Fine and Performing Arts II (1-15)
BASIC EDUCATION FOR ADULTS
Students meet individualized learning outcomes in fine or performing arts through classroom instruction or independent study.
Prerequisite: None

INV 072 INVEST Industrial Arts II (1-15)
BASIC EDUCATION FOR ADULTS
Students meet individualized learning outcomes in industrial arts through classroom instruction or independent study.
Prerequisite: None

INV 073 INVEST Food and Hospitality II (1-15)
BASIC EDUCATION FOR ADULTS
Students meet individualized learning outcomes in food and hospitality through classroom instruction or independent study.
Prerequisite: None

INV 074 INVEST Business Technology II (1-15)
BASIC EDUCATION FOR ADULTS
Students meet individualized learning outcomes in business technology through classroom instruction or independent study.
Prerequisite: None

INV 075 INVEST Practicum Seminar (1-6)
BASIC EDUCATION FOR ADULTS
Students participate in the practicum seminar while simultaneously completing community-based internships, combining classroom theory with practical experience gained in the workplace. The practicum experiences are tied directly to students' career goals and employment plan developed with Employment Consultant and employment agency. Students will discuss and track progress toward practicum learning outcomes, discuss issues and concerns that happen on the job with instructors and peers, and role-play effective on the job communication strategies.
Prerequisite: None

INV 076 INVEST Media and Journalism II (1-15)
BASIC EDUCATION FOR ADULTS
Students meet individualized learning outcomes in media and journalism through classroom instruction or independent study.
Prerequisite: None

INV 077 INVEST Leadership and Communication II (1-15)
BASIC EDUCATION FOR ADULTS
Students meet individualized learning outcomes in leadership and/or communication through classroom instruction or independent study.
Prerequisite: None

INV 079 INVEST Sciences II (1-15)
BASIC EDUCATION FOR ADULTS
Students meet individualized learning outcomes in science through classroom instruction or independent study.
Prerequisite: None

INV 080 INVEST Employment Internship (6)
BASIC EDUCATION FOR ADULTS
Students gain real world work experience and practice employability skills in a supervised job setting.
Prerequisite: None

INV 081 INVEST Fine and Performing Arts III (1-15)
BASIC EDUCATION FOR ADULTS
Students meet individualized learning outcomes in fine or performing arts through classroom instruction or independent study.
Prerequisite: None

INV 082 INVEST Industrial Arts III (1-15)
BASIC EDUCATION FOR ADULTS
Students meet individualized learning outcomes in industrial arts through classroom instruction or independent study.
Prerequisite: None

INV 083 INVEST Food and Hospitality III (1-15)
BASIC EDUCATION FOR ADULTS
Students meet individualized learning outcomes in food and hospitality through classroom instruction or independent study.
Prerequisite: None

INV 084 INVEST Business Technology II (1-15)
BASIC EDUCATION FOR ADULTS
Students meet individualized learning outcomes in business technology through classroom instruction or independent study.
Prerequisite: None

INV 085 INVEST Health and Wellness II (1-6)
BASIC EDUCATION FOR ADULTS
Students meet individualized learning outcomes in health and wellness through classroom instruction or independent study.
Prerequisite: None

INV 086 INVEST Media and Journalism III (1-15)
BASIC EDUCATION FOR ADULTS
Students meet individualized learning outcomes in media and journalism through classroom instruction or independent study.
Prerequisite: None

INV 087 INVEST Leadership and Communication III (1-15)
BASIC EDUCATION FOR ADULTS
Students meet individualized learning outcomes in leadership and/or communication through classroom instruction or independent study.
Prerequisite: None

INV 089 INVEST Sciences III (1-15)
BASIC EDUCATION FOR ADULTS
Students meet individualized learning outcomes in science through classroom instruction or independent study.
Prerequisite: None

INV 090 INVEST Capstone (3)
BASIC EDUCATION FOR ADULTS
Students prepare a portfolio of their work within INVEST, which will allow them to track and be aware of their own growth, accomplishments, learning, and employment readiness. The portfolio serves as their culminating project.
Prerequisite: None

INV 095 INVEST Health and Wellness III (1-15)
BASIC EDUCATION FOR ADULTS
Students meet individualized learning outcomes in health and wellness through classroom instruction or independent study.
Prerequisite: None

JAPN 100 Introduction to Japanese Language (3)
HUMANITIES
Introduction to Japanese culture and language with emphasis on speaking, listening, and comprehension of the spoken word.
Prerequisite: Grade of 2.0 or higher in ENGL 097, or AESL 098, or appropriate test score.

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JAPN& 121 Japanese I: D (5)
HUMANITIES
Pronunciation, vocabulary development, reading and writing of Hiragana, fundamentals of grammar and syntax, oral exercises, reading, conversation, and cultural studies.
Prerequisite: Grade of 2.0 or higher in ENGL 097, or AESL 098, or appropriate test score.

JAPN& 122 Japanese II: D (5)
HUMANITIES
Continued study of pronunciation; vocabulary development; reading and writing of Hiragana, Katakana, and Kanji; fundamentals of grammar and syntax; oral exercises; reading; conversation; and cultural studies.
Prerequisite: JAPN& 121 with a grade of C or higher.

JAPN& 123 Japanese III: D (5)
HUMANITIES
Expand verbal and written communication skills; continue study of grammar and syntax, oral exercises, reading, conversation, and culture. Read and write Hiragana, Katakana, and approximately 200 Kanji characters.
Prerequisite: JAPN& 122 with a grade of C or higher.

JAPN 299 Learning into Action (15)
HUMANITIES
Student develops and completes curriculum-related independent project which demonstrates skills and abilities and explores career options. May include, but is not limited to, service learning, original research, and travel abroad. Faculty sponsor approval required. Students with 45 transferable college credits are eligible to begin Learning into Action.
Prerequisite: None.

JOUR 101 Introduction to Journalism and Newswriting (5)
HUMANITIES
The course is designed to develop skill in investigative research and reporting, news-writing, and the basic principles of journalism. This introductory class focuses primarily on researching, writing/reporting skills.
Prerequisite: ENGL& 101 with a "C" or higher.

JOUR 201 Newspaper Production and Editing (2)
HUMANITIES
This course focuses on the development of skills in editing, desk-top publishing, and multi-media communication using basic principles of journalism and emphasizing production management and editorial leadership. It is designed for students interested in or already filling the positions of Editor, Assistant Editor, or Advertising Manager of the student newspaper. This course is repeatable up to 6 credits.
Prerequisite: JOUR 101 with a "C" or higher.

JOUR 202 Advanced Newswriting (2)
HUMANITIES
This course is designed to enhance newswriting skills as part of a student newspaper by expanding research and interviewing skills into investigative reporting, page editing, and multi-media writing experiences. This course is repeatable up to 6 credits.
Prerequisite: JOUR 101 with a "C" or higher.

LIB 201 Critical Information Studies and Research Methods (5)
SOCIAL SCIENCES
This course empowers students to find, evaluate and use information sources and critically think about the nature of information in both a scholarly setting and in society.
Prerequisite: Critical Information Studies and Research Methods.

MANF 102 Manufacturing Success Skills (3)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION
Introduction to the specific skills required for success in Manufacturing Technology. Topics include industrial safety, and computer competency. Includes learning how to use a variety of physical tools, computer applications and lean manufacturing concepts.
Prerequisite: None.

MANF 103 Introduction to Quality Assurance (3)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION
Introduction to the principles and purpose of Quality Assurance Management including an overview and awareness of the history, concepts and theory of quality as it relates to todays industrial/manufacturing environment. Examines issues affecting quality in manufacturing, and provides the statistical methods and the management philosophy which allow problems in production processes to be found and fixed resulting in continuous quality improvement. Gain a basic understanding of the quality control tools used in industry.
Prerequisite: MANF 110 with a "C-" or higher.

MANF 110 Introduction to Manufacturing (3)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION
Overview of the manufacturing sector including a historical look at manufacturing systems and organizations. Introduction to materials processing, industry standards, manufacturing methodologies, and different types of technology used in manufacturing (personal computers, data collection & analysis systems, automated equipment). Introduces the fundamentals of quality tools including histograms and control charts (SPC) and how they are used in manufacturing. Includes an introduction to the concepts of lean manufacturing, just in time, and green as applied in industry. Industry speakers, career exploration and industry site visits included.
Prerequisite: None.

MANF 114 Manufacturing Advanced Skills Onboarding (3)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION
Creates a foundational base for exploring three key disciplines in manufacturing: Composite Technology, Electronics, and CAD/CAM/CNC. Introduction to the key applications and concepts for these disciplines. Topics cover terminology, safety and tools used in these industries.
Prerequisite: MANF 132, MANF 149, and ENGR 216 all with a grade of C- or higher, or instructors permission.

MANF 115 Introduction to Computer Numeric Controlled (CNC) Operations (5)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION
Introduction to Computer Numeric Controlled (CNC) machine operation theory and practice. Covers basic G&M codes needed to program and operate CNC machinery. Course includes an introduction to hands-on CNC machine operations in the shop setting.
Prerequisite: None

MANF 120 Industrial Safety (2)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION
Instruction on safety topics and practices specifically related to industrial work environments. Topics include personal protective equipment, safety working with heavy industrial equipment, energy lock-out/tag-out procedures, material handling, electrical safety, machine guarding, fire prevention, hazard identification and control, and safety inspection practices. Culminates with OSHA 10 certification.
Prerequisite: None.

MANF 121 First Aid and CPR (1)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION
Basic First Aid, CPR and AED training. Students will receive a First Aid and CPR card upon completion.
Prerequisite: None.

MANF 122 Material Science in Manufacturing (2)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION
Material Science is a study of the nature, structure, characteristics, and properties of natural and synthetic materials used in contemporary industry. Introduction to the industrial materials most often found in manufacturing operations and facilities ranging from traditional metals,

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ceramics, and polymers, to advanced engineering materials and composites. Emphasis will be placed on understanding how the structure and properties for industrial uses influence material selection, and the selection of processes used in the conversion of those materials into useful products.
Prerequisite: None.

MANF 125 Precision Measurement and Tools (3)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION
Introduction to the science of metrology (precision measurement and tolerances), and the basic hand and machine tools commonly used in a manufacturing workplace. Reviews the fundamental skills required to perform precision dimensional measurements and introduces the concepts of Statistical Process Control (SPC). Identify and classify a variety of basic hand and machine tools as well as common fasteners.
Prerequisite: None.

MANF 127 Manufacturing Math (2)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION
Applies the mathematical concepts taught in WMATH 100 to a manufacturing specific context. Focuses on basic statistics, trigonometry and summation notation.
Prerequisite: WMATH 100 with a "C-" or higher or concurrent enrollment.

MANF 132 Material Science (3)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION
Introduction to industrial materials most often found in manufacturing operations. Develop an understanding of how the structure and properties of materials for industrial uses influence material selection and the selection of processes used in the conversion of those materials into useful products. Apply material knowledge to the prototype and materials testing process.
Prerequisite: MANF 137, MANF 148, and ENGR& 114 all with a grade of C- or higher.

MANF 137 Precision Measurement (3)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION
Introduction to the science of metrology (precision measurement and tolerances), commonly used in a manufacturing workplace. Review fundamental skills required to perform precision dimensional measurements and introduce the concepts of Statistical Process Control (SPC). Inspect manufactured products, collect the data, and analyze the results.
Prerequisite: MANF 102 with a grade of C- or higher.

MANF 140 Print Reading in Manufacturing (3)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION
Introduction to the fundamentals of blueprint reading emphasizing industrial drawings commonly used in manufacturing. Review symbol conventions and visualization of solid objects from orthographic and isometric projections, the interpretation of technical drawings, and the skills required in print reading applying basic ASME standard techniques, as a form of communication. Students read, interpret and sketch drawings.
Prerequisite: None.

MANF 145 Electronics Fundamentals (5)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION
Introduction to basic electronics (AC/DC) theory and applications. Covers direct current analysis and function of resistive circuits, semiconductor function and applications, and basic digital logic as it applies to automation devices and equipment. Fundamental theories and laws (Ohms Law and Kirchoffs Law) of electronics will be reviewed. Provides practical hands-on experience with basic DC, AC, and electronic circuits. Also covers basic procedures required to work with electronics safely and effectively in an industrial work setting.
Prerequisite: None

MANF 148 Production Lab I (7)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION
Introduction to the principles of modern manufacturing. Experience the industrial environment through team projects and production assignments. Explore issues affecting quality in manufacturing and how to control these processes.
Prerequisite: MANF 102 with a grade of C- or higher.

MANF 149 Production Lab II (7)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION
Explore the design choices and material aspects affecting quality in manufacturing. Work with a production team to prototype and test products for an upcoming product launch.
Prerequisite: MANF 137, MANF 148, and ENGR& 114 all with a grade of C- or higher.

MANF 150 Sensor Systems and Applications (5)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION
Introduction to devices and circuits used in industrial applications: sensors and transducers, control circuits, electronic signals, thyristor devices, transformers, motors and motor control. Covers basic digital theory and measurement techniques used in computer controlled industrial systems to monitor flow, temperature, proximity, pressure, level and toxic gas. Introduction to processors and programming used in common industrial applications.
Prerequisite: MANF 145 with a "C-" or higher.

MANF 156 Introduction to Automated Systems (5)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION
Overview of how electronic and mechanical systems are used in the design and manufacture of products and processes. Using electronic principles and test equipment, learn how industrial control systems are designed to integrate digital controls in the processing of data. Introduction to microcontrollers, robotic principles, automation systems, motor and servo-control systems.
Prerequisite: MANF 150 with a "C-" or higher.

MANF 177 Quality Control Metrics and Applications (5)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION
Introduction to fundamental quality assurance techniques and applications. Covers measurement techniques and procedures based on industry standards and practices. Introduction to advanced precision measurement techniques, methods of inspection, and interpretation of data including Run Charts, Process Capability, Gage R&R, and writing technical quality reports. Areas of study include product quality, process quality, and subjective quality standards.
Prerequisite: MANF 103 with a "C-" or higher.

MANF 190 Computer Numeric Controlled (CNC) Basics (5)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION
Explores the Computer Aided Drawing (CAD), Computer Aided Machining (CAM), and the Computer Numeric Controlled (CNC) process. Included are the basics of CNC machine operation, advanced print reading and programming methodologies. Gain hands-on experience with conversational programming of CNC equipment.
Prerequisite: MANF 115 with a "C-" or higher.

MANF 195 Introduction to Robotics (2)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION
Using electronics principles and test equipment, students are introduced to microcontrollers, robotics, automation systems, robotic motor and servo control systems.
Prerequisite: None.

MANF 199 Internship Experience (2)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION
Supervised work experience in the field. Includes a weekly seminar.
Prerequisite: None.

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MANF 205 Advanced Computer Numeric Control (CNC) (5)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION
Study of Computer Numeric Control (CNC) in the manufacturing environment. Topics include manufacturing applications of CNC, machining techniques, and CNC programming/operation in a production setting. Develop CAD 3D models that are processed through computer aided machining software and then executed on CNC machining centers.
Prerequisite: MANF 190 with a "C-" or higher.

MANF 210 Total Productive Maintenance (3)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION
Introduction to electrical and mechanical systems, and rigging. Describes the history, evolution, and elements of Total Productive Maintenance (TPM) and explains how TPM helps reduce losses and waste. Explores the fundamentals of facilities layout, process selection and the principles of optimizing equipment efficiency.
Prerequisite: MANF 177 with a "C-" or higher.

MANF 215 Advanced Inspection (5)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION
Advanced study of quality tools and metrics. Includes physical inspection methods, statistical metrics for quality assurance and acceptance sampling.
Prerequisite: MANF 177 with a "C-" or higher.

MANF 218 Project Management (5)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION
Introduction to project management including behaviors of project management teams, the structure of projects and work breakdown, planning and scheduling, PERT/CPM analysis, risk management, current topics in project management, and project management software.
Prerequisite: None

MANF 220 Supply Chain Management (5)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION
Introduction to supply chain management including key issues, goals and trends, global supply chains, responsibilities of supply chain managers, procurement, technologies, inventory management, logistics, and supplier relationships.
Prerequisite: None

MANF 222 Sensor Systems and Application (5)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION
Introduction to devices and circuits used in industrial applications including basic digital logic as it applies to automation devices and equipment. Covers basic digital theory and measurement techniques used in computer controlled industrial systems to monitor flow, temperature, proximity, pressure, level, and toxic gas. Introduction to processors and programming used in common industrial applications. Provides practical hands-on experience with basic DC, AC, and electronic circuits.
Prerequisite: MANF 114 with a grade of C- or higher.

MANF 227 Automated Systems (5)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION
Overview of how electronic and mechanical systems are used in the design and manufacture of products and processes. Using electronic principles and test equipment, students will learn how industrial control systems are designed to integrate digital controls in the processing of data. Introduction to microcontrollers, robotic principles, automation systems, motor and servo-control systems.
Prerequisite: MANF 222 with a grade of C- or higher.

MANF 242 Computer Numeric Controlled (CNC) Operations (5)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION
Explores the Computer Aided Drawing (CAD), Computer Aided Machining (CAM), and the Computer Numeric Controlled (CNC) processes. Included are the basics of CNC machine operation, advanced print reading and programming methodologies. Gain hands on experience with conversational programming of CNC equipment.
Prerequisite: MANF 114 with a grade of C- or higher.

MANF 247 Advanced Computer Numeric Control (CNC) (5)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION
Study of Computer Numeric Control (CNC) in the manufacturing environment including manufacturing applications of CNC, machining techniques, and CNC programming/operation in a production setting. Students will develop CAD 3D models that are processed through computer-aided machining software and then executed on CNC machining centers.
Prerequisite: MANF 242 with a grade of C- or higher.

MANF 250 Shop Supervision (5)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION
The study of personnel and process management in an industrial environment. Includes the supervisors role in an organization, effective leadership skills, problem-solving applications, effective safety techniques, and successful communication concepts.
Prerequisite: MANF 177 with a minimum grade of C- or instructor permission.

MANF 256 Operations Management (5)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION
Study the role of operations managers in industry. Explore both strategic issues and practical applications. Apply the tools of decision making, process selection, capacity planning, and management of quality to a case study environment.
Prerequisite: MANF 218 and MANF 250 with a "C-"or higher.

MANF 262 Composite Construction (5)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION
Introduction to the concept and application of fiber reinforced plastic. Students will manually layup composite materials and participate in the Vacuum Infusion/Light RTM processes. An overview of the mold making process, reinforcement properties and methods, and coring materials is included.
Prerequisite: MANF 114 with a grade of C- or higher.

MANF 267 Advanced Composites (5)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION
Introduction to advanced composite manufacturing with an emphasis on thermoset pre-impregnated (prepreg) fiber technology. Students will be provided with hands-on training in manufacturing with epoxy resins and prepregs using common types of advanced fiber reinforcements. Students will also explore more advanced non-destructive testing and inspection methods.
Prerequisite: MANF 262 with a grade of C- or higher.

MANF 277 Capstone Manufacturing Project: Automation (5)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION
In a team environment, students will employ the skills gained throughout the program to develop products for manufacture and/or make improvements to the manufacturing processes employed in the SVC Production Lab. In addition, students will apply computer-aided automation technology to support continuous improvement efforts within the production environment.
Prerequisite: MANF 227 with a grade of C- or higher.

MANF 278 Capstone Manufacturing Project: Comptuer Aided Machining (5)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION
In a team environment, students will employ the skills gained throughout the program to develop products for production in the SVC Production Lab. In addition, students will apply computer-aided machining technology to support continuous improvement efforts within the production environment.
Prerequisite: MANF 247 with a grade of C- or higher.

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MANF 279 Capstone Manufacturing Project: Composite Technology (5)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION
In a team environment, students will employ the skills gained throughout the program to develop products for production in the SVC Production Lab. In addition, Students will apply composite technology to support continuous improvement efforts within the production environment.
Prerequisite: MANF 267 with a grade of C- or higher.

MANF 311 Production Tooling and Automation (5)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION
Apply practical manufacturing techniques to theoretical challenges, such as design tooling, fixtures, and automation solutions for design challenges. The resulting designs incorporate conceptual exploration with practical demands.
Prerequisite: Admission to BASPD program and BASPD Director permission.

MANF 370 Product Validation (5)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION
Define functional parameters of a specific design through research of applicable standards. Prototypes will be benchmarked against competitive designs. The scope of production will be explored through forecasting. Develop control models from the final product design to be utilized by the production team.
Prerequisite: BASPD Director permission.

MANF 426 Prototyping (3)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION
Explore and implement several iterations of the product design to confirm functionality, customer satisfaction, and manufacturability. Start with feasibility studies; then, move to visual and functional prototypes. The culminating project runs the alpha prototype through the Product Validation process.
Prerequisite: BASPD Director permission.

MANF 435 Practical Design Applications (7)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION
Identify business aspects of industrial design and apply these principles to design projects. Focuses on entrepreneurialism. Begin to develop processes and infrastructure to progress into full production initiating the process of realizing a finalized design.
Prerequisite: BASPD Director permission.

MANF 437 Contracts and Vendor Relations (3)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION
Participate in vendor screening and selection. Apply sound supply chain principles to the validation of vendor relations and ultimately, to the final negotiations of contracts with manufacturing suppliers.
Prerequisite: BASPD Director permission.

MANF 439 First Article Inspection and Process Control (7)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION
Capitalize on knowledge and skills learned through the design validation process to design robust inspection protocols for production. Through the First Article Inspection process, product design/production process compatibility is validated. Inspection process documents are developed to ensure consistent product quality.
Prerequisite: BASPD Director permission.

MANF 442 Enterprise Resource Planning (3)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION
Utilize the systems and planning tools used in manufacturing. Develop and deploy a product program within an enterprise resource planning (ERP) system. Apply practical applications of material requirement planning (MRP), and aggregate planning.
Prerequisite: BASPD Director permission.

MANF 495 Capstone: Product Development (7)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION
The program culminates with a full-scale product launch of a finalized product design.
Prerequisite: BASPD Director permission.

MATH 007 Algebra for Math in Society (3)
SCIENCE, TECHNOLOGY, ENGINEERING, AND MATH
Corequisite support course for MATH& 107. Intermediate algebra topics including linear and exponential functions, graphing, and inequalities. College success strategies addressing time management, math anxiety, and study skills are reinforced throughout the course. Concurrent enrollment in MATH& 107 required.
Prerequisite: Prerequisite: A grade of C or better in Math 096; placement into Math 097 or Math 098.

MATH 015 Technical Math for Diesel Mechanics (1)
SCIENCE, TECHNOLOGY, ENGINEERING, AND MATH
Whole numbers, fractions, decimals, percentages, measurements, ratios, proportions, and averages.
Prerequisite: None

MATH 046 Algebra for Introduction to Statistics (3)
SCIENCE, TECHNOLOGY, ENGINEERING, AND MATH
Corequisite support course for MATH& 146. Topics include order of operations, fraction and decimal conversions, applications involving percentages, solving linear, rational and radical equations, and graphing. College success strategies addressing time management, test taking strategies, and study skills are reinforced throughout the course. Concurrent enrollment in MATH& 146 required.
Prerequisite: None

MATH 087 Special Topics in Math (1-10)
SCIENCE, TECHNOLOGY, ENGINEERING, AND MATH
Foundational and specialized aspects of math being studied under the MATH 87 umbrella will receive a PASS grade for acceptable progress. A letter grade for MATH 87 is only given when a student has completed the MATH 96 material with a passing grade (C or better), and is ready for MATH 97 or HMATH 100 or WMATH 100.
Prerequisite: None

MATH 095 Basic Mathematics (1-5)
SCIENCE, TECHNOLOGY, ENGINEERING, AND MATH
A beginning mathematics course designed to establish a solid mathematical foundation. Topics include: operations using whole numbers, decimals, fractions, and integers; determining place-value and order of operations; calculations using ratios and proportions, percents, simple and compound interest, relevant applications.
Prerequisite: None

MATH 096 Pre-Algebra (5)
SCIENCE, TECHNOLOGY, ENGINEERING, AND MATH
A course designed to review arithmetic concepts and introduce algebra. Topics include: fractions, ratio and proportion, percent, basic geometry, U.S. and metric systems of measurement, and an introduction to algebra.
Prerequisite: Math 095 with a grade of C or higher, or equivalent math placement score.

MATH 097 Elementary Algebra (5)
SCIENCE, TECHNOLOGY, ENGINEERING, AND MATH
This is a beginning course in algebra. Topics include: algebraic expressions; linear equations and inequalities; systems of linear equations and inequalities; and an introduction to polynomials and factoring.
Prerequisite: MATH 096 with a "C" or higher (or placement into MATH 097/WMATH 100).

MATH 099 Intermediate Algebra (5)
SCIENCE, TECHNOLOGY, ENGINEERING, AND MATH
This course builds on topics from Math 97. Topics include: an introduction to polynomials and factoring; quadratic, rational, radical, expo-

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nential, and logarithmic functions and equations; complex numbers; composite and inverse functions; distance formula and circles.
Prerequisite: MATH 97 with a grade of C or higher, or appropriate math placement score.

MATH& 107 Math in Society (5)
SCIENCE, TECHNOLOGY, ENGINEERING, AND MATH
Explores practical applications of mathematics that arise in everyday life. Emphasizes numerical and logical reasoning, mathematical decision making, mathematical symbols, techniques and computations. The core course topics include proportional reasoning, consumer finance, probability, descriptive statistics, and growth and decay models (linear and exponential). Satisfies the Quantitative Reasoning portion of the AA-DTA degree.
Prerequisite: A grade of C or better in Math 096 and concurrent enrollment in Math 007; placement into Math 097 or Math 098 and concurrent enrollment in Math 007; placement into Math& 107.

MATH& 141 Precalculus I (5)
SCIENCE, TECHNOLOGY, ENGINEERING, AND MATH
Precalculus I is the study of functions including piecewise, polynomial, rational, exponential and logarithmic functions and their graphs; systems of equations; inequalities; curve sketching and transformations. Graphing technology is required.
Prerequisite: MATH 099 with a grade of C or higher, or equivalent math placement score.

MATH& 142 Precalculus II (5)
SCIENCE, TECHNOLOGY, ENGINEERING, AND MATH
This course covers trigonometric functions, complex numbers, the solution of triangles, and conic sections. A graphing calculator may be required.
Prerequisite: MATH& 141 with a grade of C or higher, or equivalent math placement score.

MATH& 146 Introduction to Stats (5)
SCIENCE, TECHNOLOGY, ENGINEERING, AND MATH
This course is an introduction to probability and statistics using statistical inference as its theme. Topics include sampling techniques, probability and probability distributions, inferential methods including confidence intervals and hypothesis tests, regression and correlation. Designed to serve students of all interests requiring an introductory statistics course, including social science, business, and nursing majors. Statistical technology required.
Prerequisite: A grade of C or better in Math 096 and concurrent enrollment in Math 046; placement into Math 097 or Math 098 and concurrent enrollment in Math 046; placement into Math& 146.

MATH& 148 Business Calculus (5)
SCIENCE, TECHNOLOGY, ENGINEERING, AND MATH
Introduces differential and integral calculus for students in business, management, behavioral and social science, or disciplines needing only one quarter of calculus. Topics include limits and continuity, differentiation techniques and applications, integration techniques and applications. Graphing technology required.
Prerequisite: Math& 141 with a grade of C or higher, appropriate placement score, or instructor permission.

MATH 149 Tutoring Skills for Mathematics (3)
SCIENCE, TECHNOLOGY, ENGINEERING, AND MATH
Provides preparation and practical experience for tutoring mathematics courses. Students will examine differences in student learning styles as well as a variety of teaching techniques. Emphasis will be placed on developing an effective tutoring style. Two hours of scheduled tutoring per week will be required.
Prerequisite: MATH 099 with a "B" or higher.

MATH& 151 Calculus I (5)
SCIENCE, TECHNOLOGY, ENGINEERING, AND MATH
This is the first in a sequence of four calculus courses for students who are planning to major in engineering, mathematics, or the sciences, and introduces the concepts of limits and differentiation. Topics include limits of algebraic, trigonometric, and exponential functions, the derivative of a function and derivative techniques, curve sketching, and an introduction to antiderivatives. Graphing technology required.
Prerequisite: Math& 142 with a grade of C or higher, appropriate placement score, or instructor permission.

MATH& 152 Calculus II (5)
SCIENCE, TECHNOLOGY, ENGINEERING, AND MATH
This is the second in a sequence of four calculus courses for students who are planning to major in engineering, mathematics, or the sciences, and expands on the concept of the antiderivative and integration. Topics include integration of algebraic and transcendental functions, improper integrals, applications of integration including areas, volumes, work, hydrostatic force, centers of mass, and differential equations. Graphing technology required.
Prerequisite: Prerequisite: MATH& 151 with a grade of C or higher.

MATH& 153 Calculus III (5)
SCIENCE, TECHNOLOGY, ENGINEERING, AND MATH
This is the third in a sequence of four calculus courses for students who are planning to major in engineering, mathematics, or the sciences. Topics include infinite sequences and series, parametric equations, vectors and vector-values functions in the plane and space, spherical and cylindrical coordinates. Graphing technology required.
Prerequisite: MATH& 152 with a grade of C or higher.

MATH 204 Elementary Linear Algebra (5)
SCIENCE, TECHNOLOGY, ENGINEERING, AND MATH
An introductory course including systems of linear equations; matrices; the vector space Rn; determinants, Cramer's Rule; applications.
Prerequisite: MATH& 151 with a "C" or higher.

MATH 238 Ordinary Differential Equations (5)
SCIENCE, TECHNOLOGY, ENGINEERING, AND MATH
An introductory course in differential equations including first order equations, second order and higher order equations, applications to physical and other systems.
Prerequisite: MATH& 153 with a "C" or higher.

MATH& 254 Calculus IV (5)
SCIENCE, TECHNOLOGY, ENGINEERING, AND MATH
This course is the last in a sequence of four calculus courses and continues with the concepts of vector valued functions and functions of several variables. Topics include limits and continuity of multivariable functions, partial differentiation, multiple integration, vector fields, line and surface integrals, Greens Theorem, Stokes Theorem, and the Divergence Theorem. Graphing technology required.
Prerequisite: MATH& 153 with a "C" or higher.

MATH 299 Learning into Action (1-15)
SCIENCE, TECHNOLOGY, ENGINEERING, AND MATH
Student develops and completes curriculum-related independent project which demonstrates skills and abilities and explores career options. May include, but is not limited to, service learning, original research, and travel abroad. Faculty sponsor approval required. Students with 45 transferable college credits are eligible to begin Learning into Action.
Prerequisite: None

MIT 105 Video Game Development I (8)
ARTS AND COMMUNICATION
Through the creation of some classic 2D games (e.g. Pong, Breakout and Asteroids) students explore the basics of game development and coding. There is a strong focus on the fundamental building blocks of game development: the math, design principles and asset creation skills required to build a game.
Prerequisite: None

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MIT 115 Video Game Development II (8)
ARTS AND COMMUNICATION
Through the expansion of some classic 2D games (e.g. Breakout and Asteroids) students explore the development of game utilities (proofs-of-concept) that can be used as the building blocks for any type of game. There is a strong focus on the skills required to become an independent game developer: the vector math behind a game engine's collision detection routines, data structures for advanced coding and animation in both 2D and 3D environments.
Prerequisite: MIT 105 with a "D" or higher.

MIT 125 Introduction to Interactive Multimedia (5)
ARTS AND COMMUNICATION
Introduction to digital media terminology, concepts and trends. Use a variety of industry-leading software applications and technologies to create and design digital media.
Prerequisite: Strongly recommended: Computer literacy and file management skills.

MIT 135 Multimedia Design (5)
ARTS AND COMMUNICATION
Introduction to the design factors that apply to multimedia. Includes basic design components for text, graphics, screen layout, color and the use of metaphor. Covers digital design for computers through a series of tasks and projects.
Prerequisite: Strongly recommended: computer literacy and file management skills.

MIT 149 Introduction to Web Page Design (5)
ARTS AND COMMUNICATION
Introduction to the technologies and concepts associated with website design and development. Create and design websites using HTML5 and Cascading Style Sheets (CSS3). Student websites will be published and critiqued.
Prerequisite: Strongly recommended: Computer literacy and file management skills.

MIT 199 Cooperative Educational Experience (1-15)
ARTS AND COMMUNICATION
Supervised work experience in the field. Includes a weekly seminar.
Prerequisite: Instructor permission.

MIT 205 Video Game Development III (8)
ARTS AND COMMUNICATION
This course focuses on game development as part of a project team. Each student, as part of a team, is tasked with creating a game from scratch from the design phase through production and post-production, using an agile development process.
Prerequisite: MIT 105 and MIT 115 with a "D" or higher.

MIT 212 Digital Videography (5)
ARTS AND COMMUNICATION
Introduction to digital videography. Essential techniques and hands on training on digital video equipment to capture quality digital video footage.
Prerequisite: Strongly recommended: computer literacy and file management skills.

MIT 213 Digital Photography (5)
ARTS AND COMMUNICATION
Introduction to digital photography. Includes basic camera techniques. Covers camera features and functions, software, downloading, enhancing, transferring files and making photo-quality images.
Prerequisite: Strongly recommended: computer literacy and file management skills.

MIT 220 Adobe InDesign (5)
ARTS AND COMMUNICATION
Introduction to basic and advanced page layout techniques. Use Adobe InDesign to design professional page layouts with graphics and typography.
Prerequisite: Strongly recommended: computer literacy and file management skills.

MIT 226 Adobe Photoshop (5)
ARTS AND COMMUNICATION
Introduction to basic and advanced image editing techniques. Use Adobe Photoshop to create graphics, manipulate photographs, edit video, and prepare files for the web and print.
Prerequisite: Strongly recommended: computer literacy and file management skills.

MIT 227 Adobe Premiere Pro (5)
ARTS AND COMMUNICATION
Introduction to basic and advanced video editing techniques. Use Adobe Premiere Pro to create import, edit and export digital video using transitions, compositing and other advanced effects.
Prerequisite: Strongly recommended: computer literacy and file management skills.

MIT 228 Adobe Animate (5)
ARTS AND COMMUNICATION
Use Adobe Animate to create animation and interactivity for the web and video game programming.
Prerequisite: Strongly recommended: computer literacy and file management skills.

MIT 229 Adobe Illustrator (5)
ARTS AND COMMUNICATION
Introduction to basic and advanced digital illustration. Use Adobe Illustrator to create vector-based graphics and artwork.
Prerequisite: Strongly recommended: computer literacy and file management skills.

MIT 235 User Experience Design (UX) (5)
ARTS AND COMMUNICATION
Introduction to user experience (UX) design principles and patterns.
Prerequisite: Strongly recommended: computer literacy and file management skills.

MIT 240 Intermedia Web Design (5)
ARTS AND COMMUNICATION
Use Adobe Dreamweaver to design, develop and publish media-rich, dynamic websites that are responsive and accessible.
Prerequisite: Strongly recommended: computer literacy and file management skills.

MIT 249 Advanced Web Page Design (5)
ARTS AND COMMUNICATION
Introduction to the technologies and issues associated with advanced website design and development. Create and design dynamic, accessible, responsive websites using HTML5, CSS3, JavaScript and other advanced web development technologies.
Prerequisite: computer literacy and file management skills as well as some experience with HTML and CSS strongly recommended.

MIT 260 Search Engine Optimization (5)
ARTS AND COMMUNICATION
Learn essential tips and search engine optimization techniques. Improve the number and quality of visitors to a Web site as well as the Web site's ranking on the most popular search engines.
Prerequisite: Strongly recommended: Computer literacy and file management skills.

MIT 270 CMS Fundamentals (5)
ARTS AND COMMUNICATION
A detailed look at the history, dynamics and types of Content Management Systems (CMS). Students will also be given hands-on experience setting up a CMS site, one of which will focus on the development of blogging skills.
Prerequisite: Strongly recommended: Computer literacy and file management skills as well as some experience with HTML and CSS.

MIT 280 Digital Portfolio (5)
ARTS AND COMMUNICATION
Design a web-based digital portfolio to be used as an interactive resume, an archive of work, and a demonstration of aptitude, skill and proficiency. The digital portfolio will serve as a marketing tool that

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showcases ability and preparation for a career in graphic design, photography, web design, and/or video game design.

Prerequisite: This is the capstone course within the MIT program. For students pursuing a certificate or degree in MIT, it is highly recommended that this course be taken during the students final quarter. Strongly recommended: Computer literacy and file management skills as well as experience with Web-based multimedia applications and tools is essential.

MT 102 Marine Applied Mathematics (5)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION

Practical course in mathematics involving whole numbers, fractions, decimals, ratios, proportions, percentages, and basic geometric constructions. Introduction to applied algebra and basic trigonometric functions. Includes practical blueprint reading.

Prerequisite: None.

MT 105 Safety, Tools, and Fastenings (6)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION

Introduction to a broad range of tools and fastener types and procedures and cultivate safe shop and workplace practices in the marine maintenance industry.

Prerequisite: None

MT 106 Rigging (4)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION

Includes types of rigs, conversion or modifications of rigging. Proper tuning of rigging as well as selection of materials and approved installation methods for standing and running rigging. Includes how to rig, lift, and secure marine equipment for installation and removal.

Prerequisite: None

MT 110 Electrical Tool Fundamentals (2)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION

Introduction to proper tool selection and operations for marine technicians. Topics include advanced electrical investigations, additional multi-meter operations, creating new dash arrangements with plastic laminate installation, and many other industry recognized tool skillsets.

Prerequisite: MT 105 with a "D" or higher.

MT 112 Mechanical Tool Fundamentals (2)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION

Introduction to proper tool selection and procedures for marine mechanics. Topics include precision measurements, fastener torqueing, drilling and tapping, removing stuck fasteners, and basic metal fabrication techniques. Emphasis on safe tool use practices and correct tool selection for a job.

Prerequisite: MT 105 with a "D" or higher.

MT 119 OSHA 10 Training and Forklift Certification (2)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION

Occupational Safety and Health Administration (OSHA) training program for maritime industry training workers regarding their rights, employer responsibilities, and how to file a complaint as well as how to identify, abate, avoid and prevent job related hazards. Included is the Washington State Department of Labor and Industries forklift certification program. Forklift training is required for all operators of a forklift which is commonly used in the marine industry.

MT 132 Marine Electrical Systems I (4)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION

Basic AC and DC electrical systems as found on recreational and small commercial vessels. Installation and troubleshooting of engine operation systems for charging and starting, DC house systems for lights, pumps, and multi-state voltage regulation. Includes proper multi-meter use and electrical safety.

Prerequisite: None

MT 133 Marine Electrical Systems II (6)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION

Marine AC electrical systems, sizing of battery banks, inverter systems, wind and solar charging systems, gen-sets and galvanic corrosion. Preparation for ABYC Marine Electrical Technician Certification.

Prerequisite: MT 132 with a "D" or higher.

MT 134 Marine Electrical Systems III (5)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION

Advanced electrical systems including marine corrosion, advanced battery technologies, hybrid boat power systems, distributed power systems, and modern electrical control systems. Preparation for ABYC corrosion certificate.

Prerequisite: MT 133 with a "D" or higher.

MT 136 Marine Sanitation Systems, Plumbing and Pumps (5)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION

Covers marine specialized toilets, holding tanks, treatment systems, pumps, and discharge systems. Includes installation of marine pumps in new or retrofit vessels, tank sizing, plumbing, and applicable USCG and ABYC standards.

Prerequisite: None

MT 160 Marine Engine Systems (7)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION

Operation, service, troubleshooting and general maintenance of inboard gas and diesel engines in recreational and small commercial vessels. Tune-up procedures for gas ignition systems. Routine service and maintenance of these systems. Includes starting, charging, fuel, cooling, lubrication and winterization of engines.

Prerequisite: None

MT 161 Inboard Drivetrains (5)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION

Theory and hands-on experience in marine inboard engine drive systems with emphasis on transmissions, running gear, controls, and steering systems. Gain proficiency with maintenance, repair, installation, and troubleshooting techniques, and cultivate an understanding of industry standards and recommended practices.

Prerequisite: None.

MT 163 - Marine Engine Systems II (5)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION

Focuses on modern inboard engine technology and advanced troubleshooting and service techniques. Includes modern engine fueling and breathing innovations, electronic engine control and monitoring, diagnostic tools and software, engine emission regulations, vessel repowers, and mechanical surveys.

Prerequisite: MT 160 with a "D" or higher.

MT 199 Cooperative Education Experience (1-4)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION

Supervised work experience in the field.

Prerequisite: Instructor permission required.

MT 204 Advanced Marine Systems (5)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION

Advanced marine systems as found on recreational and small commercial vessels. Installation, design, and troubleshooting of modern marine systems such as water makers, fire suppression, propane, refrigeration, active stabilization, and advanced monitoring. Preparation for the ABYC Marine Systems certification exam.

Prerequisite: MT 132 with a "C" or higher.

MT 216 Marine Outdrives (3)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION

Study of sterndrive propulsion systems. Includes common service procedures, model identification, vertical drive rebuilding procedures,

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trim/tilt functions, shift adjustments, utilizing service manuals and parts information for problem solving.
Prerequisite: None

MT 230 Marine Electronics (3)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION
Includes National Marine Manufactures Association guidelines and familiarization with actual equipment operation of electronic devices for navigation and communication with installation interfacing and operation. Preparation for NMEA Basic Marine Installer certification.
Prerequisite: None

MT 231 Marine Heating, Air Conditioning, and Refrigeration (5)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION
Includes selection, installation and service of marine hot air and hydronic heating systems. Covers operation, selection, installation and testing of refrigeration and air conditioning systems. Covers fuel gas systems complying with standards from ABYC, NFPA, and Natural Gas Association adjustment of these systems.
Prerequisite: MT 132 with a "D" or higher.

MT 236 Marine Electronics II (3)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION
Covers National Marine Manufacturers Association guidelines. Includes familiarization with equipment operation of electronic devices for navigation and communication with installation interfacing and operation. Preparation for NMEA 2000 certification.
Prerequisite: MT 230 with a "D" or higher.

MT 240 Outboard Motor Operation and Service (3)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION
Introduction to outboard motors as the world's most common marine propulsion system. Operation and maintenance of outboard motors, specifically portable units under 20 horsepower. Covers ignition, fuel, cooling, lower units, tune-up procedures, winterizations.
Prerequisite: None

MT 241 - Outboard Motors II (5)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION
Focuses on modern outboard service, installation, and advanced troubleshooting techniques. Includes contemporary outboard fuel systems, electronic engine control and monitoring, diagnostic tools and software, new outboard rigging, and performing sea trials. Also includes a unit on sterndrive and saildrive installation, maintenance, and repair.
Prerequisite: MT 240 with a "D" or higher.

MT 251 Independent Study (1-5)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION
Special project as approved by instructor and department chair.
Prerequisite: None

MT 270 Marine Hydraulic Systems (5)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION
Installation, design, and troubleshooting of hydraulic systems found on recreational and commercial vessels. These systems are used for stabilization, davits, lifting cranes, steering, and accessory drive equipment.
Prerequisite: MT 132 with a "C" or higher.

MUSC 100 Music Fundamentals (5)
HUMANITIES
This course is designed for the non-music major who wants to learn to read music. Note reading, rhythmic skills and a basic introduction to scales, intervals and harmony are included. No musical background is required. This course can also be taken by students wanting to become music majors but whose music reading skills are insufficient.
Prerequisite: Grade of 2.0 or higher in ENGL 097, or AESL 098, or appropriate test score.

MUSC& 105 Music Appreciation (5)
HUMANITIES
As an introduction and exploration of music, this foundation course examines Western music from the Middle Ages to the present, focusing on significant composers and compositions and the historical context in which they were written.
Prerequisite: ENGL 099 with a "C" or higher (or placement into ENGL& 101).

MUSC 108 Class Voice (2)
HUMANITIES
Vocal technique including breathing, tone production, diction, and interpretation of literature from Spanish, German, Italian, folk and musical theater traditions. The mechanics of singing, the artistry of singing and building confidence in the individual solo voice are emphasized.
Prerequisite: None

MUSC 111 Class Piano I (3)
HUMANITIES
The course is designed for those with limited or no keyboard background and includes basic notation, rhythm skills, technique, and sight reading. Each class includes group and individual instruction in ensemble playing and repertoire materials. Music Majors are required, depending on piano playing skills, to take this course along with MUSC 141.
Prerequisite: None

MUSC 113 Class Piano II (2)
HUMANITIES
The course is designed for those with limited or no keyboard background and includes basic notation, rhythm skills, technique, and sight reading. Each class includes group and individual instruction in ensemble playing and repertoire materials. Music majors are encouraged to take this course along with MUSC 142. MUSC 111, 112,and 113 are beginning piano courses and should be taken in sequence.
Prerequisite: MUSC 111 with a grade of C or better or instructor's permission.

MUSC 113 Intermediate Piano (3)
HUMANITIES
This course is designed for those with limited or no keyboard background and includes basic notation, rhythm skills, technique, and sight reading. Each class includes group and individual instruction in ensemble playing and repertoire materials. Music majors with little to no piano experience are required to take this course along with MUSC& 141.
Prerequisite: None

MUSC 114 Class Guitar I (2)
HUMANITIES
Beginning concepts of Blues, Jazz, and Rock Guitar styles. Improvisation on Rock and Blues patterns, basic chords, note recognition, and ensemble fundamentals will be learned. Students must have an acoustic guitar.
Prerequisite: None

MUSC 115 Class Guitar II (2)
HUMANITIES
Continuing study and practice of Blues, Jazz, and Rock Guitar styles. Further improvisation on Rock and Blues patterns, intermediate chords, continued note recognition, and ensemble fundamentals will be learned. Students must have an acoustic guitar.
Prerequisite: MUSC 114 with a "C" or higher.

MUSC 116 Class Guitar III (2)
HUMANITIES
Continuing study and practice of Blues, Jazz, and Rock Guitar styles. Further improvisation on Rock and Blues patterns, intermediate chords, continued note recognition, and ensemble fundamentals will be learned. Students must have an acoustic guitar.
Prerequisite: MUSC 115 with a "C" or higher.

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MUSC 124 Survey of Music History: Ancient to 1750 ACE (5)
HUMANITIES
An introduction and exploration of the relationship between historic events and musical development in the Western world from the ancient period to 1750 A.C.E.
Prerequisite: place into ENGL& 101, or C or better or concurrent enrollment in ENGL 99.

MUSC 125 Survey of Music History: 1750-1900 (5)
HUMANITIES
An introduction and exploration of the relationship between historic events and musical development in the Western world from 1750-1900 A.C.E.
Prerequisite: place into ENGL& 101, or C or better or concurrent enrollment in ENGL 99.

MUSC 126 Survey of Music History: 1900-Present (5)
HUMANITIES
An introduction and exploration of the relationship between historic events, technological advancements, and musical development, beginning in the 20th century to the present day.
Prerequisite: place into ENGL& 101, or C or better or concurrent enrollment in ENGL 99.

MUSC 127 History of Rock and Roll: D (5)
HUMANITIES
This course provides a general survey of the development and evolution of rock and roll from its roots to the present. The goal of the course is to familiarize the student with the social and historical context of the development of rock and roll, and to recognize and appreciate the major performers and styles of rock and roll in performance.
Prerequisite: ENGL 099 with a "C" or higher (or placement into ENGL& 101).

MUSC 128 Jazz: America's Artform: D (5)
HUMANITIES
This course provides a general survey of the development and evolution of jazz from its roots to the present. The student will explore the background, history, characteristics and significant performing artists of the major jazz styles.
Prerequisite: ENGL 099 with a "C" or higher (or placement into ENGL& 101).

MUSC 129 World Music: D (5)
HUMANITIES
A survey of the music of non-Western cultures. Students will use writing, discussions, and group and individual projects to examine the contexts in which the musics of these cultures exist.
Prerequisite: Appropriate placement or grade of 2.0 or higher in ENGL 099.

MUSC 137 Choir (2)
HUMANITIES
Performance of standard choir music and major works including works from non-Western cultures whenever possible.
Prerequisite: Grade of 2.0 or higher in ENGL 097, or AESL 098, or appropriate test score.

MUSC 138 Small Vocal Ensemble (1-5)
HUMANITIES
Involves choral, madrigal singing, jazz and popular styles. Performing music from non-European traditions whenever possible. Advanced academic setting.
Prerequisite: Grade of 2.0 or higher in ENGL 097, or AESL 098, or appropriate test score. Instructor's permission required; placement by audition only. Instructor's permission required; placement by audition only.

MUSC& 141 Music Theory I (5)
HUMANITIES
The study of notation, intervals, scales, simple melodies, and rhythms. Development of aural skills through an emphasis on sight singing, dictation, and piano skills. Required for Music majors.
Prerequisite: Grade of 2.0 or higher in ENGL 097, or AESL 098, or appropriate test score.

MUSC& 142 Music Theory II (5)
HUMANITIES
A continuation of MUSC& 141, but including a systematic study of chords and harmony. Continued development of aural skills through an emphasis on sight singing and dictation. Continued development of piano skills. Required for Music Majors.
Prerequisite: MUSC& 141 with a "C" or higher.

MUSC& 143 Music Theory III (5)
HUMANITIES
A continuation of MUSC& 142 , this class will cover non-chord tones and diatonic 7th chords, using these skills to harmonize melodies. Required for Music Majors.
Prerequisite: MUSC& 142 with a "C" or higher.

MUSC 144 Composition (1-2)
HUMANITIES
Students will learn the basics of composing original musical pieces, perform them in class and possibly a concert venue, and submit a final work to a national composition contest.
Prerequisite: Must have taken or be currently enrolled in Music Theory or permission of the instructor.

MUSC 145 Skagit Valley Chorale (1)
HUMANITIES
The Skagit Valley Chorale is a community-based organization that performs all types of music, from jazz to classical. Dinner theater and humorous operetta are also part of our repertoire. No audition is needed. The Chorale's season is performance oriented and runs 6 months of the year. Contact director for fee information.
Prerequisite: None.

MUSC 146 Symphony Orchestra (1)
HUMANITIES
Perform music from each of the Baroque, Classic, Romantic and contemporary periods. Students will advance in their understanding of large ensemble playing. Two and one-half hours per week is expected in ensemble practice, three hours of individual practice, and all dress rehearsals and concerts are required. Wind players are by auditions; string players should be adept at position work and fundamental techniques.
Prerequisite: None

MUSC 147 Skagit Community Band (1)
HUMANITIES
The Skagit Community Band is a community-based organization that performs a wide variety of concert band literature from Jazz to Classical. No audition is needed, however some skill on the instrument is helpful. Students are expected to rehearse for two hours each week and attend all rehearsals and performances. There will be at least one performance per quarter. Contact the director for fee information.
Prerequisite: None

MUSC 160 Musical Theater Workshop (1)
HUMANITIES
Students audition both musically and dramatically and are then placed in suitable roles in familiar and not-so-familiar shows from which scenes are chosen.
Prerequisite: Instructor's permission after audition.

MUSC 162 Instrumental Ensemble (1-3)
HUMANITIES
Study of music through small group rehearsal. For pianists, percussionists, and wind instrument players. Students must have prior experience on their instrument.
Prerequisite: None

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MUSC 163 String Ensemble (1-3)
HUMANITIES
Study of music through small group rehearsal. Limited to string players who have prior experience on their instrument.
Prerequisite: None

MUSC 164 Jazz Ensemble (1-3)
HUMANITIES
The Jazz Ensemble is a performance-oriented group. The student will explore the varieties of jazz styles from funk, bebop, and Latin to swing. Students must provide their own instrument and have had prior performance experience. Contact the music department about placement audition.
Prerequisite: None

MUSC 165 Mariachi Ensemble (1-3)
HUMANITIES
The Mariachi ensemble is a performance-oriented group that focuses on traditional Mexican music that is appropriate to the student's skill level. We concentrate on correct instrumental techniques, music reading skills, memorization, ear training, and stage presence. Instrumentation for this ensemble includes Violin, Guitarron, Vihuela, Trumpet and Voice.
Prerequisite: None

MUSC 174 Jazz Piano Intermediate (1)
HUMANITIES
Applied music instruction. Individual instruction in voice or instrument for music majors only which focuses on the practical application of musical principles to performance. Must be concurrently enrolled in one of the following: MUSC& 141, 142, 143 or 231, 232, 233. Contact department chair before registering. No more than 1 credit per quarter to a maximum of 6 credits.
Prerequisite: Music Department Chair permission required. Audition may be required. Audition may be required.

MUSC 175 Voice Intermediate (1)
HUMANITIES
Applied music instruction. Individual instruction in voice or instrument for music majors only which focuses on the practical application of musical principles to performance. Must be concurrently enrolled in one of the following: MUSC& 141, 142, 143 or 241, 242, 243. May also be taken by non-music majors depending on circumstances. No more than 1 credit per quarter to a maximum of 6 credits.
Prerequisite: Music Department Chair permission required. Audition may be required. Audition may be required.

MUSC 176 Guitar I (1)
HUMANITIES
Applied music instruction. Individual instruction in voice or instrument for music majors only which focuses on the practical application of musical principles to performance. Must be concurrently enrolled in one of the following: MUSC& 141, 142, 143 or 241, 242, 243. May also be taken by non-music majors depending on circumstance. No more than 1 credit per quarter to a maximum of 6 credits.
Prerequisite: Music Department Chair permission required. Audition may be required.

MUSC 178 Brass - Intermediate (1)
HUMANITIES
Applied music instruction. Individual instruction in voice or instrument for music majors only which focuses on the practical application of musical principles to performance. Must be concurrently enrolled in one of the following: MUSC& 141, 142, 143 or 241, 242, 243. May also be taken by non-music majors depending on circumstance. No more than 1 credit per quarter to a maximum of 6 credits.
Prerequisite: Music Department Chair permission required. Audition may be required.

MUSC 179 Woodwind-Intermediate (1)
HUMANITIES
Applied music instruction. Individual instruction in voice or instrument for music majors only which focuses on the practical application of musical principles to performance. Must be concurrently enrolled in one of the following: MUSC& 141, 142, 143 or 241, 242, 243. May also be taken by non-music majors depending on circumstance. No more than 1 credit per quarter to a maximum of 6 credits.
Prerequisite: Music Department Chair permission required. Audition may be required.

MUSC 180 Strings-Intermediate (1)
HUMANITIES
Applied music instruction. Individual instruction in voice or instrument for music majors only which focuses on the practical application of musical principles to performance. Must be concurrently enrolled in one of the following: MUSC& 141, 142, 143 or 241, 242, 243. May also be taken by non-music majors depending on circumstance. No more than 1 credit per quarter to a maximum of 6 credits.
Prerequisite: Music Department Chair permission required. Audition may be required.

MUSC 182 Piano-Intermediate (1)
HUMANITIES
Applied music instruction. Individual instruction in voice or instrument for music majors only which focuses on the practical application of musical principles to performance. Must be concurrently enrolled in one of the following: MUSC& 141, 142, 143 or 241, 242, 243. May also be taken by non-music majors depending on circumstance. No more than 1 credit per quarter to a maximum of 6 credits.
Prerequisite: Music Department Chair permission required. Audition may be required.

MUSC 187 Drums-Intermediate (1)
HUMANITIES
Applied music instruction. Individual instruction in voice or instrument for music majors only which focuses on the practical application of musical principles to performance. Must be concurrently enrolled in one of the following: MUSC& 141, 142, 143 or 241, 242, 243. May also be taken by non-music majors depending on circumstance. No more than 1 credit per quarter to a maximum of 6 credits.
Prerequisite: Music Department Chair permission required. Audition may be required.

MUSC 200 History of Keyboard Literature (2)
HUMANITIES
A comprehensive history of literature for all stringed keyboard instruments. This course is designed for the instructor of piano or a more advanced student.
Prerequisite: None

MUSC 211 Class Piano IV (2)
HUMANITIES
This course is designed for those with at least one year or more of private or class keyboard instruction who would like to strengthen their skills in reading, rhythm, and technique. Each class includes group and individual instruction in ensemble playing and repertoire materials. Students are encouraged to take this course along with MUSC 231. MUSC 211, 212, and 213 are Intermediate Piano courses and should be taken in sequence.
Prerequisite: MUSC 113 with a grade of C or better or instructor's permission.

MUSC 212 Class Piano V (2)
HUMANITIES
This course is designed for those with at least one year or more of private or class keyboard instruction who would like to strengthen their skills in reading, rhythm, and technique. Each class includes group and individual instruction in ensemble playing and repertoire materials. Students are encouraged to take this course along with MUSC 231. MUSC 211, 212, and 213 are Intermediate Piano courses and should be taken in sequence.
Prerequisite: MUSC 211 with a grade of C or better or instructor's permission.

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MUSC 213 Advanced Piano Class (3)
HUMANITIES
MUSC 213 is a continuation of MUSC 113. This course is in sync with keyboard expectations in the music transfer degree. Careful attention will be given to technical elements of playing, such as scales, chords, arpeggios, progressions, transpositions, sight reading and ensemble playing required to pass the piano proficiency exam at a 4-year transfer institution. Required for music majors.
Prerequisite: MUSC 113 with a grade of C or better or instructor's permission.

MUSC& 241 Music Theory IV (5)
HUMANITIES
Music Theory IV is the continuation of first-year music theory. Students enrolling must have completed Music Theory I, II, III prior to enrolling. Composition, analysis and performance, ear training and keyboarding are emphasized.
Prerequisite: MUSC& 143 with a "C" or higher.

MUSC& 242 Music Theory V (5)
HUMANITIES
This course continues the study of music theory from Music Theory IV. Counterpoint techniques in music literature will be examined and composed.
Prerequisite: MUSC& 241 with a "C" or higher.

MUSC& 243 Music Theory VI (5)
HUMANITIES
Music Theory VI is the last quarter of second year music theory. Late Romantic and modern compositional techniques will be studied and composed.
Prerequisite:MUSC& 242 with a "C" or higher.

MUSC 244 Advanced Composition (2)
HUMANITIES
Students will compose original musical pieces of increasing sophistication, performing them in class and possibly in a concert venue. Emphasis will be placed on musical analysis and the study of orchestration and the application of this to individualized compositions.
Prerequisite: MUSC 144 with a "C" or higher and concurrent enrollment in Music Theory.

MUSC 275 Voice-Advanced (1)
HUMANITIES
Applied music instruction. Individual instruction in voice or instrument for music majors only which focuses on the practical application of musical principles to performance. Must be concurrently enrolled in one of the following: MUSC& 141, 142, 143 or 241, 242, 243. May also be taken by non-music majors depending on circumstance. No more than 1 credit per quarter to a maximum of 6 credits.
Prerequisite: Music Department Chair permission required. Audition may be required.

MUSC 276 Guitar II (1)
HUMANITIES
Applied music instruction. Individual instruction in voice or instrument for music majors only which focuses on the practical application of musical principles to performance. Must be concurrently enrolled in one of the following: MUSC& 141, 142, 143 or 241, 242, 243. May also be taken by non-music majors depending on circumstance. No more than 1 credit per quarter to a maximum of 6 credits.
Prerequisite: Music Department Chair permission required. Audition may be required.

MUSC 278 Brass-Advanced (1)
HUMANITIES
Applied music instruction. Individual instruction in voice or instrument for music majors only which focuses on the practical application of musical principles to performance. Must be concurrently enrolled in one of the following: MUSC& 141, 142, 143 or 241, 242, 243. May also be taken by non-music majors depending on circumstance. No more than 1 credit per quarter to a maximum of 6 credits.
Prerequisite: Music Department Chair permission required. Audition may be required.

MUSC 279 Woodwind-Advanced (1)
HUMANITIES
Applied music instruction. Individual instruction in voice or instrument for music majors only which focuses on the practical application of musical principles to performance. Must be concurrently enrolled in one of the following: MUSC& 141, 142, 143 or 241, 242, 243. May also be taken by non-music majors depending on circumstance. No more than 1 credit per quarter to a maximum of 6 credits.
Prerequisite: Music Department Chair permission required. Audition may be required.

MUSC 280 Strings-Advanced (1)
HUMANITIES
Applied music instruction. Individual instruction in voice or instrument for music majors only which focuses on the practical application of musical principles to performance. Must be concurrently enrolled in one of the following: MUSC& 141, 142, 143 or 241, 242, 243. May also be taken by non-music majors depending on circumstance. No more than 1 credit per quarter to a maximum of 6 credits.
Prerequisite: Music Department Chair permission required. Audition may be required.

MUSC 282 Piano-Advanced (1)
HUMANITIES
Applied music instruction. Individual instruction in voice or instrument for music majors only which focuses on the practical application of musical principles to performance. Must be concurrently enrolled in one of the following: MUSC& 141, 142, 143 or 241, 242, 243. May also be taken by non-music majors depending on circumstance. No more than 1 credit per quarter to a maximum of 6 credits.
Prerequisite: Music Department Chair permission required. Audition may be required.

MUSC 287 Drums-Advanced (1)
HUMANITIES
Applied music instruction. Individual instruction in voice or instrument for music majors only which focuses on the practical application of musical principles to performance. Must be concurrently enrolled in one of the following: MUSC& 141, 142, 143 or 241, 242, 243. May also be taken by non-music majors depending on circumstance. No more than 1 credit per quarter to a maximum of 6 credits.
Prerequisite: Music Department Chair permission required. Audition may be required.

MUSC 299 Learning into Action (1-15)
HUMANITIES
Student develops and completes curriculum-related independent project which demonstrates skills and abilities and explores career options. May include, but is not limited to, service learning, original research, and travel abroad. Faculty sponsor approval required. Students with 45 transferable college credits are eligible to begin Learning into Action.
Prerequisite: None

NURS 099 TEAS TEST PREP (2)
HEALTH SCIENCES
Review and practice for the four areas on the TEAS test:
1) Quantitative; 2) Reading; 3) Grammar; 4) Science.
Prerequisite: BIOL& 160 with a "C" or higher.

NURS 100 Nursing Assistant Education (4)
LECTURE
HEALTH SCIENCES
This is a State of Washington-Department of Health approved program for nursing assistant certified training. Students must arrive on time the first day/night of class and be in attendance at every class in its entirety. To receive the completion certificate, the student must pass the course and complete mandated classroom, lab, and clinical hours. After receiving the course completion certificate, the student can then take the state mandated written and skills test. The additional state fees for testing and endorsement are approximately $190.
Prerequisite: Current Basic Life Support Healthcare Provider CPR card is required. A current TB test is required.

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NURS 101 Nursing Assistant Education (3)
CLINICAL
HEALTH SCIENCES

This is a State of Washington-Department of Health approved program for nursing assistant certified training. Students must arrive on time the first day/night of class and be in attendance at every class in its entirety. To receive the completion certificate, the student must pass the course and complete mandated classroom, lab, and clinical hours. After receiving the course completion certificate, the student can then take the state mandated written and skills test. The additional state fees for testing and endorsement are approximately $190.

Prerequisite: Current Basic Life Support Healthcare Provider CPR card is required. A current TB test is required.

NURS 102 Nursing Assistant Education (1)
LAB
HEALTH SCIENCES

This is a State of Washington-Department of Health approved program for nursing assistant certified training. Students must arrive on time the first day/night of class and be in attendance at every class in its entirety. To receive the completion certificate, the student must pass the course and complete mandated classroom, lab, and clinical hours. After receiving the course completion certificate, the student can then take the state mandated written and skills test. The additional state fees for testing and endorsement are approximately $190.

Prerequisite: Current Basic Life Support Healthcare Provider CPR card is required. A current TB test is required.

NURS 171 Nursing Fundamentals-Skills and Pract:D (7)
LECTURE
HEALTH SCIENCES

Introduction to the Associate Degree in Nursing. Includes the foundation needed for basic nursing practice and more advanced study. Concepts of person, health, environment, and nursing will be introduced. The nursing process is presented as the primary mechanism for providing care. Therapeutic communication techniques are studied as well as basic knowledge in pharmacology. Components of a complete multi-dimensional health assessment are presented. Focuses on the well individual and normal physiologic functioning including introductory review of basic alterations in health. Additional concepts basic to nursing practice are addressed including the Art of Nursing, safety, nutrition, lifespan, health teaching, culture, leadership, and ethical/legal aspects of practice. Encompasses the fundamental skills of nursing practice.

Prerequisites: Acceptance into the Skagit Valley College RN program. Please see entry requirements on the Nursing website page at skagit.edu/academics/areas-of-study/health-sciences/nursing/. AHA Healthcare Provider card, and current immunization status required.

NURS 172 Nursing Fundamentals-Skills and Pract:D (2)
CLINICAL
HEALTH SCIENCES

Introduction to the Associate Degree in Nursing. Includes the foundation needed for basic nursing practice and more advanced study. Concepts of person, health, environment, and nursing will be introduced. The nursing process is presented as the primary mechanism for providing care. Therapeutic communication techniques are studied as well as basic knowledge in pharmacology. Components of a complete multi-dimensional health assessment are presented. Focuses on the well individual and normal physiologic functioning including introductory review of basic alterations in health. Additional concepts basic to nursing practice are addressed including the Art of Nursing, safety, nutrition, lifespan, health teaching, culture, leadership, and ethical/legal aspects of practice. Encompasses the fundamental skills of nursing practice.

Prerequisites:Acceptance into the Skagit Valley College RN program. Please see entry requirements on the Nursing website page at skagit.edu/academics/areas-of-study/health-sciences/nursing/. AHA Healthcare Provider card, and current immunization status required.

NURS 173 Nursing Fundamentals-Skills and Pract:D (3)
LAB
HEALTH SCIENCES

Introduction to the Associate Degree in Nursing. Includes the foundation needed for basic nursing practice and more advanced study. Concepts of person, health, environment, and nursing will be introduced. The nursing process is presented as the primary mechanism for providing care. Therapeutic communication techniques are studied as well as basic knowledge in pharmacology. Components of a complete multi-dimensional health assessment are presented. Focuses on the well individual and normal physiologic functioning including introductory review of basic alterations in health. Additional concepts basic to nursing practice are addressed including the Art of Nursing, safety, nutrition, lifespan, health teaching, culture, leadership, and ethical/legal aspects of practice. Encompasses the fundamental skills of nursing practice.

Prerequisites:Acceptance into the Skagit Valley College RN program. Please see entry requirements on the Nursing website page at skagit.edu/academics/areas-of-study/health-sciences/nursing/. AHA Healthcare Provider card, and current immunization status required.

NURS 181 Nursing M/S Patient-Practicum (6)
LECTURE
HEALTH SCIENCES

Introduction to concepts and basic care of selected individuals throughout the lifespan experiencing basic alterations in cell growth, cardiac function, endocrine function (including diabetes), gastrointestinal function, musculoskeletal function, neurological function, and those undergoing surgery. Principles of pharmacology, nutrition and psychological issues will be integrated throughout. Concepts of context and environment, knowledge and science, personal and professional development, quality and safety, relationship centered care and teamwork are integrated throughout.

Prerequisite: NURS 171,NURS 172, and NURS 173 with a "B-" or higher.

NURS 182 Nursing M/S Patient-Practicum (6)
CLINICAL
HEALTH SCIENCES

Introduction to concepts and basic care of selected individuals throughout the lifespan experiencing basic alterations in cell growth, cardiac function, endocrine function (including diabetes), gastrointestinal function, musculoskeletal function, neurological function, and those undergoing surgery. Principles of pharmacology, nutrition and psychological issues will be integrated throughout. Concepts of context and environment, knowledge and science, personal and professional development, quality and safety, relationship centered care and teamwork are integrated throughout.

Prerequisite: NURS 171,NURS 172, and NURS 173 with a "B-" or higher.

NURS 183 Nursing M/S Patient-Practicum (6)
LAB
HEALTH SCIENCES

Introduction to concepts and basic care of selected individuals throughout the lifespan experiencing basic alterations in cell growth, cardiac function, endocrine function (including diabetes), gastrointestinal function, musculoskeletal function, neurological function, and those undergoing surgery. Principles of pharmacology, nutrition and psychological issues will be integrated throughout. Concepts of context and environment, knowledge and science, personal and professional development, quality and safety, relationship centered care and teamwork are integrated throughout.

Prerequisite: NURS 171,NURS 172, and NURS 173 with a "B-" or higher.

NURS 191 Nursing OB, Pediatrics, M/S-Skls Prac (3)
LECTURE
HEALTH SCIENCES

Introduction to concepts and basic care of selected individuals throughout the lifespan experiencing basic alterations in renal and urinary function, male and female reproduction, and integumentary func-

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tion. Adaptations with normal pregnancy, childbirth, the newborn to adolescent are examined as well as common alterations. The nursing process serves as the organizing framework for the study and delivery of nursing care. In addition, principles of pharmacology, nutrition and psychological issues will be integrated throughout.

Prerequisite: NURS 181 and NURS 182 with "B-" or higher and concurrent enrollment in SOC 191.

NURS 192 Nursing OB, Pediatrics, M/S-Skls Prac (4)
CLINICAL
HEALTH SCIENCES

Introduction to concepts and basic care of selected individuals throughout the lifespan experiencing basic alterations in renal and urinary function, male and female reproduction, and integumentary function. Adaptations with normal pregnancy, childbirth, the newborn to adolescent are examined as well as common alterations. The nursing process serves as the organizing framework for the study and delivery of nursing care. In addition, principles of pharmacology, nutrition and psychological issues will be integrated throughout.

Prerequisite: NURS 181 and NURS 182 with "B-" or higher and concurrent enrollment in SOC 191.

NURS 271 Nursing Advncd OB, Ped, M/S-Skls Prac (5)
LECTURE
HEALTH SCIENCES

Examines nursing care complex physical alterations in the pediatric individuals as well as adult individuals who are experiencing complex alterations in the endocrine, gastrointestinal and gastrointestinal accessory systems. In addition to medical-surgical care, the care of patients experiencing a high risk pregnancy and high risk newborns is described. Concepts of context and environment, knowledge and science, personal and professional development, quality and safety, relationship centered care and teamwork are integrated throughout.

Prerequisites: NURS 191, NURS 192 and SOC 191 with a "B-" or higher.

NURS 272 Nursing Advncd OB, Ped, M/S-Skls Prac (5)
CLINICAL
HEALTH SCIENCES

Examines nursing care complex physical alterations in the pediatric individuals as well as adult individuals who are experiencing complex alterations in the endocrine, gastrointestinal and gastrointestinal accessory systems. In addition to medical-surgical care, the care of patients experiencing a high risk pregnancy and high risk newborns is described. Concepts of context and environment, knowledge and science, personal and professional development, quality and safety, relationship centered care and teamwork are integrated throughout.

Prerequisites: NURS 191, NURS 192 and SOC 191 with a "B-" or higher.

NURS 273 Nursing Advncd OB, Ped, M/S-Skls Prac (2)
LAB
HEALTH SCIENCES

Examines nursing care complex physical alterations in the pediatric individuals as well as adult individuals who are experiencing complex alterations in the endocrine, gastrointestinal and gastrointestinal accessory systems. In addition to medical-surgical care, the care of patients experiencing a high risk pregnancy and high risk newborns is described. Concepts of context and environment, knowledge and science, personal and professional development, quality and safety, relationship centered care and teamwork are integrated throughout.

Prerequisites: NURS 191, NURS 192 and SOC 191 with a "B-" or higher.

NURS 274 Nursing Advncd OB, Ped, M/S-Skls Prac (3)
LECTURE 1
HEALTH SCIENCES

Examines nursing care complex physical alterations in the pediatric individuals as well as adult individuals who are experiencing complex alterations in the endocrine, gastrointestinal and gastrointestinal accessory systems. In addition to medical-surgical care, the care of patients experiencing a high risk pregnancy and high risk newborns is described. Concepts of context and environment, knowledge and science, personal and professional development, quality and safety, relationship centered care and teamwork are integrated throughout. (Section one of a two-part course.)

Prerequisites: Acceptance into the Skagit Valley College RN program. Please see entry requirements on the Nursing website page at skagit.edu/academics/areas-of-study/health-sciences/nursing/. AHA Healthcare Provider card, and current immunization status required.

NURS 275 Nursing Advncd OB, Ped, M/S-Skls Prac (2)
CLINICAL 1
HEALTH SCIENCES

Examines nursing care complex physical alterations in the pediatric individuals as well as adult individuals who are experiencing complex alterations in the endocrine, gastrointestinal and gastrointestinal accessory systems. In addition to medical-surgical care, the care of patients experiencing a high risk pregnancy and high risk newborns is described. Concepts of context and environment, knowledge and science, personal and professional development, quality and safety, relationship centered care and teamwork are integrated throughout. (Section one of a two-part course.)

Prerequisite: NURS 274, NURS 276, and NURS 277 with a "B-" or higher.

NURS 276 Nursing Advncd OB, Ped, M/S-Skls Prac (1)
LAB 1
HEALTH SCIENCES

Examines nursing care complex physical alterations in the pediatric individuals as well as adult individuals who are experiencing complex alterations in the endocrine, gastrointestinal and gastrointestinal accessory systems. In addition to medical-surgical care, the care of patients experiencing a high risk pregnancy and high risk newborns is described. Concepts of context and environment, knowledge and science, personal and professional development, quality and safety, relationship centered care and teamwork are integrated throughout. (Section one of a two-part course.)

Prerequisite: Acceptance into the Skagit Valley College RN program. Please see entry requirements on the Nursing website page at skagit.edu/academics/areas-of-study/health-sciences/nursing/.

NURS 277 Nursing Advncd OB, Ped, M/S-Skls Prac (2)
LECTURE 2
HEALTH SCIENCES

Examines nursing care complex physical alterations in the pediatric individuals as well as adult individuals who are experiencing complex alterations in the endocrine, gastrointestinal and gastrointestinal accessory systems. In addition to medical-surgical care, the care of patients experiencing a high risk pregnancy and high risk newborns is described. Concepts of context and environment, knowledge and science, personal and professional development, quality and safety, relationship centered care and teamwork are integrated throughout. (Section two of a two-part course.)

Prerequisites: Acceptance into the Skagit Valley College RN program. Please see entry requirements on the Nursing website page at skagit.edu/academics/areas-of-study/health-sciences/nursing/.

NURS 278 Nursing Advncd OB, Ped, M/S-Skls Prac (3)
CLINICAL 2
HEALTH SCIENCES

Examines nursing care complex physical alterations in the pediatric individuals as well as adult individuals who are experiencing complex alterations in the endocrine, gastrointestinal and gastrointestinal accessory systems. In addition to medical-surgical care, the care of patients experiencing a high risk pregnancy and high risk newborns is described. Concepts of context and environment, knowledge and science, personal and professional development, quality and safety, relationship centered care and teamwork are integrated throughout. (Section two of a two-part course.)

Prerequisite: NURS 274, NURS 276, and NURS 277 with a "B-" or higher.

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NURS 279 Nursing Advncd OB, Ped, M/S-Skls Prac (1)
LAB 2
HEALTH SCIENCES
Examines nursing care complex physical alterations in the pediatric individuals as well as adult individuals who are experiencing complex alterations in the endocrine, gastrointestinal and gastrointestinal accessory systems. In addition to medical-surgical care, the care of patients experiencing a high risk pregnancy and high risk newborns is described. Concepts of context and environment, knowledge and science, personal and professional development, quality and safety, relationship centered care and teamwork are integrated throughout. (Section two of a two-part course.)
Prerequisite: NURS 274, NURS 276, and NURS 277 with a "B-" or higher.

NURS 281 Nursing Complx M/S and Geriatric Patient (6)
LECTURE
HEALTH SCIENCES
Examines nursing care of selected individuals, throughout the lifespan with a special focus on the geriatric population experiencing complex and multidimensional alterations in neurological, respiratory, cardiac, hematologic/oncologic and renal function. In addition to these medical/surgical concepts, trauma, disaster preparedness and critical care will be addressed. Contains 16 hours of psychiatric nursing clinical which applies previous learning in acute care and/or community care settings. Focuses on applying previous learning in the advanced care of mental health patients. The pharmacologic management of these patients will also be analyzed.
Prerequisite: NURS 271, NURS 272, and NURS 273 with a "B-" or higher.

NURS 282 Nursing Complx M/S and Geriatric Patient (6)
CLINICAL
HEALTH SCIENCES
Examines nursing care of selected individuals, throughout the lifespan with a special focus on the geriatric population experiencing complex and multidimensional alterations in neurological, respiratory, cardiac, hematologic/oncologic and renal function. In addition to these medical/surgical concepts, trauma, disaster preparedness and critical care will be addressed. Contains 16 hours of psychiatric nursing clinical which applies previous learning in acute care and/or community care settings. Focuses on applying previous learning in the advanced care of mental health patients. The pharmacologic management of these patients will also be analyzed.
Prerequisite: NURS 271, NURS 272, and NURS 273 with a "B-" or higher.

NURS 284 Nursing Complx M/S and Geriatric Patient (3)
LECTURE 1
HEALTH SCIENCES
Examines nursing care of selected individuals, throughout the lifespan with a special focus on the geriatric population experiencing complex and multidimensional alterations in neurological, respiratory, cardiac, hematologic/oncologic and renal function. In addition to these medical/surgical concepts, trauma, disaster preparedness and critical care will be addressed. Contains 16 hours of psychiatric nursing clinical which applies previous learning in acute care and/or community care settings. Focuses on applying previous learning in the advanced care of mental health patients. The pharmacologic management of these patients will also be analyzed. (Section one of a two-part course.)
Prerequisite: NURS 275, NURS 278, and NURS 279 with a "B-" or higher.

NURS 285 Nursing Complx M/S and Geriatric Patient (3)
CLINICAL 1
HEALTH SCIENCES
Examines nursing care of selected individuals, throughout the lifespan with a special focus on the geriatric population experiencing complex and multidimensional alterations in neurological, respiratory, cardiac, hematologic/oncologic and renal function. In addition to these medical/surgical concepts, trauma, disaster preparedness and critical care will be ad-dressed. Contains 16 hours of psychiatric nursing clinical which applies previous learning in acute care and/or community care settings. Focuses on applying previous learning in the advanced care of mental health patients. The pharmacologic management of these patients will also be analyzed. (Section one of a two-part course.)
Prerequisite: NURS 275, NURS 278, and NURS 279 with a "B-" or higher.

NURS 287 Nursing Complx M/S and Geriatric Patient (3)
LECTURE 2
HEALTH SCIENCES
Examines nursing care of selected individuals, throughout the lifespan with a special focus on the geriatric population experiencing complex and multidimensional alterations in neurological, respiratory, cardiac, hematologic/oncologic and renal function. In addition to these medical/surgical concepts, trauma, disaster preparedness and critical care will be addressed. Contains 16 hours of psychiatric nursing clinical which applies previous learning in acute care and/or community care settings. Focuses on applying previous learning in the advanced care of mental health patients. The pharmacologic management of these patients will also be analyzed. (Section two of a two-part course.)
Prerequisite: NURS 284 and NURS 285 with a "B-" or higher.

NURS 288 Nursing Complx M/S and Geriatric Patient (3)
CLINICAL 2
HEALTH SCIENCES
Examines nursing care of selected individuals, throughout the lifespan with a special focus on the geriatric population experiencing complex and multidimensional alterations in neurological, respiratory, cardiac, hematologic/oncologic and renal function. In addition to these medical/surgical concepts, trauma, disaster preparedness and critical care will be addressed. Contains 16 hours of psychiatric nursing clinical which applies previous learning in acute care and/or community care settings. Focuses on applying previous learning in the advanced care of mental health patients. The pharmacologic management of these patients will also be analyzed. (Section two of a two-part course.)
Prerequisite: NURS 284 and NURS 285 with a "B-" or higher.

NURS 291 Entry Nursing Practice/Practicum (1)
LECTURE
HEALTH SCIENCES
Focuses on factors impacting entry into practice. Examine challenges faced in todays workplace and how to prepare for them. Power, leadership, communication and collaboration are viewed as key factors in helping the nurse be effective in the healthcare environment. Analyzes the safety and well-being of the patient and the nurse. The concepts of context and environment, knowledge and science, personal and professional development, quality and safety, relationship centered care and teamwork are integrated throughout.
Prerequisite: NURS 281, 282 with grade of 2.7 (B-) or higher. Concurrent enrollment in PHIL 291.

NURS 292 Entry Nursing Practice/Practicum (4)
CLINICAL
HEALTH SCIENCES
Focuses on factors impacting entry into practice. Examine challenges faced in todays workplace and how to prepare for them. Power, leadership, communication and collaboration are viewed as key factors in helping the nurse be effective in the healthcare environment. Analyzes the safety and well-being of the patient and the nurse. The concepts of context and environment, knowledge and science, personal and professional development, quality and safety, relationship centered care and teamwork are integrated throughout.
Prerequisite: NURS 281, 282 with grade of 2.7 (B-) or higher. Concurrent enrollment in PHIL 291.

NURS 294 Entry into Nursing Practice and Practicum (1)
LECTURE 1
HEALTH SCIENCES
Focuses on factors impacting entry into practice. Examine challenges faced in todays workplace and how to prepare for them. Power, lead-

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ership, communication and collaboration are viewed as key factors in helping the nurse be effective in the healthcare environment. Analyzes the safety and well-being of the patient and the nurse. The concepts of context and environment, knowledge and science, personal and professional development, quality and safety, relationship centered care and teamwork are integrated throughout. (Section one of a two-part course.)

Prerequisite: NURS 287, 288 with a minimum C grade (2.0) in each. Concurrent enrollment in PHIL 294.

NURS 295 Entry into Nursing Practice and Practicum 2 (2)
CLINICAL 1
HEALTH SCIENCES

Focuses on factors impacting entry into practice. Examine challenges faced in todays workplace and how to prepare for them. Power, leadership, communication and collaboration are viewed as key factors in helping the nurse be effective in the healthcare environment. Analyzes the safety and well-being of the patient and the nurse. The concepts of context and environment, knowledge and science, personal and professional development, quality and safety, relationship centered care and teamwork are integrated throughout. (Section two of a two-part course.)

Prerequisite: PHIL 294 or PHIL 297 with a "B-" or higher.

NURS 297 Nursing Adult/Child Practicum V (0.5)
LECTURE 2
HEALTH SCIENCES

Focuses on factors impacting entry into practice. Examine challenges faced in todays workplace and how to prepare for them. Power, leadership, communication and collaboration are viewed as key factors in helping the nurse be effective in the healthcare environment. Analyzes the safety and well-being of the patient and the nurse. The concepts of context and environment, knowledge and science, personal and professional development, quality and safety, relationship centered care and teamwork are integrated throughout. (Section two of a two-part course.)

Prerequisite: PHIL 294 or PHIL 297 with a "B-" or higher.

NURS 298 Nursing Care of the Adult/Child IV (2)
CLINICAL 2
HEALTH SCIENCES

Focuses on factors impacting entry into practice. Examine challenges faced in todays workplace and how to prepare for them. Power, leadership, communication and collaboration are viewed as key factors in helping the nurse be effective in the healthcare environment. Analyzes the safety and well-being of the patient and the nurse. The concepts of context and environment, knowledge and science, personal and professional development, quality and safety, relationship centered care and teamwork are integrated throughout. (Section two of a two-part course.)

Prerequisite: PHIL 294 or PHIL 297 with a "B-" or higher.

NUTR& 101 Nutrition (5)
HEALTH SCIENCES

Basic principles of nutritional science, chemical composition of foods, digestion, absorption, and metabolism. Scientific evaluation of nutritional needs of humans and current nutritional controversies.

Prerequisite: Grade of 2.0 or higher in ENGL 097, or AESL 098, or appropriate test score.

OBT 098 Computer Basics (2)
BUSINESS

Introduction to basic computer skills for the novice computer user. Through a hands-on approach, understand common computer terms, develop navigation skills with the keyboard and mouse, manage electronic files, send and receive email, locate information on the World Wide Web, and explore e-learning tools. Provides a foundation for other computer classes requiring these skills.

Prerequisite: None.

OBT 099 Keyboarding—Beginning (4)
BUSINESS

Basics of keyboarding skills for students who cannot type by touch; speed and accuracy building. No credit will be given if student has completed an equivalent course.

Prerequisite: None.

OBT 105 Keyboarding—Skillbuilding (2)
BUSINESS

Improve efficiency of touch typing by building keyboarding speed and accuracy. Diagnostic tools and prescriptive practice will be used to enhance keyboarding skill.

Prerequisite: OBT 099 with a "D" or higher.

OBT 110 Introduction to Office Technologies: D (3)
BUSINESS

Introduction to office careers, the office environment, and office technology. Basic skills to succeed in office support roles including general office procedures, interpersonal and customer service skills, and an overview of office technologies.

Prerequisite: None.

OBT 115 Business English (5)
BUSINESS

Fundamentals of business grammar with an emphasis on proofreading and editing business documents.

Prerequisite: None.

OBT 118 Records Management (4)
BUSINESS

Study of basic concepts in the management of records and information. Includes specialized terminology, filing rules and systems, paper-based and electronic files management, records security, and ethical concerns.

Prerequisite: None.

OBT 122 MS Word I (3)
BUSINESS

Use Microsoft Word for PCs to create and edit documents; apply a variety of font, paragraph, and page formats; create tables; add graphical enhancements; and perform a basic mail merge.

Prerequisite: Basic computer skills and the ability to type by touch are strongly recommended.

OBT 124 Document Production (4)
BUSINESS

Use word processing software to produce accurate business documents including letters, envelopes and labels, memos, tables, reports, agendas, itineraries, and minutes using standard business formats. Includes proofreading.

Prerequisite: OBT 122 with a “D” or higher.

OBT 126 MS Word II (3)
BUSINESS

Use Microsoft Word for PCs to automate and customize the formatting of documents, prepare academic and multipage documents, create and customize graphical objects, create forms, prepare documents for workgroup collaboration, and customize MS Word for improved productivity.

Prerequisite: OBT 122 with a “D” or higher.

OBT 132 MS Powerpoint (4)
BUSINESS

Apply the features of Microsoft PowerPoint for PCs to design, create, edit, and format slide presentations; add graphical enhancements to slide content; apply transitions and animations; add sound and video; prepare notes and handouts; and customize and run a slide show.

Prerequisite: Basic computer and file management skills and the ability to type by touch.

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OBT 134 MS Excel and Access I (5)
BUSINESS
Use Microsoft Excel for PCs to create, edit, and format spreadsheets; write formulas and use functions to find numerical solutions; create charts and add graphics to create visual interest; and manage worksheet data. Use Microsoft Access for PCs to create, edit, and manage database tables; establish table relationships; filter, query, and sort data; and create forms and reports.
Prerequisite: Basic computer skills and the ability to type by touch are strongly recommended. (For PCs only).

OBT 135 MS Excel and Access II (5)
BUSINESS
Use Microsoft Excel for PCs to apply advanced formatting techniques to spreadsheets and charts, write complex formulas and use advanced functions, use What-if Analysis tools, manage and analyze worksheet data, and automate tasks with templates and macros. Use Microsoft Access for PCs to design a relational database, enhance the design of tables, use advanced query and filter techniques, and design custom forms and reports.
Prerequisite: OBT 134 with a "D" or higher.

OBT 139 Automated Office Project (1)
BUSINESS
Specialized instruction on new office technologies.
Prerequisite: Basic computer skills and the ability to type by touch are strongly recommended.

OBT 140 10-Key Business Calculations (4)
BUSINESS
Develop touch addition speed and accuracy on the 10-key keyboard. Develop a functional knowledge of the electronic calculator and apply mathematical concepts to solve efficiently business calculations. Learn to convert calculator-based computations to spreadsheet formulas.
Prerequisite: prior or concurrent enrollment in college-level math.

OBT 162 Microsoft Office Basics (3)
BUSINESS
Introduction to the Microsoft Office suite of software for PCs: Word, Excel, PowerPoint, and Access. Provides familiarity with the programs; for more training see OBT 122.
Prerequisite: Basic computer skills and the ability to type by touch are strongly recommended.

OBT 199 Cooperative Education Experience (1-15)
BUSINESS
Supervised work experience in the field. Includes a weekly seminar.
Prerequisite: Instructor permission required.

OBT 204 Microsoft Publisher (4)
BUSINESS
Use Microsoft Publisher for PCs to create a variety of publication layouts that follow basic design and typography principles. In addition to learning to use the features and tools in MS Publisher, basic design and typography principles will be introduced.
Prerequisite: OBT 122 or OBT 124 with a "D" or higher.

OBT 210 Electronic Communications (3)
BUSINESS
Use the features of Microsoft Outlook to manage email, calendars, contacts, and tasks. Use Web-based resources to collaborate and communicate via text, audio, and video.

OBT 215 Business Communications: D (5)
BUSINESS
Composition skills for writing effective business communications including email, memos, letters, job-seeking documents, and functional reports. Business presentation skills. Team collaboration skills.
Prerequisite: ENGL& 101 and OBT 115 with a "D" or higher. Word processing skills are strongly recommended.

OBT 232 MS Office Integrated Projects (3)
BUSINESS
Use the features of Microsoft Word, Excel, Access, and PowerPoint for PCs to complete business projects that require the integration of data among the programs. Linking, embedding, importing, and exporting techniques will be introduced.
Prerequisite: OBT 122, OBT 132, and OBT 134 with a "D" or higher.

OBT 280 Final Project (1)
BUSINESS
Demonstrate proficiency in a variety of office skills by completing a portfolio and other assessment activities. Serves as a final assessment of student skills.
Prerequisite: Must be taken during the last one or two quarters of a student's program. It is strongly recommended that students take this course during their FINAL quarter of the program.

OCEA& 101 Introduction to Oceanography (5)
NATURAL SCIENCES
A survey of the extent and nature of the oceans including the contributions of the solid Earth, hydrosphere, atmosphere, and biosphere to their physical structure, chemical composition, and functioning. Field trips may be required. Lab included.
Prerequisite: ENGL 099 with a grade of "C" or higher (or placement into college-level English); and either placement into OR co-enrollment in OR completion of a college-level Math course with a grade of "C" or higher.

ODHS 017 Competency–Geometry/Integrated Math II (1)
BASIC EDUCATION FOR ADULTS
This course provides students the opportunity to demonstrate high school competency in Geometry or Integrated Math II through life experience.

ODHS 018 HSC First Quarter Experience (3)
BASIC EDUCATION FOR ADULTS
In this course, students will explore the relationship between power and education by learning about the historical inequities of the U.S. public school system. Students will identify the institutional, societal, and personal barriers to education that they have faced in the past and create a plan for overcoming those barriers in the future. Students will receive consistent study skills instruction and feedback that they will apply to co-enrolled courses.

ODHS 025 CCB Digital Literacy (3)
BASIC EDUCATION FOR ADULTS
This course covers skills and knowledge needed to effectively use technology for college and career success.

ODHS 027 Competency–English (1)
BASIC EDUCATION FOR ADULTS
This course provides students the opportunity to demonstrate high school competency in English through placement exam and prior transcripts.

ODHS 028 Competency–State History (1)
BASIC EDUCATION FOR ADULTS
This course provides students the opportunity to demonstrate high school competency in State History through life experience or prior transcripts.

ODHS 029 Competency–U.S. History (1)
BASIC EDUCATION FOR ADULTS
This course provides students the opportunity to demonstrate high school competency in U.S. History through life experience or prior transcripts.

ODHS 031 CCB Literacy and Math I (1-16)
BASIC EDUCATION FOR ADULTS
First in a series of three courses in which students improve critical thinking, reading, writing, oral communication, and math skills to pre-

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pare for entry into high school completion and/or transition to college or employment.

ODHS 032 CCB Literacy and Math II (1-16)
BASIC EDUCATION FOR ADULTS

Second in a series of three courses in which students improve critical thinking, reading, writing, oral communication, and math skills to prepare for entry into high school completion and/or transition to college or employment.

ODHS 033 CCB Literacy and Math III (1-16)
BASIC EDUCATION FOR ADULTS

Third course in a series to improve academic confidence through mastering critical thinking, writing, and reading skills in order to prepare for completion of HS21+ or GED and/or transition to college coursework. May be contextualized within social science, humanities, or science content areas or topics.

ODHS 041 CCB Basic Math (5)
BASIC EDUCATION FOR ADULTS

A beginning mathematics course designed to establish a solid mathematical foundation. Topics include operations using whole numbers, decimals, and fractions; determining place-value, and order of operations; calculations using ratios and proportions.

Prerequisite: CASAS math score 204-220 or placement based on HS transcripts.

ODHS 042 CCB Pre-Algebra (5)
BASIC EDUCATION FOR ADULTS

A course designed to prepare students for entry into Math 97 or WMath 100. Emphasis on strengthening basic arithmetic skills, analyzing data, computing with integers, and using basic algebra equations to solve applied proportion, percent, and geometry problems.

Prerequisite: CCB 041 OR CCBS 041 or CASAS Math Goals score of 221-235 or placement based on HS transcripts.

ODHS 043 CCB Beginning Algebra (5)
BASIC EDUCATION FOR ADULTS

A beginning course in algebra, building on topics introduced in CCB 042. Topics include algebraic expressions, solving linear equations and inequalities, graphing linear equations, solving systems of linear equations and inequalities, mathematical modeling, and functions.

Prerequisite: CCB 042 or CASAS Goals Math 226-235 or placement based on HS transcripts.

ODHS 044 Introduction to Geometry and Math Literacy (5)
BASIC EDUCATION FOR ADULTS

Students will review and apply basic math skills while exploring topics in geometry.

ODHS 045 HSC Algebra II (5)
BASIC EDUCATION FOR ADULTS

This course continues topics covered in high school algebra and completes all HS math requirements for the HS+ diploma.

Prerequisite: Completion of HSC 018 or Permission AND one of the following: completion of CCB 043, CASAS Math Goals score 236-250, or placement based on HS transcripts.

ODHS 050 College Prep Seminar (2)
BASIC EDUCATION FOR ADULTS

Course will focus on providing students transitioning into college and career programs with an orientation to college resources and labor market information to assist them in making an informed decision in choosing a career pathway.

Prerequisite: Concurrent Enrollment in CCB 054 OR advisor permission.

ODHS 051 Academic Skills Lab (2)
BASIC EDUCATION FOR ADULTS

Students receive support and tutoring in academic skills including writing, math, and reading for coursework assigned in CCB, ELA, On Ramp, HS21+, or I-BEST classes.

ODHS 052 HSC Fine Arts (3)
BASIC EDUCATION FOR ADULTS

This course explores the forms, meanings, and purposes of art and its role in human society.

Prerequisite: Completion of/co-enrollment in HSC 018 or permission.

ODHS 053 HSC Social Studies Project (1-5)
BASIC EDUCATION FOR ADULTS

This project-based course is designed to help students demonstrate competency in social studies subjects required for the HS+ diploma.

Prerequisite: HSC 018 with a "D" or higher AND HSC 065 with a "C" or higher (or 1 credit U.S. History from HS transcripts)

ODHS 060 GED Prep Social Studies and Language Arts (1-7)
BASIC EDUCATION FOR ADULTS

Students work toward knowledge and competencies required to pass GED exams in social studies and language arts.

Prerequisite: CASAS GOALS Reading Score 243+; (or Accuplacer Reading Next Gen 237+)
Prerequisite/Corequisite: Concurrent enrollment in either HSC 018 or ELA 018, or HSC 018 or ELA 018 with a "D" or higher.

ODHS 061 HSC World Problems and Fine Arts (5)
BASIC EDUCATION FOR ADULTS

This course explores the historical and cultural context of current world problems using methods of Theater of the Oppressed and/or other art forms.

Prerequisite: Completion of /co-enrollment in HSC 018 or Permission.

ODHS 063 HSC Civics and Government (3)
BASIC EDUCATION FOR ADULTS

In this course, students explore federal, state, tribal, and local government organization and procedures, as well as their histories and underlying philosophies. This includes study of primary source materials that serve as foundational documents for these systems of government.

Prerequisite:HSC 065 with a "C" (or 1 credit U.S. History from HS transcripts)
Prerequisite/ Corequisite: HSC 018 with "D".

ODHS 065 HSC U.S. History (5)
BASIC EDUCATION FOR ADULTS

This course examines major developments in U.S. history.

Prerequisite/Corequisite: HSC 018 or ELA 018 with a "D" or higher (or concurrent enrollment)

ODHS 066 Washington State History (3)
BASIC EDUCATION FOR ADULTS

Students explore topics in Washington State history.

Prerequisite: CASAS Reading Score 228 or completion of CCB/ENGL 095 AND Co-requisite HSC 018.

ODHS 067 Washington State History and the Environment (5)
BASIC EDUCATION FOR ADULTS

Students explore the ways in which human civilization has shaped the land in Washington State throughout its history.

Prerequisite: CASAS Reading Score 228 or completion of CCB/ENGL 095 AND Co-requisite HSC 018.

ODHS 068 HSC Washington State History and Ethnic Studies (5)
BASIC EDUCATION FOR ADULTS

This course examines major developments in Washington State history and the Pacific Northwest region.

Prerequisite/Corequisite: HSC 018 or ELA 018 with a "D" or higher (or concurrent enrollment)

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ODHS 069 Washington State History and the Environment (w/ lab) (5)
BASIC EDUCATION FOR ADULTS
Students explore the ways in which human civilization has shaped the land in Washington State throughout its history.
Prerequisite: CASAS Reading Score 236 or completion of CCB/ENGL 096 AND co-requisite HSC 018.

ODHS 070 GED Prep Social Studies and Language Arts (7)
BASIC EDUCATION FOR ADULTS
Students work toward knowledge and competencies required to pass GED exams in Social Studies and Language Arts. Instruction offered in Spanish.
Prerequisites: Basic computer and typing skills, OR CCB 024 or CCBS 024 with a C or better.

ODHS 073 HSC Science of Music (5)
BASIC EDUCATION FOR ADULTS
Students explore the connection between music and science by learning about the physics of sound, the biology of sound perception, and the psychology of human responses to music. This course is especially useful to students pursuing Early Childhood Education AAS or Education DTA.
Prerequisite: HSC 018 with a grade of D or higher; and MATH 96 or CCB 042 with a grade of C or higher, or a pre-algebra class at another institution; and CCB or ENGL 096 with a grade of C or higher OR placement into CCB or ENGL 097

ODHS 074 HSC Botany (5)
BASIC EDUCATION FOR ADULTS
Students explore the structure and life cycle of plants and their role in our ecosystem and in society.
Prerequisite: HSC 018 with a grade of D or higher; and MATH 96 or CCB 042 with a C or higher, or a pre-algebra class at another institution; and CCB or ENGL 096 with a C or higher OR placement into CCB or ENGL 097

ODHS 075 HSC Science with Lab (5)
BASIC EDUCATION FOR ADULTS
This course covers life and/or physical science topics.
Prerequisite: HSC 018 with a grade of D or higher; and MATH 96 or CCB 042 with a grade of C or higher, or a pre-algebra class at another institution; and CCB or ENGL 096 with a grade of C of higher OR placement into CCB or ENGL 097.

ODHS 076 HSC Nutrition, Health, and Fitness (5)
BASIC EDUCATION FOR ADULTS
This course explores basic principles of nutritional science, digestion, absorption, and metabolism, scientific evaluation of nutritional needs of humans, cultural influences on food, and current nutrition controversies.
Prerequisite/Corequisite: HSC 018 or ELA 018 with a "D" or higher (or concurrent enrollment)

ODHS 080 HSC Physical Education and Health (3)
BASIC EDUCATION FOR ADULTS
This course covers topics in health and fitness in fulfillment of high school completion requirements.
Prerequisite/Co-requisite: HSC 018 or ELA 018 with a grade of D or higher OR concurrent enrollment.

ODHS 081 Competency–World Problems (1)
BASIC EDUCATION FOR ADULTS
This course provides students the opportunity to demonstrate high school competency in World Problems through life experience or prior transcripts.
Prerequisite:None.

ODHS 083 Competency–Electives (1-4)
BASIC EDUCATION FOR ADULTS
This course provides students the opportunity to demonstrate high school competency in electives through life experience.
Prerequisite:None.

ODHS 084 Competency–Civics (1)
BASIC EDUCATION FOR ADULTS
Identify and document life experience to demonstrate competency in high school Civics.
Prerequisite:None

ODHS 086 Competency–Algebra/Int. Math I (1)
BASIC EDUCATION FOR ADULTS
This course provides students the opportunity to demonstrate high school competency in algebra or Integrated Math I through life experience.
Prerequisite:None.

ODHS 087 Elementary Algebra (5)
BASIC EDUCATION FOR ADULTS
This is a beginning course in algebra. Topics include: algebraic expressions; linear equations and inequalities; systems of linear equations and inequalities; and an introduction to polynomials and factoring.
Prerequisite: MATH 096 or CCB 42 with a "C" or higher (or placement into CCB42/MATH 097/WMATH 100).

ODHS 089 Intermediate Algebra (5)
BASIC EDUCATION FOR ADULTS
This course builds on topics from Math 97. Topics include: an introduction to polynomials and factoring; quadratic, rational, radical, exponential, and logarithmic functions and equations; complex numbers; composite and inverse functions; distance formula and circles.
Prerequisite: CCB 87 or ODHS 87 or MATH 97 with a grade of C or higher, or appropriate math placement score.

ODHS 095 Transitional Reading and Writing (1-10)
BASIC EDUCATION FOR ADULTS
Examine habits, attitudes, and thought processes that lead to academic and professional success. Improve academic confidence through building critical thinking, writing, and reading skills, as well as digital literacy.
Prerequisite: CASAS Reading GOALS score of 217-227 or instructor permission.

ODHS 096 English Foundations (5)
BASIC EDUCATION FOR ADULTS
For High School Completion students who have not taken and passed any high school English courses. This course covers grammar, writing, and communication skills in fulfillment of the English 1 and 2 requirements for the high school diploma.
Prerequisite: CASAS Reading score 228-242 AND completion of / co-enrollment in HSC 018.

ODHS 097 College Prep English (1-10)
BASIC EDUCATION FOR ADULTS
Improve academic skills and confidence through mastering critical thinking, writing, and reading skills. Identify and implement habits, attitudes, and thought processes that lead to academic and professional success.
Prerequisite: CASAS Reading GOALS Score 243-262 OR passing grade in CCB 096. Students enrolling in this course should possess typing and computer skills.

ODHS 099 Academic Skills (1-10)
BASIC EDUCATION FOR ADULTS
Develop fundamental reading, writing, and/or math skills needed for success in discipline-based I-BEST course through contextualized instruction.
Prerequisite: Co-enrollment in appropriate content course.

PE 011 Boat Piloting (1)
HEALTH SCIENCES
Piloting, rules of the road, basic knots and safety. Given by the U.S. Squadron.
Prerequisite: None

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PE 011 Piloting and Seamanship (1)
HEALTH SCIENCES
Second part of the Piloting course. Piloting, rules of the road, basic knots, safety. Given by the U.S. Power Squadron.
Prerequisite: PE 011 with a "D" or higher.

PE 100 Wellness For Life (1)
HEALTH SCIENCES
This course addresses issues of physiological and psychological well-being. Topics to be discussed include nutrition principles, fitness parameters and stress management. Techniques are presented to help the student incorporate a total health and fitness program into their lifestyle.
Prerequisite: None

PE 101 Conditioning (1)
HEALTH SCIENCES
A cardiovascular and muscular endurance/strength class that incorporates a variety of activities which may include weight training, aerobics, kickboxing, basketball, badminton, pickleball, and yoga. This class is designed to accommodate all fitness levels.

PE 102 Advanced Conditioning (1)
HEALTH SCIENCES
This course is designed for students who are currently physically fit. Advanced cardiovascular and muscular endurance exercises will be incorporated.

PE 103 Wellness Movement (2)
HEALTH SCIENCES
Movement education and practice includes cardio respiratory, strength, mobility, and flexibility/body alignment and stress management activities. This course introduces various movement patterns in coordination with the concepts presented in the PE100 Wellness for Life curriculum (which is always taken in combination with this activity course). Techniques presented help the student incorporate a total health and fitness program into their lifestyle.

PE 105 Beginning Swimming (1)
HEALTH SCIENCES
Simple water safety techniques for the non-swimmer. Development of confidence, floating and elementary strokes will be taught.

PE 106 Intermediate Swimming (1)
HEALTH SCIENCES
Special emphasis on four basic strokes as to form and endurance in performance. For those students who swim in poor form, 20 yards (one length).
Prerequisite: PE 105 with a "D" or higher.

PE 107 Advanced Swimming (1)
HEALTH SCIENCES
Advanced strokes will be covered with special attention given to endurance and form.
Prerequisite: PE 106 with a "D" or higher.

PE 110 Tai Ji Quan (Tai Chi) (1)
HEALTH SCIENCES
Tai ji quan (tai chi) is an ancient Chinese form of exercise which provides numerous health benefits: greater flexibility, core strength, balance, focus and concentration, relaxation, and improved immunity.

PE 111 Jogging, Walking (1)
HEALTH SCIENCES
This course is designed to provide students of all ages and backgrounds the opportunity to improve her/his cardiovascular fitness level through walking and/or jogging activities. This class utilizes the outdoor trail.

PE 112 Weight Training (1)
HEALTH SCIENCES
This course addresses use of resistance weight equipment using proper body mechanics. Emphasizes strength training.

PE 113 Strength and Cardio Training (1-2)
HEALTH SCIENCES
This course combines the benefits of cardiovascular or aerobic training with the benefits of weight training.

PE 114 Olympic and Powerlifting (1)
HEALTH SCIENCES
This course introduces and breaks down Olympic and power lifts.

PE 115 Cross Training (2)
HEALTH SCIENCES
Students will perform and study a variety of exercise applications such as: weight training, aerobic dance, bench, etc., to increase and pursue their personal fitness and life-long wellness skills.

PE 117 Core Basics (1)
HEALTH SCIENCES
This class is designed for all fitness levels. Students will be able to design their own Swiss ball and core program at the end of the quarter. This is a hands-on class with an emphasis on strengthening the core and education on injury prevention.

PE 122 Basketball (1)
HEALTH SCIENCES
Competitive coeducational basketball. Rules, regulations and theory of team play will be emphasized.

PE 125 Introduction to Hiking and Backpacking (1)
HEALTH SCIENCES
This course will include lectures, videos, and field work to teach basic hiking and backpacking skills. These skills are easy and fun to learn; you need only to be in good health and reasonably fit.

PE 129 Volleyball (1)
HEALTH SCIENCES
Basic skills will be introduced and reviewed. Coeducational, recreational team play rules, regulations, and theory of team play will be emphasized.

PE 131 Beginning Bowling (1)
HEALTH SCIENCES
Basic and essential bowling skills are taught and practiced. Bowling fee is required by the student. Rules, regulations and theory of team play will be emphasized.

PE 132 Disc Golf (1)
HEALTH SCIENCES
Techniques for throwing discs; equipment, knowledge, etiquette, and rules associated with playing a disc golf course; experience playing practice and official disc golf courses.

PE 133 Golf (1)
HEALTH SCIENCES
Learn basic techniques, skills and rules of the game.

PE 134 Self-Defense and Martial Arts (1)
HEALTH SCIENCES
Learn the basic skills for defending yourself from a grab, punch, choke, weapons and ground attack.

PE 135 Beginning Karate (1)
HEALTH SCIENCES
Learn basic Japanese karate stances, blocks, strikes, and kicks and their applications in varying combinations, individually and with partners. Practice of karate helps students improve or maintain physical strength, endurance, and flexibility. Emphasis is on proper form and safety.

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PE 136 Intermediate Karate (1)
HEALTH SCIENCES
Continued improvement of basic Japanese karate stances, blocks, strikes, and kicks and their applications in varying combinations, individually and with partners. Emphasis is on proper form and safety, increased flexibility, fluid movement, and increased strength.
Prerequisite: PE 135 with a "D" or higher.

PE 137 Advanced Karate (2)
HEALTH SCIENCES
Detailed and specific refinement and mental approach to art.
Prerequisite: colored belt in GoJuRyu.

PE 138 Cardio Kickboxing (1)
HEALTH SCIENCES
A continuous cardiovascular program that incorporates basic and intermediate kicks and punches of kickboxing. This class will include shadow boxing and partner drills with some contact using pads. Some basic self-defense maneuvers will also be taught.

PE 139 Advanced Cardio Kickboxing (1)
HEALTH SCIENCES
A continuous cardiovascular program that incorporates advanced punches, kicks, and self-defense moves.
Prerequisite: PE 138 with a "D" or higher.

PE 140 Step and Sculpt (1)
HEALTH SCIENCES
A cardiovascular program on a four inch to twelve inch platform which is performed to music. Aerobic section followed by resistance training.

PE 142 Line Dance (1)
HEALTH SCIENCES
Learn coordination, body awareness and fitness skills through dancing. Students will learn basic steps and a variety of line dance moves.

PE 143 Swing Dance (1)
HEALTH SCIENCES
Coordination, fitness, and communication skills through partner dancing. Students will learn basic steps and a variety of swing dance moves.

PE 144 Beginning Tennis (1)
HEALTH SCIENCES
Beginning tennis is designed for students who desire formal instruction in tennis and/or those who cannot perform the basic strokes well enough to enjoy a baseline game. The basic skills and techniques for singles and doubles will be presented with emphasis on the forehand drive, backhand drive, basic volley and serve.

PE 145 Intermediate Tennis (1)
HEALTH SCIENCES
This course is designed for students who have taken PE 144 or can perform the ground strokes and serve well enough to enjoy a baseline game. Intermediate tennis will review the basic strokes and learn more advanced techniques. Advanced net play will be covered. Much time will be spent in actual situations covering all aspects of tennis.

PE 146 Jazz Dance (1)
HEALTH SCIENCES
Basic and intermediate jazz dance including vocabulary, steps, body positions, general body coordination and fitness.

PE 147 Latin Dance (1)
HEALTH SCIENCES
Coordination, body awareness, fitness, and communication skills through partner dancing. Students will learn basic steps of different styles and variations of Latin dance.

PE 148 Pilates (1)
HEALTH SCIENCES
Pilates is a method of body conditioning that incorporates a system of stretching and strengthening exercises. Students will be expected to participate in a series of Pilates exercises each class session. Students will experience muscle tone, improved posture, and improved flexibility and balance creating a more streamlined shape.

PE 149 Fitness Through Yoga (1)
HEALTH SCIENCES
This course addresses the fitness aspect of Hatha yoga. Exercise techniques are presented to help the student improve his/her flexibility and strength. Relaxation and breathing techniques are used to teach stress management.

PE 150 Waltz Dance (1)
HEALTH SCIENCES
Coordination, fitness, and communication skills through partner dancing. Students will learn basic waltz steps and several styles and variations.

PE 151 Healthy Movement in Retirement Years (1)
HEALTH SCIENCES
This class will focus on cardiovascular health, flexibility, balance, muscular strength and increasing overall functional mobility in the retirement years. All ages are welcome.

PE 156 Sailing (2)
HEALTH SCIENCES
Lecture and practical demonstration to introduce students to sailing. Theory, techniques, rules and safety procedures of sailboat handling will be emphasized.

PE 159 Advanced Yoga (1)
HEALTH SCIENCES
This course addresses the fitness aspect of Hatha Yoga, and is designed for individuals that have had some type of yoga training. Poses and techniques are taught to help with strength, endurance, posture, stress and breathing

PE 160 Physical Fitness (1)
HEALTH SCIENCES
An individual and personalized exercise program developed with the instructor and performed at the student's scheduled time.

PE 161 Fire Fighter Fitness and Wellness (2)
HEALTH SCIENCES
This course is designed to meet the needs of the students preparing themselves for a job in the fire department. Twice a week the students will be in an active setting, preparing them to meet the job performance testing requirements. One hour a week this course addresses issue of physiological and psychological well-being. Topics to be discussed include nutrition principals, fitness parameters and stress management. Techniques are presented to help the students incorporate a total health and fitness program into their lifestyle. Course fulfills PE 100 requirement.
Prerequisite: Students must be enrolled in the Fire Protection Tech program.

PE 162 Criminal Justice Physical Fitness (1)
HEALTH SCIENCES
This course is designed to prepare the students for the testing requirements for the police department. Strength training, flexibility, cardiovascular endurance and agility training are all incorporated in the class. The students must be enrolled in the CJ program.

PE 164 Pilates and Yoga Fusion (1)
HEALTH SCIENCES
This class incorporates yoga and Pilates moves with an emphasis on strengthening your core. Students will learn how to stretch and

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strengthen all major muscles using poses from different styles of yoga and Pilates. This class is appropriate for all levels of fitness.

PE 167 Introduction to Kayaking (2)
HEALTH SCIENCES
This course will use lectures, videos, and hands-on training in a pool, lake, or bay to safely teach basic kayak handling skills. These skills are easy and fun to learn; you will need only to be in good health and be able to swim.

PE 169 Canoeing (1)
HEALTH SCIENCES
Basics of safe and effective canoe use.

PE 170 Paddling (1)
HEALTH SCIENCES
Basics of safe and effective paddling. This course will leave you feeling very comfortable paddling in a team sport environment. Maneuvering, safety considerations, and tides will be covered. Development of specific knowledge about the Dragon Boat sport in the areas of terminology, history, basic strategies, and other concepts relevant to the sport. No prior knowledge or experience necessary.

PE 180 Pickleball (1)
HEALTH SCIENCES
Pickleball is designed for students to receive instruction on the basic strokes, rules, terminology and strategy for the sport of pickleball. Sports performance will be achieved through active singles and doubles play.

PE 190 Weight Control Movement (1)
HEALTH SCIENCES
This course practices various forms of activity focusing on lifelong weight management. Physical movement programs are developed and performed based on individual student's ability and weight loss goals.

PE 200 First Aid, Safety, and CPR (2)
HEALTH SCIENCES
Basic First Aid, safety regulations and CPR. First Aid cards will be issued upon completion and are valid for two years.

PE 204 Cardiopulmonary Resuscitation (0)
HEALTH SCIENCES
A 5.5 hour course covering basic standards and function of the cardiopulmonary system, prevention of heart disease, recognition of heart attack, demonstration and practice of cardiopulmonary resuscitation, mouth-to-mouth and mouth to mask breathing, and AED use. Also covered is management of foreign body obstruction of the airway.

PE 205 Basic First Aid (1)
HEALTH SCIENCES
Meets the first aid requirements of the Department of Labor and Industries.

PE 208 Water Safety Instructor (2)
HEALTH SCIENCES
Course is designed to train the student to teach American Red Cross Swimming and Water Safety courses.

PE 234 Athletic Conditioning (1)
HEALTH SCIENCES
SVC Athletes will be instructed in best practice conditioning exercises for their particular sport.
Prerequisite: Instructor Permission.

PE 235 Athletic Techniques (1)
HEALTH SCIENCES
SVC Athletes will be instructed in sport-specific techniques.
Prerequisite: Instructor Permission.

PE 261 Advanced Firefighter Fitness (1)
HEALTH SCIENCES
An individualized exercise program including periodic health screenings and job related fitness assessments. Course designed to prepare students to meet physical job performance testing requirements for the fire department.
Prerequisite: PE 161 with a "D" or higher.

PE 299 Learning into Action (2)
HEALTH SCIENCES
Student develops and completes curriculum-related independent project which demonstrates skills and abilities and explores career options. May include, but is not limited to, service learning, original research, and travel abroad. Faculty sponsor approval required. Students with 45 transferable college credits are eligible to begin Learning into Action.

PHIL& 101 Introduction to Philosophy (5)
HUMANITIES
A study of the fundamental questions of philosophy, including human nature, ethics, justice, political theory, and the nature of knowledge.
Prerequisite: ENGL 099 with a "C" or higher (or placement into ENGL& 101).

PHIL& 106 Introduction to Logic (5)
HUMANITIES
Introduces the study of reasoning, including the ability to recognize, analyze, criticize and construct the main types of argument and proof.
Prerequisite: ENGL 099 with a "C" or higher (or placement into ENGL& 101).

PHIL 115 Introduction to Learning and Knowing (5)
HUMANITIES
An integrated course in which we examine how we acquire knowledge through the disciplinary perspectives of both philosophy and psychology.
Prerequisite: ENGL& 101 with a "C" or higher.

PHIL 120 Formal Logic (5)
HUMANITIES
A rigorous course in the calculus of sentence relations and predications.
Prerequisite: ENGL& 101 with a "C" or higher.

PHIL 140 Philosophy of Religion (5)
HUMANITIES
Philosophical exploration of the nature of religion, the nature of the ultimate (God), and the meaning of religious concepts (faith, revelation, religious experience, immortality).
Prerequisite: ENGL& 101 with a "C" or higher.

PHIL 215 Introduction to Ethics (5)
HUMANITIES
Develops the ideas of humans as moral agents and critically considers various interpretations of the ideals and standards of moral conduct.
Prerequisite: ENGL& 101 with a "C" or higher.

PHIL 291 Ethics and Policy in Healthcare (5)
HUMANITIES
Policy and Ethics in Healthcare is a required course for the Nursing Department Direct Transfer Agreement. The foundational principles of ethics and the health care policy environments are covered specific to the profession of nursing and health care. Explores the legal and ethical implications of the nursing process as applied to personal, client and organizational beliefs and values, utilizing the Jonsen, Siegler and Winslade (2010) Model for practice application. Focus is on understanding of policies, ethics, and legal issues related to overall practice in healthcare professions. Includes local, state, national, and global perspectives of healthcare policy, ethics and law. Includes a focus on emerging issues and uses of technology to plan for the future.
Prerequisite: NURS 281, 282 with a grade 2.7 (B-) or higher and concurrent enrollment in NURS 291, 292.

PHIL 294 Ethics and Policy in Healthcare (part 1) (2.5)
HUMANITIES
Policy and Ethics in Healthcare is a required course for the Nursing Department Direct Transfer Agreement. The foundational principles of

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ethics and the health care policy environments are covered specific to the profession of nursing and health care. Explores the legal and ethical implications of the nursing process as applied to personal, client and organizational beliefs and values, utilizing the Jonsen, Siegler and Winslade (2010) Model for practice application. Focus is on understanding of policies, ethics, and legal issues related to overall practice in healthcare professions. Includes local, state, national, and global perspectives of healthcare policy, ethics and law. Includes a focus on emerging issues and uses of technology to plan for the future. (Part 1 of two-part course.)

Prerequisite: NURS 287, 288 with a grade 2.7 (B-) or higher and concurrent enrollment in PHIL 297.

PHIL 295 Philosophy Integrative Experience Seminar (2)
HUMANITIES

An Integrative Experience emphasizing an interdisciplinary approach to current issues in philosophy, including the societal context of philosophy and technology, and/or the ethical, political, and cultural aspects of philosophy.

Prerequisite: None

PHIL 297 Ethics and Policy in Healthcare (Part 2) (2.5)
HUMANITIES

Policy and Ethics in Healthcare is a required course for the Nursing Department Direct Transfer Agreement. The foundational principles of ethics and the health care policy environments are covered specific to the profession of nursing and health care. Explores the legal and ethical implications of the nursing process as applied to personal, client and organizational beliefs and values, utilizing the Jonsen, Siegler and Winslade (2010) Model for practice application. Focus is on understanding of policies, ethics, and legal issues related to overall practice in healthcare professions. Includes local, state, national, and global perspectives of healthcare policy, ethics and law. Includes a focus on emerging issues and uses of technology to plan for the future. (Part 2 of two-part course.)

Prerequisite: NURS 287, 288 with a grade 2.7 (B-) or higher and concurrent enrollment in PHIL 294.

PHIL 299 Learning into Action (1-15)
HUMANITIES

Student develops and completes curriculum-related independent project which demonstrates skills and abilities and explores career options. May include, but is not limited to, service learning, original research, and travel abroad. Faculty sponsor approval required. Students with 45 transferable college credits are eligible to begin Learning into Action.

Prerequisite: None

PHIL 430 Ethics and Law in Information Technology (IT) (5)
HUMANITIES

Explore legal and ethical concepts in the information technology field. Includes data privacy, explores handling and storing data, licensing, third party requirements, anonymize, Open Source, copyright, intellectual property rights, hacking and fraud. Study the difference between laws and ethics and examine ethical issues encountered in IT to arrive at appropriate ethical choices.

Prerequisite: BASAD Dept. Chair permission.

PHIL 440 Ethics and the Manager (5)
HUMANITIES

Examine how personal ethical outlooks are shaped by life experiences and how bias may impact ethical philosophies or approaches to ethical and moral issues. Explore the use of ethical theories in management decision making. Analyze the ways in which managers navigate the inherent tensions between organizational objectives, legal obligations, ethical behavior, and social responsibility.

Prerequisite: BASM Dept. Chair permission.

PHIL 446 Ethics and the Healthcare Manager (5)
HUMANITIES

Examine the role of ethics and social responsibility in the healthcare environment. Theoretical concepts in healthcare ethics will be applied to real-world situations based on challenges managers face. Emphasis on personal outlooks, contemporary trends, and responsibilities with respect to ethical, legal, economic, regulatory conditions, and the needs of stakeholders in healthcare. Case studies/simulations will be used to explore real-world ethical and social responsibility dilemmas.

Prerequisite: BASM Dept. Chair permission.

PHYS& 100 Physics Non-Sci Majors (5)
NATURAL SCIENCES

A survey of the major ideas of physics for non-science majors including classical and modern topics.

Prerequisite: ENGL 099 with a grade of "C" or higher (or placement into college-level English); and either placement into OR co-enrollment in OR completion of a college-level Math course with a grade of "C" or higher.

PHYS 111 Matter and Energy in Physics (5)
NATURAL SCIENCES

An inquiry-based survey of physics and chemistry designed to give a basic understanding of the relationship between mechanical, thermal and electromagnetic forces and energy. What is energy and what forms does it take? How is energy fundamental in explaining the dynamics of the earth and the universe? Lab included. This course is part of science sequence recommended for students pursuing a career in elementary education, but is open to all students. The suggested sequence is PHYS 111, BIOL 111, EASC 111.

Prerequisite: ENGL 099 with a grade of "C" or higher (or placement into college-level English); and either placement into OR co-enrollment in OR completion of a college-level Math course with a grade of "C" or higher.

PHYS& 124 General Physics Lab I (1)
NATURAL SCIENCES

Physics lab to accompany PHYS& 134. Topics include kinematics, forces, energy, momentum and rotational motion.

Prerequisite: Concurrent enrollment in PHYS& 134.

PHYS& 125 General Physics Lab II (1)
NATURAL SCIENCES

Physics lab to accompany PHYS& 135. Topics include fluids, heat, waves, sound and optics.

Prerequisite: Concurrent enrollment in PHYS& 135.

PHYS& 126 General Physics Lab III (1)
NATURAL SCIENCES

Effectively interpret and communicate experimental results.

Prerequisite: Concurrent enrollment in PHYS& 136.

PHYS& 134 General Physics I (5)
NATURAL SCIENCES

Algebra-based physics course. The subject matter is mechanics with emphasis on Newton's laws, energy, momentum, and rotational motion.

Prerequisite: MATH 099 with a grade of "C" or higher; and ENGL 099 with a grade of "C" or higher (or placement into college-level English). Concurrent enrollment in PHYS& 124.

PHYS& 135 General Physics II (5)
NATURAL SCIENCES

Continuation of PHYS& 134 with emphasis on atomic theory of gases, heat, waves, sound and geometric optics.

Prerequisite: ENGL& 101 with a grade of "C" or higher; and either MATH 099 with a grade of "C" or higher (or placement into MATH& 141). Concurrent enrollment in PHYS& 125.

PHYS& 136 General Physics III (5)
NATURAL SCIENCES

A continuation of PHYS& 135 with emphasis on electricity, magnetism, and the electromagnetic spectrum.

Prerequisite: ENGL& 101 with a grade of "C" or higher (or concurrent enrollment); and either MATH 099 with a grade of "C" or higher (or placement into MATH&141). Concurrent enrollment in PHYS& 126.

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PHYS 199 Cooperative Education (1-15)
NATURAL SCIENCES
Supervised work experience in the field. Includes a weekly seminar. Instructor permission required.
Prerequisite: None

PHYS& 231 Engineering Phys Lab I (1)
NATURAL SCIENCES
Physics lab to accompany PHYS& 241. Topics include kinematics, forces, energy, momentum, and rotational motion.
Prerequisite: Concurrent enrollment in PHYS& 241

PHYS& 232 Engineering Phys Lab II (1)
NATURAL SCIENCES
Physics lab to accompany PHYS& 242. Topics include fluids, heat, waves, sound and optics.
Prerequisite: Concurrent enrollment in PHYS& 242.

PHYS& 233 Engineering Phys Lab III (1)
NATURAL SCIENCES
Physics lab to accompany PHYS& 243. Topics include electricity (including DC and AC circuits) and magnetism.
Prerequisite: Concurrent enrollment in PHYS& 243.

PHYS& 241 Engineering Physics I (5)
NATURAL SCIENCES
Calculus-based course in introductory mechanics emphasizing the statics, kinematics, and dynamics of particles and systems of particles.
Prerequisite: ENGL 099 with a grade of "C" or higher (or placement into college-level English); and MATH& 151 with a grade of "C" or higher (or concurrent enrollment). Concurrent enrollment in PHYS& 231.

PHYS& 242 Engineering Physics II (5)
NATURAL SCIENCES
Continuation of PHYS& 241 extending the concepts of mechanics into the study of fluids and waves, heat and thermodynamics. Geometric and wave optics are also studied.
Prerequisite: ENGL& 101; PHYS& 241; and MATH& 152; all courses with a grade of "C" or higher (or concurrent enrollment). Concurrent enrollment in PHYS& 232.

PHYS& 243 Engineering Physics III (5)
NATURAL SCIENCES
Continuation of PHYS& 242 with emphasis on electricity, magnetism, and the electromagnetic spectrum.
Prerequisite: Both ENGL& 101 and MATH& 152 with a grade of "C" or higher (or concurrent enrollment); and PHYS& 241 with a grade of "C" or higher. Concurrent enrollment in PHYS& 233.

PHYS 295 Physics Integrative Experience Seminar (2)
NATURAL SCIENCES
An Integrative Experience emphasizing an interdisciplinary approach to current issues in physics, including the societal context of physics and technology, and/or the ethical, political, and cultural aspects of physics.
Prerequisite: None

PHYS 299 Learning into Action (1-15)
NATURAL SCIENCES
Student develops and completes curriculum-related independent project which demonstrates skills and abilities and explores career options. May include, but is not limited to, service learning, original research, and travel abroad. Faculty sponsor approval required. Students with 45 transferable college credits are eligible to begin Learning into Action.
Prerequisite: None

POLS& 101 Introduction to Political Science (5)
SOCIAL SCIENCES
Introduces theories, concepts, and methods appropriate to understanding how conflicts among people are resolved. Emphasizes political analysis, including comparative study of political behavior and institutions.
Prerequisite: ENGL 099 with a "C" or higher (or placement into ENGL& 101).

POLS 131 Seminar in Educ Government I (1)
SOCIAL SCIENCES
For students who are active members of the Associated Students of Skagit Valley College.
Prerequisite: None

POLS 132 Seminar in Educ Government II (1)
SOCIAL SCIENCES
Continuation of POLS 131.
Prerequisite: None

POLS 200 Introduction to Law (5)
SOCIAL SCIENCES
Introduction to the origins, development, structure, institutions and processes of the U.S. legal system. Topics include law as a system of social thought and behavior; law as a framework for the resolution of conflicting claims; legal reasoning; law as a process for protecting and facilitating voluntary interactions and fundamental rights in a business society; legal terminology, civil and criminal procedures, legal rights and remedies, torts, contracts, criminal law, and property. Required for all business students transferring to the UW School of Business; recommended for any student interested in a career in law, law enforcement or related.
Prerequisite: ENGL 099 with a "C" or higher (or placement into ENGL& 101).

POLS 201 Comparative Government: D (5)
SOCIAL SCIENCES
A study of the structure and functioning of foreign political systems, including constitutional development, political parties, elections and bureaucracies. Parliamentary governments of Europe, the presidential governments of the Western Hemisphere and emerging governments of Eastern Europe will be used as models.
Prerequisite: ENGL 099 with a "C" or higher (or placement into ENGL& 101).

POLS& 202 American Government: D (5)
SOCIAL SCIENCES
A study of the structure of power in the United States and the functions, sources, and uses of power in American Politics. Also emphasizes mechanisms and outcomes of the policy making process in a pluralistic society.
Prerequisite: ENGL 099 with a "C" or higher (or placement into ENGL& 101).

POLS& 203 International Relations: D (5)
SOCIAL SCIENCES
A study of the basic concepts involved in the interrelationships of nations including nationalism, balance of power, international law, the causes of war, and the striving for peace.
Prerequisite: ENGL 099 with a "C" or higher (or placement into ENGL& 101).

POLS 204 State and Local Government (5)
SOCIAL SCIENCES
Governmental forms used in our states and various units of local governments - counties, cities, etc. Focuses on local political institutions and the relationship of citizens to them.
Prerequisite: ENGL 099 with a "C" or higher (or placement into ENGL& 101).

POLS 295 Political Science Integrative Experience Seminar (2)
SOCIAL SCIENCES
An Integrative Experience emphasizing an interdisciplinary approach to current issues in political science, including the societal context of political science and technology, and/or the ethical, political, and cultural aspects of political science.
Prerequisite: None.

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POLS 299 Learning into Action (1-15)
SOCIAL SCIENCES
Student develops and completes curriculum-related independent project which demonstrates skills and abilities and explores career options. May include, but is not limited to, service learning, original research, and travel abroad. Faculty sponsor approval required. Students with 45 transferable college credits are eligible to begin Learning into Action.
Prerequisite: None

PRLEA 241 Park Ranger Law Enforcement Academy (PRLEA) Module 1 (6)
PUBLIC SERVICE AND SOCIAL SCIENCE
Introduction and orientation to the Park Ranger Academy. Covers decorum, uniform, esprit de corps, professional conduct and ethical behavior. Includes NIMS Incident Command Systems module self-study, and units covering harassment, bias policing, leadership, human relations, and baseline physical fitness assessment.
Prerequisite: Extensive background and criminal history check/drug analysis and Dept Chair/Committee Approval.

PRLEA 242 Park Ranger Law Enforcement Academy (PRLEA) Module 2 (6)
PUBLIC SERVICE AND SOCIAL SCIENCE
Discusses the history, mission, philosophy, goals and objectives of National Park Service/Washington State Parks law enforcement and protection. Incorporates policies, procedures and protocols, Director's Orders RM-9, Tactical Communications, interviewing and interrogation techniques, conflict management, managing abnormal behaviors, description and identification, victim/witness awareness, special needs groups, and use of force principles and guidelines.
Prerequisite: Extensive background and criminal history check/drug analysis and Dept Chair/Committee Approval.

PRLEA 243 Park Ranger Law Enforcement Academy (PRLEA) Module 3 (6)
PUBLIC SERVICE AND SOCIAL SCIENCE
Introduction to legal principles, criminal and Constitutional laws, arrest/search/seizure/rules of evidence, and mechanics of arrest. Emphasizes civil and criminal liability, individual rights, and natural and cultural resources law and protection. Focuses on courtroom testimony and demeanor and case preparation.
Prerequisite: Extensive background and criminal history check/drug analysis and Dept Chair/Committee Approval.

PRLEA 244 Park Ranger Law Enforcement Academy (PRLEA) Module 4 (6)
PUBLIC SERVICE AND SOCIAL SCIENCE
Introduction to skills-based defensive tactics, firearms, chemical agents, Taser and emergency vehicle operations course. Covers nomenclature, theories, associated case law, techniques, and practical skills application in the field.
Prerequisite: Extensive background and criminal history check/drug analysis and Dept Chair/Committee Approval.

PRLEA 245 Park Ranger Law Enforcement Academy (PRLEA) Module 5 (6)
PUBLIC SERVICE AND SOCIAL SCIENCE
Study and application of patrol skills and procedures, investigative techniques, criminalistics, crime scene management, and death investigation. Also covers bombs and explosives ordnance, gangs, domestic violence response, juvenile handling and procedures, environmental crimes awareness, Amber alert development and response, physical security and crime prevention.
Prerequisite: Extensive background and criminal history check/drug analysis and Dept Chair/Committee Approval.

PSYC& 100 General Psychology (5)
SOCIAL SCIENCES
An overview of the factors affecting behavior including topics related to: theories of learning, the senses, perception, nervous system, emotions, personality theory, motivation, abnormal behavior and therapy, and social psychology.
Prerequisite: ENGL 099 with a "C" or higher (or placement into ENGL& 101).

PSYC 115 Knowing and Learning (5)
SOCIAL SCIENCES
An exploration through the disciplinary lenses of philosophy and psychology of how we acquire knowledge of the world around us, including an examination of the factors that help or hinder us as we try to learn new things.
Prerequisite: ENGL& 101 with a "C" or higher.

PSYC& 180 Human Sexuality (5)
SOCIAL SCIENCES
The study of human sexuality including anatomy, physiology, intimate and sexual behavior, sexually transmitted diseases, pregnancy & childbirth, birth control, love and relationships, sexual orientations, prostitution, pornography, sex and violence, sexual variations, legal and social issues. Students will examine these issues within cultural and subcultural contexts, and will look at the influences of media and technology.
Prerequisite: ENGL 099 with a "C" or higher (or placement into ENGL& 101).

PSYC& 200 Lifespan Psychology (5)
SOCIAL SCIENCES
A systematic study of the developmental processes in humans from conception to late adulthood. Special emphasis will be given to the topics of physical development, cognitive development, and personality/social development.
Prerequisite: ENGL& 101 and PSYC& 100 with a "C" or higher.

PSYC 202 Biopsychology (5)
SOCIAL SCIENCES
This course introduces students to the connection between brain activity and thought, behavior, and emotion and uses neuroanatomy, neurophysicology, and neurochemistry as a basis for understanding learning, memory, sex, sleep, addition, language, emotions, and psychological disorders.
Prerequisite: PSYC& 100 with a "C" or higher.

PSYC 205 Social Psychology (5)
SOCIAL SCIENCES
A study of the social aspects of life including theories of: aggression, social influence, attitude change, affiliation, group behavior, prejudice, norms, and prosocial behavior.
Prerequisite: PSYC& 100 with a "C" or higher.

PSYC 210 Learning and Teaching (5)
SOCIAL SCIENCES
A study of the major theories of learning and motivation especially as they relate to humans in an educational setting. The course emphasizes the role of the teacher as a thoughtful and knowledgeable facilitator of learning.
Prerequisite: PSYC& 100 with a "C" or higher.

PSYC& 220 Abnormal Psychology (5)
SOCIAL SCIENCES
Descriptions, symptoms, treatments, theoretical explanations and cultural views of abnormal behavior and the psychological disorders based on the Diagnostic and Statistical Manual of the American Psychiatric Association.
Prerequisite: ENGL& 101 and PSYC& 100 with a "C" or higher.

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PSYC 225 Personality (5)
SOCIAL SCIENCES
A study of the theoretical approaches to understanding personality with research presented for evaluating various theories. Exposure to personality assessment techniques and their use.
Prerequisite: PSYC& 100 with a "C" or higher.

PSYC 295 Psychology Integrative Experience Seminar (2)
SOCIAL SCIENCES
An Integrative Experience emphasizing an interdisciplinary approach to current issues in psychology, including the societal context of psychology and technology, and/or the ethical, political, and cultural aspects of psychology.
Prerequisite: PSYC& 100 with a "C" or higher.

PSYC 299 Learning Into Action (1-15)
SOCIAL SCIENCES
Student develops and completes curriculum-related independent project which demonstrates skills and abilities and explores career options. May include, but is not limited to, service learning, original research, and travel abroad. Faculty sponsor approval required. Students with 45 transferable college credits are eligible to begin Learning into Action.
Prerequisite: PSYC& 100 with a "C" or higher.

PSYC 412 Leadership and Organizational Behavior (5)
SOCIAL SCIENCES
Examine the characteristics of successful leaders in contemporary workplaces. Analyze how leaders develop their managerial skills and organizational acumen and how such leaders create high performing workplaces. Investigate how successful managers address the impact of bias in the workplace, their own, and that of those around them.
Prerequisite: BASM Dept. Chair permission.

QSCI 318 Quantitative Analysis of the Environment (5)
NATURAL SCIENCES
Applications to environmental and natural resource problems stressing the formulation and interpretation of statistical tests. Course includes random variables, expectations, variance, binomial, hypergeometric, Poisson, normal, chi-square, t and F distributions. ANOVA, and regression analysis included.
Prerequisite: MATH& 141 with a grade of "C" or higher; and admission to BASEC or department chair permission.

QSCI 408 Biometry and Ecological Sampling (5)
NATURAL SCIENCES
Statistical inquiry of biological data. Experimental design and data analysis. Encouraging students to think critically and quantitatively about how data are collected, analyzed, and interpreted.
Prerequisite: Admission to BASEC or Department Chair permission.

READ 090 Phonics (2)
HUMANITIES
Sounds of letters and letter combinations applied to reading and spelling syllables and words.
Prerequisite: None

READ 096 Reading Foundations (1-5)
HUMANITIES
Instruction and practice in developing basic reading through phonics, vocabulary, and comprehension skills. Course includes individual tutorial and computer-aided instruction. (No computer experience required.)
Prerequisite: None

READ 097 Reading Improvement (1-5)
HUMANITIES
Strengthening of reading skills through comprehension and vocabulary strategies. Course activities include classroom, group process, and occasional computer-aided instruction, with practical applications. (No computer experience necessary.)
Prerequisite: None

READ 105 College Vocabulary Skills (3)
HUMANITIESY
Emphasizes vocabulary-building through advanced use of context clues, roots/affixes, and memory strategies.
Prerequisite: None

READ 107 Effective College Reading (1-3)
HUMANITIESY
For average and better readers to develop strategies to improve comprehension and retention, critical analysis, vocabulary, and reading rate flexibility.
Prerequisite: None

SOC& 101 Introduction to Sociology: D (5)
SOCIAL SCIENCES
An overview of the social structure and the processes of social interaction which contribute to the formation and understanding of human conduct. Includes a survey of basic sociological perspectives and theories, institutions, socialization patterns, stratification, minorities in society, social problems, human environments, social control, and social change processes.
Prerequisite: ENGL& 101 with a "C" or higher.

SOC 110 Gender and Power: Introduction to Gender Studies (5)
SOCIAL SCIENCES
Examines gender as a social construction, how it manifests intersectionally at individual, community, institutional, and national/global levels, and how it is used to maintain and/or resist inequitable systems of power, privilege, and oppression.
Prerequisite: ENGL 099 with a grade of C or higher OR placement into ENGL& 101.

SOC 112 Comparative Ethnic Relations (5)
SOCIAL SCIENCES
An introductory survey of sociological aspects of minority group situations and relations to the larger society. Provides an in-depth survey of the principal trends in life experiences and histories of the major ethnic communities with emphasis being placed on social economic conditions, political activities, legal positions, and ethnic subcultures of minority groups in the U.S.
Prerequisite: ENGL& 101 with a "C" or higher.

SOC 113 Sociology of Community Service (5)
SOCIAL SCIENCES
Introduction to the service learning model as a basis for contributing to community support. Provides student experience in educational outreach and development of strategies for initiating change in the community.
Prerequisite: None

SOC 160 Substance Use and Abuse (5)
SOCIAL SCIENCES
Comprehensive look at drugs, society, and human behavior. The course will examine the various types of drugs (legal and illegal) and their effects on society and the individual.
Prerequisite: None

SOC 191 Psychosocial Issues in Healthcare (5)
SOCIAL SCIENCES
Explores aspects of psychosocial issues in healthcare. Explores societal, cultural and personal attitudes as they impact access to mental health and medical care. Examines healthcare disparities for individuals with mental illness. Explores legal, ethical and safety issues regarding rights of the individual and the community. Applies the nursing process to the care of individuals from wellness to acute and chronic mental illness. Includes substance abuse, disorders of anxiety, mood,

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bipolar, eating and thought along with related disorders across the lifespan. Identifies treatment approaches, including communication, collaboration and advocacy, by applying knowledge from psychology and related fields. Incorporates concepts of context and environment, knowledge and science, personal and professional development, quality and safety, relationship-centered care and teamwork.
Prerequisite: NURS 181, 182 with a grade 2.7 (B-) or higher and concurrent enrollment in NURS 191, 192.

SOC& 201 Social Problems (5)
SOCIAL SCIENCES
A survey of the major contemporary social problems including crime, violence, drug dependency, mental illness, racism, poverty, inequality, breakdowns in the family, education, and quality of life, and the impact of technology. A variety of sociological perspectives and social policies on social problems are reviewed as well as research methods used in analyzing current social problems.
Prerequisite: ENGL& 101 with a "C" or higher.

SOC 204 Introduction to Stratification and Inequality in America: D (5)
SOCIAL SCIENCES
Examines the causes and consequences of inequality and social stratification in the United States. The course materials will invite you to think critically about how systems of power and privilege operate with respect to race, gender, sexual orientation, class, disability and age, why valuable resources like income, wealth, health, education and wellbeing are unequally distributed in the United States, and how this inequality is produced and reproduced through the structure of opportunities, differential life chances and social mobility.
Prerequisite: ENGL& 101 with a "C" or higher.

SOC 206 Sociology of the Family: D (5)
SOCIAL SCIENCES
This course will study the nature of the family as a social, cultural, political, and economic institution. It will include perspectives on the changing structure of the family, socialization, sexual expressions, marital communication patterns, divorce patterns, employment, and family relationships, violence in the family, and family health related issues.
Prerequisite: ENGL& 101 with a "C" or higher.

SOC 295 Sociology Integrative Experience Seminar (2)
SOCIAL SCIENCES
An Integrative Experience emphasizing an interdisciplinary approach to current issues in sociology, including the societal context of sociology and technology, and/or the ethical, political, and cultural aspects of sociology.
Prerequisite: None

SOC 299 Learning Into Action (1-15)
SOCIAL SCIENCES
Student develops and completes curriculum-related independent project which demonstrates skills and abilities and explores career options. May include, but is not limited to, service learning, original research, and travel abroad. Faculty sponsor approval required. Students with 45 transferable college credits are eligible to begin Learning into Action.
Prerequisite: None

SOC 420 Social Capital and the Manager (5)
SOCIAL SCIENCES
Examine the social capital constructs that the manager is (implicitly) expected to navigate. Investigate the relationships between social capital and power and workplace equity initiatives. Also examine the ways in which bias impacts social capital and the role that technology plays in the development of social capital.
Prerequisite: BASM Dept. Chair permission.

SOSC 100 Global Issues/Social Science (5)
SOCIAL SCIENCES
Contemporary global issues such as population, food, energy, human rights, military arms and security, and environment.
Prerequisite: ENGL 099 with a "C" or higher (or placement into ENGL& 101).

SOSC 111 Adults in Transition (1-3)
SOCIAL SCIENCES
Assist individuals in developing self-confidence, exploring educational and career options, developing skills in time management, setting goals, making decisions, and becoming aware of resources.

SOSC 113 Job Search (1)
SOCIAL SCIENCES
Through lecture, small group discussion, and homework assignments, students will develop skills in job search techniques such as identifying common job information sources, conducting effective interviews for information and for hire, completing applications and developing resumes. Students will learn that job search is really an information search and involves the use of investigation, strategizing, and problem-solving skills. Due to the requirements and intended benefits of this course, it is strongly recommended that it be taken toward the end of ones certificate or degree program. Consult with your program advisor if your circumstances warrant taking it early in your training.

SOSC 120 Co-op Education Seminar (1)
SOCIAL SCIENCES
The Co-op Seminar is a required course for all students in field placements. The seminar will offer a forum for exchanging information about experiences, enhance problem solving skills, and further develop communication skills through small group discussions and oral reporting.

SOSC 125 Employer/Employee Roles and Perspectives (2)
SOCIAL SCIENCES
Examination of the employer/employee relationship. Topics include characteristics of work maturity, diversity, leadership, team work and working styles, organizational structure and decision-making, setting work goals and priorities.

SOSC 130 Leadership (2)
SOCIAL SCIENCES
This course is designed for students who are interested in student leadership and how they can expand their knowledge in the following areas of: leadership theories, communication skills, integrity and ethical values, and improve their leadership skills.

SOSC 131 College Governance (1)
SOCIAL SCIENCES
Learning about group dynamics while participating in the Associated Students of SVC governance process.
Prerequisite: open to Student Government participants only.

SOSC 132 Student Leadership Seminar (1-2)
SOCIAL SCIENCES
Designed to provide student leaders with the tools, techniques, processes, and skills for leadership that will help them succeed. Specific sections of this course may be offered to target groups such as multicultural students or women students.

SOSC 190 Social History of Work (1-3)
SOCIAL SCIENCES
This course traces the historical roots of work, working conditions and attitudes towards work, as well as the impact of all these on individuals, families and groups in society, including women, children and ethnic groups.
Prerequisite: ENGL 099 with a "C" or higher (or placement into ENGL& 101)

SOSC 299 Learning Into Action (1-15)
SOCIAL SCIENCES
Student develops and completes curriculum-related independent project which demonstrates skills and abilities and explores career options. May include, but is not limited to, service learning, original re-

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search, and travel abroad. Faculty sponsor approval required. Students with 45 transferable college credits are eligible to begin Learning into Action.

SPAN 111 Spanish for Health Care Professionals I (5)
HUMANITIES
A brief course in spoken Spanish for health care professionals. The primary emphasis will be on speaking and listening skills. Students will learn to converse and ask questions related to health care in the simple present tense and in the near future. They will also become acquainted with customs and cultural issues related to the Hispanic population and health care.
Prerequisite: None

SPAN 112 Spanish for Health Care Professionals II (5)
HUMANITIES
A brief course in spoken Spanish for health care professionals. The primary emphasis will be on speaking and listening skills. Students will learn to converse and ask questions related to health care in the past tense. They will also become acquainted with customs and cultural issues related to the Hispanic population and health care.
Prerequisite: SPAN 111 with a "D" or higher.

SPAN& 121 Spanish I: D (5)
HUMANITIES
A proficiency-based course in Spanish, which includes pronunciation, fundamentals of grammar, syntax, oral and written exercises, reading and conversation; taught with varied foreign language teaching methods. An appreciation for cultural aspects of Spanish speaking countries is emphasized. Oral practice is encouraged. For students who have not previously studied Spanish or for those who need a refresher course.
Prerequisite: Grade of 2.0 or higher in ENGL 097, or AESL 098, or appropriate test score.

SPAN& 122 Spanish II: D (5)
HUMANITIES
A continuation of Spanish 121. The vocabulary and grammatical structures are more complicated, and the student begins to master a past tense. Oral comprehension and speaking skills are emphasized through daily practice, as well as the reading and writing exercises. The textbook, workbook, and lab manuals are the same as in Spanish 121.
Prerequisite: SPAN& 121 with a "C" or higher or one year of High School Spanish with a "C" or higher.

SPAN& 123 Spanish III: D (5)
HUMANITIES
A continuation of Spanish 122. The grammar is more complicated, and more verb tenses are introduced. Oral comprehension and speaking skills are still emphasized through daily oral practice, as well as reading and writing exercises. The textbook, workbook, and lab manuals are the same as Spanish 121 and 122.
Prerequisite: SPAN& 122 with a "C" or higher or two years of High School Spanish with a "C" or higher.

SPAN& 221 Spanish IV: D (5)
HUMANITIES
A communication course in beginning intermediate Spanish. Increases proficiency through review and expansion of skills, grammar, and cultural foundation of the language. Emphasizes oral communication.
Prerequisite: SPAN& 123 with a "C" or higher or three years of high school Spanish with a "C" or higher.

SPAN& 222 Spanish V: D (5)
HUMANITIES
Continuation of Spanish 221 with emphasis on understanding and responding orally, sustaining a complex conversation, reading intermediate level Spanish, and constructing grammatically correct sentences.
Prerequisite: SPAN& 221 with a "C" or higher or instructor permission.

SPAN& 223 Spanish VI: D (5)
HUMANITIES
Continuation of Spanish 222 with emphasis on expanded vocabulary, continuing practice with all grammatical tenses and structures, continuing complexity of reading and conversation, and understanding of Spanish culture in general.
Prerequisite: SPAN& 222 with a "C" or higher or instructor permission.

SPAN 299 Learning Into Action (1-15)
HUMANITIES
Student develops and completes curriculum-related independent project which demonstrates skills and abilities and explores career options. May include, but is not limited to, service learning, original research, and travel abroad. Faculty sponsor approval required. Students with 45 transferable college credits are eligible to begin Learning into Action.
Prerequisite: None

TAGA 100 Introduction to Tagalog Language (3)
AREAS OF STUDY
Introduction to the Tagalog language with emphasis on speaking, listening and comprehension of the spoken word.
Prerequisite: None

TECD 103 Introduction to Computer-Aided Design (3)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION
Introduction to computer-aided design (CAD) and graphics technology. Covers the basic techniques and standard practices of two-dimensional CAD work and introduces students to the concepts of digital sketches, 2-D drawing and file management. Culminates with a display of the fundamentals of documentation and presentation for CAD.
Prerequisite: Strongly recommended - prior to entering this course, students should have mastered the following computer fundamentals: basic commands to operate software programs, directory structure, file management, and be able to use icons and keyboard Strongly recommended - prior to entering this course, students should have mastered the following computer fundamentals: basic commands to operate software programs, directory structure, file management, and be able to use icons and keyboard commands.

TECD 104 Basic Computer-Aided Design (3)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION
Continuation of TECD 103. Continue the study of computer-aided design (CAD) and graphics technology. Introduction to 3-D modeling practices and more advanced drafting principles. Topics include sketching, basic commands, sketch relations, features, dimensioning, and basic assembly modeling.
Prerequisite: TECD 103 with a "C-" or instructor permission. Strongly recommended - prior to entering this course, students should have mastered the following computer fundamentals: basic commands to operate software programs, directory structure, file management, and be able to use icons and keyboard commands.

TECD 105 Computer-Aided Design III (4)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION
This study of 3-D modeling practices includes assemblies and Geometric Dimensioning and Tolerances. Explores the more advanced CAD tools to improve workflow. Topics include materials, derived parts, part patterning, constraints and reference geometry.
Prerequisite: TECD 104 with a "C-" or instructor permission. Strongly recommended - prior to entering this course, students should have mastered the following computer fundamentals: basic commands to operate software programs, directory structure, file management, and be able to use icons and keyboard commands.

TECD 107 Computer-Aided Design IV (5)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION
Intermediate study of 3-D modeling tools. In depth look at documentation practices for 3-D modeling. Apply techniques and standard practices of technical graphics to communicate design ideas. Topics include drafting, section views, exploded view, rendering and animation basics.
Prerequisite: TECD 105 with a "C-" or instructor permission.

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TECD 220 Computer-Aided Design Studio (5)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION
Studio seminar utilizing skills gained in the TECD series. Apply CAD modeling and documentation skills to the design, development and presentation of products. Topics include functionality, material and manufacturing limitations, revisions and production concerns. Culminates with a prototype product being developed for chosen trade specialty.
Prerequisite: TECD 107 with a "C-" or instructor permission.

WMATH 100 Professional Technical Applied Math (5)
SCIENCE, TECHNOLOGY, ENGINEERING, AND MATH
This course is non-transferable and for professional/technical students only. Basic mathematics used in several occupational clusters. Estimation, effective calculator usage and practical problem solving techniques explored. Opportunities for variable student pacing may be provided.
Prerequisite: MATH 096 with a "C" or higher (or placement into MATH 097/WMATH 100).

WT 111 Introduction to Shielded Metal Arc Welding (5)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION
Basic Shielded Metal Arc Welding (SMAW) theory of operation and safety requirements. Covers SMAW electrode selection based on the AWS electrode classification system and includes an introduction to hands-on welding techniques in the shop setting.
Prerequisite: CSS 103 with a "D" or higher or concurrent enrollment.

WT 112 Introduction to Wirefeed Welding (5)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION
Basic Wirefeed Welding theory of operation and safety requirements. Covers Gas Metal Arc Welding (GMAW) and Flux Cored Arc Welding (FCAW) processes, shielding gas selection, and electrode selection based on the AWS electrode classification system. Safety procedures are also covered. Includes an introduction to hands-on welding techniques in the shop setting.
Prerequisite: WT 111, WT 114, and WT 211 with a "D" or higher.

WT 113 Introduction to Inert Gas and Aluminum Welding (5)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION
Basic inert gas welding theory of operation and safety requirements. Introduction to Gas Metal Arc Welding (GMAW) and Gas Tungsten Arc Welding (GTAW) processes and electrode selection based on the AWS electrode classification system. Includes an introduction to hands-on welding techniques in the shop setting.
Prerequisite: WT 111, WT 114, and WT 211 with a "D" or higher.

WT 114 Thermal Cutting Processes (3)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION
Introduction to the plasma arc and oxy-fuel cutting processes. Covers process safety and theory of operation. Course includes an introduction to hands-on thermal cutting techniques in the shop setting.
Prerequisite: CSS 103 with a "D" or higher or concurrent enrollment.

WT 116 Introduction to Welding Metallurgy (5)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION
Metallurgical theory as it applies to the welding of ferrous and nonferrous metals. Covers properties of metals, melting and solidification, phase changes, weld bead chemistry, and heat affected zones. Effects of alloying elements and heat treatments will be investigated along with welding-induced distortion and methods for distortion control.
Prerequisite: WT 112 and WT 221 with a "D" or higher. WMATH 100 with a "D" or higher or concurrent enrollment.

WT 117 Hand and Power Tools (3)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION
Introduction to the safe and proper use of hand and power tools commonly used in the welding and fabrication trades. Covers set-up, operation, trouble-shooting, and maintenance of saws, grinders, drill press, roller, sheet metal brake, and planer.
Prerequisite: WT 111, 114, and 211.

WT 118 Welding Joint Design and Welding Symbols (3)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION
Introduction to the five basic Weld Joint Designs. Focuses on selecting the most appropriate joint design for a welding job. Also focuses on recognizing, reading and understanding Welding Symbols which let the welder know exactly what is needed.
Prerequisite: WT 111, 114, and 211.

WT 131 Shielded Metal Arc Welding for Beginners (2)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION
Introduction to Shielded Metal Arc Welding (SMAW). Welding of structural steel plate in the flat position using E6010 and E7018 electrodes with emphasis on shop safety.
Prerequisite: None

WT 133 Oxy-Fuel Processes for Beginners (2)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION
Introduction to oxy-fuel cutting and welding. Welding of structural steel plate in the flat position with emphasis on shop safety. Also covers air-carbon arc gouging.
Prerequisite: None

WT 140 Print Reading for Welding (3)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION
Introduction to the fundamentals of blueprint reading emphasizing industrial drawings commonly used in Welding Technology. Review symbol conventions and visualization of solid objects from orthographic and isometric projections, the interpretation of technical drawings, and the skills required in print reading applying basic ASME standard techniques, as a form of communication. Students read, interpret and sketch drawings.
Prerequisite: WT 111 and WT 112 with a "D" or higher.

WT 199 Cooperative Education Experience (1-15)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION
Supervised work experience in the field. Includes a weekly seminar.
Prerequisite: Instructor permission required.

WT 200 Weld Skill Upgrading (1-16)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION
Skill upgrading in the areas of stick, wire, or tig welding. Course content to be arranged with instructor prior to registration.
Prerequisite: Department chair permission.

WT 211 Intermediate Shielded Metal Arc Welding (9)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION
Fillet welds on carbon steel using the SMAW process in the flat, horizontal, vertical and overhead positions. Introduction and/or review of shop safety, metal cutting, fitting, and gouging procedures.
Prerequisite: CSS 103 with a "D" or higher or concurrent enrollment.

WT 212 Intermediate Wirefeed Welding (9)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION
Fillet welds on carbon steel using the semi-automatic wirefeed FCAW and GMAW processes in the flat, horizontal, vertical and overhead positions. Introduction and/or review of shop safety, metal cutting, fitting, and gouging procedures.
Prerequisite: WT 112, WT 221 and MANF 140 with a "D" or higher.

WT 213 Intermediate Inert Gas and Aluminum Welding (9)
INDUSTRIAL TECHNOLOGY AND TRANSPORTATION
Fillet welds on aluminum and steel using GTAW and GMAW inert gas processes in the flat, horizontal, vertical and overhead positions. Introduction and/or review of shop safety, metal cutting, fitting, and gouging procedures.
Prerequisite: WT 212 with a "D" or higher.

8 Course Descriptions

WT 221 Shielded Metal Arc Welding Applications and Certification (9)

INDUSTRIAL TECHNOLOGY AND TRANSPORTATION

Shield Metal Arc Welding (SMAW) certification and application. Covers all-position groove welding and general fabrication using the SMAW process. Covers techniques for passing a standard AWS welder qualification test. Includes trade math, blueprint reading, and layout techniques.

Prerequisite: WT 111, WT 114, and WT 211 with a "D" or higher.

WT 222 Wirefeed Welding Applications and Certification (9)

INDUSTRIAL TECHNOLOGY AND TRANSPORTATION

All-position groove welding and general fabrication using wirefeed processes. Covers techniques for passing a standard AWS welder qualification test. Includes trade math, blueprint reading, and layout techniques.

Prerequisite: WT 221 with a "D" or higher.

WT 223 Inert Gas and Aluminum Welding Applications and Certification (9)

INDUSTRIAL TECHNOLOGY AND TRANSPORTATION

Gas Metal (GMAW)and Gas Tungsten Arc Welding (GTAW) certification and application. All-position groove welding and general fabrication of steel and aluminum using the GMAW and GTAW processes. Covers techniques for passing standard AWS welder qualification test. Includes trade math, blueprint reading, and layout techniques.

Prerequisite: WT 222 with a "D" or higher.

WT 231 Gas Metal Arc Welding for Beginners (2)

INDUSTRIAL TECHNOLOGY AND TRANSPORTATION

Introduction to gas metal arc (MIG) welding. Welding of structural steel plate in the flat position with emphasis on shop safety.

Prerequisite: None

WT 234 Welding Skill Building (2)

INDUSTRIAL TECHNOLOGY AND TRANSPORTATION

Skill upgrading in the areas of stick, wire, or tig welding for experienced welders. Course content to be arranged with instructor.

Prerequisite: None.

9 Student Life

Athletics

360.416.7765

SVC's intercollegiate athletic program provides students with the opportunity to participate in athletic competition. Students have the opportunity to enjoy the challenge of physical competition and to learn cooperation, self-awareness, and self-confidence.

SVC is a member of the Northwest Athletic Association for Community Colleges (NWAC) and is represented by men's teams in basketball, tennis, baseball, golf, and soccer, and by women's teams in basketball, soccer, tennis, softball, volleyball, and golf.

Athletic scholarships are available for all varsity sports under the guidelines of the NWAC. Check out the Athletics web page for more information.

Fine and Performing Arts

Student Programs offers you a variety of opportunities to become involved outside of the classroom. Participation in these activities is an important part of your life as a student here at SVC. SVC sponsors a variety of music, theater, and visual art events and productions. Frequent concerts, musicals, and recitals enrich campus life and give students performance experience. Guest artists also visit and perform regularly.

The Art Gallery is located in the Gary Knutzen Cardinal Center at SVC's Mount Vernon Campus. It is dedicated to the exhibition of contemporary work in all media by emerging and established artists. SVC's Art Gallery supports and promotes visual culture to enhance creativity and community dialogue by serving as a conduit for expression through the visual arts. An active play production program under the direction of the Drama department provides opportunities for students to participate in every phase of production, including acting, directing, and designing. The Phillip Tarro Theatre is a versatile 200-seat theater. Larger performances are held in McIntyre Hall, our 650-seat theatre equipped with the finest quality professional sound and lighting equipment.

Cardinal Bookstore

Mount Vernon: 360.416.7728
Whidbey Island: 360.679.5313

The Cardinal Bookstore has locations on both Mount Vernon and Whidbey Island campuses. Course materials for San Juan Center courses are available through either location.

The bookstore stocks a wide variety of items, including required and optional course textbooks and materials - both new and used - as well as course supplies, uniforms, SVC insignia items and school supplies. At the end of each quarter, the bookstore offers a textbook buy-back service. Contact the bookstore at the website below for more information.

The bookstore web site **www.cardinalbookstore.com** can be used to purchase textbooks as well as to look up textbook information and pricing. These services can also be accessed through the online registration process.

Both bookstore locations remain open in the evenings on selected days during the first week of the quarter.

Clubs and Organizations

Mount Vernon: 360.416.7611
Whidbey Island: 360.679.5303

Involvement in a student club or organization may be one of the most rewarding and educational experiences you have while attending SVC. Clubs and organizations provide meaningful and fun experiences that will build your resumé and enhance your leadership skills and your connections with other students, faculty, and staff. Student clubs and organizations provide an environment where students can build and cultivate friendships, find common interests, help the community, and engage in planning, organizing, and implementing programming initiatives.

All clubs and student organizations must function under the sanction of the Associated Students of SVC (ASSVC) and are chartered by the ASSVC. A current list of SVC's active clubs and student organizations is available on the Center for Student Leadership, Involvement, and Community canvas page. For more information, visit the Clubs and Programs page on the SVC website.

9 Student Life

Wellness Resource Center and Food Pantry

Mount Vernon: 360.416.7923
Whidbey Island: 360.679.5303

Student Life Office, C-190A, Knutzen Cardinal Center, Mount Vernon Campus; 116 Old Main, Whidbey Island Campus

Housed in the Wellness Resource Center (WRC), on the Mount Vernon Campus and in Student Life on the Whidbey Island Campus is a food pantry that provides for SVC students experiencing food insecurity. Students needing food for themselves and others they support financially can inquire about the option for a "food box" that they can pick up from the WRC.

The Washington Basic Food Program (Basic Food) helps low-income individuals and families have a more nutritious diet by adding Basic Food benefits to your household's income.

Basic Food is Washington's name for the Supplemental Nutrition Assistance Program (SNAP), which was formerly known as the Food Stamp Program. Basic Food benefits are federally funded through the United States Department of Agriculture, Food and Nutrition Service (FNS).

WAC 388.414.0001 Am I eligible for benefits through the Washington Basic Food Program?

See USDA Food and Nutrition Service website for a list of the tribes and their points of contact in Washington State that participate in the federal Food Distribution Program on Indian Reservations (FDPIR or "commodities"). Individuals receiving FDPIR commodities from these tribal organizations are ineligible to receive Basic Food.

The WRC can provide you with first-aid supplies, and a wide assortment of informational pamphlets and brochures. The office also offers programming, and co-sponsors a variety of events to heighten awareness of issues regarding health and well-being.

Insurance

Many low-cost student health insurance programs are available to you:

- Washington Health Benefit Exchange
- Federal Health Insurance Marketplace
- Washington Apple Health/Medicaid
- Private Marketplace, through insurance brokers

Additional Resources

- Washington State Coverage comparison tool
- Free in-person assisters and certified application counselors

SVC is dedicated to providing a drug- and alcohol-free environment for students, faculty, and staff. Referrals to the Counseling Center, Disability Access Services and community agencies or private providers are made for a variety of student health needs.

Additional Health Insurance information is available: Visit the Student Life website ('skagit.edu/campus-life/student-life/) or the Student Life Office.

Research and Assessment

The fundamental mission of the Institutional Research (IR) Office is to provide central information and analytical support for college planning, management, and assessment activities to help SVC fulfill its mission. In this capacity, IR assumes primary responsibility for analyzing and interpreting data about the performance of the college; analyzing and interpreting data about the environment of the college; transforming data into information that supports college planning, policy making, decision making, and assessment; and communicating institutional information to the college community.

The Office also conducts studies and gathers information for specific ad hoc analysis. Ad hoc information is prepared for institutional questionnaires, specialized accreditation reviews, and decision support.

USE THE FOLLOWING LINKS TO ACCESS OUR SURVEYS:

- **SVC Research and Surveys - Institutional Research: skagit.edu/about/institutional-research/**
- **Board of Trustees Assessments and Reports: skagit.edu/about/president-board-of-trustees/board-trustees-assessments-reports/**
- **Learning Outcomes Assessment - Institutional Research: skagit.edu/about/institutional-research/learning-outcomes-assessment/**

KSVR 91.7 FM /KSVU 90.1 FM Radio

360.416.7711

KSVR-91.7 FM and KSVU-90.1 FM are a combination of student- operated and community-operated, non-commercial, educational, community/campus radio stations. The mission for the stations is to provide informational public service to the community and opportunities for locally-produced programs of news and music. KSVR presents a diverse format, including English and Spanish languages. If you would like experience with radio as a career, public service, or recreational activity, contact any station representatives in Reeves Hall.

Recreation

360.416.7765

As an SVC student, you will have a variety of athletic events in which to participate and numerous opportunities to enjoy watching college games. The Dave DuVall Pavilion on the Mount Vernon Campus hosts intercollegiate basketball and volleyball, and is used for PE courses and many other activities. Soccer, baseball, and tennis are among the other sports in which SVC fields competitive teams. Facilities are also available for student recreational use, including covered tennis courts, a fitness center, playing fields, and running/walking trails.

On the Whidbey Island Campus, a fitness center is available to students. There is a modest quarterly fee to use the fitness centers at both Mount Vernon Campus and Whidbey Island Campus.

9 Student Life

Regional Culture

SVC is located in three counties of northwest Washington. Skagit County stretches from the high peaks of the Cascade mountain range to the edge of Puget Sound. Island and San Juan counties are comprised of islands surrounded by the beautiful waters of Puget Sound. The region has a strong farming tradition, including production of tulips for cut flowers and bulbs.

The Mount Vernon and Whidbey Island campuses are served by bus service, giving frequent transportation to neighboring towns and commercial centers.

One hour south is Seattle, a diverse, beautiful, and cosmopolitan city with a metropolitan area of 3.3 million people. It is often listed among the most desirable cities in America. Vancouver, B.C. is a 90-minute drive to the north. Its metropolitan area has a population of 2.1 million people drawn from nations all over the world. Both Seattle and Vancouver have a rich array of cultural offerings.

Student Government and Program Board

Mount Vernon: 360.416.7611
mv.studentgovernment@skagit.edu

Whidbey Island: 360.679.5303
wic.studentgovernment@skagit.edu

The Associated Students of Skagit Valley College (ASSVC) represents you as a student of the college. You are a member of ASSVC if you are a student enrolled in classes. Through the ASSVC and its legislative body, which you help to elect, students govern themselves, share in policy-making within the administrative structure of the college, and organize programs and events. Students may participate with faculty, staff, and administrators in determining college policy by serving on college governance committees. ASSVC participation requires an average of ten (10) hours of work per week

The Program Boards at SVC are groups of students operating under the guidance of Student Life staff with a goal of providing quality entertainment, cultural enrichment, and educational programming for the college and the community. If you are currently enrolled or are planning to enroll at SVC, you may be eligible to be a Program Board member. Program Board members' participation requires an average of ten (10) hours of work per week. As a member of the Program Board, you are responsible for planning, initiating, coordinating, and officiating all events.

Involvement in ASSVC and the Program Board provide opportunities for students to learn about campus wide and state initiatives regarding higher education and helps students understand the democratic decision making process. Students who hold these positions are exposed to experiences that help fine tune their leadership skills. For more information in regards to these leadership positions, please contact the Student Life Office.

Student Newspaper

Mount Vernon: 360.416.7862
Whidbey Island: 360.679.5303

Student newspapers provide for the discussion of important student concerns, and for informing the college community of events and activities.

The Cardinal newspaper is the student-owned newspaper at the Mount Vernon Campus. As a participant on the student newspaper staff, you can learn and practice news gathering, interviewing and writing skills, editing and proofreading, selling and creating display advertising, taking and processing photographs, using a scanner, and learning page design and layout.

The Cardinal has an editor and assistant positions. The Cardinal Newspaper accepts student submissions, regardless of involvement with the program, although not all submissions may be selected for printing due to space considerations.

At the Whidbey Island Campus, the Journalism Club provides monthly newsletters and papers to their college peers. They interview students, faculty, and staff on campus concerns. They also inform students of local, national, and global issues so that students are up-to-date with the news. This is done through club volunteer work servicw. If interested in participatingm please contact the Student Life Office at the Whidbey Island Campus.

10 Student Rights and Responsibilites

Student Information

INFORMATION	RESOURCE	WHERE TO FIND
SVC graduation and transfer-out rates	SVC Graduation Report	Enrollment Services: 360.416.7700
SVC's Drug and Alcohol Awareness Program	Report	Student Life Office: 360.416.7611
Family Educational Rights and Privacy Act	"Your Rights Under FERPA"	Enrollment Services: 360.416.7700
Campus Security Report and Crime Statistics	Campus Security Report	Security Office: 360.416.7934
Completion and transfer-out rates for athletes	Athletics Completion Report	Athletics Office: 360.416.7765
Gender equity in athletics at SVC	Equity in Athletics Report	Athletics Office: 360.416.7765
Voter registration	Information and Forms	Enrollment Services: 360.416.7700
Emergency Information	Emergency Preparedness Plan	Emergency Information webpage: skagit.edu/about/safety-security-parking/emergency-preparedness/

Children on Campus

SVC allows high school students on campus for instruction and other learning activities, but children are generally not permitted on campus unless they are directly supervised by a parent or responsible adult who is officially enrolled in classes or directly involved in an instructional process. In no case, even if accompanied by a parent or other adult, are children permitted in classrooms, labs, shops, or any area where potential hazards exist, with the exception of children directly involved in the instructional process (for example, Even Start, Kids College).

Individuals who bring children to campus are responsible for their supervision at all times; leaving children unattended in public areas such as the Student Lounge or Cafeteria does not meet this supervision standard. College officials will contact parents or other parties responsible for children left unattended on campus, and inform them that children must be properly supervised while on campus. Individuals who bring children to campus and refuse to abide by these guidelines will be referred to security or college officials and are subject to student discipline.

Comprehensive Veterans Education Information Policy

SVC does not and will not provide any commission, bonus, or other incentive payment based directly or indirectly on success in securing enrollment or financial aid to any persons or entities engaged in any student recruiting or admissions activities or in making decisions regarding the award of student financial assistance.

Drug Free Workplace Policy

In accordance with the Federal Drug Free Workplace Act of 1988, SVC strives to create a safe and secure learning environment. Employees are expected and required to report to work in an appropriate mental and physical condition to perform their assigned duties. Skagit Valley College's Drug-Free Workplace Policy: **skagit.edu/wp-content/uploads/2022/08/3000-section-human-resources.pdf**

Equal Opportunity and Title IX

Community College District #4 provides equal opportunity and does not discriminate on the basis of age, sex, race, ethnicity, or disability in the educational programs and activities which it provides. All employees, vendors, and organizations with which the college does business are required to comply with all applicable federal and state statutes and regulations designed to promote equal opportunity.

Family Educational Rights and Privacy Act (FERPA)

Under the Family Educational Rights and Privacy Act, students have the right to:

- Inspect all of their educational records.
- Request that their records be amended.
- Privacy of their records (with very few exceptions)
- Have information released upon request

Under the Family and Educational Rights and Privacy Act and SVC policy, the following information is listed as Directory Information and is not confidential:

- Student Name
- Major field of study

10 Student Rights and Responsibilities

- Enrollment Status
- Dates of attendance
- Participation in recognized sports
- Degre or certificate earned
- Term degree or certificate awarded
- Honors

Except as otherwise indicated in item 5000, subsection 5200, of the College Policies and Procedures Manual and Chapter 132D WAC, the College District will not provide information contained in student education records in response to inquiries either from within or outside the college unless the express consent of the student has been given.

If students do not want "directory information" released to others without a legitimate educational interest in the information, they should make formal application for the "non-disclosure of directory information" to the Enrollment Services' Office.

Please visit our FERPA web page (**skagit.edu/information-for-parents/ferpa/**)or the U.S. Department of Education website for more detailed information.

Inter-College Transfer and Articulation Among Washington Public Colleges and Universities

STUDENT RIGHTS AND RESPONSIBILITIES

1. Non-Discrimination Policy

All the colleges and universities in Washington maintain a policy of not discriminating against students because of their age, sex, race, color, religion, disability, national origin, marital status, sexual orientation, pregnancy, veteran's status, familial relationship, expunged juvenile record, association with anyone of a particular race, color, sex, national origin, marital status, age, or religion, as published in official institutional bulletins.

2. Information Dissemination and Acquisition

Students have the right to expect fair and equitable treatment from the public colleges and universities of Washington, both sending and receiving institutions. They have the right to expect reasonable efforts on the part of colleges to make accurate and current information available. They have, in turn, the responsibility of seeking out current information pertaining to their educational objectives, and for acquiring appropriate information when they change their academic plans. When a student changes major or degree program, the student must assume full responsibility for meeting the new requirements. Colleges will make every effort to help students make transitions as smoothly as is feasible.

REVIEW AND APPEAL

1. Student Appeals

Students who encounter transfer difficulties shall first seek resolution through the receiving institution's transfer officer. If not resolved at this level, the student may appeal in writing to the transfer officer of the sending institution. The transfer officers shall confer and attempt to resolve the problem. In the event the transfer officers cannot resolve the issue within two weeks, the matter will be referred to the two chief academic/instructional officers for resolution. Within two weeks after the academic officers have conferred, a decision will be rendered by the chief academic office of the receiving institution.

2. Inter-Institutional Disputes

In the event of inter-institutional transfer disagreements, it is the responsibility of the two transfer officers to resolve the dispute wherever possible. If not resolved at this level within two weeks, the two transfer officers will refer the matter to the two chief academic/instructional officers for resolution. Unresolved inter-institutional transfer disputes shall be referred for review and recommendation to a committee composed of three representatives appointed by the Washington Association of Community College Presidents and three representatives of the Inter-institutional Committee for Academic Officers of the state's public four-year institutions. A report to the two institutions will be rendered when this committee has completed its deliberations. The chief academic officers of the affected institutions shall respond in a formal report to the committee within four weeks indicating actions to be taken in response to committee recommendations.

Implementation and Revision of Policy

This policy shall be implemented and maintained through the cooperative efforts of the state institutions of higher education, the State Board for Community College Education, and the Higher Education Coordinating Board.

List of One Year Transfer Courses - "Washington 45"

This agreement is not intended to replace the Direct Transfer Agreement, Associate of Science Tracks I and II or any Major Related Program agreement, nor will it guarantee admission to a four-year institution.

A student who completes courses within designated areas listed below at a public community or technical college or four-year college in Washington State will be able to transfer and apply a maximum of 45 quarter credits toward general education requirement(s) at any other public and most private higher education institutions in the state*.

For transfer purposes, a student must have a minimum grade of C or better (2.0 or above) in each course completed from this list.

Students who transfer Washington 45 courses must still meet a receiving institution's admission requirements and eventually satisfy all their general education requirements and their degree requirements in major, minor and professional programs.

First Year Transfer List of General Education Courses

- Communications (5 credits) - ENGL& 101, ENGL& 102
- Quantitative and Symbolic Reasoning (5 credits) - MATH& 107, MATH& 148 or MATH& 151
- Humanities (10 credits in two different subject areas**) PHIL& 101, MUSC& 105, DRMA& 101, or HUM& 101
- For colleges that use History as a Humanities: HIST& 116, HIST& 117, HIST& 118, HIST& 146, HIST& 147, HIST& 148

10 Student Rights and Responsibilities

- Social Science (10 credits in two different subject areas) - PSYC& 100, SOC& 101, POLS& 101, POLS& 202
- For colleges that use History as a Social Science: HIST& 116, HIST& 117, HIST& 118, HIST& 146, HIST& 147, HIST& 148
- Natural Sciences (10 credits in two different subject areas) - ASTR& 100, ASTR& 101 w/lab,BIOL& 100, BIOL& 160 w/lab, CHEM& 105, CHEM& 110 w/lab, CHEM& 121 with lab, CHEM& 161, CHEM& 162, ENVS& 101, GEOL& 101 w/lab,
- An additional 5 credits in a different subject area can be taken from any category listed above to bring total to 45 credits.

Note: *Although these courses are listed under categories, the actual course may satisfy a different general education category at a receiving institution.*

** Many private non-profit colleges and universities have distinct general education requirements, therefore, students should check with institution(s) they plan to attend regarding application of transfer credits that will meet general education requirements.*

***Disciplines are sometimes called subject or subject matter areas and designated by a prefix (i.e. PHIL for Philosophy and POLS for Political Science).*

Notification of Title IV Student Complaint Process

The Higher Education Act (HEA) prohibits an institution of higher education from engaging in a "substantial misrepresentation of the nature of its educational program, its financial charges, or the employability of its graduates." 20 U.S.C. §1094(c)(3)(A). Further, each State must have "a process to review and appropriately act on complaints concerning the institution including enforcing applicable State laws." 34 C.F.R. § 600.9. For information, contact SBCTC Student Services, PO Box 42495, Olympia, WA 98504-2495, 360.704.4315 or visit **sbctc.edu**.

Parking

Designated parking on the Mount Vernon Campus includes staff, student, student carpool, parking for individuals with disabilities, and visitor spaces. Parking is available on a "first-come, first-served" basis in the areas designated as shown on campus maps. Maps are available on the SVC website, at the information desk in Lewis Hall, or the Security Services Department in the lobby of the Gary Knutzen Cardinal Center building. SVC students are required to park in a student parking lot between 7 a.m. and 5 p.m. and have a parking permit decal (Mount Vernon Campus only) visible on their car. Students may not park in staff or visitor parking spaces at any time. Parking permit decals may be obtained at the Security Services Department in the lobby of the Gary Knutzen Cardinal Center. This rule is strictly enforced and citations will be issued. If you receive a citation, a block will be put on your student ID until your fine is paid. You may pay the fine at the MV cashier in the Lewis Hall building or the Whidbey Island cashier in the Old Main building. If you fail to pay your fine(s), you will not be able to register for the next quarter, get your grades (including official transcripts), or receive your financial aid check. If you have any questions please visit the Security Services office in the lobby of the Gary Knutzen Cardinal Center building or call 360.416.7777.

Security Reports

SVC complies with the Jeanne Clery Disclosure of Campus Security Policy and Campus Crime Statistics Act of 1998. The College's Annual Security Report and Campus View Village Fire Report are available online: **skagit.edu/about/security-services/safety-security-reports-manuals/**

Emergency Notifications and Alerts

SVC uses the RAVE Mobile Safety alert system to communicate with students and employees in the event of a college emergency, safety alert, or weather-related delay or closure. All students and staff receive notifications to their official SVC email account and have the option to receive notifications via text, voice (land line or cell phone), and email addresses different than the official SVC email account. To enable these options log on to **www.getrave.com**.

Emergency Preparedness

SVC has established procedures and gathered information to minimize the impact of an emergency on students, employees, visitors and facilities. The "All Hazards Emergency Response Plan" is available online: **skagit.edu/wp-content/uploads/2018/01/ep-erp-Jan2018.pdf**

Emergency procedures, emergency assembly point maps, and building safety evacuation diagrams are posted at various locations in each campus building.

Placement Reciprocity Agreement Policy

For all entering students at any Washington community and technical college, system policy provides that:

- A student who qualifies for a specific level of pre-college math, English, or reading, either through course completion or local skills assessment, will have that course placement level honored at another Washington CTC if the student so requests, even if the courses may not be exact equivalents.
- A student who qualifies for entry into college-level math, English, or reading, either through course completion or local skills assessment, will be considered to have met the entry college-level standard at every community and technical college.
- Students requesting reciprocity must initiate the process within one year of their initial placement assessment.

Record of Student Complaints Policy

In accordance with USDOE regulation 602.16(a)(1)(ix), an institution shall make available an account of the student complaints it has received, its processing of those complaints, and how that processing comports with the institution's policies and procedures on the handling of grievances or complaints. The Commission reviews the institution's record of complaints as part of the institution's Year Three or Year Seven Evaluation.

Sexual Harassment Policy

It is the intent of SVC to prohibit discrimination of any kind, including sexual harassment, as defined by the Equal

10 Student Rights and Responsibilities

Employment Opportunity Commission in its guidelines on sexual harassment in 1980 under Title VII of the Civil Rights Act of 1964. If a student believes they have been subject to sexual harassment or other forms of prohibited discrimination, they may file a complaint at **skagit.edu/about/incident-reporting/** or contact the Title IX/EEO Office at **TitleIX@skagit.edu**. Procedures for handling complaints are found in OPPM 3070 Non-Discrimination and Harassment policy at **skagit.edu/wp-content/uploads/2022/08/3000-section-human-resources.pdf**.

Student Absence for Reasons of Faith or Conscience

SVC will grant reasonable accommodation so that grades are not impacted for students who are absent for reasons of faith or conscience, or for an organized activity conducted under the auspices of a religious denomination, church, or religious organization. Such absences must be requested in writing within the first two weeks of the quarter and may not incur additional fees for students. Students' grades may not be adversely impacted by absences authorized under this policy. Each holiday taken under this policy must be taken as a whole day, i.e. the day may not be divided into hours and taken piecemeal. Students who have concerns about approval or a grade impact may utilize the student grievance procedure for concerns not directly related to grades, or to the grade appeal process in cases impacting a final grade.

Procedure

1. Students must coordinate an absence with the Office of the Vice President of Instruction within the first two weeks of the quarter. All requests for authorized absences under this policy must be in writing and contain a concise explanation of how the requested holiday is related to a reason of faith or conscience or an organized activity conducted under the auspices of a religious denomination, church, or religious organization. The request form is electronic at: **absence.skagit.edu/**.
2. All absences under this policy must be authorized by the Office of the Vice President of Instruction in advance of the absence. The college will not authorize an absence for a student after the absence occurs without compelling circumstances.
3. The Office of the Vice President of Instruction will provide the student with a document verifying the date of the authorized absence and further instructions. In order to ensure that their absence does not negatively affect their grades, the student must comply with directions for notifying their instructors of their upcoming authorized absence. The student is solely responsible for ensuring the documentation authorizing the absence is provided to each of the instructors whose classes or assignments will be affected by the absence.
4. After an instructor is notified by the student of an upcoming absence, the instructor will determine what adjustments, if any, will need to be made to the student's scheduled classwork or assignments. The instructor shall inform the student of these adjustments within two business days of receiving the student's notification. "Business Day" means a weekday, excluding weekends and college holidays.
5. If the student's desired absence date is on a day when a test was scheduled or an assignment was due, the instructor may require that the student take the test or submit the assignment before or after the regularly assigned date.
6. Regardless of an instructor's class expectations or grading policies, absences authorized under this policy shall not adversely impact a student's grade
7. If a student fails to notify any of their instructors of an authorized absence (as directed by the Office of the Vice President of Instruction), the instructor is not obligated to make any accommodations for the student's absence or treat the absence as authorized under this policy or the law.

Transfer Rights and Responsibilities

Student Rights and Responsibilities

- Students have the right to clear, accurate, and current information about their transfer admission requirements, transfer admission deadlines, degree requirements, and transfer policies that include course equivalencies.
- Transfer and freshman entry students have the right to expect comparable standards for regular admission to programs and comparable program requirements.
- Students have the right to seek clarification regarding their transfer evaluation and may request the reconsideration of any aspect of that evaluation. In response, the college will follow established practices and processes for reviewing its transfer credit decisions.
- Students who encounter other transfer difficulties have the right to seek resolution. Each institution will have a defined process for resolution that is published and readily available to students.
- Students have the responsibility to complete all materials required for admission and to submit the application on or before the published deadlines.
- Students have the responsibility to plan their courses of study by referring to the specific published degree requirements of the college or academic program in which they intend to earn a bachelor's degree.
- When a student changes a major or degree program, the student assumes full responsibility for meeting the new requirements.

College and University Rights and Responsibilities

- Colleges and universities have the right and authority to determine program requirements and course offerings in accordance with their institutional missions.
- Colleges and universities have the responsibility to communicate and publish their requirements and course offerings to students and the public, including information about student transfer rights and responsibilities.
- Colleges and universities have the responsibility to communicate their admission and transfer related decisions to students in writing (electronic or paper).

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E-Learning

Mount Vernon: 360.416.6655
Toll free number: 1.877.385.5360

CAN'T COME TO CAMPUS? LET US COME TO YOU!

SVC is committed to students and to providing quality education at the time and place that is most convenient to their learning. With this in mind, the college offers a wide selection of courses that are fully online (eLearning), hybrid, and face-to-face. The online (eLearning) and hybrid courses at SVC are academically rigorous and equivalent to traditional face-to-face courses. They are the same in terms of credits, learning objectives, competencies, content, and transferability. They also follow the same policies concerning admission requirements and are on the same academic calendar.

- **Fully online courses** - Students are not required to come on campus or to attend online meetings at a particular time. Students access course content via a course management system and work with their classmates using engaging technology from anywhere and anytime they have internet access.
- **Hybrid courses** - This format combines face-to-face instruction and a significant amount of self-directed learning done online when it is convenient for students. For example, a traditional 5 credit class will usually meet 4 times per week. When converted into a hybrid course, half of those weekly sessions might be replaced by work done independently in an online course management system.
- **Face-to-face courses** - Traditional format where classroom instruction takes place on campus at set hours and days of the week; student attendance is expected. Almost all face-to-face classes use online technology (for example, email, website resources, online videos, and a learning management system) to enhance the learning experience.

Check out the ELearning website (**elearning.skagit.edu**) for information about online degree options and support services available to online students.

Developmental Education

Mount Vernon: 360.416.7642
Whidbey Island: 360.679.5307

Many students entering college or returning after some time away from studies need and want additional work to prepare for college-level courses. To help meet the needs of these students, SVC offers both tutorial services and various levels of courses in foundational mathematics, reading, and writing. Placement in many of these courses is determined by recommendation or performance on assessment tests required as part of the college admissions process.

Some courses are offered in the traditional classroom format, others are provided through individualized, self-paced instruction in the Mount Vernon Campus Academic Skills Center, and certain ones are available through E-Learning. These courses are numbered below 100 and, although taken for credit, are not counted toward a college degree.

Basic Education for Adults

Basic Education for Adults (BEdA) serves students who want to improve English language skills; complete a high school diploma; prepare for the GED® (General Educational Development) exams; and/or improve academic skills in reading, writing and math to prepare for transition to college level courses. Basic Education offers English Language Acquisition (ELA), College and Career Bridge (CCB), and HS+ Adult High School Diploma (HSC) courses.

English Language Acquisition

Classes in English Language Acquisition (ELA) and English for Academic Purposes (EAP) provide language instruction to non-native speakers of English.

ELA offers beginning, intermediate, and advanced classes primarily for immigrants in our community. Classes emphasize listening, speaking, reading, and writing skills. Job readiness is a component of all ELA courses, as well as the practical use of English in everyday life. Students in upper levels are encouraged to pursue additional educational opportunities such as I-BEST, College and Career Bridge (CCB), High School Completion (HSC), English for Academic Purposes (EAP), and/or college certificates and degrees.

EAP courses are offered to international students and other English learners in conjunction with or preparation for entering college credit programs. EAP courses provide students with the language skills needed to succeed in Academic and Professional/Technical studies at Skagit Valley College.

Externships and Practicums

Externships and/or practicums are required for some academic programs. These courses contribute to a significant applied, hands-on learning focus for the degree/certificate, giving students real-world experience that they can bring to future jobs. Externship locations, course credits, and student

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expectations vary depending on the program of study. Specific information is available from the instructor and is listed within the Program information in the catalog. Students participating in externships may be required to pay for general liability insurance.

Running Start

Running Start is a cooperative effort between SVC and local area high schools. This dual credit program allows eligible high school juniors and seniors to attend college classes and earn high school and college credits simultaneously.

Running Start students attend SVC classes during the school day, in the evening, or participate in an online learning environment. Students can enroll part-time or full-time, depending on their goals. Upon the satisfactory completion of the course requirements, college credit is granted. Many college-level courses are transferable to other colleges, please check with the college you intend to transfer to for eligibility; credits may also apply toward high school graduation requirements. Homeschool students are welcome to participate; however, they must enroll in a public school to complete the necessary paperwork in order to access Running Start funding.

Students must be classified as a junior or senior by the high school to be eligible to participate in Running Start. Students should speak with their families, their high school counselor, and attend a Running Start Information Session prior to enrolling in Running Start. Admissions steps include submitting an online admissions application, completing course placement, activating their MySVC account, completing an online orientation, completing a Running Start Enrollment Verification Form (quarterly) and attending a Cardinal Take-Off Advising session. A completed Running Start Enrollment Verification Form is required before a Running Start student registers for courses each quarter. The form must be signed by a parent/guardian, a high school counselor or representative and the student prior to submitting it to SVC each quarter. To learn more about applying to Running Start, please visit **skagit.edu\runningstart**.

The Running Start program may cover the cost of tuition for up to 15 credits of college-level courses per quarter. Students are responsible for paying additional tuition fees if they enroll for additional credits, college and course fees, purchasing books, supplies or materials, and must follow all SVC policies and regulations regarding student performance, behavior, and course prerequisites. Tuition fee waivers are available for students who qualify for and submit documentation of free/reduced priced meals at their high school. This waiver covers the cost of eligible credit fees only; it does not cover any other costs of attendance.

High School Diploma

There are three ways to earn a high school diploma from Skagit Valley College:

1. Adult High School Completion:

An individual who satisfactorily meets the high school requirements as determined by the college shall be awarded a diploma from the college, subject to rules adopted by the Superintendent of Public Instruction and the State Board of Education.

2. Upon Completion of an Associate Degree:

An individual 16 years or older who enrolls in the college for the purpose of obtaining an associate degree and who satisfactorily completes an associate degree, including an Associate of Arts (AA), Associate of Science Transfer (AS-T), Associate in Education (A.ED.), Associate in Technical Arts (ATA), or Associate in Applied Science (AAS), Associate in Applied Science Transfer (AAS-T), shall be awarded a Washington State high school diploma from the college upon request from the student. (These individuals are not required to complete the State Board of Education's graduation requirements.)

3. HS21+ Adult High School Diploma:

Individuals who have not yet obtained their high school diploma and are over the age of 21, can obtain a competency-based high school diploma through the HS21+ diploma program. High school competency requirements may be met through prior learning in high school or college coursework or work, life, and/or military experience.

Open Doors

Open Doors is a competency-based high school completion program for eligible individuals who are 17-20 years of age who are deficient in high school credits. High school competency requirements may be met through high school and college coursework and/or prior learning gained from work and life experience. Unmet requirements may be achieved through additional coursework at SVC.

Career and Technical Education (CTE) Dual Credit

CTE Dual Credit courses are available to 9th - 12th grade students for classes that are articulated with SVC. Courses are taught by high school instructors who use SVC's equivalent course outcomes. If students complete the course with the required grade and skills, they may also receive SVC credit These courses are part of a Career and Technical Education (CTE) program that can lead to a college certificate or degree. CTE Dual Credit students gain tremendous advantages by preparing for their post-secondary education while in high school. They may pursue the credential that is right for them, whether it be an associate or bachelor's degree, or a post-secondary industry certification. For more information, please visit the CTE Dual Credit web page.

College in the High School

College in the High School (CHS) is a dual credit program which provides college-level academic courses to 10th, 11th, and 12th grade students. Courses must be articulated with SVC and CHS teachers must meet the same qualification as SVC instructors. CHS courses are equivalent to SVC courses and are taught at the high school by qualified high school teachers. Students must apply to SVC, meet course prerequisites, register for the course, pay tuition, and satisfactorily complete the course

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to earn college credit. For more information, please visit the College in the High School webpage.

Apprenticeship Programs

CARPENTER APPRENTICESHIP

A four-year program of paid on-the-job training and related instruction. Graduates receive a journey level certification from the Department of Labor and Industries and the United Brotherhood of Carpenters. VA approved. For more information please call the apprenticeship office at 360.428.2933.

INSTRUCTIONAL ASSISTANT AND EDUCATION PARAPROFESSIONAL APPRENTICESHIPS

This apprenticeship program is a structured program of on-the-job training and related classroom instruction provided by Skagit Valley College. It is a joint effort by employers, employees and the State Department of Labor and Industries to increase the skill level of K-12 public school employees and provide employers with a pool of well-trained personnel with job specific skills.

The Washington Public School Classified Employees Apprenticeship Committee, in cooperation with Skagit Valley College, provides two specific apprenticeship programs for employed paraeducators in K-12 public school settings. The Instructional Assistant program consists of 2,000 hours of on-the-job training and 45 credits of related training. The Educational Paraprofessional program is also available to those apprentices that complete the Instructional Assistant program. The college courses selected to meet apprenticeship requirements may also be used toward earning an education paraprofessional certificate or degree. Contact the Early Childhood Education (ECE) Dept Chair for current apprenticeship scholarship information. For more information contact Washington Public School Classified Employees Representative at 360.336.2240 or the ECE Department Chair at 360.416.7787.

ELECTRICIAN APPRENTICESHIP

A five-year program of paid, on-the-job training and related instruction. Includes classroom training covering all phases of electrical work leading to Journeyman status. VA approved. For more information, please call the apprenticeship office at 360.428.5080.

FACILITIES CUSTODIAN APPRENTICESHIP

A 42-credit program covering on- the-job training and related instruction. This program is Veteran's Administration (VA) approved. For more information please call the Washington Public School Classified Employees apprenticeship office at 360.338.2240.

Cooperative Education

Mount Vernon: 360.416.7693

Cooperative education takes the student out of the classroom and into the world of work, where it is possible to explore career-related hopes and dreams. Cooperative education bridges the gap between theory and practice and creates community partnerships with local employers.

The program is a requirement for all students who earn an Associate in Applied Science (AAS) degree. Co-op offers students a chance to prepare for careers in business, industry, government and non-profit organizations. Co-op students gain work experience, build a network of mentors, and learn what preparation they need to be successful in their chosen field.

Opportunities normally exist for both volunteer and paid positions. Students may work on- or off-campus and must complete at least 30 work hours per credit. An on-line weekly seminar about work-related issues, such as communication, goal setting and problem-solving, is also required. For more information, contact Lisa Bennett, Student Success Navigator at 360.416.7693 or at lisa.bennett@skagit.edu.

Learning Into Action

Mount Vernon: 360.416.7693

Transfer degree-seeking students have the opportunity to synthesize and put the knowledge and skills they have learned into practice in an applied learning environment. Students may complete a one credit, 30-hour project which allows them to creatively apply their knowledge, acquired skills, and critical thinking. Potential projects include: community service, original research, study abroad, campus-related activities, foreign travel, work study, thesis papers, mentoring, working with external agencies, visiting/developing exhibits, or capstone projects. Students may participate in either individual or collaborative projects, and carry out their projects in consultation with a faculty sponsor. For more information, contact Lisa Bennett, Student Success Navigator at 360.416.7693 or at lisa.bennett@skagit.edu. (Running Start students outside of the Mount Vernon School District would need High School counselor permission prior to enrollment.)

Parent Education

Mount Vernon: 360.416.7635
Whidbey Island: 360.679.5347

The Family Life program offers parents and families the opportunity for parenting support, education and involvement in a developmentally appropriate toddler or cooperative preschool program. Participate in your child's social and intellectual development and increase your knowledge of child development, health and safety, and much more. For more information, contact Alexis Meyers, Family Life program coordinator at alexis.meyers@skagit.edu.

Community Programs

Continuing and Community Education 360.416.7638
skagit.edu/continuing-community-education/

Community members may sign up for non-credit classes and workshops relating to personal enrichment, professional development, and industry certification through Continuing and Community Education (CCE) program. These courses are designed to be accessible, affordable, and offered at convenient times - including evenings and weekends. Students do not need to apply to SVC or be a current student to participate in these courses. A CCE course must meet

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enrollment minimums in order to run, and courses are not eligible for financial aid or waivers.

The Continuing and Community Education program is self-sustaining and not eligible for waivers. For more information, contact the CCE Office at 360.416.7638 or at communityed@skagit.edu.

You may earn Continuing Education Units (CEU's), contact hours or required certifications to maintain your professional license through the CCE program. Students are encouraged to communicate with the CCE department prior to participating, to ensure a course is eligible for CEUs.

Serving the Business Community

CUSTOMIZED TRAINING FOR BUSINESSES

360.416.6631
skagit.edu/community/training-for-business/

SVC provides efficient and effective training with an eye on the bottom line and a plan to help develop a company's most important asset - its employees. Businesses can request customized training options which can be delivered on-site at your business, online, or at any of our training locations. Instructors are subject matter experts with extensive industry experience, who can provide a complete range of high-quality customized training solutions for businesses, non-profits, and government agencies. Funding for training may be available for eligible businesses and organizations.

For more information, contact the Continuing and Community Education Office at 360.416.7638, or at customizedtraining@skagit.edu.

Foreign Travel

Credit may be earned either through coursework associated with organized trips sponsored by the college or through independent travel, enrollment in foreign educational institutions, or through international exchange programs.

Independent Study

Independent study may be achieved through individual instructors for one to five credits per quarter. Independent study is limited to of one course per quarter. The course numbers are 251-255 in the department in which the work is done and may be repeated for credit. An independent study form may be obtained from Enrollment Services and must be signed by the instructor, Department/Division Chair and Dean prior to enrollment.

Honors and Graduation

HONOR ROLL

At the conclusion of each quarter, those students who obtain a college-level grade point average (GPA) of 3.75 or better and have completed 12 credits or more in college level courses numbered 100 or higher are placed on the Honor Roll.

HONORS AND HIGH HONORS

Graduates with a degree or certificate and have a college-level GPA of 3.50 to 3.79 receive Honors. High Honors is awarded if the college level GPA is 3.80 to 4.00. Honors designations are listed on the SVC transcript with the degree and/or certificate title.

PRESIDENT'S MEDAL

To be eligible for the Presidents Medal graduating students must achieve a 3.90 to 4.00 SVC college-level GPA, including all SVC and transfer coursework. All grades must be 'A' or 'A-', and no 'I' or 'F' grades in courses numbered over 100 are permitted. In addition, a maximum of two Pass 'P' grades are allowed and students must have attended SVC for a minimum of three quarters. The specific and complete criteria for the President's Medal may be obtained in Enrollment Services.

HONORS RECEPTION

One of the culminating events of every school year is the annual Honors Reception. Both the Mount Vernon and Whidbey Island Campuses host a reception. The Honors Reception is a celebration of both academic achievement and student involvement in campus activities. More information about the Honor Reception may be obtained at the Office for Student Life.

PHI THETA KAPPA

SVC is a member of Phi Theta Kappa, an international honor society for two-year colleges. The Theta Upsilon Chapter is on the Mount Vernon Campus, and the Alpha Omicron Sigma Chapter serves the Whidbey Island Campus.

Graduation

DIPLOMA APPLICATION

Students are required to submit a diploma application approximately one quarters prior to registering for their final quarter. The online application is located at: **grad.skagit.edu/login.aspx**

Your degree and/or certificate status can be reviewed through Progress Tracker (degree audit) within your MySVC account in the Resources/Advising section and/or with your advisor.

The degree and/or certificate will be posted to your official transcript at the end of the quarter in which the requirements were completed. The diploma will be mailed approximately 12 weeks after degree and/or certificate posting.

COMMENCEMENT CEREMONY

All students who graduated or will be graduating during this current academic year (Summer 2023 through Spring 2024) are encouraged to attend the graduation commencement ceremony at the end of Spring Quarter.

To participate, the degree/certificate requirements must be satisfied, or be within 10 credits or two classes or one quarter of degree/certificate completion, by the end of Summer Quarter 2024.

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Grading Procedure

Evaluation of student performance is the prerogative of course instructors as follows:

CLASSIFICATION	LETTER GRADE	GRADE POINTS
Excellent	A	4
Above Average	A-	3.7
	B+	3.3
	B	3
Average	B-	2.7
	C+	2.3
	C	2
Below Average	C-	1.7
	D+	1.3
	D	1
Failing	F	0
OTHER		
Grade not received from instructor	*	Not Counted
Incomplete	I	Not Counted
Audit	N	Not Counted
Pass	P	Not Counted
Ceased Attendance (Comm. Ed.	V	Not Counted
Withdrawal	W	Not Counted
In Progress/Re-register (BeDA and AESL)	Y	Not Counted
Course Repeated	Grade+R	Not Counted
Statute of Limitations	Grade+*	Not Counted

Earning College Credits

The standard academic year is divided into three quarters of approximately 11 weeks each, plus a summer session of approximately 5 weeks or 8 weeks, depending on the course. One credit is allowed for each lecture period or two hours of laboratory per week. The laboratory period may consist of two or more hours. For each period of lecture or discussion, the average student should allow two hours of outside preparation.

A carefully planned course of 15 or more college-level credits per quarter may give you sufficient credits to graduate in two years. These credits should be chosen according to the educational plan developed under the guidance of an advisor.

If you are a degree-seeking student, you are strongly encouraged to have your schedule of classes reviewed by your advisor. The following course credit loads require approval by an advisor and the Associate Dean of Enrollment Services:

- 22 or more professional-technical course credits

Prior Learning

Prior learning is the knowledge and skills gained through work and life experience; through military training and experience; and through formal and informal education and training from in-state and out-of-state institutions, including foreign institutions. For information, contact the Executive Dean of Workforce Education at 360.416.7802.

CREDIT FOR PRIOR LEARNING

Currently enrolled SVC students may earn college credit based upon prior learning when they demonstrate by examination or evaluation that their professional experience or substantial prior learning meets the specific outcomes of a SVC course. Each department determines the evaluation method students use to demonstrate mastery of the course content. Students seeking to acquire this form of college credits should complete the Petition for Non-Traditional Credit: For Prior Learning Form from the Enrollment Services Forms webpage. Then submit the form and all documentation supporting their request to the Department Chair for the program that oversees the course(s) the student is challenging. A maximum of 30 credits is allowed for this method and there is a $60 per credit transcription fee associated with this request. Certain pre-approved training programs may qualify for a Pre-Approved Prior Learning Assessment Fee of $250 for up to 30 credits of transcribed credit.

ADVANCED STANDING

The purpose of Advanced Standing is to replace a required course with prior experience in military work/military schools or relevant employment in an industry that can be documented by employment records or through testing. Students seeking advanced standing credit should do so upon entry to SVC by completing the Petition for Non-Traditional Credit: Advanced Standing Request form and submit the form and all documentation (including appropriate transcripts, DD295s, Joint Service Transcript (JST), or industry training documents) supporting their request to the Dean of Workforce Education. Once awarded, Advanced Standing may give you prerequisites necessary for registration for courses that will count toward your certificate/ diploma. For example: a student who holds

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a current CPR/First Aid card from an approved agency may request a waiver of PE 200 as a requirement for their degree. Students who receive advanced standing must still complete a minimum of 90 credits to graduate with an Associate of Applied Science Degree.

Note: This option only eliminates the requirement for the class but does not count as credits toward attainment of a degree. In the example offered, a student with a valid CPR card would not need to take the 2-credit PE 200 class but will still need a minimum of 90 credits overall to graduate with a degree.

STANDARDIZED TESTS

Non-traditional credits include credit by nationally standardized tests such as College Level Examination Program (CLEP) and DANTES, military, vocational, and other non-accredited training programs, independent study, and other appropriate educational experiences. Students who request to be tested in a specific subject area using a nationally standardized test (such as the CLEP or American Chemical Society tests) and score at or above the national reference standard or at a minimum level which shall be decided by the various departments.

Students who request to be tested in broad areas of General Education such as natural science or humanities, may be granted a maximum of 45 credits (depending on the degree type, see below "Application of Non-Traditional Credit") through CLEP general examinations (not to exceed 9 credits per exam) or other similar nationally standardized tests.

Challenging an SVC Course

CREDIT BY EXAMINATION

The following regulations have been established for awarding credit by examination:

1. Students may not receive credit by examination for subject matter less advanced than that for which they have previously received credit.
2. No student shall be permitted to repeat any examination for advanced credit.
3. Students may not challenge courses they have previously audited, failed or challenged and failed.
4. Students may not receive credit by examination for lower division (100 and 200-level) language courses in the student's native language.
5. Students may not request credit by examination for any course in which they are currently enrolled.

The following is the process students should follow to request credit by examination:

Students who request to be tested in a specific course must have faculty, department/division chair, and dean approval. Forms may be obtained from Enrollment Services. Approved forms must be returned to Enrollment Services with appropriate payment.

1. The student pays a course challenge fee of $2 per course credit. The student also pays the tuition for the course itself.
2. The student receives a receipt. The student submits the receipt for the challenge to the instructor and arranges a time with the instructor to take the exam.
3. The instructor grades the exam and indicates the grade for the course on the receipt and signs it.
4. The instructor submits the signed receipt with the grade at Enrollment Services.
5. The course grade based on the challenge exam is posted on the student's transcript.

College Preparatory Program with Exams

AP TEST SCORE EQUIVALENCIES AT WASHINGTON SBCTC (4.60.51)

Students interested in transferring to a four-year university should check the requirements of their target school to determine the best way to use AP credits.

Credit earned through AP exams do not count toward the SVC residency requirement. For Advanced Placement, review the AP Test Score Equivalencies Table below.

The chart included on this page represents course equivalencies awarded for each Advanced Placement (AP) exam score and is recognized by all community and technical colleges in Washington. Students interested in transferring to a four-year university should check the requirements of their target school to determine the best way to use their AP exam credits. This page also includes the State/SBCTC policy (4.60.51) for awarding credit for AP scores. Advanced Placement exams with scores of three or higher will be posted to the SVC transcript.

4.60.51 Advanced Placement: Washington state community and technical colleges will award unrestricted elective credit for an Advanced Placement (AP) score of 3 or higher. Credit will be awarded on the basis of official AP results, not transcript notation. Credits granted for general education or major requirements will be specified by the receiving institution's AP credit policies; otherwise, elective credit will be granted. Unrestricted electives will be academic/transferable credits for Skagit Valley College.

See AP Test Score Equivalencies table, pp. 240-241.

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AP Test Score Equivalencies

AP TEST	SCORE	COURSES AND CREDITS LISTED BELOW ARE THE MINIMUM AWARDED PER SCORE
Art: Art History	3 - 5	ART& 100 (5)
Art: Studio Art - Drawing	3-5	Humanities Distribution (5)
Art: 2D Design	3-5	Humanities Distribution (5)
Art: 3D Design	3-5	Humanities Distribution (5)
Biology	3-5	BIOL& 100, BIOL& 160 (5)
Calculus AB	3-5	MATH& 151 (5)
Calculus BC	3-5	MATH& 151, MATH& 152 (5)
Chemistry	3-4 5	CHEM& 121, CHEM& 161 (5) CHEM& 121, CHEM& 161, CHEM& 162 (10)
Chinese Language and Culture	3-4 5	World Language Elective (5) World Language(10)
Computer Science A	3 4-5	Elective (5) CS 142 (5)
Computer Science AB	3-5	Elective (5)
Computer Science Principles	3-5	General Elective (5)
Economics: Micro	3-5	ECON& 201 (5)
Economics: Macro	3-5	ECON& 202 (5)
English: Lang and Comp	3 4-5	Elective (5) ENGL& 101 (5)
English: Lit and Comp	3-5	Humanities Distribution (5)
Environmental Science	3 4-5	ENVS& 100 (5) ENVS& 100, ENVS& 101 (5)
European History	3-5	HIST& 116, HIST& 117, HIST& 118 (5)
French Language and Culture	3 4 5	FRCH& 121 (5) FRCH& 121, FRCH& 122 (5) FRCH& 121, FRCH& 122, FRCH& 123 (10)
French Literature	3-4 5	World Language Elective (5) World Language (10)
German Language and Culture	3-4 5	World Language Elective (5) World Language (10)
U.S. Government and Politics	3-5	POLS& 202 (5)
Comparative Government and Politics	3-4 5	POLS& 101 (5) POLS& 101, POLS 201 (5)
Human Geography	3-4 5	Social Science Elective (5) Social Science Elective (10)
Italian Language and Culture	3-4 5	World Language Elective (5) World Language (10)
Japanese Language	3 4 5	JAPN& 121 (5) JAPN& 121, JAPN& 122 (5) JAPN& 121, JAPN& 122, JAPN& 123 (10)
Latin Literature and Culture	3-4 5	World Language Elective (5) World Language (10)
Latin: Virgil	3 4 5	Elective (5) Humanities Distribution, Humanities Elective (5) Humanities Distribution, Humanities Elective (10)
Music Theory	3-4 5-	Music Theory Elective (5) Music Theory Elective (10)
Music Listening/Literature	3-4 5	Music Elective (5) Music Elective (10)

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AP TEST	SCORE	COURSES AND CREDITS LISTED BELOW ARE THE MINIMUM AWARDED PER SCORE
Physics 1	3-5	PHYS& 124 + PHYS& 134 (5) or othe algebra-based physics class (mechanics)
Physics 2	3-5	PHYS& 124 + PHYS& 134 (5) or othe algebra-based physics class (waves or thermodynamics)
Physics B	3-5	Science Distribution (5)
Physics C (Mechanics)	3 4-5	Calculus-based physics class (5) PHYS& 231 + PHYS& 241 (5) or other calculus-based physics class (mechanics))
Physics C (Elect. and Mag.)	3 4-5	Calculus-based physics class (5) PHYS& 233 + PHYS& 243 (5) or other calculus-based physics class (electricity and magn.)
Psychology	3 4-5	Elective (5) PSYC& 100 (5)
Spanish Language and Culture	3 4 5	SPAN& 121 (5) SPAN& 121, SPAN& 122 (5) SPAN& 121, SPAN& 122, SPAN& 123 (10)
Research	3-5	General Elective (5)
Seminar	3-5	General Elective (5)
Spanish Literature and Culture	3 4 5	SPAN& 121 (5) SPAN& 121, SPAN& 122 (5) SPAN& 121, SPAN& 122, SPAN& 123 (10)
Statistics	3-5	MATH& 146 (5)
U.S. History	3-4 5	HIST& 146, HIST& 147, HIST& 148 (5) HIST& 146, HIST& 147 HIST& 148 (10)
World History	3-5	HIST& 126, HIST& 127, HIST& 128 (5)

CAMBRIDGE INTERNATIONAL (4.60.53)

SVC will award unrestricted elective credit for a Cambridge (CI) score of E on A and AS level exams with a passing grade or above for approved examinations. Credit will be awarded on the basis of official CI results, not transcript notation. Credits granted for general education or major requirements will be specified by the receiving institution's CI credit policies; otherwise, elective credit will be granted. Duplicate credit for the same subject taken on different exams will not be granted.

See Cambridge International Test Score Equivalencies table, pp. 242-244.

For Cambridge exams that are not listed here (Afrikaans, Arabic, Divinity, Hindi, Hinduism, Information Technology, Islamic Studies, Law, Portuguese, Tamil, Travel and Tourism, or Urdu), please contact your college's Office of Admissions or Enrollment Services.

INTERNATIONAL BACCALAUREATE (4.60.52)

Students interested in transferring to a four-year university should check the requirements of their target school to determine the best way to use credits.

SVC will award unrestricted elective credit for an International Baccalaureate (IB) score of 4 on standard-level or higher-level IB exams. Credit will be awarded on the basis of official IB results, not transcript notation. Credits granted for general education or major requirements will be specified by the receiving institution's IB credit policies; otherwise, elective credit will be granted. International Baccalaureate exams with scores of four or higher will be posted to the SVC transcript.

See INTERNATIONAL BACCALAUREATE Exam Scores table, pp. 244-245.

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CAMBRIDGE INTERNATIONAL TEST SCORE EQUIVALENCIES

NAME	SCORE	MINIMUM CREDITS
Accounting	A Level	ACCT& 201, ACCT& 202, and ACCT& 203 (15)
Accounting	AS Level	General electives (5)
Art and Design	A Level	Humanities distribution in art (10) and general electives (5)
Art and Design	AS Level	Humanities distribution in art (7.5)
Biology	A Level	Natural science distribution in biology, with lab (10) and general electives (5)
Biology	AS Level	Natural science distribution in biology, with lab (7.5)
Business	A Level	BUS& 101 (5) and business electives (10)
Chemistry	A Level	CHEM& 161, CHEM& 162, and CHEM& 163 (15)
Chemistry	AS Level	Natural science distribution in chemistry, with lab (7.5)
Chinese	A Level	World language (10) and humanities distribution (5)
Chinese - Language	AS Level	*World language (7.5)*
Classical Studies	A Level	Humanities distribution (10) and general electives (5)
Classical Studies	AS Level	Humanities distribution (7.5)
Computer Science	A Level	Computer science for non-majors (5) and general electives (10)
Computer Science	AS Level	Computer science for non-majors (5) and general electives (2.5)
Digital Media and Design	A Level	Humanities distribution (10) and general electives (5)
Digital Media and Design	AS Level	Humanities distribution (7.5)
Drama	A Level	DRMA& 101 (5), humanities distribution (5), and general electives (5)
Drama	AS Level	DRMA& 101 (5) and humanities distribution (2.5)
Economics	A Level	ECON& 201 (5), ECON& 202 (5), and general electives (5)
Economics	AS Level	Social science distribution in economics (7.5)
English - Language	A Level	General electives (15)
English - Language	AS Level	General electives (7.5)
English - Language and Literature	AS Level	General electives (7.5)
English - Literature	A Level	Humanities distribution (10) and general electives (5)

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NAME	SCORE	MINIMUM CREDITS
English - Literature	AS Level	General electives (7.5)
English General Paper	AS Level	General electives (7.5)
Environmental Management	AS Level	Natural science distribution, with lab (7.5)
French	A Level	FRCH& 121, FRCH& 122, and FRCH& 123 (15) .... UW awards 200-level credit
French - Language	AS Level	FRCH& 123 (5) and humanities distribution (5)
Geography	A Level	Social science distribution (10) and general electives (5)
Geography	AS Level	Social science distribution (7.5)
German	A Level	World Language Elective (15) UW gives primarily 300-level credit
German - Language	AS Level	World Language Elective (5) and humanities distribution (5)
Global Perspectives and Research	A Level	General electives (15)
Global Perspectives and Research	AS Level	General electives (7.5)
History	A Level	Humanities or social science distribution in history (10 in one or 5 in each) and general electives (5 to 10)
History	AS Level	Humanities or social science distribution in history (7.5)
Japanese - Language	AS Level	World language (5) and humanities distribution (2.5)
Marine Science	A Level	Natural science distribution, with lab (10) and general electives (5)
Marine Science	AS Level	Natural science distribution, with lab (7.5)
Mathematics	A Level	MATH& 151 (5), MATH& 152 (5), and mathematics electives (5)
Mathematics	AS Level	Mathematics electives (7.5)
Mathematics - Further	A Level	MATH& 146 (5), MATH& 153 (5), and mathematics electives (5)
Mathematics - Further	AS Level	Mathematics electives (7.5)
Media Studies	A Level	Humanities distribution in communication (10) and general electives (5)
Media Studies	AS Level	Humanities distribution in communication (7.5)
Music	A Level	Humanities distribution in music (10) and general electives (5)
Music	AS Level	Humanities distribution in music (7.5)
Physical Education	A Level	General electives (15)

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NAME	SCORE	MINIMUM CREDITS
Physical Education	AS Level	General electives (7.5)
Physics	A Level	PHYS& 124, PHYS& 125, and PHYS& 126 (15)
Physics	AS Level	Natural science distribution in physics, with lab (7.5)
Psychology	A Level	PSYC& 100 (5), social science distribution in psychology (5), and general electives (5)
Psychology	AS Level	Social science distribution in psychology (7.5)
Sociology	A Level	SOC& 101 (5), social science distribution in sociology (5), and general electives (5)
Sociology	AS Level	Social science distribution in sociology (7.5)
Spanish	A Level	SPAN& 121, SPAN& 122, and SPAN& 123 (15)
Spanish - Language	AS Level	General electives (7.5)
Spanish - Literature	AS Level	Humanities distribution (7.5)
Thinking Skills	A Level	Humanities or social science distribution in philosophy (10 in one or 5 in each) and general electives (5 to 10)
Thinking Skills	AS Level	Humanities or social science distribution in philosophy (7.5)

INTERNATIONAL BACCALAUREATE EXAM SCORES

IB SL OR HL EXAMINATION	SCORE	PROPOSED MINIMUM CREDITS
African History	4 5-7	Elective (5) Distribution Credit (5) *Social Science or Humanities based on institutional placement of History discipline.*
American History	4 5-7	Elective (5) HIST& 146, HIST& 147, HIST& 148 (5)
Language A Arabic A, Chinese A, French A, Japanese A, Russian A, Spanish A	4 5-7	Elective (5) Humanities distribution: World Language (5)
Language B Arabic B, Chinese B, French B, Japanese B, Russian B, Spanish B	5-6 7	Humanities distribution: World Language (5) Humanities distribution: World Language (10)
Art/Design	4 5-7	Elective (5) Humanities distribution (5)
Biology	4 5-7	Elective (5) BIOL& 100, BIOL& 160 (5)
Business Management	4-7	Elective (5)
Chemistry	4 5 6-7	Elective (5) CHEM& 121, CHEM& 161 (5) CHEM& 121, CHEM& 161, CHEM& 162 (5)
Computer Science	4-7	Elective (5)

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IB SL OR HL EXAMINATION	SCORE	PROPOSED MINIMUM CREDITS
Design Technology	4 5-7	Elective (5) ENGR& 104 (5)
East/Southeast Asia and Oceania History	4 5-7	Elective (5) Distribution Credit (5) *Social Science or Humanities based on institutional placement of History discipline.*
Economics	4 5 6-7	Elective (5) ECON& 201 (5) ECON& 201, ECON& 202 (10)
English A Literature	4 5-7	Elective (5) ENGL& 111 (5) or Humanities distribution (5)
European History	4 5-7	Elective (5) HIST& 116, HIST& 117, HIST& 118 (5)
Geography	4 5-7	Elective (5) GEOG& 200 (5)
Global Politics	4-7	Elective (5)
Information Technology in a Global Society	4-7	Elective (5)
Mathematics	4 5-6 7	Elective (5) MATH& 142 (5) MATH& 151 (5)
Further Mathematics	4 5-7	Elective (5) MATH& 151 (5)
Music	4 5-7	Elective (5) MUSC& 105 (5)
Philosophy	4 5-7	Elective (5) PHIL& 101 (5)
Psychology	4 5-7	Elective (5) PSYC& 100 (5)
Social and Cultural Anthropology	4 5-7	Elective (5) ANTH& 206 (5)
Sports, Exercise, and Health Science	4-7	Elective (5)
Theatre	4 5-7	Elective (5) DRMA& 101 (5) or Humanities distribution (5)
Visual Arts	4 5-7	Elective (5) ART& 100 (5)

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Military Service Schools

At Skagit Valley College (SVC), we use the following procedures to ensure every veteran receives the maximum amount of college credit for military training possible. Military credits are considered to be "non-traditional" credits.

- SVC evaluates every civilian and military transcript received from active duty military and veterans pursuing an education at SVC.
- SVC accepts the Joint Service Transcript (JST) as an official education transcript.
- SVC uses the American Council on Education (ACE) "A Guide to the Evaluation of Educational Experiences in the Armed Services" as a guide. ACE translates military courses and occupations into academic credit recommendations and provides guidelines to interpret and recommend credit for college courses.
- For the Associate in Arts Direct Transfer Agreement (DTA) degree, the Associate in Business DTA degree and the Associate in Pre-Nursing DTA degree, a maximum of up to 15 non-traditional credits may be applied to the Physical Education requirement and to the "gray area" elective requirements.
- For the Associate in Science transfer degrees and the Associate in Biology DTA, a maximum of up to 6 non-traditional credits may be applied to the "gray area" elective requirements.
- For the Associate in Applied Sciences degrees and/or certificate programs, a maximum of up to 30 non-traditional credits may be applied toward departmental requirements as approved by the department chair and appropriate dean.
- For the Associate in Arts General Studies degree, a maximum of up to 45 credits for non-traditional learning may be granted: a maximum of 32 credits may apply to the "gray area" elective requirements, 3 credits may apply to the Physical Education requirement, and 10 credits may apply to the Science and Technology requirement.
- In some circumstances, minimum resident credits requirements may be waived for active duty military personnel pursuing an SVC program.
- For academic/transfer programs, military courses marked with "V", "U" or "G" are generally not accepted. For some professional/technical programs, military courses marked with "V", "U" or "G" are accepted on a case-by-case basis as determined by the department chair and/or appropriate dean.
- Any remaining ACE credits on transcripts that do not match any courses in pursuit of any program of study will be accepted as elective credits whenever possible.
- All military credits must be reviewed and evaluated for a student's current program of study by the end of their 3rd quarter.
- VA students may not opt out of a transcript evaluation.
- A list of professional/technical career pathways that enables students to learn about options and opportunities to navigate their own education and career plans can be found on the SVC website.

Waiver

Through the Waiver of Requirements process, a student asks the college to waive a particular program requirement due to successful completion of another post-secondary course, or equivalent coursework, which overall constitutes equal content. The minimum credit requirement is still required to complete a degree or certificate program.

Transferring in Credit

FROM OTHER COLLEGES

Official transcripts from regionally accredited colleges and/or universities, or other learning experiences will be evaluated upon request. The following types of courses do not transfer, regardless of an institution's accreditation: remedial courses and developmental coursework, however, these courses may be used for placement purposes; courses that provide instruction in a particular religious doctrine; and non-credit continuing education courses. Courses not applicable for distribution requirements are assigned as elective credit up to the maximum allowable. If there are questions of interpretation in designating distribution credits for classes taken previously, you may apply to the appropriate instructional dean for review.

Credits transferred from another institution are not included in any SVC GPA calculation.

APPLICATION OF CREDITS TO THE AA-DTA DEGREE

Credits transferred in from other regionally accredited colleges, SVC professional/technical programs, and credits earned by students who had a break in enrollment for two years.

1. Students transferring 45 or more applicable college credits are exempt from the Integrative Learning Experience and Diversity course requirements.
2. Students transferring 30-44 applicable college credits are required to complete one Integrative Learning Experience and one Diversity course.
3. Students transferring 0-29 credits are required to complete two Integrative Learning Experiences and one Diversity course.

Application of Non-Traditional Credit

Associate in Arts - Direct Transfer Agreement (AA-DTA)
Associate in Business DTA/MRP
Associate in Pre-Nursing DTA/MRP

A maximum of 15 credits through examination, independent study, CLEP, military programs, or professional/technical credits may be applied only as elective credits.

Associate in Science - Track 1 and 2
Associate in Biology DTA/MRP Degree

A maximum of 6 credits through examination, independent study, CLEP, military programs, or professional/technical credits may be applied only as elective credits.

Associate in Arts (AA) General Studies

A maximum of 45 credits may be applied toward the distribution requirements (subject areas) or as elective credits.

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Associate in Applied Science Degree or Certificate Programs

A maximum of 30 credits may be applied if approved by the department chair and appropriate instructional dean.

CATALOG UNDER WHICH COURSEWORK WILL BE EVALUATED

Students continuously enrolled fall through spring will be evaluated under the requirements in effect at the time of initial enrollment. Students not enrolled for a minimum of one quarter (excluding summer) will be evaluated under the requirements in effect at the time of re-enrollment.

If a student has applied for a diploma and has not met requirements in effect at the time of initial enrollment or under the requirements in effect when they applied for a diploma, but would meet requirements under the certificate or degrees currently in effect, they will be evaluated under the most recent requirements, regardless of their enrollment status. This catalog is in effect from Summer 2023 to Spring 2024.

Final Grade Reports

At the end of each quarter, grades are available online at MySVC and are not mailed. Unofficial Transcripts are available online at MySVC. Official transcripts are available by submitting a transcript request though the Student Clearinghouse at **www.getmytranscript.com**.

I (Incomplete)

An "I" or incomplete grade may be given at the end of a quarter, where in the judgment of the instructor, the student should have reasonable expectation of passing the course, but has not completed the required work to justify assignment of a grade. The student must make appropriate arrangements to complete the missing work. This work must be completed within one quarter (Summer Quarter excluded), or an "F" (fail) will automatically be assigned. An Incomplete Contract should be completed between the instructor and student identifying all remaining coursework.

N (Audit)

Students may audit a course with the permission of the instructor and the Dean of Enrollment Services. An audit grade of "N" indicates the student has registered in, paid for, and attended a course without writing examinations, submitting work, papers, lab reports, etc. Attendance is required.

P (Pass)

A Pass (P) grade may be assigned in lieu of all grades from A to D. A "P" grade would be assigned after consultation between the student and the instructor, and indicated pass, with credit, but grade points are not calculated in the GPA.

V (Ceased Attendance)

Students who register for a Community Education course and cease attendance, but do not withdraw, may be awarded a "V" grade by the instructor. The "V" grade is not counted in the calculation of the GPA.

W (Withdrawal)

During the first two weeks of the quarter, students may officially withdraw from a Course without notation on the permanent student record.

From week three through the Friday before Finals week, students may officially withdraw from a course with a "W" noted on their permanent student record. The Last day to withdraw from all courses is the Last day of Finals week.

Y (In Progress/Re-Register)

Students enrolled in Basic Education for Adults (CCB, ELA, HSC) and Academic English as a Second Language (AESL) courses may be assigned a "Y" grade, when the instructor deems the student has been actively working but has not yet achieved a sufficient skill level to justify a passing grade.

R (Course Repeated)

The course has been repeated and the lowest grade and grade points have been removed from the GPA calculation. Students must request a "repeat card" at the time of registration.

**** (Statute of Limitations)***

If a "D" or "F" is marked with an asterisk (*), the grade has been removed from the GPA calculation by the Statute of Limitations. The Statute of Limitations is also noted as a post-quarter comment. See Statute of Limitations under Academic Standing.

Grade Changes

All grade changes must be submitted by the instructor on the Grade Change Form located in the Instructor briefcase.

The following time limits have been established regarding grade changes:

- Grade changes MUST be made within two quarters of the original registration.
- Grade changes will not be made after two quarters, unless documentation can be provided to the Registrar by the instructor that the grade was awarded in error.
- Grade changes will be made at any time if due to recording error. Students are advised to contact the instructor immediately if a grade has been recorded incorrectly. Errors and omissions will be corrected as soon as identified without cost to the student.

Grade Point Average (GPA)

Grade Point Average (GPA) is calculated by dividing the total grade points received by the total grade point credits attempted. Please refer to Grading Information for the grades assigned for each letter grade, e.g., A = 4.00, B = 3.00 grade points.

When Incomplete (I) grades are replaced with letter grades, grade points and credit hours attempted are added to the formula to compute the new GPA.

Please note: the Cumulative GPA includes all courses taken, at any level, for which a grade was assigned. College-Level GPA includes only courses numbered 100 and above. Credits

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transferred from another institution are not included in any SVC GPA calculation.

Examinations

All students are required to take regularly scheduled tests and examinations as prescribed by the instructor. If you miss an examination, it is your responsibility to contact the instructor and, if permitted by the course syllabus, schedule a makeup test as soon as possible.

Final examinations are held at the end of each quarter and are listed in the Final Examination Schedule. Permission for a special test or examination must come from the instructor.

Class Add/Drop

- All changes of program (class adds or drops) must be recorded by Enrollment Services.
- All course adds in sequential courses must be made prior to the 10th instructional day of the quarter unless approved.
- Continuous enrollment courses may be added anytime unless they are closed because of class limits. See also Grading Procedures.

Academic Standing

THE ACADEMIC STANDING OF ALL STUDENTS IS BASED ON THE FOLLOWING:

HONOR ROLL

At the conclusion of each quarter, each student's grade point average is computed. Those students who obtain a grade point average of 3.75 or better and have carried a 12-credit load or more in graded courses are placed on the Honor Roll for the quarter.

STATUTE OF LIMITATIONS

Currently enrolled SVC students making satisfactory progress, cumulative GPA of 2.0 or above, who were not enrolled at SVC for a period of two or more consecutive years, may petition to have previously earned low grades (D, E, F) removed from their grade point calculation by making a written request to Enrollment Services. The classes will remain in the student's permanent record; however, they cannot be used toward degree completion. Grades received for these courses will not be included in the Cumulative Grade Point Average. For Financial Aid purposes, all credits will still be counted when determining a student's Satisfactory Academic Progress.

ACADEMIC STANDARDS POLICY

The provisions of this policy will be applicable to students enrolled in courses or programs after the tenth instructional day of any quarter.

GOOD STANDING

A student who has a quarterly Grade Point Average (GPA) of 2.0 or higher and cumulative GPA of 2.0 or higher will be in Good Standing.

ACADEMIC ALERT

A student who has a quarterly Grade Point Average (GPA) below 2.0 for one quarter will be placed on Academic Alert

Academic Alert status will be removed at the end of any subsequent quarter during which a student acheives a quarterly GPA of 2.0 or higher.

ACADEMIC PROBATION

If a student while on Academic Alert whose overall College-Level Grade Point Average (GPA) falls below 2.0 in the subsequent quarter of his/her enrollment at the college, he/she will be placed on academic probation.

Any student placed on academic probation shall be removed from such status at the conclusion of any quarter during which the student has achieved an overall college-level grade point average of 2.0 or higher.

DROPPED: LOW SCHOLARSHIP

If a student is on academic probation, and they earn quarterly Grade Point Average (GPA) below 2.0 in the subsequent quarter of their enrollment at the college, they will be dropped from enrollment.

A student who has been dropped for low scholarship once, who A student who successfully petitions for re-entry and then receives a grade point average of below 2.0 during the quarter of re-enrollment, will be dismissed from SVC for one year.

READMISSION

A student who has been dismissed for academic reasons set forth in this policy may submit a 'Petition for Readmission' form at reinstatementpetions@skagit.edu after consulting with their advisor.

If the petition is approved by the Dean of Enrollment Services, the student will be readmitted on academic probation and will remain on probation until the student's cumulative GPA exceeds 2.0.

TIME TO DEGREE COMPLETION

Pursuant to E2SSB 5135 SVC has developed polices to ensure enrolled undergraduates complete degree and certificate programs in a timely manner. These policies address:

- Students who accumulate more than 125% of the number of credits required to complete their respective associate degree or certificate programs;
- Students who drop more than 25% of their course load before the grading period for the quarter or semester, which prevents efficient use of instructional resources; and
- Students who remain on academic probation for more than one quarter or semester.

ABSENCES

Students are responsible to the instructor of the course for attendance. An absence due to serious illness or a death in the immediate family may be excused. Even with an excused absence students will be required to make up the content and assignments missed during the absence. In all cases, students must communicate directly with the instructor regarding attendance (refer to the class syllabus).

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Absences due to participation in field trips, intercollegiate games and other trips arranged by the college, may be excused with advance notice to the instructor.

SVC will grant reasonable accommodation so that grades are not impacted for students who are absent for reasons of faith or conscience, or for an organized activity conducted under the auspices of a religious denomination, church, or religious organization. Such absences must be requested in writing within the first two weeks of the quarter and may not incur additional fees for students. Students' grades may not be adversely impacted by absences authorized under this policy.

Each holiday taken under this policy must be taken as a whole day, that is, the day may not be divided into hours and taken piecemeal. For information, see Student Absences for Reasons of Faith or Conscience .

Withdrawal from SVC

A student may withdraw from SVC, through the fifth day of the quarter through ctcLInk Student Self- Service or by submitting a completed add/drop form at Enrollment Services. After the fifth instructional day of the quarter students must complete an add/drop form and submit it to Enrollment Services in person or notify Enrollment Services from their SVC student account via email at enrollment@skagit.edu. informing Enrollment Services staff that they wish to be withdrawn from the college. If a student stops attending class without officially withdrawing, they will remain on the roster and recieve a grade accordingly.

Refund Policy

The following rules address refunds of student tuition and fees:

- A full refund is given for any course cancelled by the college. It is the student's responsibility to officially notify Enrollment Services of drop status within the refund period.
- Refunds for withdrawal from classes will be made as follows:
  - 100% refund if a student officially withdraws through the fifth officially scheduled instructional day of the quarter, other dates apply for Summer Quarter, please refer to the Academic Calendar for dates.
  - 50% refund if a student officially withdraws after the fifth instructional day of the quarter and through the tenth instructional day of the quarter, other dates apply for Summer Quarter, please refer to the Academic Calendar for dates.
  - For course sections starting prior to the first officially scheduled day of the quarter or after the fifth officially scheduled day of instruction for the quarter, refunds will be calculated for each course section consistent with the above schedule, but using the first day of class in place of the first officially scheduled day of the quarter as used above.
- The first official day of class for E-Learning is the first day of the quarter.

Per RCW 28B.15.605, no refunds will be given beyond the 20th calendar day of the quarter except as stated in RCW 28B.15.605.

Continuing and Community Education

Continuing and Community Education (CCE) courses are not eligible for college credit. Participants must register and pay in full for these courses prior to the first day of class. A student will receive a 100% refund if the college cancels the class or if the student officially withdraws two (2) business days prior to the first class meeting. No refund will be given thereafter. Material fees will not be refunded. Exceptions must be approved by the Continuing and Community Education Director.

The CCE program is self-sustaining and not eligible for waivers. For more information, contact the Continuing and Community Education Office at 360.416.7638 or at communityed@skagit.edu.

Fines and Other Financial Penalties

In order to collect outstanding parking fines, library fines and obligations, or other institutional commitments, the college may refuse to re-enroll a student as is deemed necessary. The student may request an informal hearing on the refusal of services. For more information, see the Dean of Enrollment Services.

Instructional Complaints

If a student feels that they have been treated unfairly inside or outside of the classroom, they may follow the procedures outlined in the Code of Student Rights and Responsibilities. The Code of Student Rights and Responsibilities is found on the SVC web page **skagit.edu/studentrights** and is available in the Enrollment Services Office and the Office of Student Life on the Mount Vernon Campus, and in the Student Services Office on the Whidbey Island Campus.

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Skagit Valley College (SVC) offers academic transfer pathways, workforce education degrees and certificates, basic education for adults, and lifelong learning opportunities. SVC is committed to equity as its framework in providing access, supporting achievement, and strengthening the community. SVC will take steps to ensure that the lack of English language skills will not be a barrier to admission and participation in all educational programs.

SVC provides a drug-free environment and does not discriminate on the basis of race, color, religion, national origin, sex, gender identity, sexual orientation, disability, marital status, or age in its programs and employment.