SVC | Skagit Valley College

CATALOG 2020-2021

TOC General Chapters

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Credits and Disclaimers

This edition of the Skagit Valley College Catalog is effective beginning with Summer Quarter, 2020, through Spring Quarter, 2021. Every effort has been made to ensure the accuracy of the information containedin 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.

Skagit Valley College catalogs, class schedules, web site, fee schedules, etc., 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.

This catalog was produced by the SVC Marketing and Communications Office, May 2020.

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

Academic Calendar

SUMMER QUARTER 2020....JULY 6 TO AUGUST 27

Tuition Due.....June
All Classes Begin.....July 6
Last Day to withdraw without a "W" notation on Transcript ...July
Last day to drop a class.....August
Finals Week..... No Finals Week
Session A Classes End.....August 6
Session B Classes End..... August 27

FALL QUARTER 2020SEPTEMBER 22 TO DECEMBER 11

Tuition Due.....September
Classes Begin..... September 22
Last Day to withdraw without a "W" notation on Transcript
..... October
Veterans Day (Holiday) .....November 11
Thanksgiving Recess (Holiday) .....November 26-27
Last Day to drop a class ..... December
Finals Week..... December 7 to 11
Last day of classes ..... December 11
Winter Break.....December 14 to January 1

WINTER QUARTER 2021JANUARY 4 TO MARCH 19

Tuition Due..... December
Classes Begin..... January 4
Martin Luther King Day (Holiday)..... January 18
Last Day to withdraw without a "W" notation on Transcript
..... January
Last Day to drop a class ..... March
Finals Week..... March 15 to 19
Last day of classes ..... March 19
Spring Recess.....March 22 to April 2

SPRING QUARTER 2021..... APRIL 5 TO JUNE 18

Tuition Due..... March
Classes Begin.....April 5
Last Day to withdraw without a "W" notation on Transcript .April
Memorial Day (Holiday) ..... May 31
Last Day to drop a class ..... June
Finals Week..... June 14 to 18
Last day of classes ..... June 18

1 About Our College

President's Message

Whether you are training for a new job, beginning your college experience, finishing the degree you started, adding English language skills, or pursuing a high school credential, thank you for choosing Skagit Valley College. SVC is making a difference throughout Skagit, Island, and San Juan counties by providing access to higher education for all who seek a better future.

Part of what makes our College special is that we are deeply committed to equity in access, achievement, and community. I am proud that we have created a diverse learning environment where everyone is welcomed and valued. So, no matter what your background, skill level, or life experiences are when you begin your academic journey, you will receive the support you need to succeed. Our faculty and staff are ready to meet you where you are right now. We have adapted our instruction, services, and resources to meet your needs and support the health and safety of the SVC community.

As a proud SVC alum, I had excellent instructors, advisors, and coaches who guided and mentored me while I earned my Associate in Arts degree. The SVC community became the cornerstone of my college experience and it is what inspired me to pursue a career in higher education. My hope is that your experience at Skagit will be just as transformational as mine was for me.

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

Dr. Thomas A. Keegan
President, Skagit Valley College

Mission

Skagit Valley College 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 Skagit Valley College 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;
- The 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

Skagit Valley College 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

Skagit Valley College 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.

1 About Our College

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 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 two centers: San Juan Center in Friday Harbor and the Marine Technology Center in Anacortes.

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 **www.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 & Scholarships in this catalog.

Diverse Course & 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've 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 Skagit Valley College are dedicated to helping you achieve the well-rounded education and up-todate 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 may 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

Skagit Valley College 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 & 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 & Effectiveness Office at 360.416.7738 for more information.

2 The SVC Advantage

3 Enrollment Services

Eligibility

Skagit Valley College 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:

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 be conditionally admitted. Students who seek to be conditionally admitted must receive permission to enroll from the high school district in which you reside and the Skagit Valley College Associate Dean of Enrollment Services.

Students are admitted to SVC in the order applications are received. During registration, if a course fills, students who could not enroll in the course may place themselves on a wait list. As vacancies occur, students on the 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 Skagit Valley College Application, available online through the SVC website. Learn more about your steps to becoming a Cardinal here: www.skagit.edu/getstarted.

Running Start

To become a Running Start student, students should speak with their high school counselor or and review the website www.skagit.edu/runningstart. 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 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 www.skagit.edu/getstarted for more information and current registration dates. The SVC Quarterly Schedule is available online at www.skagit.edu/schedules. Students who plan to enroll in any courses that require pre-requisite courses or skills must complete an assessment to determine eligibility. This may be completing assessment exams or providing transcripts from prior institutions.

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 Skagit Valley College 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.

3 Enrollment Services

Students from throughout the world choose Skagit Valley College for many reasons including:

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

International students may apply with or without TOEFL scores.

APPLICANTS WITHOUT TOEFL SCORES

Strong skills in English help ensure success in other classes. Students without TOEFL scores will be given a placement test before registering for classes. Students whose test results show skills adequate for college work will be excused from the Academic Intensive English Program (AIEP). Others will be required to take AESL classes within the AIEP until the language requirement has been met.

APPLICANTS WITH TOEFL SCORES

- TOEFL scores below iBT 45, CBT 133, or PBT 450: Students will be required to take Intensive English courses until they are adequately prepared for Bridge Levels. Students at Bridge Levels are considered matriculated college students.
- TOEFL scores iBT 45-52, CBT 133-150, or PBT 450-473: Students will be accepted into Bridge 1, which allows students to begin their college degree program with support from the AIEP.
- TOEFL scores iBT 53-60, CBT 153-170, or PBT 477-497: Students will be accepted into Bridge 2, which allows students to begin their college degree program with support from the AIEP.
- TOEFL scores iBT 61, CBT 173, or PBT 500 and above: Students are waived from the AIEP and will begin to work directly on their degree.

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

- Complete the on-line international Student Application
- Submit official bank statement and complete Certificate of Financial Responsibility (sponsor letter), located on the back of the application. (See www.skagit.edu/international for current costs.)
- Submit official transcripts from high school and any previous colleges, including any ESL training.
- Copy of picture page in passport
- If applicable, include a TOEFL score.** The SVC code for your TOEFL score is 4699.
- $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 Skagit Valley College should also submit:

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

FOR MORE INFORMATION:

Phone: 360.416.7891 | Fax: 360.416.7868
E-mail: internationaladmissions@skagit.edu
Web: www.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:

3 Enrollment Services

8. Students must prove conclusively that they have not come to Washington State primarily for educational purposes.
9. Students must live in the state for at least 12 consecutive months as legal residents. A legal resident is an individual who has relinquished all valid legal ties (e.g., driver's license, voter registration, vehicle registration, etc.) with their former state of residence and established such ties in Washington.
10. Establish legal ties:
    - 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
    - Establish a bank account in Washington.
    - 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.

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

Mount Vernon Campus ····· 360.416.7700
Whidbey Island Campus···· 360.675.6656

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.

STUDENT ELIGIBILITY TO PAY IN-STATE TUITION

RCW 28B.15.012(e) (commonly referred to as HB 1079) which took effect July 1, 2003 allows people who are not documented as citizens to attend college paying in-state tuition. Eligibility: People who have resided in Washington State for the three years immediately prior to receiving a high school diploma and completed the full senior year at a Washington high school or who have completed the equivalent of a high school diploma and resided in Washington State for the three years immediately before receiving the equivalent of the diploma and who have continuously resided in the state since earning the high school diploma or its equivalent. For more information please contact Enrollment Services, 360.416.7700.

3 Enrollment Services

4 Support Services

Counseling & Advising Services

Mount Vernon Campus ····· 360.416.7654
Whidbey Island Campus···· 360.679.5319
San Juan Center ·····360.378.3220
Website:
www.skagit.edu/student-resources/counseling-career-center

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 chooseing quartlery courses contact Counseling and Advising Services at the phone numbers or web pagelisted above.

For on campus employment options an online job board lists current work opportunities, you will also find some employment opportunites posted on the job board within the Counseling and Advising offices.

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, Skagit Valley College will honor the highest of your course placements. Therefore, you want to make sure to review all your options. Goonlineto learn more information about each option.

Most new degree seeking students are required to completea First Quarter Experience during their first Quarter, this may beCSS 103, BUS& 101, or CSS 110depending 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 aneducation-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 Quarterat 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

Mount Vernon Campus ····· 360.416.7654
Whidbey Island Campus···· 360.679.5319
San Juan Center ·····360.378.3220
Website:
www.skagit.edu/student-resources/counseling-career-center

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 adviser.

TRIO Student Support Services Program

Mount Vernon Campus ····· 360.416.7636
Whidbey Island Campus···· 360.679.5393

TRIO Student Support Servicesis a federally funded program, one of more than 900 similar programs nationwide. TRIO staff and peer tutors provide a broad range of academic support services to first generation and economically disadvantaged students and students with disabilities. Our purpose is to teach students how to navigate the college system, identify their educational goals and achieve academic success. The following services are free to eligible students:

- **Tutoring**
  Our skilled student tutors provide one-on-one tutoring to help you excel in math, science, English and many other classes.

4 Support Services

- **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.
- **Academic Planning& 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 instructors 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.

With the exception of the instructional components, similar services are available at the Whidbey Island Campus.

Tutoring

Mount Vernon Campus ····· 360.416.7852
Whidbey Island Campus···· 360.679.5393

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 at either the Whidbey Island Campus or Mount Vernon campus 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

Skagit Valley College 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

Mount Vernon Campus ····· 360.416.7654
Whidbey Island Campus···· 360.679.5393
San Juan Center ·····360.378.3220

Skagit Valley College 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 & Inclusion Services

Mount Vernon Campus ····· 360.416.7938
Front Desk····· 360.416.6744
Director ····· 360.416.7938

Services available in Spanish (Servicios disponibles en español)

The Office for Student Equity & 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

4 Support Services

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 OSElis located in the Gary Knutzen Cardinal Center within the Center for Student Leadership, Diversity and Involvement (C-190).

THE OFFICE FOR STUDENT EQUITY & INCLUSION SERVICESOFFERS

- Monthly heritage events (i.e., 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. To learn more call 360.416.7849 or email aaron.kirk@skagit.edu.

International Programs

Mount Vernon Campus ····· 360.416.7734

Skagit Valley College 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 SEVIS (Student & Exchange Visitor Information System) that has been created by the Department of Homeland Security.

Learning Resources

TECHNOLOGY FOR YOUR USE

Skagit Valley College 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, e-mail, chat and the walk-in window, as well as various online and face-to-face tutoring sessions. Help and training is 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····· http://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 78,000print, 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 e-mail 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)

4 Support Services

- 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.

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.

Childcare and Emergency 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 Skagit Valley College (i.e. 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 whom you are responsible for caring for. Childcare providers must be licensed by the Washington State Department of Early Learning. Do not include children over the age of 12. Must meet income guidelines to qualify.

FOR MORE INFORMATION:

Mount Vernon Campus
Estevan Vivanco Meza | estevan.vivancomeza@skagit.edu
360.416.7860
Katelynn Orellana | katelynn.orellana@skagit.edu
360.416.7856

Whidbey Island Campus
Debbie Wysomierski | debbie.wysomierski@skagit.edu
360.679.5320

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)
- Books ($333 per quarter)

FOR MORE INFORMATION:

Mount Vernon Campus
Katelynn Orellana | katelynn.orellana@skagit.edu
360.416.7856

Whidbey Island Campus
Debbie Wysomierski | debbie.wysomierski@skagit.edu
360.679.5320

Housing - Mount Vernon Campus

Mount Vernon Campus ····· 360.416.7650

Campus View Villageis 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 serve basis, so apply early! For more information about on-campus housing or to fill out an application, visitwww.skagit.edu/cvv, email usmv.cvv@skagit.edu, or call 360-416.7650. Hours are 8am-7pm, 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.

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, Skagit Valley College insignia items and clothing, backpacks, and art materials.

At the end of each Quarter, the bookstore offers a textbook buyback 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.

4 Support Services

4 Support Services

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, or you can call one of the following numbers For more information:

- 360.416.7600 (Mount Vernon)
- 360.679.5330 (Whidbey Island)
- 360.378.3220 (San Juan)

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	$109.99	$165.40	$287.86
2	$219.98	$330.80	$575.72
3	$329.97	$496.20	$863.58
4	$439.96	$661.60	$1,151.44
5	$549.95	$827.00	$1,439.30
6	$659.94	$992.40	$1,727.16
7	$769.93	$1,157.80	$2,015.02
8	$879.92	$1,323.20	$2,302.88
9	$989.91	$1,488.60	$2,590.74
10	$1,099.90	$1,654.00	$2,878.60
11	$1,154.32	$1,793.27	$2,940.27
12	$1,208.74	$1,932.54	$3,001.94
13	$1,263.16	$2,071.81	$3,063.61
14	$1,317.58	$2,211.08	$3,125.28
15	$1,372.00	$2,350.35	$3,186.95
16	$1,426.42	$2,489.62	$3,248.62
17	$1,480.84	$2,628.89	$3,310.29
18	$1,535.26	$2,768.16	$3,371.96
19	$1,634.19	$2,896.04	$3,648.76
20	$1,733.12	$3,023.92	$3,925.56

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	$214.84	$325.64	$614.26
2	$429.68	$651.28	$1,228.52
3	$644.52	$976.92	$1,842.78
4	$859.36	$1,302.56	$2,457.04
5	$1074.2	$1,628.20	$3,071.30
6	$1289.04	$1,953.84	$3,685.56
7	$1503.88	$2,279.48	$4,299.82
8	$1718.72	$2,605.12	$4,914.08
9	$1933.56	$2,930.76	$5,528.34
10	$2148.4	$3,256.40	$6,142.60
11	$2159.02	$3,555.91	$6,153.99
12	$2169.64	$3,855.42	$6,165.38
13	$2180.26	$4,154.93	$6,176.77
14	$2190.88	$4,454.44	$6,188.16
15	$2201.5	$4,753.95	$6,199.55
16	$2212.12	$5,053.46	$6,210.94
17	$2222.74	$5,352.97	$6,222.33
18	$2233.36	$5,652.48	$6,233.72
19	$2437.14	$5,940.60	$6,836.92
20	$2640.92	$6,228.72	$7,440.12

Fees

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

ADDITIONAL FEES

CCB-ELA-HSC21 Fee.....$25.00 per person per quarter

STUDENT FEES

Student Technology Fee.....$5.00 per credit ($40.00 maximum)
General Use Fee.....$4.50 per credit ($67.50 maximum)
Universal Technology Fee.....$10 per credit
Student Building Fee.....$1.50 per credit ($15 maximum)
State Classified Employees.....$20.00
Replacement Diploma.....$10.00

Class Fees (per quarter)

ALLIED HEALTH EDUCATION (AHE)

AHE 105, 110, 200.....$50
AHE 114.....$150
AHE 133,135.....$75
AHE 101.....$20
AHE 132, 134.....$25
AHE 106.....$75
AHE 107,108,113,115,120, 122, 123.....$125
AHE 117.....$300
Allied Health and Nurse Name Tag Replacement.....$5

Art Studio.....$40

AUTOMOTIVE TECH (AAS)

AT 101, 201.....$75
AT 206.....$100
AT 104, 105.....$40
AT 121, 131, 207, 210, 215.....$175
AT 107, 124, 133, 205, 212, 220, 225.....$200
AT 141.....$300

BASEC LAB FEES

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

BASAM FEES

BASAM 324, SOC 420, BUS 450.....$5
BASAM 332, BUS 410, PSYC 412.....$10
BASAM 30i1, 334.....$15

Biological Sciences 205, Summer Field Study Course Fee.$1000

COMPOSITES LAB FEE

CMPST 121, 123, 126, 127, 128, 129, 130, 220.....$200

COMPUTER INFORMATION SYSTEMS (CIS)

CIS 180, 221, 222, 223, 233.....$100
CIS 104, 105, 114, 118, 145, 146, 147, 148, 150, 240, 241, 242, 243.....$5

5 Tuition, Financial Aid, and Funding

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

CRIMINAL JUSTICE LAB FEES
- CJ 215 ... $35
- Parks Law Enforcement Academy - PRLEA | CJ 241 ... $1,550
- Police Reserve Academy - BLERA | CJ 236 ... $325

CULINARY ARTS
- CUL 237, 298 ... $125
- CUL 165, 174, 185, 238, 239, 240, 241, 242 ... $200

DENTAL ASSISTANT
- DEN 110, 112, 114 ... $50

Desert Odyssey Learning Community ... $1,000

DIESEL
- DSL 102, 103 104, 202, 203, 204 ... $150

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

EARLY CHILDHOOD ED (ECED, EDUC):
- ECED& 105, 160, 190 ... $10
- EDUC& 122 ... $10

ENGLISH MOUNT VERNON LAB FEE:
- 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
SOSC 100 ... $10
DRMA(&) 101, 236, 237, 238 ... $10
MUSC(&) 105, 127, 128, 129 ... $10
POLS& 101,102 ... $10
PHIL(&) 101,115 ... $10
ART(&) 100, 142, 143, 144, 160 ... $10
PSYC& 100 ... $10
Environmental Science 101 Summer Field Study Course Fee .. $500

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

ENVIRONMENTAL SUSTAINABLE AGRICULTURE
- ENVAG 101, 103, 106, 224, 227, 228, 231, 270, 271, 298 ... $75

FIRE SCIENCE FEES
- FIRE 119 ... $520
- FIRE 120 ... $825
- FIRE 121 ... $250
- FIRE 122 ... $350
- FIRE 126 ... $55
- FIRE 130 ... $30
- FIRE 140 ... $100
- FIRE 160 ... $260
- FIRE 240 ... $120
- FIRE 242, 243 ... $140
- FIRE 246 ... $68
- FIRE 247, 248 ... $70

Flagging ID Card Replacement ... $5

GENERAL LIABILITY INSURANCE COVERAGE
- AHE 103, 116, 130, 136 ... $2.50
- ALL PHARM ... $2.50
- ALL HFT ... $2.50
- ALL NCTA DEN/VETA ... $2.50

GEOGRAPHIC INFORMATION SYSTEMS LAB FEE
- GIS 101, 102, 105, 106, 202, 203 ... $30

HEALTH & FITNESS
- Health & Fitness Lab ... $20
- HFT 100, 107 ... $20

Life Drawing ... $40

MANUFACTURING
- MANF 110, 121, 140, 145, 150, 156 ... $35
- MANF 103, 122, 125, 177, 210, 215, 250, 256 ... $70
- MANF 120 ... $75
- MANF 115,190, 205 ... $100

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

Math Lab Course Fee ... $22
MIT 205 - NCTA Fee ... $20

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
- Music Lesson Course Fee ... $550

Natural Science Field Study Course Fee ... $1000

NURSING
- NURS 100 (NAC) Lab Fee ... $75
- NURS 285, 288, 294, 298 ... $30
- NURS 173, 273 ... $360
- NURS 276, 279 ... $180
- NURS 171, 181, 191, 271, 274, 281, 284, 287 ... $50
- NURS 182, 192, 282, 292 ... $60
- NURS 291, 297 ... $485
- NURS 294 ... $80

NURSING/MEDICAL ASSISTANT/PHARMACY TECH MALPRACTICE INSURANCE (PER YEAR)
- NURS 100, 171, 275, 281, 294 ... $18.50

Nutrition Lab fee ... $20

OFFICE AND BUSINESS TECHNOLOGY FEES
- OBT 98, 99, 115, 116, 118, 122, 124, 126, 132, 134, 135, 160, 161, 162, 204, 210, 215, 232, 244 ... $10
- ACCT 142, 145, 146, 244 ... $10
- OBT 140 ... $15
- ACCT 242 ... $50

PHYSICAL EDUCATION LAB FEE
- PE all ... $3
- PE 105, 106, 107, 167 ... $10
- PE 200 ... $25

SCIENCE LABS
- BIOL& 260 ... $100

5 Tuition, Financial Aid, and Funding

Distant Ed: EASC 102, ENVS& 101, OCEA& 101 ..... $58
BIOL&, ENVS&, NASC lab courses $65
ASTR&, EASC&, CHEM&, GEOL& PHYS& lab courses $58
Student Intern Insurance (per year) $10

TECHNICAL DESIGN

TECD 103, 104, 105, 107 ..... $100
TECD 220 ..... $50

VETERINARY ASSISTANT

VETA 105, 107, 110, 112, 113 - NCTA fee $70
VETA 111 ..... $125

WELDING

WT 111, 112, 113, 114, 116, 117, 224, 225, 226, 227 ..... $25
WT 131, 133, 231, 234 ..... $65
WT 200, 211, 212, 213, 221, 222, 223 ..... $250

Whidbey Swimming Lockers $10

PARKING

Non-disabled ..... $5.00 Parking Fines
General $10
Carpool Parking without permit $20
If parked in handicapped $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 ..... $40 (per hr.)

State Support of Higher Education Students

The average cost to educate a resident full-time community or technical college student for the 2020-21 academic year is $9,565. Students pay an average of $3,269 in tuition toward this cost. The remaining $6,296 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 here.

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 www.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 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.

Veterans/Military-Affiliated Tuition Funding

Skagit Valley College 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

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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 studnets 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.

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

IN ADDITION

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

Selected programs of study at Skagit Valley College 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 Skagit Valley College 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

Skagit Valley College 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

5 Tuition, Financial Aid, and Funding

200 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) — *HELPING SPOUSES REACH CAREER GOALS*

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 US 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 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.

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.

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. 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.

OTHER ELIGIBILITY INFORMATION

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 US 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.

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)

An income-based state grant program for low-income state residents based on family size and income. Washington College Grant is dependent on 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.

5 Tuition, Financial Aid, and Funding

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 students enrolled at least half-time (6 or more credits per Quarter) who meet all other eligibility requirements. Funds available are based on limited annual funding. To view work-study positions, you can visit the financial aid website and search the online job board.

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. A FAFSA is required in order to determine eligibility and receive Direct Loans. Students must be pursuing an aid-eligible degree or certificate. First time borrowers will have their funds delayed until 30 days into the first Quarter.

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.

DIRECT SUBSIDIZED LOANS

The U.S. Department of Education pays the interest on Direct Subsidized Loans while you are enrolled at least half-time and for the first six months after you leave school. Subsidized Loans are available to students with demonstrated financial need.

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 BELOW)

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.

Scholarships

The SVC Foundation scholarship application process for the following school year, begins in December or January of each year, with submission deadlines in mid-March. 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.

Workforce Grant Scholarship Programs

WORKER RETRAINING

360.416.7649

Worker Retraining is a state-funded program that provides job-related training & 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:

*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

- 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 discharded 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 maybe 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, GEDÂ®/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 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, an 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

Early Achievers Grant (EAG) serves eligible students who are currently employed in an actively-participating Early Achievers child care facility. 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.

Click here to learn more about the any of the above Workforce Grants programs and to apply.

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 $30.00 processing fee. For more information contact Mount Vernon Financial Aid Office at 360.416.7666 or Whidbey Island Financial Aid Office at 360.679.5320.

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 estevan.vivancomeza@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)
- Books ($333 per quarter)

FOR MORE INFORMATION:

- **Mount Vernon Campus**
  Katelynn Orellana | katelynn.orellana@skagit.edu
  360.416.7856

5 Tuition, Financial Aid, and Funding

- **Whidbey Island Campus**
  Debbie Wysomierski | debbie.wysomierski@skagit.edu
  360.679.5320

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 Skagit Valley College (i.e. 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 whom you are responsible for caring for. Childcare providers must be licensed by the Washington State Department of Early Learning. Do not include children over the age of 12. Must meet income guidelines to qualify.

FOR MORE INFORMATION:

- **Mount Vernon Campus**
  Estevan Vivanco Meza | estevan.vivancomeza@skagit.edu
  360.416.7860
  Katelynn Orellana | katelynn.orellana@skagit.edu
  360.416.7856
- **Whidbey Island Campus**
  Debbie Wysomierski | debbie.wysomierski@skagit.edu
  360.679.5320

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 & 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 25).

FAMILIES OF FALLEN VETERANS AND NATIONAL GUARD MEMBERS

See Veterans/Military-Affiliated Tuition Funding (page 25).

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 more.
- 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.

5 Tuition, Financial Aid, and Funding

6 Areas of Study

Arts and Communication

If you are interested in Drama, English, Music, Visual Arts, Journalism, World Languages, or any of the other disciplines that strive to make sense of humanity's place in the world, this is a good area of study for you to begin your educational career. If you choose this area of study, you are likely working toward a Direct Transfer Degree (DTA) to continue to a university or other four-year college. Many of the careers listed below will require an advanced degree after earning a bachelor's degree.

- Art
- Visual Arts
- Communications
- Drama
- English
- Journalism
- Multimedia & Interactive Technology
- Music
- Philosophy
- Spanish

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 achieve:

- Academic English as a Second Language
- College and Career Success Skills
- College and Career Bridge (CCB)
- English Language Acquisition
- High School Completion
- Individualized Next Step Vocational Education and Social Skills Training (INVEST)

Business

In the Business area of study, students will develop broad knowledge of business operations as well as gain targeted skills in specific fields. Students can expect to gain valuable transferable skills that can be used in everyday life and a variety of career paths. Career paths in business can lead to employment in the fields of health care, insurance, construction, manufacturing, technology, and numerous others. Business students can work in small or large organizations, start-ups, for-profit and not-for-profit organizations, government agencies, or their own business.

- Bachelor in Applied Science - Applied Management
- Business Administration
- Business Management

Education

Everyone recalls a favorite teacher who made a difference in their lives. If you are inspired to work with children and their families, you can be an instructor. Our Education programs will begin your way to a rewarding career.

- Early Childhood Education
- Family Life
- Education

Food & Beverage Managment

Food and Beverage Management focuses on growing, processing, and preparing artisan food and drinks. This industry works collaboratively between farms, restaurants and chefs, craft breweries, and wineries to create a local and sustainable food economy. Individuals in this industry work across a variety of areas such as harvesting, storage, processing, packaging, cooking, baking, brewing, consumption, and consumer education, business, hospitality, and sales.

- Craft Brewing
- Culinary Arts
- Environmental Sustainable Agriculture Education

Health Sciences

If you are interested in working in medical careers, you can choose the Health Sciences area of study. This area of study offers training in direct patient care such as nursing, medical assisting, dental hygiene, and veterinary work. It also offers career training in related fields such as, medical billing, pharmacy technician, health and fitness, and nutrition. If you are interested in becoming a doctor, dentist, or veterinarian, you should choose the STEM pathway.

- Allied Health Education
- Dental
- Health& Fitness Technician
- Kinesiology
- Nursing
- Nutrition
- Veterinary Assistant

Industrial Technology & Transportation

Do you enjoy figuring out how things work? Are you mechanically inclined and like to work with your hands? Do you like to diagnose and troubleshoot problems, work with electronic equipment, design, create, build or repair?

6 Areas of Study

Industrial Technology & Transportation

In the Industrial Technology and Transportation area of study, you will learn how to:

- *Design, build, and fabricate new products*
- *Diagnose, repair, and maintain all types of on-road, off-road, and industrial equipment*
- *Develop, maintain, streamline and manage processes*

Training in this area of study provides you with high-tech, professional skills that will keep you in constant demand and will open doors to numerous career opportunities. Well-trained professionals with current skills in the Industrial Technology and Transportation field are in high demand and can expect excellent employment opportunities with rapid advancement.

- Automotive Technology
- Composites Technology
- Diesel Power Technology
- Manufacturing Technology
- Marine Maintenance Technology
- Operations Management
- Technical Design (CAD)
- Welding Technology

Public Service & Social Science

Social science careers are ideal for people who desire to use their skills and efforts to bring value to their communities. Firefighters, social workers, and police officers all work for change in their communities. With a career in social sciences, you will help those around you and improve your community. If you are drawn to make a difference, SVC can help you find your path.

- Anthropology
- Economics
- Fire Sciences
- History
- Human Services
- Political Science
- Psychology
- Sociology

Science, Technology, Engineering, & Math

Do you like Science, Technology, Engineering, or Mathematics (STEM)? Are you interested in exploring, understanding, engaging with and changing the world around you? Then, the STEM area of study is for you. SVC offers certificates and two-year degrees in STEM areas as well as a BAS in Environmental Conservation. Many students transfer to a 4-year college or university.

- Bachelor of Applied Science in Environmental Conservation
- Biology
- Chemistry
- Computer Science
- Earth Sciences
- Engineering
- Environmental Conservation
- Environmental Science
- Geographic Information Systems
- Geology
- Mathematics
- Multimedia& Interactive Technology
- Physics

7 General Degree/Program Information

Basic Education for Adults [p.38]

- Academic English as a Second Language
- College and Career Success Skills
- College and Career Bridge (CCB)
- English Language Acquisition
- High School Completion
- Individualized Next Step Vocational Education and Social Skills Training (INVEST)

Bachelor of Applied Science Degrees (BAS) [p.40]

- Bachelor of Applied Science in Applied Management (BASAM)
- Bachelor of Applied Science in Environmental Conservation (BASEC)

Transfer Degrees [p.44]

- Associate of Arts Direct Transfer Agreement, AA-DTA
- Anthropology, AA-DTA
- Art, AA-DTA
- Communication Studies, AA-DTA
- Drama, AA-DTA
- Economics, AA-DTA
- English, AA-DTA
- History, AA-DTA
- Journalism, AA-DTA
- Kinesiology, AA-DTA
- Mathematics, AA-DTA
- Nutrition, AA-DTA
- Philosophy, AA-DTA
- Political Science, AA-DTA
- Psychology, AA-DTA
- Sociology, AA-DTA
- Spanish, AA-DTA
- Associate in Science - Transfer Track #1, AS-T
- Biology, Transfer Track #1, AS-T
- Chemistry, Transfer Track #1, AS-T
- Earth Sciences, Transfer Track #1, AS-T
- Environmental Science, Transfer Track #1, AS-T
- Geology, Transfer Track #1, AS-T
- Associate in Science - Transfer Track #2, AS-T
- Computer Science, Transfer Track #2, AS-T
- Engineering, Transfer Track #2, AS-T
- Physics, Transfer Track #2, AS-T

Articulated Academic Transfer Degree [p.69]

- Associate of Visual Arts, AVA

Direct Transfer Agreement/Major Related Program, DTA/MRP [p.70]

- Biology, DTA/MRP
- Business, DTA/MRP
- Computer Science, DTA/MRP
- Music, DTA/MRP

Nursing Program [p.79]

- Nursing, DTA/MRP
- Pre-Nursing, DTA/MRP

Education Transfer [p.85]

- Associate of Education, A.Ed.
- Early Childhood Education, A.Ed.

Associate in APPLIED SCIENCE DEGREES [p.87]

- Associate in Applied Science, AAS
- Associate in Applied Science – Transfer, AAS-T

Professional Technical Degrees & Certificates [p.89]

Automotive Technology [p.89]

- Automotive Technology, AAS
- Certificates
  - Automotive Engine Performance Specialist Certificate
  - Automotive Parts & Service Specialist Certificate
- Micro-Certificates
  - Automotive Electrical Specialist Micro-Certificate
  - Automotive Engine Machinist Micro-Certificate
  - Automated Systems Technology Micro-Certificate
  - Automotive Transmission Specialist Micro-Certificate
  - Automotive Undercar Specialist, Micro-Certificate

Basic Law Enforcement Reserve Academy (BLERA) [p.91]

- Certificates
  - BLERA Certificate

Business Management [p.92]

- Business Management, AAS
- Certificates
  - Entrepreneurship, Certificate
  - Entrepreneurship, Micro-Certificate

Composites Technology [p.94]

- Certificates
  - Advanced Composites Manufacturing Technician Certificate
  - Composites Repair Technician Micro-Certificate
  - Composites Wind Blade Repair Micro-Certificate

7 GENERAL DEGREE/PROGRAM INFORMATION

BASEC ▪ BASAM ▪ AA-DTA ▪ AS-T ▪ AVA ▪ DTA/MRP ▪ A.Ed. ▪ AAS ▪ AAS-T ▪ CERTIFICATES & MICRO-CERTIFICATES

Craft Brewing [p.95]

- Craft brewing Certificate

Culinary Arts [p.97]

- Culinary Arts, Baking & Pastry, AAS
- Culinary Arts, Culinary Emphasis, AAS
- Professional Cooking, Certificate
- Certified Culinarian, Certificate

Dental [p.99]

- Dental Assisting Bridge Certificate
- Dental Foundations Certificate

Diesel Power Technology [p.101]

- Diesel Power Technology, AAS

Early Childhood Education [p.102]

- Early Childhood Education, AAS
- State Early Childhood Education Certificate
- State Initial Early Childhood Education Certificate
- State Short Early Childhood Education Certificate – Administration
- State Short Early Childhood Education Certificate – Family Child Care
- State Short Early Childhood Education Certificate – General
- State Short Early Childhood Education Certificate – Infant/Toddler Care
- State Short Early Childhood Education Certificate – School Age Care

Engineering Technology [p.105]

- Engineering Technology: AAS & AAS-T

Environmental Conservation [p.107]

- Environmental Conservation Parks Resources Management, AAS
- Environmental Conservation Water or Wastewater Treatment Technology, AAS
- Environmental Conservation (University of Washington & University of Idaho), AAS-T
- Environmental Conservation Aquatic or Terrestrial, AAS-T
- Environmental Conservation Marine, AAS-T
- Environmental Conservation Studies, Certificate
- Environmental Conservation: Water/Wastewater Treatment Technician, Certificate
- Geographic Information Systems, Certificate
- Advanced Wetland Delineation, Micro-Certificate
- Basic Wetland Delineation, Micro-Certificate

Environmental Sustainable Agriculture Education [p.112]

- Environmental Sustainable Agriculture Education, AAS-T
- ENVAG Sustainable Small Farm Agriculture Systems, Certificate
- ENVAG Sustainable Small Farm Agriculture Applied Planning and Management (Level I), Micro-Certificate
- ENVAG Sustainable Small Farm Agriculture Applied Planning and Management (Level II), Micro-Certificate

Family Life [p.115]

Fire Sciences [p.115]

- Fire Protection Technology, AAS
- Fire Service Administration, AAS-T

Health & Fitness Technician [p.119]

- Health & Fitness Technician, AAS
- Health & Fitness Technician, Certificate

Human Services [p.120]

- Human Services Generalist, AAS
- Human Services Substance Use Disorder Counseling, AAS
- Human Services Substance Use Disorder Counseling, Certificate

Manufacturing Technology [p.122]

- Manufacturing Technology, Certificate
- Automated Systems Technology, Micro-Certificate
- Computer Numeric Control (CNC) Operator, Micro-Certificate
- Manufacturing Fundamentals, Micro-Certificate
- Quality Assurance, Micro-Certificate

Marine Maintenance Technology [p.124]

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

Medical Assistant [p.126]

- Medical Assistant, AAS
- Medical Assistant, Certificate

Medical Billing & Coding Specialist [p.129]

- Medical Billing & Coding Specialist Certificate

Multimedia & Interactive Technology [p.131]

- Multimedia – Web Designer, AAS
- Adobe Certificate
- Digital Media Marketing Certificate
- Digital Video Certificate
- Game, App & Web Development Certificate
- Graphic Arts Certificate
- Multimedia – Web Design Certificate

Nursing [p.134]

- Pre-Nursing Transfer Agreement, DTA/MRP
- Nursing Transfer Agreement, DTA/MRP
- Registered Nursing (LPN-RN), AAS
- Nursing Assistant Education Certificate

Operations Management [p.142]

- Operations Management, AAS & AAS-T

7 **GENERAL DEGREE/PROGRAM INFORMATION**
BASEC ▪ BASAM ▪ AA-DTA ▪ AS-T ▪ AVA ▪ DTA/MRP ▪ A.Ed. ▪ AAS ▪ AAS-T ▪ CERTIFICATES & MICRO-CERTIFICATES

PROGRAM FINDER

PROGRAM FINDER (continued)

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 achieve their educational goals.

ACADEMIC ENGLISH AS A SECOND LANGUAGE

Program Overview

The Academic English as a Second Language (AESL) Program is designed for students whose first language is not English. The AESL 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, AESL courses follow the college quarterly schedule. Our focus includes teaching Academic English as a Second Language (AESL), 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 AESL Tutoring Center, for all international students needing assistance with their coursework.

COLLEGE AND CAREER SUCCESS SKILLS

Program Overview

College and Career Success Skills (CSS) classes help students adjust to college life and provide students with strategies designed to enhance their academic success.

First Quarter Experience

All new degree seeking students are required to complete a First Quarter Experience class. CSS 103 - First Quarter Experience is a course designed to meet this requirement. Students explore careers in their Area of Study; develop an education plan specific to their goals; learn about financial aid options; access college resources; and engage with each other and the college community.

COLLEGE AND CAREER BRIDGE (CCB)

Program Overview

The College and Career Bridge program sets 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.

Pathway 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.

INTEGRATED BASIC EDUCATION AND SKILLS TRAINING (I-BEST)

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 - Beginning Algebra in a supportive student friendly environment.

Cost of Program

- 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.

Program Admissions

New students should register for CCB 010 - CCB Orientation. Orientation classes are held the week before classes start.

- **Option 1:** If you are not ready to enter a college program, but know that you want to improve your reading, writing and/or math skills enroll as follows:
  - ***Mount Vernon Campus:*** Assistance in registering is available in Lewis Hall at the Admissions Desk or in room L127.
  - ***Oak Harbor Campus:*** Assistance in registering is available Old Main at the Admissions Desk
- **Option 2:** If you know what college program you want to pursue follow the SVC application process. As you go through the admissions and advising process counselors will help you enroll in the classes right for you.

ENGLISH LANGUAGE ACQUISITION

Program Overview

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; and employment.

Cost of Program

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 meet income eligibility.

Program Admissions

- 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 note eligible and should contact International Programs for information on class options.
- New students should register for ELA 010 - ELA Orientation. Orientation classes are held the week before classes start.

Register for Classes

Day and evening classes are available.

- ***Mount Vernon Campus:*** Assistance in registering is available in Lewis Hall at the Admissions Desk or in room L127
- ***Oak Harbor Campus:*** Assistance in registering is available Old Main at the Admissions Desk

CONTACT US

Mount Vernon Campus: 360.416.7640
Whidbey Island Campus: 360.679.5339

HIGH SCHOOL COMPLETION

Program Overview

Our high school completion programs help you earn the credentia l you need to prepare for post-secondary education, further training, military service, and employment. Skagit Valley College 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

- **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.
- **HS21+ 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.
- **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.
- **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)

Program Overview

The Individualized Next Step Vocational Education and Social Skills Training (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 1 'FAST TRACK' EMPLOYABILITY CERTIFICATE

36 credits

The INVEST Fask Track Employability Certificate is a one year 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 (3)
- INV 040 - INVEST Career Inventory (2)
- INV 045 - INVEST Interview Skills (2)
- INV 070 - INVEST Service Learning (9)
- INV 075 - INVEST Practicum Seminar (6)
- INV 090 - INVEST Capstone (3)
- Electives (6)

INVEST 2 YEAR EMPLOYABILITY CERTIFICATE

72 credits

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 followin 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)

PLANNING GUIDES

BACHELOR OF APPLIED SCIENCE IN APPLIED MANAGEMENT (BASAM)

Program Overview

If you are interested in complementing your professional/technical qualifications with a bachelor qualification so you can advance to a management role, this degree might be for you. Students with an Applied Management degree will find themselves prepared for a variety of management or supervisory positions in almost any type of business or industry. Additionally, students can use this degree to build their own business.

Degree Option

The Bachelor in Applied Science - Applied Management (BAS-AM) program is a two-year, 90 credit degree designed for professional-technical students who have completed an associate degree (AA, AAS-T, AAS, or ATA). The BAS-AM program combines 300- and 400-level managerial and general education courses to equip technically skilled students with occupationally contextualized business and general knowledge typically necessary for advancement to managerial-level positions or to operate an entrepreneurial venture. A Bachelor in Applied Science - Applied Management degree is awarded upon completion of 90 credits of specified 300 and 400 level coursework with a GPA of 2.5 or higher in each course. Entry into a Master's program may require a higher GPA for admission. Students are responsible for checking specific major requirements of graduate institutions in the year prior to transferring.

The program starts each fall and is open to anyone with a two-year degree, such as AAS, ATA, AA, or AS degree. The program has its own application and admission process, which you can find at **https://www.skagit.edu/BASAM-applying-to-the-program/**

Sample career options include –

- **Marketing Manager**
- **Sales Manager**
- **Financial Manager, Branch or Department**
- **General and Operations Manager**

Cost of Program

Specific tuition information can be found at: **www.skagit.edu/admissions/tuition-fees**. Textbook costs should not exceed $150 per quarter.

Program Learning Outcomes

Upon completion of the BASAM program, students will be able to:

COMMUNICATE EFFECTIVELY:

- Use written and spoken language, digital skills and tools, concepts, and models of management applicable to the

professional-technical discipline to communicate clearly and create an effective message, while demonstrating a professional presence.

THINK CRITICALLY:

- Demonstrate ability to assimilate, evaluate, and synthesize information from varying media and formats, including the ability to assess qualitative and quantitative data and to apply critical thinking and knowledge in an industry and managerial function-specific context, incorporating broader social, economic, and environmental impacts.

DEMONSTRATE PROFESSIONAL AND PERSONAL READINESS:

- Demonstrate an understanding of management roles, leadership and cultural norms and expectations of leadership, including identification and description of human behavior in an organizational setting, with attention to the dynamics of power and privilege.
- Prepare and complete cost control processes including the ability to establish a budget, prepare cost reports, and forecast expenditures.
- Acquire, organize, analyze, and interpret information and data to make informed, reasoned, equitable decisions and analyze systems for planning and decision-making.
- Identify and analyze human resource systems for developing diverse human capital, employment, compensation, and training and institute and facilitate inclusive team-based problem-solving environments.
- Analyze, build, and leverage social capital for occupational advancement, which will include the development of materials to structure and support ongoing personal career management.
- Demonstrate a knowledge of the local business environment and community and an awareness of issues and opportunities emerging from the changing socio-economic, technological, and environmental landscape.

EXHIBIT CULTURAL AWARENESS:

- Explore, appreciate, and define the opportunities, challenges, and nuances of operating in an increasingly diverse, interconnected, and complex global community.
- Recognize and challenge culture-bound assumptions.

Program Admissions

Entry takes place in the Fall Quarter and students move through the program as a cohort. This program has its own, specific application process. To receive an application, prospective students must register for and attend a program briefing. The BAS-AM information session schedule is available by visiting **Register for Program Briefing** at **https://skagitvalley.secure.force.com/events/#/list?category=BAS%20Applied%20Management**.

PREREQUISITES

Prerequisites for the BASAM program at Skagit Valley College have been streamlined to make the opportunity for educational attainment as accessible as possible.

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 time of entry into the program 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 BASAM 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 conditional, and the degree must be completed before the first day of classes.
- BASAM faculty will assist students with course verifications.

Specialized Program Information

- The BASAM program has a separate application process.To receive an application, prospective students must register for and attend a program information session. The BASAM information session schedule is available at **skagit.edu/basam**.

ADVISOR CHECK-INS

These checkpoints provide the framework for Skagit Valley College Advising Policy and Procedures for the BASAM degree:

- 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.
- **BASAM Application:** Students will be asked to attend an information session and to apply for admission to the BASAM program.
- **BASAM Enrollment:** Once accepted into the program, BASAM faculty and staff will guide students with registration.

Faculty and Advisor
Sunaina Virendra
Applied Management Instructor
sunaina.virendra@skagit.edu
360.416.7635

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.

FIRST YEAR

Fall Quarter

- BASAM 301 - Foundations of Applied Management (5)
- ECON 310 - Economics for Managers (5)
- ENVS 314 - Environmental Science (5)

TOTAL CREDITS: 15

Winter Quarter

- BASAM 322 - Project Management (5)
- BASAM 324 - Marketing for Managers (5)
- BASAM 334 - Accounting for Managers (5)

TOTAL CREDITS: 15

Spring Quarter

- BASAM 330 - Operations Management (5)
- BASAM 332 - Human Resources Management (5)
- * MATH& 146 - Introduction to Stats (5)

** If MATH& 146 has been completed in an associate degree, BASAM faculty will work with the student to identify an alternative.*

TOTAL CREDITS: 15

Summer

- Students who need to fulfill State BAS degree General Education requirements in Science and/or Humanities will take these classes in the Summer quarter. Students will be advised if this is a requirement in their BAS-AM admissions letter. BAS-AM faculty will work with students to create an education plan once the student confirms they will enroll in the BAS-AM program.
- Classes that meet the Humanities and Science general education requirements are the same as those that meet the AA-DTA requirements.

SECOND YEAR

Fall Quarter

- BASAM 422 - Principles of Finance (5)
- BUS 410 - Managerial Professionalism & Readiness (5)
- SOC 420 - Career Management and Social Capital (5)

TOTAL CREDITS: 15

Winter Quarter

- BASAM 499 - BASAM Internship (5)
- BUS 430 - Data Driven Decision Making (5)
- PSYC 412 - Leadership & Organizational Behavior (5)

TOTAL CREDITS: 15

Spring Quarter

- BASAM 495 - Capstone: Strategic Management (5)
- BUS 450 - Legal Environments in Business (5)
- PHIL 440 - Business Ethics (5)

TOTAL CREDITS: 15

BACHELOR OF APPLIED SCIENCE IN ENVIRONMENTAL CONSERVATION (BASEC)

Program Overview

The Bachelor of Applied Science in Environmental Conservation(BASEC) is designed to allow students with an existing Environmental Conservation AAS-T degree from Skagit Valley College OR other comparable two-year degree in natural resources to earn a bachelor of applied science degree. Students accepted into the BASEC degree are expected to begin fall Quarter; exceptions will be allowed on a case-by-case basis.

The BASEC degree is designed to meet the growing employment needs for graduates with a four-year degree and advanced skills in environmental science and natural resource management. Graduates with a BASEC degree will acquire the necessary skills for advanced field and laboratory work and be able to move into management and supervisory positions within natural resource management divisions in the public and private sector.

Sample career options include –

- **Environmental Restoration Planners**
- **Environmental Compliance Inspectors**
- **Environmental Scientists & Specialists, Including Health**

Degree Option

The Bachelor of Applied Science in Environmental Conservation (BASEC) is designed to allow students with an existing Environmental Conservation AAS-T degree from Skagit Valley College OR other comparable two-year degree in natural resources to earn a bachelor of applied science degree.

Program Learning Outcomes

Graduates of the BASEC 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

SVC has an open admissions policy. Generally, the BAS in Environmental Conservation (BASEC) is intended for students graduating from SVC's AAS-T in Environmental Conservation or students graduating from other community colleges with a degree in natural resources or natural science.

SVC will provide support services to promote student success including general tutoring in math, information technology,

English, as well as tutoring in more specialized subjects such as watershed management, and GIS. Students with disabilities have support through the SVC Disability Access Services. These services ensure that all students have the potential to be successful.

PREREQUISITES (ELIGIBILITY)

1. AAS-T or AAS degree in an environmental- or ecology-related field from a community college. Degree must include 10 college-level English Composition credits, MATH& 141 or 5 credits of statistics, 5 credits of communication, and 5 credits of chemistry (CHEM& 121); or
2. Associate of Applied Science (AAS) in an environmental- or ecology-related field, including 10 college-level English Composition credits, MATH& 141 or 5 credits of statistics, 5 credits of communication, and 5 credits of chemistry (CHEM& 121); or
3. Associate in Applied Science (AAS) in an environmental- or ecology-related field, including college-level courses: 10 credits of English composition, MATH& 141 or 5 credits of statistics, 5 credits of statistics, 5 credits of communication, and 5 credits of chemistry (CHEM& 121); or
4. Associate degree with a biology emphasis including 10 college-level English Composition, MATH& 141 or 5 credits of statistics, 5 credits of communication, and 5 credits of chemistry. Transcript evaluation by Dept. Chair. Remedial ecology courses may be needed; or
5. Two years of university or college courses equivalent to an AAS degree including 10 college-level English Composition credits, MATH& 141 or 5 credits of statistics, 5 credits of statistics, 5 credits of communication, and 5 credits of chemistry (CHEM& 121).
6. Unrelated Associates degree and Environmental Studies certificate (3 quarters).
7. Minimum GPA 2.5.
8. At least one course in Geographic Information Systems (GIS) is required - preferably using ArcView/ArcGIS/ArcInfo software and one course Is recommended in Global Positioning Systems (GPS) interfacing with GIS.

APPLICATION PROCESS

Students need to submit:

- Letter of intent
- Resume
- College transcripts
- Two letters of recommendation are required attesting to the student's ability to succeed at the baccalaureate level, preferably from an instructor and an employer.

Applications will be reviewed to ensure that minimum requirements and prerequisites have been met. Students will be notified of acceptance within three weeks of submission.

1. Start dates other than fall quarter will require departmental approval and are only recommended for part-time students.
2. Sequencing and scheduling will be done in consultation with a BASEC advisor. (Dr. Claus Svendsen, Dept. Chair) or a BASEC counselor.
3. Students may apply to enroll into individual classes on a space available basis if they meet entry qualifications.

Program Map

90.5 credits

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.

FIRST YEAR

Fall Quarter

- ENVC 302 - Data Management
- ENVC 304 - River Ecology & Watershed Management
- CHEM 301 - Chemistry for Environmental Conservation
- CMST 303 - Communication in Natural Resources

TOTAL CREDITS: 15.5

Winter Quarter

- ENVC 310 - Soil Ecology
- ENVC 315 - Limnology and Reservoir Ecology
- QSCI 318 - Quantitative Analysis of the Environment

TOTAL CREDITS: 15

Spring Quarter

- ENVC 320 - Landscape Ecology
- ENGL 324 - Advanced Writing in Science
- ENVC 327 - Advanced Wetland Ecology

TOTAL CREDITS: 15

SECOND YEAR

Fall Quarter

- ENVC 405 - Behavioral Ecology
- ENVC 407 - Forest Ecology
- QSCI 408 - Biometry & Ecological Sampling

TOTAL CREDITS: 15

Winter Quarter

- ENVC 412 - Natural Resource Policy Analyses
- ENVC 424 - Applied Population and Community Ecology
- ENVC 499 - Internship
- CMST 413 - Leadership Development in Natural Resources

TOTAL CREDITS: 15

Spring Quarter

- ENVC 410 - Conservation Biology
- ENVC 420 - Estuarine and Nearshore Ecology
- ENVC 422 - Culminating Project

TOTAL CREDITS: 15

TRANSFER DEGREES

ASSOCIATE OF ARTS DIRECT TRANSFER AGREEMENT, AA-DTA

PLANNING GUIDE

Program 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 fist 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:

- **Bastyr University**
- **Central Washington University**
- **City University**
- **Cornish College of the Arts**
- **Eastern Washington University**
- **The Evergreen State College**
- **Gonzaga University**
- **Northwest University**
- **Pacific Lutheran University**
- **Seattle Pacific University**
- **University of Washington (including Bothell and Tacoma campuses)**
- **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.

Degree Options

Skagit Valley Collge offers a variety of program pathways to match student interests:

- Art
- Communication Studies
- Drama
- 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)

   and one course from the following:
   - CMST& 210 - Interpersonal Communication: D (5)
   - CMST& 220 - Public Speaking (5)
   - CMST& 230 - Small Group Communication: D (1-5)
   - 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 3 PE Activities credits can be used for the DTA: 2 credits for PE requirement and 1 additional credit toward restricted or Gray Area electives, pp 159-160.*

   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 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.

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 157-160, 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 159-160. 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.

ANTHROPOLOGY, AA-DTA

PLANNNG GUIDE – TRANSFER DEGREE

Program Overview

Anthropology studies all aspects of humanity, investigating how seemingly different individuals, cultures, and societies are related to one another and to all of humankind as a whole. Anthropology itself is so broad a topic it is broken down into many sub-disciplines. Skagit offers courses in several of these sub-disciplines, including cultural anthropology, physical anthropology, archaeology, and linguistic anthropology.

Sample career options include –

- **Anthropologist**
- **Curators**

Transfer

If you are considering a major in Anthropology 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 of Arts Direct Transfer Agreement, AA-DTA 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.

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
- NUTR& 101 - Nutrition (5)

TOTAL CREDITS: 15

3rd Quarter

- ENGL& 102 - Composition II (5)
- SOC& 101 - Intro to Sociology: D (5)
- Natural Science course (5) with lab, preferably in Learning Community format.
  See Distribution Lists - AA-DTA, pp 157-160. 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 157-160. Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.

TOTAL CREDITS: 16

5th Quarter

- ANTH& 234 - Religion & Culture: D (5)
- CMST 205 - Intercultural Communication: D (5)
- SOC& 201 - Social Problems (5)

TOTAL CREDITS: 15

6th Quarter

- ANTH& 205 - Biological Anthropology (5)
- ENGL 250 - Introduction to American Literature: D (5)
- HIST& 219 - Native American History: D (5)

TOTAL CREDITS: 15

ART, AA-DTA

PLANNNG GUIDE – TRANSFER DEGREE

Program 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 Skagit Valley College 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

If you are considering a major in Art 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 of Arts Direct Transfer Agreement, AA-DTA 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.

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 157-160). 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 157-160). 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 112 - Three Dimensional Design (5)
- ART 160 - Portfolio (1)
- Social Sciences course (5), preferably in Learning Community format.
  See Distribution Lists - AA-DTA (pp 157-160). 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 157-160). 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 157-160). 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 157-160). 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 157-160). Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.

TOTAL CREDITS: 12

COMMUNICATION STUDIES, AA-DTA

PLANNNG GUIDE – TRANSFER DEGREE

Program 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 & Correspondents**

Transfer

If you are considering a major in Communications 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 of Arts Direct Transfer Agreement, AA-DTA 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 path-

way, 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.

FIRST YEAR

1st Quarter

- ENGL& 101 - English Composition I (5)
- CSS 103 - First Quarter Experience (2)
- CMST& 102 - Intro 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 & Newswriting (5)
  or ***one of the following:***
  - ART& 100 - Art Appreciation: D (5)
  - 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

DRAMA, AA-DTA

PLANNNG GUIDE – TRANSFER DEGREE

Program Overview

The Drama Department serves the campus community by providing the opportunity to engage in theatre practice in the classroom, online and on stage. Course work in the department includes introduction to the theatre, acting, theater history and stagecraft. The department actively participates in Learning Communities, connecting theatre and performance to course-work in departments such as English and Communication Studies. The Drama Department is dedicated to bringing works to the stage that challenge the heart and mind of SVC students, faculty and our community. Open auditions for theatrical productions occur each quarter, inviting students to work side-by-side with members of the local theatre community to practice their theatrical craft, from set construction to make up and acting. Students are encouraged to participate in the department by attending theatrical performances, which are free for SVC students.

Sample career options include –

- **Actors**
- **Art, Drama, & Music Teachers, Postsecondary**

Transfer

If you are considering a major in Drama 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 of Arts Direct Transfer Agreement, AA-DTA 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.

FIRST YEAR

1st Quarter

- CSS 103 - First Quarter Experience (2)
- ENGL& 101 - English Composition I (5)
- NUTR& 101 - Nutrition (5)
- PE 100 - Wellness For Life (1)

TOTAL CREDITS: 13

2nd Quarter

- CMST& 210 - Interpersonal Communication: D (5)
  or CMST& 220 - Public Speaking (5)
- DRMA& 101 - Intro to Theatre: D (5)
- MATH& 107 - Math in Society (5)

TOTAL CREDITS: 15

3rd Quarter

- DRMA 133 - Acting: Voice Expression (5)
- ENGL& 102 - Composition II (5)
- PE 134 - Self-Defense and Martial Arts (1)
- PSYC& 100 - General Psychology (5)

TOTAL CREDITS: 16

SECOND YEAR

4th Quarter

- DRMA 161 - Basic Stagecraft (5)
  or DRMA 236 - Theater History I: Ancient-Renaissance (5)
- MUSC& 105 - Music Appreciation (5)
- PE 149 - Fitness Through Yoga (1)
- Natural Science (5) with a lab, preferably in the Learning Community format.
  Suggested: EASC 102. Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.

TOTAL CREDITS: 16

5th Quarter

- DRMA 134 - Acting: Physical Expression (5)
  or DRMA 237 - Theater History II: Renaissance-1850 (5)
- Natural Science (5) preferably in the Learning Community format.
  Suggested: OCEA& 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 the Learning Community format.
  Suggested: PSYC& 180. Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.

TOTAL CREDITS: 15

6th Quarter

- DRMA 135 - Acting III (5)
  or DRMA 238 - Modern Theater History (5)
- Humanities (5) preferably in Learning Community format.
  Suggested: ART 144. 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.
  Suggested: HIST& 128. Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.

TOTAL CREDITS: 15

ECONOMICS, AA-DTA

PLANNNG GUIDE – TRANSFER DEGREE

Program 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

If you are considering a major in Economics 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 of Arts Direct Transfer Agreement, AA-DTA 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.

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, AA-DTA

PLANNNG GUIDE – TRANSFER DEGREE

Program 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 & Correspondents**
- **Public Relations Specialists**

Transfer

If you are considering a major in English 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 of Arts Direct Transfer Agreement, AA-DTA 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

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 emphasis 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 with an SVC advisor to schedule courses and develop an educational plan. English courses may not be repeated.

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 - Intro to Fiction: D (5)
  or ***one of the following:***
  - ENGL& 113 - Intro to Poetry: D (5)
  - 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 ***one of the following:***
  - ENGL 250 - Introduction to American Literature: D (5)
  - 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 - Intro to Poetry: D (5)
  or ENGL& 236 - Creative Writing I (5)
- ENGL 115 - Introduction to Film: D (5)
  or ***one of the following:***
  - ENGL 120 - Introduction to Children's Literature (5)
  - ENGL& 220 - Intro 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, AA-DTA

PLANNNG GUIDE – TRANSFER DEGREE

Program 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.

Skagit Valley College 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

If you are considering a major in History 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 of Arts Direct Transfer Agreement, AA-DTA 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.

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 - Intro 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 - US 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 - US 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

JOURNALISM, AA-DTA

PLANNNG GUIDE – TRANSFER DEGREE

Program Overview

Journalism classes are offered in a practical sequence designed to develop skill in desk-top publishing, investigative research and reporting, technical communication, and the basic principles of journalism. Students create and publish the Cardinal, the Skagit Valley College student newspaper, as part of their coursework.

Sample career options include –

- **Secondary School Teachers**
- **Reporters & Correspondents**
- **Public Relations Specialists**

Transfer

If you are considering a major in Journalism 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 of Arts Direct Transfer Agreement, AA-DTA 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

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 emphasis in Journalism. 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.

FIRST YEAR

1st Quarter

- ENGL& 101 - English Composition I (5)
- CSS 103 - First Quarter Experience (2)
- CMST& 102 - Intro 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 & Newswriting (5)
- MATH& 107 - Math in Society (5)
  or MATH& 146 - Introduction to Stats (5)
- PE Activity (1)

  TOTAL CREDITS: 16

3rd Quarter

- JOUR 201 - Newspaper Production & Editing (2)
- ENGL& 102 - Composition II (5)
- Natural Science (5), preferably in the Learning Community format.
  Suggested: BIOL 111, EASC 102, EASC 111, or PHYS 111. 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.
  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: 17

SECOND YEAR

4th Quarter

- JOUR 202 - Advanced Newswriting (2)
- CMST 205 - Intercultural Communication: D (5)
- Social Science (5), preferably in Learning Community format.
  Suggested: CJ& 101, POLS& 101, or POLS& 203. 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: 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

5th Quarter

- ENGL 115 - Introduction to Film: D (5)
  or ***one of the following:***
  - ENGL& 236 - Creative Writing I
  - PHIL 215 - Introduction to Ethics
- Natural Sciences course (5), preferably in Learning Community format.
  See Distribution Lists - AA-DTA (pp 157-160). 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: World Language 122. 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

6th Quarter

- CMST 201 - Communication Theory (5)
- Natural Science (5) with lab, preferably in the Learning Community format.
  Suggested: BIOL 111, CHEM& 121, 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 Learning Community format.
  Suggested: ANTH& 206, ECON 101, ETHNC 100, or POLS& 202. Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.

TOTAL CREDITS: 15

KINESIOLOGY, AA-DTA

PLANNNG GUIDE – TRANSFER DEGREE

Program 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 & Fitness Studies Teachers, Postsecondary**
- **Athletic Trainer**
- **Elementary Physical Education Teacher**

Transfer

If you are considering a major in Kinesiology 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 of Arts Direct Transfer Agreement, AA-DTA 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.

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 - Intro 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 157-160). 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 & P II (5)
- PE 200 - First Aid, Safety, and CPR (2)
- SOC& 101 - Intro to Sociology: D (5)
- Humanities course (5), preferably in Learning Community format.
  See Distribution Lists - AA-DTA (pp 157-160). 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 - Intro to Organic/Biochemistry (5)
- Humanities course (5), preferably in Learning Community format.
  See Distribution Lists - AA-DTA (pp 157-160). Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.

TOTAL CREDITS: 15

MATHEMATICS, AA-DTA

PLANNNG GUIDE – TRANSFER DEGREE

Program 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, or 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

If you are considering a major in Math 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 of Arts Direct Transfer Agreement, AA-DTA 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

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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 202, MUSC& 105, PHIL& 101, PHIL 215, or WRLD LANG 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 202,MUSC& 105, PHIL& 101, PHIL 215, WRLD LANG 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, HIST&, 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 Chem 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, HIST&, 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 202,MUSC& 105, PHIL& 101, PHIL 215, WRLD LANG 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&, 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, AA-DTA

PLANNNG GUIDE – TRANSFER DEGREE

Program 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 & Nutritionists**

Transfer

If you are considering a major in Nutrition 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 of Arts Direct Transfer Agreement, AA-DTA 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

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FIRST YEAR

1st Quarter

- CSS 103 - First Quarter Experience (2)
- CHEM& 121 - Intro 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 A & P 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 - Intro to Organic/Biochemistry (5)
- ECON 101 - Introduction to Economics (5)
- PSYC& 100 - General Psychology (5)

TOTAL CREDITS: 15

PHILOSOPHY, AA-DTA

PLANNNG GUIDE – TRANSFER DEGREE

Program 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 & Legal Assistants**
- **Secondary School Teachers**
- **Philosophy & Religion Teachers, Postsecondary**

Transfer

If you are considering a major in Philosophy 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 of Arts Direct Transfer Agreement, AA-DTA 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

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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 157-160). 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 - Intro to Philosophy (5)
- Humanities course (5), preferably in Learning Community format.
  See Distribution Lists - AA-DTA (pp 157-160). 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 - Intro Political Science (5)
- SOC 204 - Intro 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 157-160). 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 157-160). Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.

TOTAL CREDITS: 15

POLITICAL SCIENCE, AA-DTA

PLANNNG GUIDE – TRANSFER DEGREE

Program 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

If you are considering a major in Political 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 of Arts Direct Transfer Agreement, AA-DTA 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.

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 - Intro 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 157-160). 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 - Intro 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 157-160). Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.

  TOTAL CREDITS: 16

PSYCHOLOGY, AA-DTA

PLANNNG GUIDE – TRANSFER DEGREE

Program 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 & Human Service Assistants**

Transfer

If you are considering a major in Psychology 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 of Arts Direct Transfer Agreement, AA-DTA 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

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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 - Intro to Chemistry (5)
- PSYC& 180 - Human Sexuality (5)
- Humanities course (5), preferably in Learning Community format.
  See Distribution Lists - AA-DTA (pp 157-160). 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 157-160). 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 157-160). Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.

  TOTAL CREDITS: 15

SOCIOLOGY, AA-DTA

PLANNNG GUIDE – TRANSFER DEGREE

Program 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

If you are considering a major in Sociology 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 of Arts Direct Transfer Agreement, AA-DTA 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

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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 - Intro 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 157-160). 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 & Abuse (5)

TOTAL CREDITS: 15

SPANISH, AA-DTA

PLANNNG GUIDE – TRANSFER DEGREE

Program 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 & Translators**

Transfer

If you are considering a major in the Spanish language 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 of Arts Direct Transfer Agreement, AA-DTA 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

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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 157-160). 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 157-160). 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 157-160). 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 157-160). 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 157-160). 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

PLANNNG GUIDE – TRANSFER DEGREE

Program 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 in Arts-Direct Transfer Agreement 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**
- **Western Governor's University**
- **Gonzaga University**
- **Saint Martin's University**
- **Seattle Pacific University**
- **Seattle University**
- **Walla Walla University**

7 GENERAL DEGREE/PROGRAM INFORMATION
BASEC ▪ BASAM ▪ AA-DTA ▪ AS-T ▪ AVA ▪ DTA/MRP ▪ A.Ed. ▪ AAS ▪ AAS-T ▪ CERTIFICATES & MICRO-CERTIFICATES

Degree Options

Skagit Valley College offers a variety of programs pathways to match student interests:

- **Biology Concentration AS-T Track #1**
- **Chemistry Concentration AS-T Track #1**
- **Earth Science Concentration AS-T Track #1**
- **Environmental Science Concentration AS-T Track #1**
- **Geology Concentration AS-T Track #1**

Degree Requirements

General Education Learning Outcomes, pp 145-146
Program Learning Outcomes, p 146

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 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 (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 credits, pp 159-160,** may be applied toward the 90-credit minimum for the degree.

BIOLOGY, TRANSFER TRACK #1, AS-T

PLANNNG GUIDE – TRANSFER DEGREE

Program Overview

Biology courses at Skagit Valley College 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 & 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 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 Chem w/Lab I (5)
- ENGL& 101 - English Composition I (5)
- MATH& 141 - Precalculus I (5)

TOTAL CREDITS: 17

2nd Quarter

- CHEM& 162 - General Chem 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 202, 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 Chem 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, HIST&, 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 Chem I (4)
- MATH& 152 - Calculus II (5)

TOTAL CREDITS: 14

5th Quarter

- BIOL& 222 - Majors Cell/Molecular Biology (5)
- CHEM& 242 - Organic Chem II (4)
- CHEM& 251 - Organic Chem 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 Chem III (3)
- CHEM& 252 - Organic Chem 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

PLANNNG GUIDE – TRANSFER DEGREE

Program Overview

The Chemistry program at Skagit Valley College 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

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 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.

FIRST YEAR

1st Quarter

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

TOTAL CREDITS: 17

2nd Quarter

- CHEM& 162 - General Chem 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 202, 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 Chem 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, HIST&, 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 Chem 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 Chem II (4)
- CHEM& 251 - Organic Chem 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 Chem III (3)
- CHEM& 252 - Organic Chem 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, HIST&, 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

PLANNNG GUIDE – TRANSFER DEGREE

Program Overview

The Earth Sciences program at Skagit Valley College 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 (NASC 160) or Eastern Washington (NASC 161).

Sample career options include –

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

Transfer

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 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.

FIRST YEAR

1st Quarter

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

TOTAL CREDITS: 17

2nd Quarter

- CHEM& 162 - General Chem 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 Chem 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, HIST&, 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

PLANNNG GUIDE – TRANSFER DEGREE

Program Overview

The Earth Sciences program at Skagit Valley College 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 (NASC 160) or Eastern Washington (NASC 161).

Sample career options include –

- **Environmental Engineers**
- **Environmental Science & Protection Technicians, Including Health**
- **Environmental Restoration Planners**

Transfer

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 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.

FIRST YEAR

1st Quarter

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

TOTAL CREDITS: 17

2nd Quarter

- CHEM& 162 - General Chem 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 Chem w/Lab III (5)
- MATH& 151 - Calculus I (5)
- Social Sciences course (5), preferably in Learning Community format.
  Suggested: ANTH& 206, ECON 101, GEOL& 100, HIST&, 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

GEOLOGY, TRANSFER TRACK #1, AS-T

PLANNNG GUIDE – TRANSFER DEGREE

Program Overview

The Earth Sciences program at Skagit Valley College 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 (NASC 160) or Eastern Washington (NASC 161).

Sample career options include –

- **Geological Sample Test Technicians**
- **Geoscientists**
- **Mining & Geological Engineers, Including Mining Safety Engineers**

Transfer

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.

FIRST YEAR

1st Quarter

- CHEM& 161 - General Chem 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 Chem 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 202, 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 Chem 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, HIST&, 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 - Intro 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 157-160. 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

PLANNNG GUIDE – TRANSFER DEGREE

Program 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 in Arts-Direct Transfer Agreement 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

The Associate of Science Transfer (AS-T) Degree Track #2 is a 90 credit degree that prepares students for upper divsion 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**
- **Western Governor's University**
- **Gonzaga University**
- **Saint Martin's University**
- **Seattle Pacific University**
- **Seattle University**
- **Walla Walla University**

Degree Options

- **Computer Science Concentration AS-T Track #2**
- **Engineering Concentration AS-T Track #2**
- **Physics Concentration AS-T Track #2**

Degree Requirements

General Education Learning Outcomes, pp 145-146
Program Learning Outcomes, p 146

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.

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. **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-transferableaa **Gray Area credits, pp 159-160,** may be applied toward the 90-credit minimum for the degree.

COMPUTER SCIENCE, TRANSFER TRACK #2, AS-T

PLANNNG GUIDE – TRANSFER DEGREE

Program 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 & Information Systems Managers**
- **Network & Computer Systems Administrators**

Transfer

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 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.

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 Chem 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

PLANNNG GUIDE – TRANSFER DEGREE

Program 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

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

The following program map is provided as a guide for a traditional full-time student whose goal is to earn the Associate in Science - Transfer Track #2, AS-T with an emphasis in Engineering. 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.

97 credits

FIRST YEAR

1st Quarter

- CHEM& 161 - General Chem 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, HIST&, 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 202, 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 157-160. 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

PLANNNG GUIDE – TRANSFER DEGREE

Program 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 provides 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

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 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.

FIRST YEAR

1st Quarter

- CSS 103 - First Quarter Experience (2)
- CHEM& 161 - General Chem w/Lab I (5)
- MATH& 141 - Precalculus I (5)
  or MATH& 151 - Calculus I

TOTAL CREDITS: 12

2nd Quarter

- CHEM& 162 - General Chem w/Lab II (5)
  or ASTR& 101 - Intro to Astronomy
- ENGL& 101 - English Composition I (5)
- MATH& 142 - Precalculus II (5)
  or MATH& 152 - Calculus II

TOTAL CREDITS: 15

3rd Quarter

- MATH& 151 - Calculus I (5)
  or MATH& 153
- 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

ARTICULATED ACADEMIC TRANSFER DEGREE

ASSOCIATE OF VISUAL ARTS, AVA

PLANNNG GUIDE – TRANSFER DEGREE

Program 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 Skagit Valley College 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**

Degree Requirements

General Education Learning Outcomes, pp 145-146
Program Learning Outcomes, p 146

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 ***one course from the following:***
     - ENGL& 102 - Composition II (5)
     - 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), excluding PE 200, PE 204, & 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 159-160, allowed.

9. Other Recommended Courses

- CMST& 220 - Public Speaking (5)

Program Map

The program map is provided as a guide for a traditional full-time student whose goal is to earn the Associate of Visual Arts degree. The program map includes required GER courses for WSU. 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.

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 157-160. 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 157-160. 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 157-160. 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

To help transfer students become better prepared in selected academic majors, SVC offers the following degrees that transfer to Washington State four-year institutions.

BIOLOGY, DTA/MRP

PLANNNG GUIDE – TRANSFER DEGREE

Program Overview

Biology courses at Skagit Valley College 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.

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 & 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**
- **Evergreen State College**
- **Saint Martin's University**
- **Seattle University**
- **University of Washington**
- **Washington State University**
- **Western Washington University**
- **Western Governor's University**
- **Whitworth**

...our 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 145-146
Program Learning Outcomes, p 146

- *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 157-160, 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 Chem w/Lab I (5) *
- CHEM& 162 - General Chem w/Lab II (5) *
- CHEM& 163 - General Chem 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 159-160,** may be applied toward the 90-credit minimum for the degree.

Full year sequence of organic chemistry for majors:

- CHEM& 241 - Organic Chem I (4)
- CHEM& 242 - Organic Chem II (4)
- CHEM& 243 - Organic Chem III (3)
- CHEM& 251 - Organic Chem Lab I (2) *
- CHEM& 252 - Organic Chem 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 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.

FIRST YEAR

1st Quarter

- CHEM& 161 - General Chem 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 Chem 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 Chem w/Lab III (5)
- MATH& 151 - Calculus I (5)
- Social Science Course (5)
  Suggested: ANTH& 206, ECON 101, GEOG& 100, HIST&, 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, HIST&, 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 require-

ments 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, HIST&, 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

PLANNNG GUIDE – TRANSFER DEGREE

Program 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 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 145-146
Program Learning Outcomes, p 146

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 - Intro 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:*

  - **Gonzaga:** *Management Information Systems, BMIS 124.*
  - **PLU:** *Computerized Information Systems, CSCE 120, or an equivalent course or skills test.*
  - **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.

FIRST YEAR

1st Quarter

- ACCT& 201 - Prin of Accounting I (5)
- BUS& 101 - Intro 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

PLANNNG GUIDE – TRANSFER DEGREE

Program 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 43. 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 & Information Systems Managers**
- **Network & 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**
- **Evergreen State College**
- **Gonzaga University**
- **Heritage University**
- **Pacific Lutheran**
- **Seattle Pacific University**
- **Seattle University**
- **University of Washington**
- **Washington State University**
- **Western Washington University**
- **Western Governor's University**
- **Whitworth University**

...our 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 145-146
Program Learning Outcomes, p 146

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)
- **Gonzaga, Heritage, Whitworth, WWU, WSU:** PHYS& 243 and PHYS& 233 (6)
- **WSU, Pacific Lutheran, Seattle Pacific, Seattle University:** 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

- **Gonzaga:** Recommends Calculus 4, Critical Thinking (Symbolic Logic), Differential Equations, and Intro to Literature to fulfill graduation requirements
- **Heritage:** Discrete Math and Statistics will be evaluated for comparability to Heritage's SPSC 231 and Math 221 courses*
- **Pacific Lutheran:** Intro to CS, Digital Systems, Data Structures, Statistics, and Discrete Structures will be evaluated for comparability to PLU's, CSCE 144, 231 270, and Math 242, 245 courses*
- **Seattle Pacific:** Prefers C++ but accepts Java with SPU bridge course. Math& 153 will be evaluated for comparability to SPU's Math 1236*
- **Seattle University:** Programming and Problem Solving 1 and 2 will be evaluated for comparability to CPSC 1420 and 1430 courses*
- **WSU Pullman & 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.
- **Whitworth:** Recommends electives include one Fine Art and one course fulfilling "American Diversity"

** Other lower level courses taken by Computer Science majors, which may need to be taken prior to graduation. Similar courses taken at other institutions will be evaluated at time of transfer and credit may be applied towards major, general education or electives as appropriate.*

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.

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

PLANNNG GUIDE – TRANSFER DEGREE

Program Overview

Skagit Valley College 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 new statewide DTA/MRP music degree, is especially designed for music majors.

Performing ensembles are also an important part of your musical development. Skagit Valley College 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 Jazz Ensemble, and a number of music classes in various areas that include History of Jazz; History of Rock and Roll; Music Appreciation, and World Music. 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 Music Direct Transfer Agreement, 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. This degree will be granted to SVC students completing a cumulative 2.0 GPA. Meeting the minimum requirements does not guarantee admission into the major. 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 145-146
Program Learning Outcomes, p 146

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.

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& 141
  - MATH& 146
- 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
- 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
- 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**

Transfer

If you are considering a major in Nursing and transferring to...

- **Central Washington University**
- **Eastern Washington University**
- **Heritage University**
- **Pacific Lutheran University**
- **St. Martin's University**
- **Seattle Pacific**
- **University of Washington**
- **UW Bothell**
- **Washington State University**
- **Western Washington University**
- **Western Governor's University**

...our Transfer Program Planning Guide is designed to provide you with recommended courses to complete your 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.

Learning Outcomes

General Education Learning Outcomes, pp 145-146

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 Skagit Valley College 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 - 3343 Peachtree Road, NE, Suite 850, 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 (BLS) CPR card. 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 (RN or LPN to RN) 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.

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.

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 **www.skagit.edu/nursing**.

NURSING, DTA/MRP

PLANNNG GUIDE – TRANSFER DEGREE

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 **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 145-146

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, 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.

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 & Pract: D (7)
  LECTURE
- NURS 172 - Nursing Fundamentals-Skills & Pract: D (2)
  CLINICAL
- NURS 173 - Nursing Fundamentals-Skills & 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 A & P II (5) *
- BIOL& 260 - Microbiology (5) *
- CHEM& 121 - Intro to Chemistry (5) *
- NUTR& 101 - Nutrition (5)

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 & Pract: D (7)
  LECTURE
- NURS 172 - Nursing Fundamentals-Skills & Pract: D (2)
  CLINICAL
- NURS 173 - Nursing Fundamentals-Skills & Pract: D (3)
  LAB
- NURS 181 - Nursing M/S Patient-Practicum (6)
  LECTURE
- NURS 182 - Nursing M/S Patient-Practicum (6)
  CLINICAL
- 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 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.

FIRST YEAR

1st Quarter

- NURS 171 - Nursing Fundamentals-Skills & Pract: D (lecture) (7)
- NURS 172 - Nursing Fundamentals-Skills & Pract: D (clinical) (2)
- NURS 173 - Nursing Fundamentals-Skills & 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) (6)

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 & Geriatric Patient (lecture) (6)
- NURS 282 - Nursing Complx M/S & 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

PLANNNG GUIDE – TRANSFER DEGREE

Program Overview

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.

Sample career options include –

- **Registered Nurse**
- **Critical Care Nurse**
- **Acute Care Nurse**

Transfer

If you are considering a major in Nursing and transferring to...

- **Northwest University**
- **Pacific Lutheran University**
- **Seattle Pacific**
- **Seattle University**
- **University of Washington**
- **Walla Walla College**
- **Washington State University**
- **Western Washington University**

...our 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.

Degree Requirements

General Education Learning Outcomes, pp 145-146

Students must complete a minimum of 90 quarter credits in transferable courses, college-level or numbered 100 and above, with a cumulative grade point average of at least 2.0 in order to graduate from SVC with an Associate in Pre-Nursing Degree. At least 25 college-level 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.

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 (10 cr.)**
   - ENGL& 101 - English Composition I (5)
   - ENGL& 102 - Composition II (5)
3. **Quantitative Skills (5 cr.)**
   - MATH& 146 - Introduction to Stats (5)

   Note: *UW Seattle and Seattle University require 10 credits in quantitative/symbolic reasoning with the additional class in college algebra or pre-calculus (at UW Seattle a class in Logic also meets this requirement).*
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.

     Note: *Learning Communities specifically designed for this degree may be offered; consult your advisor for information.*
   - *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.

5. Diversity Requirement

- SOC& 101 - Intro to Sociology: D (5)

Note: *Northwest University (NU) requires ANTH& 206 - Cultural Anthropology: D and does not accept a course in Sociology discipline as a substitute. Students may be admitted to the BSN without Cultural Anthropology if they agree to complete the course at NU in the summer prior to the junior year.*

6. Distribution Requirements (65 cr.)

Select credits from three areas of study: Natural Sciences, Social Sciences, 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 (35 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 - Intro to Chemistry (5) *
- CHEM& 131 - Intro to Organic/Biochemistry (5) *
- NUTR& 101 - Nutrition (5)

Notes

- *Introductory survey courses or review courses do not meet the content level expectations for these natural science requirements.*
- ***Northwest University** requires 2 credits of Genetics, as well. Students may be admitted to the BSN without Genetics, if they agree to complete the course at NU in the summer prior to the junior year.*
- ***UW Seattle** requires a minimum GPA of 3.0 for 3 out of the 7 courses or 2.8 for 4 out of the 7.*
- *This degree requires 35 credits in Natural Sciences with at least 25 credits lab-based.*

B. Social Sciences (15 cr.)

- PSYC& 100 - General Psychology (5)
- PSYC& 200 - Lifespan Psychology (5)
- SOC& 101 - Intro to Sociology: D (5)

Notes

- ***Northwest University** (NU) requires ANTH& 206 - Cultural Anthropology: D and does not accept a course in Sociology discipline as a substitute. Students may be admitted to the BSN without Cultural Anthropology if they agree to complete the course at NU in the summer prior to the junior year.*
- *A curriculum that provides students with an understanding of and sensitivity to human diversity is encouraged **(required by WSU)**. Credits in the Sociology distribution area provide one opportunity for such a curriculum. Choices include: minority, non-western, ethnic or other "area" studies.*

C. Humanities (15 cr.)

- CMST& 220 - Public Speaking (5)
- Select two additional courses from the Distribution Lists - AA-DTA Humanities Distribution list, pp 157-160. No more than 10 credits in one discipline; no more than 5 credits in World Languages, ASL or performance/ skills studio classes.

Notes

- *In order to better prepare for successful transfer, students are encouraged to consult with the institution(s) to which they wish to transfer regarding the humanities courses that best support or may be required as prerequisites to their Nursing curriculum.*
- *A curriculum that provides students with an understanding of and sensitivity to human diversity is encouraged **(required by WSU)**. Credits in the humanities distribution area provide one opportunity for such a curriculum. Choices include: minority, non-western, ethnic or other "area" studies.*

D. Electives (10 cr.)

- Select 5 credits from courses numbered 100 and above and 5 credits from the Distribution Lists - AA-DTA Natural Sciences, Social Sciences, and Humanities Distribution lists, pp 157-160.

Notes

- *A curriculum that provides students with an understanding of and sensitivity to human diversity is encouraged **(required by WSU)**. Elective credits provide one opportunity for such a curriculum. Choices include: minority, non-western, ethnic or other "area" studies.*
- ***UW Seattle** and **Seattle University** require 10 credits in quantitative/symbolic reasoning with the additional class in college algebra or pre-calculus (at UW Seattle a class in Logic also meets this requirement).*

Program Map

90 credits, full-time

The program map is provided as a guide for a traditional full-time student whose goal is to earn the Pre-Nursing DTA/MRP 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.

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 - Intro 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 157-160.** 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, pp 157-160. 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 157-160.** 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 - Intro to Organic/Biochemistry (5)
- SOC& 101 - Intro to Sociology: D (5)
- PE Activity (1)

TOTAL CREDITS: 16

EDUCATION TRANSFER

ASSOCIATE OF EDUCATION, A.Ed.

PLANNING GUIDE

Program Overview

The Associate of 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. Seek out an SVC Early Childhood Education program advisor early in your studies.

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 43.

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 –

- **Preschool Teachers**
- **Education Administrators, Preschool & Childcare Center/Program**
- **Childcare Workers**

Degree Options - Transfer Eligibility

If you are considering a major in Education and transferring to a four-year college or university in Washington state, the Associate of Education degree also allows students to meet the requirements of the Associate of Arts Direct Transfer Agreement, AA-DTA degree, p 43. Upon completion of the A.Ed. requirements, students are eligible to apply to be awarded the 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. You will want 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. 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.

Program Learning Outcomes

General Education Learning Outcomes, pp 145-146.

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

Students must complete 106 quarter credits in transferable courses numbered 100 or above (and 5 credits of MATH 099) with a cumulative grade point average of at least 2.0 in order to graduate from SVC with an *Associate of Education - Early Childhood Education 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. **College & Career Success Skills (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. **Physical Education (3 cr.)**
   - PE 100 - Wellness For Life (1)
   - PE Activity (2)
4. **Quantitative Skills (10 cr.)**
   - MATH 099 - Intermediate Algebra II (5)
   - MATH& 107 - Math in Society (5) or higher

   Note: *Courses selected to meet the Quantitative Skills requirement will not be counted in the Natural Sciences distribution requirement.*
5. **Distribution Requirements (45 cr.)**

   Select credits from three areas of study: *Natural Science, Social Science and Humanities*. See Distribution Lists - AA-DTA, pp 157-160.

   Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.

   A. Natural Sciences (15 cr.)
   - NUTR& 101 - Nutrition (5)
   - PHYS 111 - Matter and Energy in Physics (5)
   - Additional Natural Science course (5)

   B. Social Sciences (10 cr.)
   - SOC 204 - Intro to Stratification and Inequality in America: D (5)
   - Additional Social Science Course (5)

   C. Humanities (15 cr.)
   - SPAN& 121 - Spanish I: D (5)
   - Additional Humanities Courses (10)
6. **Additional ECE/Education Core (5 cr.)**
   - ECED 101 - Child Abuse and Neglect (2)
   - EDUC& 203 - Exceptional Child (3)
7. **Practicum (4 cr.)**
   - EDUC 223 - Practicum and Seminar (1-5)

Program Map

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.

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

SECOND YEAR

4th Quarter

- Humanities course (5)
  See Distribution Lists - AA-DTA, pp 157-160. Discuss specific course requirements with an SVC advisor. Students are responsible for checking specific major requirements of baccalaureate institutions.
- Specialization (3)
- PE 100 - Wellness For Life (1)

TOTAL CREDITS: 9

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 - Intro 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 157-160. 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 157-160. 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 157-160. 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

ASSOCIATE IN APPLIED SCIENCE DEGREES

ASSOCIATE IN APPLIED SCIENCE, AAS

Program 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 145-146
Program Learning Outcomes, p 146

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

Program 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 or the Associate in Science - Transfer Track #1, AS-T and Associate in Science - Transfer Track #2, 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 Idaho-College of Natural Resources:** Environmental Conservation, AAS-T.
- **University of Phoenix:** Reviews each AAS-T and AAS degree program individually for transferability and BA completion requirements.
- **University of Washington College of the Environment, College of Forest Resources:** Environmental Conservation, AAS-T.

Degree Requirements

General Education Learning Outcomes, pp 145-146
Program Learning Outcomes, p 146

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 & CERTIFICATES

PLANNING GUIDES

AUTOMOTIVE TECHNOLOGY

PLANNNG GUIDE

Program Overview

The Automotive Technology, AAS program holds a master certification from the *National Automotive Technician's Education Foundation* (NATEF). 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, AAS is a competency-based program designed to prepare students for a career in the automotive industry. The program's NATEF 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 car dealerships, independent repair shops, specialty shops and fleet agencies.

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, drivability, light-duty diesel, engine machining, and hybrid-electric/electric vehicles.

Sample career options include –

- **Automotive Body & Related Repairers**
- **Automotive Specialty Technicians**
- **Automotive Master Mechanics**

Workforce

If you are interested in working in the field of Automotive, our Planning Guide is designed to provide you with recommended courses to complete your Automotive Technology, AAS degree. Of course, educational plans may vary, based on which quarter you begin, how many credits are taken, and placement into Math and English. First year students start Fall quarter. To keep you on the best pathway, we encourage you to consult with an Academic Advisor for scheduling options.

Degree 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.

Learning Outcomes

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 pro-

gram at the beginning of Fall quarter. Advanced standing may be requested for prior education or experience.

Specialized Program Information

CAREER & 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 at **https://www.skagit.edu/academics/high-school-programs/dual-credit/**.

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 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.

AUTOMOTIVE TECHNOLOGY, AAS

PROGRAM MAP

The program map is provided as a guide for a traditional full-time student whose goal is to earn the Automotive 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. First year students start Fall quarter by enrolling in AT 101, AT 121, AT 133, and CSS 103.

113 credits

FIRST YEAR

Fall Quarter

- AT 101 - Industrial Safety & 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 & Drivetrains (12)
- † WMATH 100 - Professional Technical Applied Math (5)
- WT 133 - Oxy-Fuel Processes for Beginners (2)

TOTAL CREDITS: 19

SECOND YEAR

Fall Quarter

- AT 205 - Automotive Engines (8)
- AT 210 - Drivability 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 - Drivability II (8)
- AT 215 - Alternative Fuels and Power Technologies (7)
- CMST& 210 - Interpersonal Communication: D (5)

TOTAL CREDITS: 21+

Spring Quarter

- AT 201 - Automotive Parts & Service Specialist (3)
- AT 206 - Automotive Air Conditioning (4)
- AT 220 - Professional Lab Techniques (8)
  or AT 225 - Engine Machining I (8)
- MANF 121 - First Aid and CPR (1) - *no substitutions*

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.

‡ AT 199 may be taken at any time after the first year, including summer quarter.

AUTOMOTIVE CERTIFICATES

PROGRAM MAPS

Students who are not pursuing an AAS degree may earn a certificate focusing on specific skills within the Automotive Technology program. 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

- AT 205 - Automotive Engines (8)
- AT 210 - Drivability I (7)
- AT 212 - Drivability II (8)
- AT 215 - Alternative Fuels and Power Technologies (7)

AUTOMOTIVE PARTS & SERVICE SPECIALIST CERTIFICATE

25 credits

- AT 101 - Industrial Safety & Fundamentals (3)
- AT 199 - Cooperative Education Experience (1)
- AT 201 - Automotive Parts & 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

PROGRAM MAPS

AUTOMOTIVE ELECTRICAL SPECIALIST MICRO-CERTIFICATE

15 credits

- AT 121 - Automotive Electrical I (7)
- AT 133 - Chassis Electrical II (8)

AUTOMOTIVE ENGINE MACHINIST MICRO-CERTIFICATE

16 credits

- AT 205 - Automotive Engines (8)
- AT 225 - Engine Machining I (8)

AUTOMATED SYSTEMS TECHNOLOGY MICRO-CERTIFICATE

15 credits

- MANF 145 - Electronics Fundamentals (5)
- MANF 150 - Sensor Systems and Applications (5)
- MANF 156 - Introduction to Automated Systems (5)

AUTOMOTIVE TRANSMISSION SPECIALIST MICRO-CERTIFICATE

12 credits

- AT 141 - Transmissions & Drivetrains (12)

AUTOMOTIVE UNDERCAR SPECIALIST, MICRO-CERTIFICATE

15 credits

- AT 124 - Brake Systems (8)
- AT 131 - Suspension, Steering and Alignment (7)

BASIC LAW ENFORCEMENT RESERVE ACADEMY (BLERA)

PLANNNG GUIDE

Program Overview

Leverage your opportunity for employment in the criminal justice field by becoming a fully commissioned reserve police officer. SVC's program provides you with the training you need, and assists in obtaining your Washington State certification. Demonstrate that you bring value, skills and dedication to your agency by becoming a reserve officer now.

Sample career options include –

- **Reserve Officer**

Workforce

If you are interested in working in the field of Basic Law Enforcement, our Planning Guide is designed to provide you with recommended courses to complete your Basic Law Enforcement Reserve Academy certificate. To keep you on the best pathway, we encourage you to contact Rick Mossman at rick.mossman@skagit.edu for scheduling options.

Program Learning Outcomes

General Education Learning Outcomes, pp 145-146.

Graduates of the Basic Law Enforcement Reserve Academy program will be able to:

- Perform the duties and responsibilities of a reserve police officer.

Program Admission

- You must be 21 years of age or older and be physically and mentally fit for service.
- You must be sponsored by a participating law enforcement agency and undergo a criminal history and background check, psychological exam, and polygraph.
- You must have been through an approved reserve officer training program, and received certification by their respective State's Law Enforcement Training Academy. Evidence of curriculum compliance from all individuals, out of state, desiring credit, must be produced.
- Local students who have satisfied the reserve officer training requirement for law enforcement, under the Washington Aid Peace Officer's Powers Act, RCW 10.93, which satisfies performance objectives grouped by the twelve basic instructional blocks, will be given credit upon receipt of compliance.
- A list of potential sponsoring agencies is available upon request.

BLERA CERTIFICATES

PROGRAM MAP

BLERA CERTIFICATE

14 credits

A certificate is awarded to students who complete the following with a 2.0 grade point average or above:

- CJ 236 - Police Academy I (7)
- CJ 237 - Police Reserve Academy II (7)

For additional information or BLERA application, contact:
Rick Mossman, Commander
Public Safety Academies | Mount Vernon Campus
2405 East College Way, Mount Vernon, WA 98273
360.416.7829 | rick.mossman@skagit.edu

BUSINESS MANAGEMENT

PLANNNG GUIDES

Program Overview

The Business Management 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.

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.

Students may choose to earn a two-year Associate in Applied Science Degree, AAS in Business Management or a four-quarter certificate in Entrepreneurship.

Sample career options include –

- **Front-Line Supervisor of Office & Administrative Support Workers**
- **First-Line Supervisors of Retail Sales Workers**
- **Sales Managers**
- **Human Resource Specialist**

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.

Program Learning Outcomes

General Education Learning Outcomes, pp 145-146.

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 & Advising Services.

Workforce

If you are interested in working in the field of Business Management, our Planning Guide is designed to provide you with recommended courses to complete your Business Management degree. Of course, educational plans may vary, based on which quarter you begin, how many credits are taken, and placement into Math and English. To keep you on the best pathway, we encourage you to consult with an Academic Advisor for scheduling options.

Specialized Program Information

CAREER & 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.

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.

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.

BUSINESS MANAGEMENT, AAS

PLANNNG GUIDE

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.

Degree Requirements

General Education Learning Outcomes, pp 145-146
Program Learning Outcomes, p 146

An ampersand (&) denotes Common Course Numbering

1. **First Quarter Experience**
   - BUS& 101 - Intro to Business (5)
2. **Accounting**
   - ACCT& 201 - Prin of Accounting I (5)
   - ACCT& 202 - Prin of Accounting II (5)
   - ACCT& 203 - Prin of Accounting III (5)
3. **Business**
   - BUS 112 - Personal Finance (5)
   - BUS 120 - Business Computers and Applications (5)
   - BUS 122 - Social Media& Digital Marketing (5)
   - BUS 180 - Leadership Development& Management Skills: D (5)
   - BUS& 201 - Business Law (5)
   - BUS 205 - Human Resources Management (5)
   - BUS 240 - Fundamentals of Marketing (5)
   - BUS 242 - Professional Selling and Sales Management (5)
   - BUS 280 - Entrepreneurship and Small Business Management (5)
4. **Communication Skills**
   - ENGL& 101 - English Composition I (5)
5. **Quantitative Skills**
   - BUS 111 - Business Math (5) Or
   - MATH& 146 - Introduction to Stats (5) Or
   - MATH& 148 - Business Calculus (5)
6. **Economics**
   - ECON 101 - Introduction to Economics (5)
     or ***one of the following:***
     - ECON& 201 - Micro Economics (5)
     - ECON& 202 - Macro Economics (5)
7. **Human Relations**
   - CMST& 220 - Public Speaking (5)
8. **Internship/Cooperative Education**
   - BUS 199 - Internship / Cooperative Education (3)
9. **Physical Education**
   - PE 200 - First Aid, Safety, and CPR (2)
     or PE 100 - Wellness For Life (1) and a PE activity (1)

PROGRAM MAP

FIRST YEAR

1st Quarter

- ACCT& 201 - Prin of Accounting I (5)
- BUS& 101 - Intro 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 ***one of the following:***
  - BUS 111
  - MATH& 148
- PE 100 - Wellness For Life (1)

TOTAL CREDITS: 16

3rd Quarter

- ACCT& 203 - Prin of Accounting III (5)
- BUS 180 - Leadership Development & 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& 201 - Micro Economics (5)
  or ECON 101
  or ECON& 202.

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 & Digital Marketing (5)
- BUS 199 - Internship / Cooperative Education (3 credits required)
- 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

PROGRAM MAPS

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.

- ACCT& 201 - Prin of Accounting I (5)
- BUS& 101 - Intro 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 & Digital Marketing (5)
- BUS 180 - Leadership Development & 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

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.

- BUS 111 - Business Math (5)
  or MATH& 146 - Introduction to Stats (5)
- BUS 120 - Business Computers and Applications (5)
- BUS& 101 - Intro to Business (5)

MANUFACTURING TECHNOLOGY

COMPOSITES TECHNOLOGY

PLANNING GUIDES

Program Overview

The Composites Technology (CMPST) program at Skagit Valley College 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 work toward taking American Composites Manufacturers Association (ACMA) certification exams - the standard for composites credentialing. The Composites program offers the student options for short and long-term certificates.

Program Learning Outcomes

General Education Learning Outcomes, pp 145-146

Graduates of the Composites Technology program will be able to:

- Possess the skills and knowledge required for successful entry-level employment in composite-related industries.
- Understand the safety hazards and workplace precautions that need to be taken when working with hazardous chemicals typically found in a shop environment.
- Identify resins, initiators, promoters, solvents and all chemicals by sight, smell and touch, and handle according to established safety standards.
- Demonstrate ability to correctly apply various types of catalyzed coatings and paints.
- Demonstrate ability to use the correct technique for repairing a variety of composite structures.
- Demonstrate ability to develop a full size plug from a scaled drawing, and correctly finish the surface using various mediums current to industry standards.
- Correctly perform contact molding, vacuum bagging techniques, out of oven autoclave, and oven curing techniques.
- Demonstrate silicone bag part building and rigid B side part building techniques using current industry standards.
- Distinguish and operate support equipment in Closed Cavity and Light Resin Transfer Method.
- Demonstrate ability to use advanced composite nomenclature related to equipment, tools, accessories, and materials commonly used in the composites workplace.
- Understand environmental issues related to manufacture and use of composite structures.
- Understand and follow laws and regulations as they relate to composites certifications.

Why enroll in the Composites Technology Program at Skagit Valley College?

- The field of composites is growing;
- The Skagit Valley College program prepares students for entry into many industries using composite technology;
- Courses are developed and taught by leaders in the field: instructors hold ACMA credentials and have worked in industry;
- Comprehensive courses integrate skill sets with technology found in industry and supported by industry input.

For more information, please contact the department chair:

Bruce Poole | 360.416.6549 | bruce.poole@skagit.edu

COMPOSITES CERTIFICATES

PROGRAM MAPS

Program Maps are an integral part of our Planning Guide. Each Program Map includes a suggested sequence of courses allowing you to earn a certificate. 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.

ADVANCED COMPOSITES MANUFACTURING TECHNICIAN CERTIFICATE

Marine, aerospace, transportation, 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 composite technicians who can work with these new materials and processes. The composites program at Skagit Valley College is designed to provide a comprehensive education for the next generation of composite technicians. This certificate program provides students with skills and knowledge in plant safety, manufacture and repair processes, composite materials, gel coat/controlled spraying/fluid handling applications, vacuum infusion process, light resin transfer molding (RTM), part and tooling design techniques and composites strength of materials. Students learn chemical safety, design, modern closed mold techniques, and construction of molds to construct a variety of parts. Students work toward taking American Composites Manufacturers Association (ACMA) certification exams - the standard for composites credentialing. The SVC Advanced Composites Manufacturing Technician Certificate is awarded upon completion of certificate courses. All coursework must be 100-level or above with both an overall 2.0 grade point average (GPA) and a minimum C- grade in all required courses. Contact the department chair for more information: bruce.poole@skagit.edu.

REQUIRED COURSES

- CMPST 121 - Composites Construction and Repair (3)
- CMPST 123 - Composite Vacuum Infusion/Light RTM Process (5)
- CMPST 127 - Advanced Composites Construction and Repair (5)
- CMPST 220 - Composite Tooling (5)
- WMATH 100 - Professional Technical Applied Math (5) or
- MT 102 - Marine Applied Mathematics (5)
- MANF 120 - Industrial Safety (2)
- MANF 121 - First Aid and CPR (1)
- MANF 122 - Material Science in Manufacturing (2)
- MANF 125 - Precision Measurement and Tools (3) or
- MT 105 - Safety, Tools, and Fastenings (6)

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.

REQUIRED COURSES

- CMPST 121 - Composites Construction and Repair (3)
- CMPST 123 - Composite Vacuum Infusion/Light RTM Process (5)
- CMPST 127 - Advanced Composites Construction and Repair (5)

COMPOSITES WIND BLADE REPAIR MICRO-CERTIFICATE

This Micro-Certificate provides students with an overview of common composite materials and processes, solid laminate and sandwich construction methods, vacuum bagging materials and processes, core materials used in structures and repairs, damage detection methods - including repair methods and techniques. This certificate provides hands-on repair and reconstruction practices, including the use of appropriate tools, such as hot bonders to make composite wind blade repairs. Students learn how to determine the extent of damage, how to remove damaged material, and how to execute proper repair preparation. A certificate is awarded to students who complete the following course with a 2.0 grade point average (GPA) or above.

REQUIRED COURSES

- CMPST 128 - Composites Windblade Construction and Repair (5)

CRAFT BREWING

PLANNNG GUIDE

Program 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, Skagit Valley College 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 145-146

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)**

Workforce

If you are interested in working in the field of Brewing, our Workforce Planning Guide is designed to provide you with recommended courses to complete your Craft Brewing Certificate. Of course, educational plans may vary, based on which quarter you begin, how many credits are taken, and placement into Math and English. To keep you on the best pathway, we encourage you to consult with an Academic Advisor for scheduling options.

CRAFT BREWING CERTIFICATE

PROGRAM MAP

The Craft Brewing 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 several internship experiences at local breweries. The program is taught primarily in the evenings and online. One exception is brewing lab days which are arranged with the instructor. Students must maintain a 2.0 GPA or above in all required course work.

CRAFT BREWING CERTIFICATE

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)
- BIOL 150 - Microbiology and Chemistry Laboratory Techniques for Brewing (1)

TOTAL CREDITS: 15

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)

TOTAL CREDITS: 13

Spring

- BRW 130 - Business of Craft Brew (4)
- BRW 135 - Tradition and Innovation in Beer Styles (2)
- BRW 198 - Brewery Capstone Project (1)
- BRW 199 - Brewery Internship (5)

TOTAL CREDITS: 12

CULINARY ARTS

PLANNING GUIDE

Program Overview

Skagit Valley College 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.

Flexible teaching techniques are 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 diversity.

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.

The Culinary Arts program is among the few culinary programs accredited by the prestigious American Culinary Federation Education Foundation (ACFEF). Course content emphasizing 'hands-on' lab work and a variety of flexible teaching techniques are 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.

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 Skagit Valley College Culinary Arts program is the one for you!

Celebrity Chefs, Iron Chefs, Food Network shows-everywhere you look today, the public is excited about culinary arts. As this excitement grows, so does the food industry. Trained, qualified chefs are in demand and the Skagit Valley College Culinary Arts program is the place to prepare you for this emergent industry.

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 & 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 & Sanitation (ServSafe).

- **Certified Culinarian Certificate**
- **Culinary: Professional Cooking Certificate**

Program Learning Outcomes

General Education Learning Outcomes, pp 145-146.

Graduates of the **Culinary Arts program** 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 asses 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 Arts, Culinary emphasis program** 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 asses 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 techniques.

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.

Workforce

If you are interested in working in the field of Culinary Arts, our Planning Guide is designed to provide you with recommended courses to complete your Culinary Arts, AAS degrees. Of course, educational plans may vary, based on which quarter you

begin, how many credits are taken, and placement into Math and English. To keep you on the best pathway, we encourage you to consult with an Academic Advisor for scheduling options.

Program Maps

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.

CULINARY ARTS, BAKING & PASTRY, AAS

Sample career options include –

- **Baker**
- **Chefs & Head Cooks**
- **Cook, Restaurant**

PROGRAM MAP

FIRST YEAR

1st Quarter
- CUL 123 - Safety & 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, Sauces, and Soups (3)
- CUL 173 - The Cold Kitchen (3)
- CUL 174 - Food Preparation Theory (3)

TOTAL CREDITS: 18

3rd Quarter
- CUL 101 - Sustainable Food System Practices (3)
- CUL 210 - Human Resources Management and Supervision (3)
- CMST& 210 - Interpersonal Communication: D (5)
  or CMST& 220 - Public Speaking (5)
- † ENGL& 101 - English Composition I (5)

TOTAL CREDITS: 16

SECOND YEAR

4th Quarter
- CUL 240 - Bakery Sous Chef Lab (10)
- OBT 162 - Microsoft Office Basics (3)
  or OBT 122 - MS Word I (3)
- √ PE 200 - First Aid, Safety, and CPR (2)

TOTAL CREDITS: 15

5th Quarter
- ‡ CUL 199 - Cooperative Education Experience (5)
- CUL 236 - Controlling Foodservice Costs (3)
- CUL 237 - Beer, Wine and Spirits (3)
- NUTR& 101 - Nutrition (5)

TOTAL CREDITS: 16

6th Quarter
- CUL 239 - Chocolate, Sugar & Fondant Cakes (3)
- CUL 242 - Advanced Breads and Pastry (10)
- CUL 264 - Advanced Breads & 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 EMPHASIS, AAS

Sample career options include –

- **Food Service Manager**
- **Chefs & Head Cooks**
- **Cook, Restaurant**

PROGRAM MAP

FIRST YEAR

1st Quarter
- CUL 123 - Safety & 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, Sauces, and Soups (3)
- CUL 173 - The Cold Kitchen (3)
- CUL 174 - Food Preparation Theory (3)

TOTAL CREDITS: 18

3rd Quarter
- CUL 101 - Sustainable Food System Practices (3)
- CUL 210 - Human Resources Management and Supervision (3)
- CMST& 210 - Interpersonal Communication: D (5)
  or CMST& 220 - Public Speaking (5)
- † ENGL& 101 - English Composition I (5)
- √ PE 200 - First Aid, Safety, and CPR (2)

TOTAL CREDITS: 18

SECOND YEAR

4th Quarter (SUMMER)
- CUL 184 - Restaurant Production Theory (3)
- CUL 185 - American Regional Cuisines (10)
- OBT 162 - Microsoft Office Basics (3)
  or OBT 122 - MS Word I (3)

TOTAL CREDITS: 16

5th Quarter
- CUL 238 - Garde Manger (3)
- CUL 241 - International Cuisines (10)
- CUL 284 - Restaurant Management (3)

- CUL 298 - Culinary Capstone Project (1)

TOTAL CREDITS: 17

6th Quarter

- ‡ CUL 199 - Cooperative Education Experience (5)
- CUL 236 - Controlling Foodservice Costs (3)
- CUL 237 - Beer, Wine and Spirits (3)
- NUTR& 101 - Nutrition (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. (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

PROFESSIONAL COOKING, CERTIFICATE

PROGRAM MAP

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
- CUL 165 - Baking Lab

2nd Quarter

- CUL 170 - Introduction to Culinary Arts
- CUL 171 - Cooking Fundamentals
- CUL 172 - Stocks, Sauces, and Soups
- CUL 173 - The Cold Kitchen
- CUL 174 - Food Preparation Theory

3rd Quarter

- CUL 184 - Restaurant Production Theory
- CUL 185 - American Regional Cuisines

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 & Sanitation (3)
- CUL 199 - Cooperative Education Experience (1)
- CUL 237 - Beer, Wine and Spirits (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)

CERTIFIED CULINARIAN, CERTIFICATE

PROGRAM MAP

There are three paths that a student can take to achieve a certification through the American Culinary Federation:

10. Students completing the **Professional Cooking Certificate** plus CUL 210, NUTR& 101, and 150 hours of CUL 199, are entitled to certification as a Certified Culinarian by the American Culinary Federation.
11. The graduates of a **Culinary Arts Associate of Applied Science Degree** are entitled to certification as Certified Culinarian.
12. The graduates of a **Culinary Arts Associate of Applied Science Degree in Baking & Pastry** are entitled to certification as Certified Pastry Culinarian by the American Culinary Federation.

DENTAL

PLANNNG GUIDE

Program Overview

The primary goal of the collaborative Dental Assisting Bridge Program is to provide SVC students an opportunity to complete all of the required prerequisite and academic courses needed to successfully transfer to BTC's accredited Dental Assisting program where they can complete the certificate or the two-year degree option.

The **Dental Assisting Bridge (DEN) Program** is a collaborative educational program being offered through a partnership between Skagit Valley College (SVC), Bellingham Technical College (BTC), and the Northwest Career and Technical Academy (NCTA) - located on the SVC campus. The program operates a full-functioning dental clinic, staffed with dental professionals, providing students with real-world, hands-on clinical experiences. BTC provides the Dental Assisting technical core curriculum, and accepts the identified dental course equivalencies for transfer. BTC's Dental Assisting certificate and degree program is accredited by the Commission on Dental Accreditation (CODA). The accreditation allows students, upon graduation from BTC's program, to take the Dental Assistant National Board (DANB) Certification Examination to become a certified Dental Assistant.

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. The program helps prepare students for entry-level employment or transfer to continuing education and completion of a Dental Assistant Certificate or degree at the college level. 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 8:00 a.m. to 10:30 section or the 11:25 to 1:55 p.m. section.

The Dental Assisting Bridge curriculum is designed to provide students with a technical core of entry-level courses required in many college-level Dental Assisting programs. *At completion of this program, students may choose to continue their Dental Assisting education or seek entry-level employment, such as Sterilization Assistant, Dental Receptionist, or employer provided on-the-job training necessary to move into a Dental Assistant position.*

Students who transfer to BTC and complete the full Dental Assistant Certificate program are prepared to be a key member of the dental team and assist the operator chair-side during di-

agnostic, preventative and operative dental procedures, including exposing x-rays, placing sealants, polishing teeth, preparing dental materials, and placing temporary restorations. Most Dental Assistants are employed by private dental offices, but may also be employed by orthodontists, periodontists, hospitals, dental schools, state and local public health departments, federal agencies (including the military), or in clinics.

Qualified students who complete the full-year Bridge Program may be eligible to earn up to 40.5 college credits that can be applied towards completion of BTC's 85.5 credit Dental Assisting Certificate, or 90.5 credit AAS degree. Taking these courses on the SVC campus will save students time and money towards completion of a Dental Assisting degree or certificate. These courses may also transfer to other college's dental-related programs. Students are advised to consult with a counselor/advisor about transfer of credit. See **www.skagit.edu/dental** for more detailed information about eligibility requirements and process for transferring credits to BTC.

Sample career options include –

- **Dental Assistant**
- **Dental Laboratory Technician**
- **Medical Equipment Preparers**

Program Learning Outcomes

General Education Learning Outcomes, pp 145-146

Graduates of the Dental Assisting program will be able to:

- Demonstrate academic, technical & professional skills that effectively contribute to the dental healthcare team;
- Demonstrate cognitive retention of dental terminology, theory and science;
- Perform expanded functions such as sealant placement, coronal polish, fluoride application, oral hygiene instruction, rubber dam isolation, and preparing dental materials;
- Practice four-handed chair-side dentistry on general chair-side procedures;
- Perform basic dental front office skills;
- Demonstrate critical thinking, teamwork, problem solving, communication, and positive work ethics as they directly relate to the dental assistant profession;
- Prepare for continuing advanced education to complete a Dental Assisting Certificate or AAS Degree program;
- Prepare to obtain an entry-level position in their field of study.

Workforce

If you are interested in working in the Dental field, our Workforce Planning Guide is designed to provide you with recommended courses to complete your Dental Assisting Bridge or Dental Foundations certificate. Of course, educational plans may vary, based on which quarter you begin, how many credits are taken, and placement into Math and English. To keep you on the best pathway, we encourage you to consult with an Academic Advisor for scheduling options.

Program Admissions

Please apply at Enrollment Services. Students may enter the Dental Assistant program at the beginning of Fall quarter. For more information, contact the Department Chair or Enrollment Services.

Program Maps

Program Maps are an integral part of our Planning Guides with a suggested quarterly sequence of courses to allow you to earn your degree or certificate within two years (or less) 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.

A certificate is awarded to those students who complete courses with a minimum C grade or above in each course. Fall quarter start only. Courses must be taken in sequence. Consult with department chair or SVC counselor.

DENTAL ASSISTING BRIDGE CERTIFICATE

PROGRAM MAP

FIRST YEAR

Fall Quarter

- DEN 100 - Introduction to Dental Assisting (1)
- DEN 105 - Head and Neck Anatomy (2)
- DEN 114 - Dental Sciences (4)
- ^ AHE 102 - Basic Medical Terminology (5)
- † ENGL& 101 - English Composition I (5)

TOTAL CREDITS: 17

Winter Quarter

- DEN 110 - Dental Foundations (5)
- ∞ AHE 106 - Anatomy & Physiology (6)
- AHE 200 - First Aid and Emergency Procedures (3)
- † MATH& 107 - Math in Society (5)
  or WMATH 100 - Professional Technical Applied Math (5)

TOTAL CREDITS: 19

Spring Quarter

- DEN 112 - Chairside Assisting I (7)
- AHE 128 - Introduction to Dental Clinic (2)
- CMST& 210 - Interpersonal Communication: D (5))
  or PSYC& 100 - General Psychology (5)

TOTAL CREDITS: 14

NOTE:

^ AHE 102 may be taken summer quarter prior to starting the Dental program.

∞ AHE 106 may be taken either Winter or Spring quarter; AHE 102 is a prerequisite.

† Students who do not receive an appropriate test score will require additional coursework to develop necessary skills for entry into class.

DENTAL FOUNDATIONS CERTIFICATE

PROGRAM MAP

FIRST YEAR

Fall Quarter

- DEN 100 - Introduction to Dental Assisting (1)
- DEN 105 - Head and Neck Anatomy (2)

- DEN 114 - Dental Sciences (4)
  TOTAL CREDITS: 7

Winter Quarter
- DEN 110 - Dental Foundations (5)
- AHE 200 - First Aid and Emergency Procedures (3)
  TOTAL CREDITS: 8

Spring Quarter
- AHE 128 - Introduction to Dental Clinic (2)
- DEN 112 - Chairside Assisting I (7)
  TOTAL CREDITS: 9

DIESEL POWER TECHNOLOGY

PLANNNG GUIDE

Program 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 & Truck Mechanics & Diesel Engine Specialists**
- **Farm Equipment Mechanics & Service Technicians**
- **Mobile Heavy Equipment Mechanics**

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 Learning Outcomes

General Education Learning Outcomes, pp 145-146.

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.

Workforce

If you are interested in working in the Diesel field, our Planning Guide is designed to provide you with recommended courses to complete your Diesel Power Technology, AAS degree. Of course, educational plans may vary, based on which quarter you begin, how many credits are taken, and placement into Math and English. First year students start Fall quarter. 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.

DIESEL POWER TECHNOLOGY, AAS

PROGRAM MAP

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)
- CMST 125 - Professional Communication: D (3)
  or CMST& 210

TOTAL CREDITS: 15

Winter Quarter

- DSL 203 - Diesel Engines II (13)
- PE 200 - First Aid, Safety, and CPR (2)
  or PE 205
- WT 131 - Shielded Metal Arc Welding for Beginners (2)

TOTAL CREDITS: 17

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

PLANNNG GUIDE

Program 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 & Childcare Center/Program**

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.

ECED certificates have been aligned with statewide standards to improve transferability. These certificates are "stackable," i.e. build on each other, beginning with the ECED initial microcertificate, 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 Learning Outcomes

General Education Learning Outcomes, pp 145-146.

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 coursework (ECED& 120 and ECED 223 or EDUC 223) 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. A minimum of six credits of Practicum-Nurturing Relationships (ECED& 120 and ECED 223) is required for completion of the Early Childhood Education AAS degree. A minimum of six credits of Practicum-Nurturing Relationships (ECED& 120 and EDUC 223) is required for completion of the Associate in Education-Early Childhood Education degree.

All ECED courses require extensive reading and writing. Students should expect to participate in both individual and group assignments.

Workforce

If you are interested in working in the field of Early Childhood Education our Planning Guide is designed to provide you with recommended courses to complete your Early Childhood Education, AAS degree. Of course, educational plans may vary, based on which quarter you begin, how many credits are taken, and placement into Math and English. To keep you on the best pathway, we encourage you to consult with an Academic Advisor for scheduling options.

Program Map – AAS

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.

EARLY CHILDHOOD EDUCATION, AAS

PROGRAM MAP

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 *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 - Diversity in Education: D (3)
- EDUC& 203 - Exceptional Child (3)
- Δ Academic Elective (5)
- PE 200 - First Aid, Safety, and CPR (2)

TOTAL CREDITS: 15

Spring Quarter

- ECED 202 - Math and Science Learning for Children (4)
- ECED 223 - Practicum & Seminar (4)
- EDUC 246 - Working with Bilingual Children (3)
- EDUC 260 - Instructional Technology (3)

TOTAL CREDITS: 14

NOTES:

Δ Accepted academic electives include: ART& 100, ART 142, ART 143, ART 144; ASTR& 101; BIOL& 100, BIOL 105, BIOL 133; EASC 102, EASC 111; GEOL& 101, GEOL& 110, GEOL& 208; MUSC 100, MUSC 127; MUSC& 141; NASC 100; NUTR& 101, OCEA& 101; PHYS 111. For a complete course list, please see the department chair.

∞ Specialization, choose one 3-credit class from the following: ECED& 132, ECED& 134, ECED& 139, or ECED& 170.

* 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.

Program Maps – Certificates

A 2.0 GPA in each course is required for these certificates.

All training for these certificates 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.

STATE EARLY CHILDHOOD EDUCATION CERTIFICATE

PROGRAM MAP

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.

FIRST YEAR

Fall Quarter
- ECED& 105 - Introduction to Early Childhood Education (5)
- ECED& 120 - Nurturing Relationships (2)
- ECED& 160 - Curriculum Development (5)
- ECED& 180 - Language and Literacy Development (3)

TOTAL CREDITS: 15

Winter Quarter
- ECED& 107 - Health, Safety, and Nutrition (5)
- ECED& 170 - Learning Environments (3)

and
- EDUC& 130 (3)
  If only ECED& 170 is taken, then one of the following ***is required:***
  - ECED& 132
  - ECED& 134
  - ECED& 139
  - EDUC& 136
- † ENGL& 101 - English Composition I (5)

TOTAL CREDITS: 16

Spring Quarter
- ECED& 190 - Observation and Assessment (3)
- EDUC& 115 - Child Development (5)
- 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

NOTES:
† Students who do not receive an appropriate test score will require additional coursework to develop necessary skills for entry into class.

STATE INITIAL EARLY CHILDHOOD EDUCATION CERTIFICATE

PROGRAM MAP

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.

- ECED& 105 - Introduction to Early Childhood Education (5)
- ECED& 107 - Health, Safety, and Nutrition (5)
- ECED& 120 - Nurturing Relationships (2)

STATE SHORT EARLY CHILDHOOD EDUCATION CERTIFICATE – ADMINISTRATION

PROGRAM MAP

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.

- 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 CERTIFICATE – FAMILY CHILD CARE

PROGRAM MAP

- 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 CERTIFICATE – GENERAL

PROGRAM MAP

- 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 CERTIFICATE – INFANT/ TODDLER CARE

PROGRAM MAP

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.

- 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 CERTIFICATE – SCHOOL AGE CARE

PROGRAM MAP

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.

- 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)

MANUFACTURING TECHNOLOGY

ENGINEERING TECHNOLOGY

PLANNING GUIDES

Program 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 often found in advanced manufacturing-related industries. This unique program is actually a cluster of program areas designed to provide students with "stackable" skills that employers have identified as necessary to enter the manufacturing sector or advance up the career ladder. The program includes multiple degree pathways including transfer degrees.

Program Learning Outcomes

General Education Learning Outcomes, pp 145-146.

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 proficiency in basic AC/DC theory and electrical control. (Automation emphasis)
- Demonstrate te proficient application of composite manufacturing methods, materials and tools. (Composite emphasis)

Program Admissions

Please apply at Enrollment Services. Students may enter the program at the beginning of any quarter. Please be aware that some classes/sequences are not offered every 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 of the Micro-Certificate sequences. 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

CAREER & 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.

Degree Options: AAS & AAS-T

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), and metrology skills necessary to enter the technician level in either a manufacturing lead or maintenance capacity. Students can choose between an automation or composites technology emphasis.

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. See counselor or department chair for details.

ENGINEERING TECHNOLOGY: AAS & AAS-T

PLANNING GUIDE

Program 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 lab.

The Engineering Technology program provides the foundational skills needed for many entry-level manufacturing jobs by introducing students to key workplace skill areas often found in advanced manufacturing-related industries. This unique program is actually a cluster of program areas designed to provide students with "stackable" skills that employers have identified

as necessary to enter the manufacturing sector or advance up the career ladder.

Sample career options include –

- **Electronics Engineering Technician**

Workforce

If you are interested in working in the field of Engineering Technology, our Planning Guides are designed to provide you with recommended courses to complete your Engineering Technology, AAS or AAS-T degree. Of course, educational plans may vary, based on which quarter you begin, how many credits are taken, and placement into Math and English. First year students start Fall quarter. To keep you on the best pathway, we encourage you to consult with an Academic Advisor for scheduling options.

Program Maps: AAS & AAS-T

The program map is provided as a guide for a traditional full-time student whose goal is to earn an Engineering Technology 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: AAS

FIRST YEAR

Fall Quarter

- MANF 110 - Introduction to Manufacturing (3)
- MANF 122 - Material Science in Manufacturing (2)
- MANF 140 - Print Reading in Manufacturing (3)
- CSS 103 - First Quarter Experience (2)
- † ENGL& 101 - English Composition I (5)
- TECD 103 - Introduction to Computer-Aided Design (3)

TOTAL CREDITS: 18

Winter Quarter

- MANF 103 - Introduction to Quality Assurance (3)
- MANF 127 - Manufacturing Math (2)
- TECD 104 - Basic Computer-Aided Design (3)
- CMST& 210 - Interpersonal Communication: D (5)
  or CMST& 220 - Public Speaking (5)
- † WMATH 100 - Professional Technical Applied Math (5)

TOTAL CREDITS: 18

Spring Quarter

- MANF 120 - Industrial Safety (2)
- MANF 121 - First Aid and CPR (1)
- MANF 125 - Precision Measurement and Tools (3)
- MANF 177 - Quality Control Metrics and Applications (5)
- TECD 105 - Computer-Aided Design III (4)

TOTAL CREDITS: 15

Summer Quarter

- TECD 107 - Computer-Aided Design IV (5)

TOTAL CREDITS: 5

SECOND YEAR

Fall Quarter

- MANF 115 - Intro to Computer Numeric Controlled (CNC) Operations (5)
- MANF 145 - Electronics Fundamentals (5)
  or CMPST 121 - Composites Construction and Repair (3)
- MANF 210 - Total Productive Maintenance (3)
- TECD 220 - Computer-Aided Design Studio (5)

TOTAL CREDITS: 18

Winter Quarter

- MANF 150 - Sensor Systems and Applications (5)
  or CMPST 123 - Composite Vacuum Infusion/Light RTM Process (5)
- MANF 190 - Computer Numeric Controlled (CNC) Basics (5)

TOTAL CREDITS: 15

Spring Quarter

- ‡ MANF 199 - Internship Experience (1-15)
- MANF 156 - Introduction to Automated Systems (5)
  or CMPST 127 - Advanced Composites Construction and Repair (5)
- MANF 205 - Advanced Computer Numeric Control (CNC) (5)
- MANF 215 - Advanced Inspection (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.)

‡ MANF 199 may be taken at any time after the first quarter, including summer quarter.

PROGRAM MAP: AAS-T

FIRST YEAR

Fall Quarter

- MANF 110 - Introduction to Manufacturing (3)
- MANF 122 - Material Science in Manufacturing (2)
- MANF 140 - Print Reading in Manufacturing (3)
- CSS 103 - First Quarter Experience (2)
- † ENGL& 101 - English Composition I (5)
- TECD 103 - Introduction to Computer-Aided Design (3)

TOTAL CREDITS: 18

Winter Quarter

- MANF 103 - Introduction to Quality Assurance (3)
- CMST& 210 - Interpersonal Communication: D (5)
  or CMST& 220 - Public Speaking (5)
- † MATH& 141 - Precalculus I (5)
- TECD 104 - Basic Computer-Aided Design (3)

TOTAL CREDITS: 16

Spring Quarter

- MANF 125 - Precision Measurement and Tools (3)
- MANF 177 - Quality Control Metrics and Applications (5)
- MATH& 142 - Precalculus II (5)
- TECD 105 - Computer-Aided Design III (4)

TOTAL CREDITS: 17

Summer Quarter

- TECD 107 - Computer-Aided Design IV (5)

TOTAL CREDITS: 5

SECOND YEAR

Fall Quarter

- MANF 115 - Intro to Computer Numeric Controlled (CNC) Operations (5)
- CHEM& 161 - General Chem w/Lab I (5)
- PHYS& 124 - General Physics Lab I (1)
- PHYS& 134 - General Physics I (5)

TOTAL CREDITS: 16

Winter Quarter

- MANF 120 - Industrial Safety (2)
- MANF 121 - First Aid and CPR (1)

- MANF 190 - Computer Numeric Controlled (CNC) Basics (5)
- ECON& 201 - Micro Economics (5)

TOTAL CREDITS: 18

Spring Quarter

- ‡ MANF 199 - Internship Experience (1-15)
- MANF 205 - Advanced Computer Numeric Control (CNC) (5)
- MANF 215 - Advanced Inspection (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.

‡ MANF 199 may be taken at any time after the first quarter, including summer quarter.

ENVIRONMENTAL CONSERVATION

PLANNNG GUIDES

Program 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 program offers four areas of emphasis.

The effects from landscape uses such as forestry, agriculture, and urban development are the main focus of the Aquatic/Terrestrial emphasis. Students choosing the Marine emphasis will focus on jobs in the marine environment. Graduates in both areas 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.

The Parks Resources Management emphasis is designed to meet the needs of students seeking employment with federal, state, county, city, or private recreational agencies. The Water/Wastewater Treatment Technology emphasis is intended to meet the growing employment needs within water technology fields. Students may need to conduct a job search beyond the local community in order to find the positions they desire in these two areas.

Planning Guides: AAS and AAS-T Degrees

If you are interested in working in the field of Environmental Conservation, our Planning Guides are designed to provide you with recommended courses to complete your degree. Of course, educational plans may vary, based on which quarter you begin, how many credits are taken, and placement into Math and English. To keep you on the best pathway, we encourage you to consult with an Academic Advisor for scheduling options.

Degree and Certificate Options

ASSOCIATE IN APPLIED SCIENCE (AAS) DEGREE

An Associate in Applied Science Degree, AAS is awarded upon completion of the Parks Resource Management emphasis and the Water/Wastewater Treatment Technology emphasis with a minimum of 90 credits of specified technical and related education coursework above 100-level with a minimum 2.0 grade in each course including the general education courses required for the AAS Degree.

- **Environmental Conservation Parks Resources Management, AAS**
- **Environmental Conservation Water or Wastewater Treatment Technology, AAS**

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, Marine Emphasis, or University of Washington & University of Idaho 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.

- **Environmental Conservation (University of Washington & University of Idaho), AAS-T**
- **Environmental Conservation Aquatic or Terrestrial, AAS-T**
- **Environmental Conservation Marine, AAS-T**

Graduates may also use their AAS-T degrees as a transfer degree to the Skagit Valley College Bachelor of Applied Science degree in Environmental Conservation (BASEC), which builds on the existing AAS-T degrees in Environmental Conservation at Skagit Valley College or other comparable AAS-T degrees in natural resources.

In addition, graduates may use the Environmental Conservation (University of Washington & University of Idaho), AAS-T to transfer to the **School of Environmental and Forest Sciences, College of the Environment, University of Washington** and the **College of Natural Resources at the University of Idaho.** The AAS-T and AAS degrees may also be used to transfer to The Evergreen State College, Western Washington University-Fairhaven College, or Central Washington University-Information Technology and Administrative Management. Students who plan to transfer should first work with the Department Chair to develop a two-year schedule of appropriate classes.

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**
- **Environmental Conservation: Water/Wastewater Treatment Technician Certificate**
- **Geographic Information Systems Certificate**

MICRO-CERTIFICATES

- **Advanced Wetland Delineation Micro-Certificate**
- **Basic Wetland Delineation Micro-Certificate**

Program Learning Outcomes

General Education Learning Outcomes, pp 145-146.

Graduates of the Environmental Conservation AAS-T and AAS degrees 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.

Workforce

If you are interested in working in the field of Environmental Conservation, our Workforce Planning Guide is designed to provide you with recommended courses to complete your Environmental Conservation (University of Washington & University of Idaho), AAS-T degree. Of course, educational plans may vary, based on which quarter you begin, how many credits are taken, and placement into Math and English. To keep you on the best pathway, we encourage you to consult with an Academic Advisor for scheduling options.

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 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 our Planning Guide. The courses are designed with the appropriate number of credits to meet degree requirements and are organized in a recommended sequence, allowing you to 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.

ENVIRONMENTAL CONSERVATION PARKS RESOURCES MANAGEMENT, AAS

PROGRAM MAP

Program Overview

The Parks Resources Management emphasis is customized to meet the needs of students seeking employment with federal, state, county, city, or private recreational agencies.

Sample career options include –

- **Forest & Conservation Workers**

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)
- GIS 101 - Introduction to Geographic Information Systems (5)

TOTAL CREDITS: 22

Winter Quarter

- ENVC 112 - Limnology (5)
- ENVC 123 - Fish Biology, Taxonomy, and Life History (5)
- ENVC 130 - Environmental Interpretation (5)
- ENVAG 106 - Soil Science and Conservation (5)
- GIS 105 - Introduction to Global Positioning Systems (GPS) (2)
- GIS 106 - Advanced Global Positioning Systems (2)

TOTAL CREDITS: 24

Spring Quarter

- ENVC 133 - Facilities Maintenance Fundamentals (5)
- ENVC 140 - Plants of Western Washington (5)
- † MATH& 146 - Introduction to Stats (5)

TOTAL CREDITS: 15

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)
- ENVC 231 - Introduction to Mammalogy (5)
  or ENVC 232 - Bird Identification (5)
- ^ PE 200 - First Aid, Safety, and CPR (2)

TOTAL CREDITS: 15+

Winter Quarter

- ^CJ 241 - Park Ranger Law Enforcement Academy (PRLEA) Module 1 (6)
- CJ 242 - Park Ranger Law Enforcement Academy (PRLEA) Module 2 (6)
- CJ 243 - Park Ranger Law Enforcement Academy (PRLEA) Module 3 (6)
- CJ 244 - Park Ranger Law Enforcement Academy (PRLEA) Module 4 (6)

- CJ 245 - Park Ranger Law Enforcement Academy (PRLEA) Module 5 (6)
  or @Electives (12 credit minimum as approved by dept. chair)
- @ENVC elective *or* * LC/GE (5)

TOTAL CREDITS: 30 *or* 17+

Spring Quarter

- ENVC 122 - Stream Ecology (5)
- ENVC 221 - Ecology of Ecosystem Edges/Ecotones (3)
- @ENVC Elec (3-5)
- CMST& 220 - Public Speaking (5)
  or CMST& 210 - Interpersonal Communication: D (5)

TOTAL CREDITS: 18

NOTES

* Learning Community (5-10 credits) or 5 credits of General Education (natural sciences, social sciences, or humanities) from AA-DTA distribution/ENVC electives, 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 ENVC, the sciences, or GIS.

^ CJ 241, CJ 242, CJ 243, CJ 244, and CJ 245 satisfy General Education requirements (LC/GE) and PE 200.

ENVIRONMENTAL CONSERVATION WATER OR WASTEWATER TREATMENT TECHNOLOGY, AAS

PROGRAM MAP

Program Overview

The Water/Wastewater Treatment Technology emphasis allows graduates to find employment in the growing water technology field. Students may need to conduct a job search beyond the local community in order to find a position.

Sample career options include –

- **Water & Wastewater Treatment Plant & System Operators**

PROGRAM MAP, AAS

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)
- GIS 101 - Introduction to Geographic Information Systems (5)

TOTAL CREDITS: 17

Winter Quarter

- ENVAG 106 - Soil Science and Conservation (5)
- † ENGL& 101 - English Composition I (5)
- GIS 105 - Introduction to Global Positioning Systems (GPS) (2)
- GIS 106 - Advanced Global Positioning Systems (2)

TOTAL CREDITS: 14

Spring Quarter

- ‡ ENVC 199 - Cooperative Education (5)
- CHEM& 121 - Intro to Chemistry (5)
  or ***select from one of the following:***
  - CHEM& 110 - Chemical Concepts with Lab (5)
  - CHEM& 161 - General Chem w/Lab I (5)
- † MATH& 146 - Introduction to Stats (5)
  or MATH& 141 - Precalculus I (5)
- PE 200 - First Aid, Safety, and CPR (2)

TOTAL CREDITS: 17

SECOND YEAR

Fall Quarter

- ENVC 202 - Wildlife Biology: D (5)
- ENVC 226 - Current Issues in Water Policy (2)
  or ENVC 225 - Current Issues in Ecology (2)
- MANF 145 - Electronics Fundamentals (5)
- CMST& 220 - Public Speaking (5)
  or CMST& 210 - Interpersonal Communication: D (5)

TOTAL CREDITS: 15

Winter Quarter

- ENVC 105 - Emergency Incident Management System (3)
- @ ENVC Elective *or* * LC/GE (5)
- ENVC 112 - Limnology (5)
- MANF 150 - Sensor Systems and Applications (5)

TOTAL CREDITS: 18

Spring Quarter

- ENVC 133 - Facilities Maintenance Fundamentals (5)
- ENVC 212 - Fluid Flow Laboratory (2)
- ENVC 220 - Wetlands in Managed Landscapes (4)
- ENVC 249 - Introduction to Wastewater Technology (5)

TOTAL CREDITS: 16

NOTE:

*** Learning Community (5-10 credits) or 5 credits of General Education (natural sciences, social sciences, or humanities) from Distribution Lists - AA-DTA 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 ENVC, the sciences, or GIS.

ENVIRONMENTAL CONSERVATION (UNIVERSITY OF WASHINGTON & UNIVERSITY OF IDAHO), AAS-T

PROGRAM MAP

Graduates may use the Environmental Conservation (University of Washington & University of Idaho), AAS-T to transfer to the School of Environmental and Forest Sciences, College of the Environment, University of Washington and the College of Natural Resources at the University of Idaho.

Students who plan to transfer should first work with the Department Chair to develop a two-year schedule of appropriate classes.

Sample career options include –

- **Soil & Water Conservationists**
- **Forest & Conservation Technicians**
- **Water/Wastewater Engineers**

FIRST YEAR

Fall Quarter
- ENVC 101 - Introduction to Watershed Management (5)
- CHEM& 161 - General Chem w/Lab I (5)
- CSS 103 - First Quarter Experience (2)
- † ENGL& 101 - English Composition I (5)
- † MATH& 141 - Precalculus I (5)

TOTAL CREDITS: 22

Winter Quarter
- ENVC 112 - Limnology (5)
- ENVC 123 - Fish Biology, Taxonomy, and Life History (5)
- ENVAG 106 - Soil Science and Conservation (5)
- MATH& 142 - Precalculus II (5)

TOTAL CREDITS: 20

Spring Quarter
- ENVC 122 - Stream Ecology (5)
- ENVC 140 - Plants of Western Washington (5)
- CHEM& 162 - General Chem w/Lab II (5)
- ENGL& 102 - Composition II (5)
  or ENGL& 235 - Technical Writing (5)

TOTAL CREDITS: 20

Summer Quarter
- ‡ ENVC 199 - Cooperative Education (6)
- CHEM& 131 - Intro to Organic/Biochemistry (5)
- CMST& 220 - Public Speaking (5)
- MATH& 146 - Introduction to Stats (5)

TOTAL CREDITS: 21

SECOND YEAR

Fall Quarter
- ENVC 201 - Watershed Restoration (5)
- ENVC 202 - Wildlife Biology: D (5)
- ENVC Elec (3-5)
- BIOL& 221 - Majors Ecology/Evolution (5)
- † MATH& 151 - Calculus I (5)

TOTAL CREDITS: 23+

Winter Quarter
- ENVC 210 - Fish Ecology and Management (5)
- ENVC 211 - Ecological Sampling and Monitoring Design (4)
- BIOL& 222 - Majors Cell/Molecular Biology (5)
- MATH& 152 - Calculus II (5)
- *Learning Community *or* General Education (5-10)

TOTAL CREDITS: 24

Spring Quarter
- ENVC 220 - Wetlands in Managed Landscapes (4)
- ENVC 221 - Ecology of Ecosystem Edges/Ecotones (3)
- ENVC 222 - Field Project (3)
- BIOL& 223 - Majors Organismal Physiology (5)
- PE 200 - First Aid, Safety, and CPR (2)

TOTAL CREDITS: 17

NOTE:

* Learning Community (5-10 credits) or 5 credits of General Education (natural sciences, social sciences, or humanities) from AA-DTA distribution. 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.

ENVIRONMENTAL CONSERVATION AQUATIC OR TERRESTRIAL, AAS-T

PROGRAM MAP

The effects from landscape uses such as forestry, agriculture, and urban development are the main focus of the Aquatic/Terrestrial emphasis. Graduates are employed by federal, state, county, and city governments, tribal entities or businesses managing natural resources. Employment by non-profit organizations is also on the rise.

Sample career options include –

- **Soil & Water Conservationists**
- **Forest & Conservation Technicians**
- **Water/Wastewater Engineers**

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)
- PE 200 - First Aid, Safety, and CPR (2)
- ENVAG 106 - Soil Science and Conservation (5)

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)
- CHEM& 121 - Intro to Chemistry (5)
  or ***one course from the following:***
  - CHEM& 110 - Chemical Concepts with Lab (5)
  - CHEM& 161 - General Chem w/Lab I (5)
- GIS 105 - Introduction to Global Positioning Systems (GPS) (2)
- GIS 106 - Advanced Global Positioning Systems (2)

TOTAL CREDITS: 18

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 MARINE, AAS-T

PROGRAM MAP

The marine emphasis allows graduates to focus on environmental conservation jobs in the marine environment. Graduates may be employed by federal, state, county, and city governments, tribal nations or businesses managing natural resources. Employment by non-profit organizations is also on the rise.

Sample career options include –

- **Soil & Water Conservationists**

FIRST YEAR

Fall Quarter

- ENVC 101 - Introduction to Watershed Management (5)
- ENVC 104 - Introduction to Natural Resources (1)
- CSS 103 - First Quarter Experience (2)
- † ENGL& 101 - English Composition I (5)
- † MATH& 141 - Precalculus I (5)

TOTAL CREDITS: 18

Winter Quarter

- ENVC 112 - Limnology (5)
- ENVC 123 - Fish Biology, Taxonomy, and Life History (5)
- PE 200 - First Aid, Safety, and CPR (2)
- CHEM& 161 - General Chem w/Lab I (5)

TOTAL CREDITS: 17

Spring Quarter

- ENVC 122 - Stream Ecology (5)
- BIOL& 100 - Survey of Biology (5)
- CHEM& 162 - General Chem w/Lab II (5)
- ENGL& 102 - Composition II (5)
  or ENGL& 235 - Technical Writing (5)

TOTAL CREDITS: 20

Summer Quarter

- ‡ ENVC 199 - Cooperative Education (6)
- ENVS& 101 - Intro to Env Science (5)

TOTAL CREDITS: 11

SECOND YEAR

Fall Quarter

- ENVC 202 - Wildlife Biology: D (5)
- BIOL& 221 - Majors Ecology/Evolution (5)
- CMST& 220 - Public Speaking (5)
  or CMST& 210 - Interpersonal Communication: D (5)
- GIS 101 - Introduction to Geographic Information Systems (5)

TOTAL CREDITS: 20

Winter Quarter

- ENVC 210 - Fish Ecology and Management (5)
- ENVC 211 - Ecological Sampling and Monitoring Design (4)
- BIOL& 222 - Majors Cell/Molecular Biology (5)
- GIS 105 - Introduction to Global Positioning Systems (GPS) (2)
- GIS 106 - Advanced Global Positioning Systems (2)

TOTAL CREDITS: 18

Spring Quarter

- ENVC 220 - Wetlands in Managed Landscapes (4)
- @ ENVC Elective *or* * LC/GE (5)
- BIOL& 223 - Majors Organismal Physiology (5)
- OCEA& 101 - Intro to Oceanography (5)

TOTAL CREDITS: 19

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 ENVC, the sciences, or GIS.

Certificates & Micro-Certificates

These 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

PROGRAM MAP

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: WATER/WASTEWATER TREATMENT TECHNICIAN, CERTIFICATE

PROGRAM MAP

This certificate focuses on developing skills within the water/wastewater treatment area leading to entry-level positions within the sector. A certificate is awarded to students who complete the following with a 2.0 grade point average or above:

Summer Quarter

- GIS 101 - Introduction to Geographic Information Systems (5)
- CMST& 210 - Interpersonal Communication: D (5)
  or CMST& 220 - Public Speaking (5)
- MATH& 146 - Introduction to Stats (5)

TOTAL CREDITS: 15

Fall Quarter

- ENVC 101 - Introduction to Watershed Management (5)
- ENVC 226 - Current Issues in Water Policy (2)
- MANF 145 - Electronics Fundamentals (5)
- CHEM& 121 - Intro to Chemistry (5)

TOTAL CREDITS: 17

Winter Quarter

- ENVC 105 - Emergency Incident Management System (3)
- ENVAG 106 - Soil Science and Conservation (5)
- GIS 105 - Introduction to Global Positioning Systems (GPS) (2)
- GIS 106 - Advanced Global Positioning Systems (2)
- MANF 150 - Sensor Systems and Applications (5)

TOTAL CREDITS: 17

Spring Quarter

- ENVC 133 - Facilities Maintenance Fundamentals (5)
- ENVC 199 - Cooperative Education (2)
- ENVC 212 - Fluid Flow Laboratory (2)
- ENVC 249 - Introduction to Wastewater Technology (5)
  or ENVC 250 - Introduction to Water Treatment (5)

TOTAL CREDITS: 17

GEOGRAPHIC INFORMATION SYSTEMS, CERTIFICATE

PROGRAM MAP

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 complete the following courses with a 2.0 grade point average or above in each course.

Required Courses:

- GIS 101 - Introduction to Geographic Information Systems (5)
- GIS 102 - Geographic Information Systems II (5)
- GIS 105 - Introduction to Global Positioning Systems (GPS) (2)
- GIS 106 - Advanced Global Positioning Systems (2)
- 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 and course descriptions, please see Geographic Information Systems (GIS)

ADVANCED WETLAND DELINEATION, MICRO-CERTIFICATE

PROGRAM MAP

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

PROGRAM MAP

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)

ENVIRONMENTAL SUSTAINABLE AGRICULTURE EDUCATION

PLANNING GUIDE

Program Overview

The Sustainable Small Farm Agriculture program at Skagit Valley College provides students and community members with knowledge and skills in agroecological sciences, natural resource management, and environmental conservation. With an emphasis on 'small farm' agriculture in the Puget Sound bioregion, this program trains participants to sustainably manage production and operations as the underpinning of a resilient and local food system. SVC is a member of the Sustainable Agriculture Education (SAgE) Collaborative and partners with Seattle Central College (SCC), Washington State University (WSU), and other higher education institutions and farm and food system organizations and enterprises in an effort to provide diverse educational and training opportunities in sustainable agriculture and related fields.

SAgE courses emphsizes the ecological principles that support agroecosystems at different geographic and economic scales, including the significance of plant diversity and soil properties and processes to terrestrial ecosystems and human societ-

ies. Curriculum emphazises the select and grow bioregionally appropriate vegetable, bush, and tree crops according to their site-specific growth and cultural requirements within polycultural intercropping, succession planting, crop rotation, and season extension systems. Courses discuss how the emergence, growth, and practice of small farm agriculture affect the sustainability of local and global food systems, and how those systems, in turn, relate to associated fields in natural resource management and environmental conservation.

As a leading producer of diversified vegetables, fruits, grains, and meats, the Washington State agricultural industry and workforce play an important role in the regional economy while maintaining food security and advancing sustainable agriculture. Over the last two decades, for example, Washington organic farmland acreage and food sales and direct market sales have increased exponentially alongside a growing agricultural employment sector that is expanding the 'green-collar' job market. These trends are most evident in the Puget Sound bioregion and especially among the agriculturally productive counties where SAgE colleges are located, such as Skagit County where over 1,200 farms and 180 agriculture-related businesses employ approximately 5,000 people and account for the greatest increase in sustainable small farm agricultural practices. For further information about the SVC SAgE program and associated education to career pathways, contact the Department Chair.

Workforce

If you are interested in working in the field of Environmental Sustainable Agriculture, our Planning Guides are designed to provide you with recommended courses to complete your degree. Of course, educational plans may vary, based on which quarter you begin, how many credits are taken, and placement into Math and English. To keep you on the best pathway, we encourage you to consult with an Academic Advisor for scheduling options.

Program Learning Outcomes

General Education Learning Outcomes, pp 144-145

Graduates of the Environmental Sustainable Agriculture program will be able to:

- Plan, start from seed, grow to maturity and harvest vegetable or ornamental plants in greenhouse or in open field.
- Demonstrate their ability to define agriculture, agronomy, and agroecology, and use examples to highlight the differences among the three terms.
- Demonstrate the ability to research and identify plant problems in a crop.
- Use Land Equivalency Ratios and simple algebra to demonstrate advantages to intercropping over monocultures for crop yields, for crop prices and for crop costs.

Program Admissions

Please apply at Enrollment Services. Students are generally admitted in 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, given Department Chair approval. Advanced standing may be requested. For further information, contact the Department Chair or Enrollment Services.

Degree and Certificate Options

ASSOCIATE IN APPLIED SCIENCE - TRANSFER DEGREE

The AAS-T degree is awarded upon completion of the Sustainable Small Farm Agriculture & Food Systems curriculum 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 major. Entry into a baccalaureate program at a four-year college or university will generally require a higher GPA for admission.

This AAS-T degree provides a theoretical foundation in small farm agriculture through the study of environmental sustainability principles, ecology in agricultural systems, and plant and soil sciences. There is also a practical hands-on focus on sustainable small farm agriculture production and enterprises. The production emphasis trains students to cultivate organic food crops for year-round production and harvest in the maritime climate of the Puget Sound bioregion. The enterprises emphasis trains students to design, plan, and operate agriculture systems relevant to small farm environments-including the development of whole farm management and business plans and associated best agricultural practices tailored to local direct market enterprises. Students explore career options and apply knowledge, skills, and techniques through internship, practicum, or research experience. General Education courses prepare students for transfer to a four-year college or university, while Diversity Intensive, Integrative Learning Experience, and Elective courses build upon program requirements to provide further training in natural resource management and environmental conservation practices associated with sustainable small farm agriculture and food systems.

This AAS-T degree is a professional/technical degree that requires a core of general education courses commonly accepted for transfer to four-year colleges and universities. All students who intend to transfer should talk with a four-year college or university advisor to review specific admission requirements. Transfer into the WSU Bachelor of Science in Agricultural & Food Systems degree program is available in western Washington at the WSU-Everett campus and eastern Washington at the WSU-Pullman campus.

The Environmental Sustainable Agriculture Education, AAS-T degree transfers into the following programs:

- **Washington State University, Bachelor of Science in Agricultural & Food Systems, Organic & Sustainable Agriculture major**
- **Skagit Valley College, Bachelor of Applied Science in Environmental Conservation**
- **The Evergreen State College, Bachelor's Degree in Environmental Studies, Agriculture emphasis**

CERTIFICATES

Certificates focus on a specific skills within this program. A certificate is awarded to students who complete the following with a 2.0 grade point average or above.

Program Maps

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.

ENVIRONMENTAL SUSTAINABLE AGRICULTURE EDUCATION, AAS-T

PROGRAM MAP

Sample Career Options Include –

- **Precision Agriculture Technicians**
- **Agricultural Engineer**
- **Farm & Ranch Manager**

PROGRAM MAP

FIRST YEAR

Fall Quarter

- ENVAG 101 - Agroecology: An Ecological Approach to Agriculture (5)
- ENVAG 103 - Horticulture Plant Science (4)
- CSS 103 - First Quarter Experience (2)
- † ENGL& 101 - English Composition I (5)

TOTAL CREDITS: 16

Winter Quarter

- ENVAG 104 - Careers Seminar in Sustainable Agriculture (1)
- ENVAG 106 - Soil Science and Conservation (5)
- ENVAG 227 - Greenhouse Crop Production (3)
- † CHEM& 161 - General Chem w/Lab I (5)

TOTAL CREDITS: 14

Spring Quarter

- ENVAG 224 - Orchard Crop Production (5)
- ENVAG 228 - Row Crop Production (5)
- CHEM& 162 - General Chem w/Lab II (5)

TOTAL CREDITS: 15

Summer Quarter

- ∞ ENVAG 199 - Internship in Sustainable Agriculture (2)
  or ***choose from one of the following:***
  - ENVAG 297 - Research in Sustainable Agriculture (2)
  - ENVAG 298 - Practicum in Sustainable Agriculture (2)
- CMST& 220 - Public Speaking (5)

TOTAL CREDITS: 7+

SECOND YEAR

Fall Quarter

- ENVAG 270 - Sustainable Small Farming and Ranching (5)
- BIOL& 221 - Majors Ecology/Evolution (5)
- † ECON& 201 - Micro Economics (5)
- ENVC Elective (5) – *ENVC 202 is preferred*

TOTAL CREDITS: 20

Winter Quarter

- ENVAG 271 - Agricultural Entrepreneurship & Business Planning (5)
- † BIOL& 222 - Majors Cell/Molecular Biology (5)
- * PHIL 215 - Introduction to Ethics (5)

TOTAL CREDITS: 15

Spring Quarter

- * ENVC 225 - Current Issues in Ecology (2)
- ENVAG 231 - Post-Harvest to Local Market Operations (3)
- BIOL& 223 - Majors Organismal Physiology (5)
- † MATH& 146 - Introduction to Stats (5)

TOTAL CREDITS: 15

NOTES:

† Students who do not receive an appropriate test score are required to take additional coursework to develop necessary skills for entry into class.

∞ ENVAG 199 or ENVAG 297 or ENVAG 298 must be taken for a total minimum of 2 credits. ENVAG 199 is offered all quarters. Please check the quarterly schedule for when ENVAG 297 or ENVAG 298 are offered.

@ Elective courses must be chosen from within ENVC. ENVC 202 is preferred.

* Satisfies the AAS-T degree Integrative Learning Experience requirements.

ENVAG SUSTAINABLE SMALL FARM AGRICULTURE SYSTEMS, CERTIFICATE

PROGRAM MAP

This one-year certificate provides a theoretical foundation in small farm agriculture through the study of environmental sustainability principles, ecology in agricultural systems, and plant and soil sciences. There is also a combined practical focus on sustainable small farm agriculture production and enterprises. The production emphasis trains students to cultivate organic food crops for year-round production and harvest in the maritime climate of the Puget Sound bioregion. And the enterprises emphasis trains students to design, plan, and operate agriculture systems relevant to small farm environments- including the development of farm management and business plans and associated best agricultural practices tailored to wholesale and direct market enterprises. Students explore career options and apply knowledge, skills, and techniques through internship, practicum, or research experience. This certificate may be combined with General Education, Learning Community, Integrative Experience, and elective courses to achieve the larger Sustainable Small Farm Agriculture and Food Systems Associate in Applied Science-Transfer (AAS-T) Degree. 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:

- ENVAG 101 - Agroecology: An Ecological Approach to Agriculture (5)
- ENVAG 103 - Horticulture Plant Science (4)
- ENVAG 104 - Careers Seminar in Sustainable Agriculture (1)
- ENVAG 106 - Soil Science and Conservation (5)
- ENVAG 199 - Internship in Sustainable Agriculture (2)
  and/or ENVAG 297 - Research in Sustainable Agriculture (2)
  and/or ENVAG 298 - Practicum in Sustainable Agriculture (2)
- ENVAG 224 - Orchard Crop Production (5)
  or ENVAG 228 - Row Crop Production (5)
- ENVAG 227 - Greenhouse Crop Production (3)

- ENVAG 231 - Post-Harvest to Local Market Operations (3) *or* CUL 101 - Sustainable Food System Practices (3)
- ENVAG 270 - Sustainable Small Farming and Ranching (5)
- ENVAG 271 - Agricultural Entrepreneurship & Business Planning (5)

ENVAG SUSTAINABLE SMALL FARM AGRICULTURE APPLIED PLANNING AND MANAGEMENT (LEVEL I), MICRO-CERTIFICATE

PROGRAM MAP

This Micro-Certificate provides a practical foundation in sustainable small farm agriculture through the study and hands-on design, planning, and operation of agriculture systems relevant to small farm environments. On-farm classes at the SAgE Skagit County Student Farm train students in sustainable small farm site planning and crop propagation, production, cultivation, harvesting, and postharvest and business management. This Micro-Certificate is offered in partnership with Viva Farms, a farm incubator organization. Upon successful completion of this Micro-Certificate, students will have the skills and the necessary prerequisites to establish an independent small farm enterprise located at, and with developmental support from, Viva Farms. A certificate is awarded to students who complete the following with a 2.0 grade point average or above.

REQUIRED COURSE TO BE TAKEN SPRING, SUMMER, AND FALL:

- ENVAG 298 - Practicum in Sustainable Agriculture (2)

ENVAG SUSTAINABLE SMALL FARM AGRICULTURE APPLIED PLANNING AND MANAGEMENT (LEVEL II), MICRO-CERTIFICATE

PROGRAM MAP

This Micro-Certificate provides a practical foundation in sustainable small farm agriculture through the study and hands-on design, planning, and operation of agriculture systems relevant to small farm environments-including the development of whole farm management and business plans. On-farm classes at the SAgE Skagit County Student Farm train students in sustainable small farm site planning and crop propagation, production, cultivation, harvesting, and postharvest and business management. This Micro-Certificate is offered in partnership with WSU Skagit County Extension and Viva Farms, a farm incubator organization. Upon successful completion of this Micro-Certificate, students will have the skills to implement their whole farm management and business plans and the necessary prerequisites to establish an independent small farm enterprise located at, and with developmental support from, Viva Farms. A certificate is awarded to students who complete the following with a 2.0 grade point average or above.

REQUIRED COURSES:

- ENVAG 270 - Sustainable Small Farming and Ranching (5)
- ENVAG 271 - Agricultural Entrepreneurship & Business Planning (5)
- *ENVAG 298 - Practicum in Sustainable Agriculture (2)
  *To be taken Spring, Summer, and Fall quarters

FAMILY LIFE

Program 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 & Toddlers
- FL 132 - Parent Education Cooperative I
- FL 133 - Parent Education Cooperative II
- FL 134 - Parent Education Cooperative III
- FL 140 - Parent Education Co-op for Second Parent

FIRE SCIENCES

PLANNING GUIDES

Program 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 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 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 (AAS-T) degree 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.

Program Learning Outcomes

General Education Learning Outcomes, pp 145-146.

Graduates of the Fire Protection Technology 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 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.

Workforce

If you are interested in working in the field of Fire Protection Technology, our Planning Guides are designed to provide you with recommended courses to complete your degree. Of course, educational plans may vary, based on which quarter you begin, how many credits are taken, and placement into Math and English. To keep you on the best pathway, we encourage you to consult with an Academic Advisor for scheduling options.

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 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.

FIRE PROTECTION TECHNOLOGY, AAS

PROGRAM MAP

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 & Life Safety Education (3)
- FIRE 214 - Fire Investigation (3)
- FIRE 279 - Fire Services Safety & 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 & 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.

7 GENERAL DEGREE/PROGRAM INFORMATION

BASEC ▪ BASAM ▪ AA-DTA ▪ AS-T ▪ AVA ▪ DTA/MRP ▪ A.Ed. ▪ AAS ▪ AAS-T ▪ CERTIFICATES & MICRO-CERTIFICATES

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.

Sample Career Options Include –

- **Municipal Fire Fighting & Prevention Supervisors**
- **Forest Fire Fighting & Prevention Supervisors**
- **Fire Inspectors**
- **Fire Investigators**

Degree Requirements

General Education Learning Outcomes, pp 145-146
Program Learning Outcomes, p 146

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.

13. First Quarter Experience (2 cr.)

- CSS 103 - First Quarter Experience (2)

14. Communcation Skills (10 cr.)

- ENGL& 101 - English Composition I (5)
- ENGL& 102 - Composition II (5)

15. Quantitative Skills (5 cr.)

- MATH& 107 - Math in Society (5)

16. 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.

17. 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& 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 & Survival (3)

18. 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

19. Firefighter Internship (2 cr.)

- FIRE 199 - Fire Service Internship (1)

PROGRAM MAP

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 & Survival (3)
- MATH& 107 - Math in Society (5)

TOTAL CREDITS: 17

Spring Quarter

- FIRE 199 - Fire Service Internship (1)
- FIRE 212 - Fire Codes & 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 - Intro 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 - Intro to Theatre: D (5)

TOTAL CREDITS: 15

Spring Quarter

- ~ MIT 213 - Digital Photography (5)
- ~ PSYC& 100 - General Psychology (5)
- ~ SOC& 101 - Intro 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.

HEALTH & FITNESS TECHNICIAN

PLANNING GUIDE

Program Overview

The Health and Fitness Technician (HFT) program prepares students for work in the expanding health and fitness industry.

Students completing the first year curriculum will earn a certificate in Health & Fitness and are prepared for professional certification and employment. Students wishing to advance their education may continue with second year courses and earn the Associate in Applied Science Degree, AAS degree in Health and Fitness. The HFT AAS articulates with the Bachelor in Applied Science - Applied Management (BASAM), which further prepares Health & Fitness graduates for management positions in fitness-related workplaces.

First year courses leading to a certificate in Health & Fitness include Foundations of Personal Training, Anatomy and Physiology for HFT, Fitness Testing, Nutrition, Kinesiology, Principles of Strength Training, Principles of Cardiorespiratory Training, and others. Second year courses leading to the Health & Fitness AAS include Group Fitness Instructor Preparation, Principles of Exercise Science, Psychology, Biology, Introduction to Business, and others. Common job titles include Personal Trainer, Fitness Trainer, Fitness Specialist, Health Coach, and Group Fitness Instructor.

Sample career options include –

- **Fitness and Wellness Coordinator**
- **Athletic Trainer**
- **Recreation Worker**

Degree and Certificate Options

An Associate in Applied Science Degree, AAS is awarded upon completion of a minimum of 90 credits of specified course work with a minimum 2.0 grade point average in each course plus a high school diploma or GED.

A Health & Fitness Technician Certificate is awarded upon completion of required courses with a minimum 2.0 GPA in each course plus a high school diploma or GED.

Program Learning Outcomes

General Education Learning Outcomes, pp 145-146.

Graduates of the Health & Fitness Technician program will be able to:

- Demonstrate knowledge of program design and implementation.
- Demonstrate knowledge of program progression and modification.
- Demonstrate proficiency in client interviews and assessments.

Program Admissions:

Please apply at Enrollment Services. The admission and registration guidelines are listed in the catalog and on the College's website at www.skagit.edu. Students may only enter the Health & Fitness Technician program at the beginning of Fall quarter.

Specialized Program Information

WORK-BASED LEARNING

Students will integrate their classroom learning with work-based learning by participating in Cooperative Education (HFT 199) at a supervised work site. Department Chair approval is required.

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.

HEALTH & FITNESS TECHNICIAN, AAS

PROGRAM MAP

FIRST YEAR

Fall Quarter

- HFT 107 - Foundations of Personal Training (5)
- HFT 108 - Leadership and Implementation (3)
- CSS 103 - First Quarter Experience (2)
- PE 113 - Aerobic Weight Circuit Training (2)
- * PE 200 - First Aid, Safety, and CPR (2)

TOTAL CREDITS: 14

Winter Quarter

- HFT 100 - Stability, Mobility and Movement (3)
- HFT 103 - Fitness Testing (3)
- HFT 136 - Anatomy & Physiology for Health & Fitness Tech (5)
- NUTR& 101 - Nutrition (5)

TOTAL CREDITS: 16

Spring Quarter

- HFT 101 - Introduction to Kinesiology (5)
- HFT 102 - Principles of Strength Training (4)
- HFT 104 - Principles of Cardiorespiratory Training (2)
- HFT 199 - Cooperative Education Experience (3)

TOTAL CREDITS: 14

SECOND YEAR

Summer Quarter

- CHEM& 121 - Intro to Chemistry (5)

TOTAL CREDITS: 5

Fall Quarter

- HFT 209 - Fitness Instructor Prep (3)
- BIOL& 160 - General Biology w/Lab (5)
- † ENGL& 101 - English Composition I (5)

TOTAL CREDITS: 13

Winter Quarter

- BIOL& 241 - Human Anatomy and Physiology I (5)

- CMST& 210 - Interpersonal Communication: D (5)
- † WMATH 100 - Professional Technical Applied Math (5) or higher

TOTAL CREDITS: 15

Spring Quarter

- BIOL& 242 - Human A & P II (5)
- BUS& 101 - Intro to Business (5)
- PSYC& 100 - General Psychology (5)

TOTAL CREDITS: 15

NOTES

* or a valid CPR/First Aid certification from an approved provider.

† Students who do not receive an appropriate test score will require additional coursework to develop necessary skills for entry into class.

HEALTH & FITNESS TECHNICIAN, CERTIFICATE

PROGRAM MAP

A certificate is awarded to students who complete the following courses with a 2.0 grade point average or above in each course plus a high school diploma or GED.

1st Quarter

- HFT 107 - Foundations of Personal Training (5)
- HFT 108 - Leadership and Implementation (3)
- CSS 103 - First Quarter Experience (2)
- PE 200 - First Aid, Safety, and CPR (2)
- PE 103 - Wellness Movement (2)

TOTAL CREDITS: 14

2nd Quarter

- HFT 100 - Stability, Mobility and Movement (3)
- HFT 103 - Fitness Testing (3)
- HFT 136 - Anatomy & Physiology for Health & Fitness Tech (5)
- NUTR& 101 - Nutrition (5)

TOTAL CREDITS: 16

3rd Quarter

- HFT 101 - Introduction to Kinesiology (5)
- HFT 102 - Principles of Strength Training (4)
- HFT 104 - Principles of Cardiorespiratory Training (2)
- HFT 199 - Cooperative Education Experience (3)

TOTAL CREDITS: 14

HUMAN SERVICES

PLANNING GUIDE

Program 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. The department chair's phone number is 360.416.7704. Returning students who have already earned college degrees and who are interested in taking coursework necessary to become a Substance Use Disorder Professional (SUD), please contact Bob Malphrus at: 360.416.7704.

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. 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 145-146.

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.

Workforce

If you are interested in working in the field of Human Services, our Workforce Planning Guide is designed to provide you with recommended courses to complete your degree. Of course, educational plans may vary, based on which quarter you begin, how many credits are taken, and placement into Math and English. 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.

HUMAN SERVICES GENERALIST, AAS

PROGRAM MAP

Sample career options include –

- **Social and Human Services Assistants**
- **Psychiatric Aides**

FIRST YEAR

Fall Quarter
- HSERV 101 - Introduction to Human Services (3)
- HSERV 141 - Alcoholism and other Addictive Disorders (5)
- HSERV 198 - Pre-Practicum Seminar (3)
- CSS 103 - First Quarter Experience (2)
- CMST& 210 - Interpersonal Communication: D (5)

TOTAL CREDITS: 18

Winter Quarter
- HSERV 147 - Basic Mediation Training (5)
- † ENGL& 101 - English Composition I (5)
- OBT 122 - MS Word I (3)

TOTAL CREDITS: 13

Spring Quarter
- HSERV 121 - Introduction to Disabilities and Disability Law (4)
- HSERV 132 - Motivational Interviewing (4)
- HSERV 199 - Practicum (4)
- HSERV 200 - Practicum Seminar (1)

TOTAL CREDITS: 13

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 Case Management (5)
- HSERV 199 - Practicum (4)
- HSERV 200 - Practicum Seminar (1)
- HSERV 245 - Professional Ethics (3)
- † WMATH 100 - Professional Technical Applied Math (5)

TOTAL CREDITS: 18

Spring Quarter
- HSERV 131 - Human Development (5)
- HSERV 221 - Crisis Intervention (5)
- HSERV 232 - Pluralism 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 COUNSELING, AAS

PROGRAM MAP

Sample career options include –

- **Substance Abuse & Behavioral Disorder Counselor**

FIRST YEAR

Fall Quarter
- HSERV 101 - Introduction to Human Services (3)
- HSERV 141 - Alcoholism and other Addictive Disorders (5)
- HSERV 198 - Pre-Practicum Seminar (3)
- CSS 103 - First Quarter Experience (2)
- CMST& 210 - Interpersonal Communication: D (5)

TOTAL CREDITS: 18

Winter Quarter
- HSERV 145 - Addictions and the Law (3)
- HSERV 171 - HIV/AIDS & Bld Pathogen Trng for Chem Depend Prof (1)
- 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 122 - MS Word I (3)
- PE 200 - First Aid, Safety, and CPR (2)

or a valid CPR/First Aid certification from an approved provider.

TOTAL CREDITS: 14

Spring Quarter
- HSERV 132 - Motivational Interviewing (4)
- HSERV 199 - Practicum (4)
- HSERV 200 - Practicum Seminar (1)
- HSERV 248 - Adolescent Addictive Disorders Counseling (3)
- WMATH 100 - Professional Technical Applied 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: 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 & Pharmacology of Psychoactive Drugs (3)

TOTAL CREDITS: 17

Winter Quarter

- HSERV 199 - Practicum (4)
- HSERV 200 - Practicum Seminar (1)
- HSERV 241 - Addictive Disorders & the Family (3)
- HSERV 243 - Substance Use Disorder Assessment & Case Mgmt. (4)
- HSERV 245 - Professional Ethics (3)

TOTAL CREDITS: 15

Spring Quarter

- HSERV 131 - Human Development (5)
- HSERV 221 - Crisis Intervention (5)
- HSERV 232 - Pluralism in Human Services: D (5)
- HSERV 244 - Group Process and Addictive Disorders (3)

TOTAL CREDITS: 18

HUMAN SERVICES SUBSTANCE USE DISORDER COUNSELING, CERTIFICATE

PROGRAM MAP

This certificate is designed for returning students and professionals 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 each course.

1st Quarter

- HSERV 141 - Alcoholism and other Addictive Disorders (5)
- HSERV 171 - HIV/AIDS & Bld Pathogen Trng for Chem Depend Prof (1)
- HSERV 203 - Introduction to Counseling (5)
- HSERV 231 - Psychopathology and Therapeutic Intervention in Mental Health (4)
- HSERV 242 - Physiology & Pharmacology of Psychoactive Drugs (3)

TOTAL CREDITS: 18

2nd Quarter

- HSERV 145 - Addictions and the Law (3)
- HSERV 241 - Addictive Disorders & the Family (3)
- HSERV 243 - Substance Use Disorder Assessment & Case Mgmt. (4)
- HSERV 245 - Professional Ethics (3)

TOTAL CREDITS: 13

3rd Quarter

- HSERV 131 - Human Development (5)
- HSERV 222 - Counseling Theories and Therapies (5)
- HSERV 232 - Pluralism 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

PLANNING GUIDE

Program 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 often found in advanced manufacturing-related industries. This unique program is actually a cluster of program areas designed to provide students with "stackable" skills that employers have identified as necessary to enter the manufacturing sector or advance up the career ladder. The program includes multiple degree pathways including transfer degrees.

Program Learning Outcomes

General Education Learning Outcomes, pp 145-146.

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 proficiency in basic AC/DC theory and electrical control. (Automation emphasis)
- Demonstrate te proficient application of composite manufacturing methods, materials and tools. (Composite emphasis)

Program Admissions

Please apply at Enrollment Services. Students may enter the program at the beginning of any quarter. Please be aware that some classes/sequences are not offered every 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 of the Micro-Certificate sequences. 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

CAREER & 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.

Program Maps: Certificates

Certificates provide the basic skills needed for many entry-level manufacturing jobs. Building on the Manufacturing fundamental Micro-Certificates core curriculum, students choose a manufacturing or trade-related specialty option. 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.

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.

MANUFACTURING TECHNOLOGY, CERTIFICATE

PROGRAM MAP

REQUIRED OPTIONS

Students must choose at least two of the following Micro-Certificates:

- **Automated Systems Technology:** MANF 145, MANF 150 and MANF 156.
- **Composite Repair Technician:** CMPST 121, CMPST 123 and CMPST 127.
- **Computer Numeric Control (CNC) Operations:** MANF 115, MANF 190 and MANF 205.
- **Quality Assurance:** MANF 103, *MANF 120, *MANF 121, *MANF 140, MANF 177, and WMATH 100
  ** Possible duplicated courses*
- **Technical Drawing:** TECD 103, TECD 104, TECD 105, and TECD 107. *See Department Chair for scheduling courses depending on areas of interest.*

CORE COURSES

- MANF 110 - Introduction to Manufacturing (3)
- MANF 120 - Industrial Safety (2)
- MANF 121 - First Aid and CPR (1)
- MANF 122 - Material Science in Manufacturing (2)
- MANF 125 - Precision Measurement and Tools (3)
- MANF 127 - Manufacturing Math (2)
- MANF 140 - Print Reading in Manufacturing (3)
- CMST& 210 - Interpersonal Communication: D (5)
  or CMST& 220
- ENGL& 101 - English Composition I (5)
- WMATH 100 - Professional Technical Applied Math (5)

Program Maps: 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.

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.

AUTOMATED SYSTEMS TECHNOLOGY, MICRO-CERTIFICATE

PROGRAM MAP

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 & embedded controllers.

- MANF 145 - Electronics Fundamentals (5)
- MANF 150 - Sensor Systems and Applications (5)
- MANF 156 - Introduction to Automated Systems (5)

COMPUTER NUMERIC CONTROL (CNC) OPERATOR, MICRO-CERTIFICATE

PROGRAM MAP

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.

- MANF 115 - Intro to Computer Numeric Controlled (CNC) Operations (5)
- MANF 190 - Computer Numeric Controlled (CNC) Basics (5)
- MANF 205 - Advanced Computer Numeric Control (CNC) (5)

MANUFACTURING FUNDAMENTALS, MICRO-CERTIFICATE

PROGRAM MAP

The Manufacturing Fundamentals Micro-Certificate is your key to starting and advancing a career in manufacturing. Earning the certificate credential indicates to employers that you have mastered the core skills and knowledge that manufacturing employers want to see in any new applicant or current worker.

- MANF 110 - Introduction to Manufacturing (3)
- MANF 120 - Industrial Safety (2)
- MANF 121 - First Aid and CPR (1)
- MANF 122 - Material Science in Manufacturing (2)
- MANF 125 - Precision Measurement and Tools (3)
- MANF 140 - Print Reading in Manufacturing (3)

QUALITY ASSURANCE, MICRO-CERTIFICATE

PROGRAM MAP

This Micro-Certificate is designed to introduce students to the concepts of Quality Assurance as applied in a manufacturing environment. Skills learned in this program can be applied to

quality assurance and inspection work at all stages of manufacturing, from examining materials received from a supplier to performing final checks on finished products and packaging.

- MANF 103 - Introduction to Quality Assurance (3)
- MANF 120 - Industrial Safety (2)
- MANF 121 - First Aid and CPR (1)
- MANF 140 - Print Reading in Manufacturing (3)
- MANF 177 - Quality Control Metrics and Applications (5)
- WMATH 100 - Professional Technical Applied Math (5)

MARINE MAINTENANCE TECHNOLOGY

PLANNING GUIDE

Program 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, Skagit Valley College is a member of the **Marine League of Schools,** 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 & 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 & Service Technicians**
- **Watercraft Service Attendants**

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 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

A Certificate 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 145-146.

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..

Program Admissions

Please apply at Enrollment Services.

Specialized Program Information

CAREER & 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.

WORK-BASED LEARNING

Students will integrate their classroom learning with work-based learning experience in Cooperative Education (MT 199) at a supervised work site.

Workforce

If you are interested in working in the field of Marine Maintenance Technology, our Workforce Planning Guide is designed to provide you with recommended courses to complete your Marine Maintenance Technology, AAS degree. Of course, educational plans may vary, based on which quarter you begin, how many credits are taken, and placement into Math and English. First year students start Fall quarter. 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.

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

MARINE MAINTENANCE TECHNOLOGY, AAS

PROGRAM MAP

FIRST YEAR

Fall Quarter

- MT 102 - Marine Applied Mathematics (5)
  or WMATH 100 - Professional Technical Applied Math (5)
  Students who do not receive an appropriate test score will require additional coursework to develop necessary skills for entry into class.
- 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 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 & Refrigeration (5)
- CMST& 210 - Interpersonal Communication: D (5)
- MANF 121 - First Aid and CPR (1)

TOTAL CREDITS: 17

Winter Quarter

- MT 160 - Marine Engine Systems (7)
- MT 161 - Inboard Drivetrain/Sterndrives and Saildrives (5)
- MT 204 - Advanced Marine Systems (5)
  or CMPST 123 - Composite Vacuum Infusion/Light RTM Process (5)

TOTAL CREDITS: 15

Spring Quarter

- MT 199 - Cooperative Education Experience (2)
- MT 270 - Marine Hydraulic Systems (5)
- MT 163 (5)
- MT 241 (5)

TOTAL CREDITS: 17

MARINE ELECTRICAL TECHNICIAN, CERTIFICATE

PROGRAM MAP

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 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 199 - Cooperative Education Experience (1)
- MT 134 - Marine Electrical Systems III (5)

- MT 136 - Marine Sanitation Systems, Plumbing and Pumps (5)
- MT 236 - Marine Electronics II (3)

TOTAL CREDITS: 17

MARINE MECHANICAL TECHNICIAN, CERTIFICATE

PROGRAM MAP

XXXXXxxxxxxxxxx

ALLIED HEALTH EDUCATION

MEDICAL ASSISTANT

PLANNING GUIDE

Program Overview

The Allied Health Education (AHE) designation includes all courses required for certificates offered in Medical Assistant, Medical Billing and Coding Specialist, and Pharmacy Technician. A two-year Medical Assistant is available. Our 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.

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.

The Medical Assistant AAS Degree/Medical Assistant Certificate program prepares 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 2.0 GPA in each course plus additional general education courses required for the certificate and AAS degree. A certificate is awarded to those students who complete the 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. See Dental Assistant and Veterinary Assistant sections for further information about these Allied Health program options.

Program Learning Outcomes

General Education Learning Outcomes, pp 145-146.

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.

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

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).

Program Admissions:

Please apply at Enrollment Services or online at www.skagit.edu/getstarted to be admitted to Skagit Valley College and receive a student ID (SID). Attend an information session and fill out an Allied Health Education program application (see the Allied Health Education web page for dates: www.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 the fall and winter quarters, and requires meeting 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 better course availability and completion in a timely manner, it is recommended that students enter during the designated quarter noted for a specific program. Some programs only have one annual entry.

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. 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. 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

For the most current overview about the Allied Health Education program and specific program information, please visit **www.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 blood borne 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.

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.

Workforce

If you are interested in working in the field of Medical Assisting, Medical Billing and Coding, or Pharmacy Technician, our Planning Guides are designed to provide you with recommended courses to complete your degree/certificate. Of course, educational plans may vary, based on which quarter you begin, how many credits are taken, and placement into Math and English. 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.

Student schedule may vary based on entry point, credit load, and prerequisites. Consult with an AHE advisor for scheduling options. Sample only, not for academic planning purposes. Students must submit a completed application to the Allied Health Education department for entry into Allied Health courses, or any program cohort.

MEDICAL ASSISTANT, AAS

PROGRAM MAP

Sample career options include –

- **Medical Assistant**

Fall and Winter Entry

FIRST YEAR

Fall Quarter

- AHE 101 - Healthcare Interactions: D (3)
- AHE 103 - Law, Ethics, and Professionalism in Healthcare (5)
- CSS 103 - First Quarter Experience (2)
  or ***one of the following:***
  - CSS 104 - College Success Skills for Online Learning (1-3) with a 3.0 GPA or better
  - Prior completion of a degree/certificate;
  - 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.

  TOTAL CREDITS: 15

Winter Quarter

- AHE 102 - Basic Medical Terminology (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.
- OBT 162 - Microsoft Office Basics (3)

  TOTAL CREDITS: 13

Spring Quarter

- AHE 105 - Electronic Medical Documents and Administrative Procedures (6)
- AHE 106 - Anatomy & Physiology (6)
  or ***the following option:***
  - BIOL& 241 - Human Anatomy and Physiology I (5)
    and BIOL& 242 - Human A & P II (5) *with a minimum C grade*
- AHE 200 - First Aid and Emergency Procedures (3)

  TOTAL CREDITS: 15

SECOND YEAR

Fall Quarter

- 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

- AHE 107 - Clinical Non-Sterile Procedures (6)
- AHE 108 - Clinical Sterile Procedures (6)
- AHE 109 - Medical Disease & Pathology (4)

  TOTAL CREDITS: 16

Spring Quarter

- AHE 113 - Introduction to Phlebotomy (3)
- AHE 114 - Microbiology/Medical Lab Procedures (5)
- AHE 115 - Injection Therapy (4)

  TOTAL CREDITS: 12

Summer Quarter

- AHE 116 - Medical Assistant Clinical Practicum (6)
- AHE 117 - Medical Assistant Clinical Practicum Seminar (1)

  TOTAL CREDITS: 7

MEDICAL ASSISTANT, CERTIFICATE

PROGRAM MAP

Fall and Winter Entry

Please see an advisor for a Winter quarter entry. A certificate is awarded to students who complete the following courses with a 2.0 grade point average or above in each course.

FIRST YEAR

Fall Quarter

- AHE 101 - Healthcare Interactions: D (3)
- AHE 103 - Law, Ethics, and Professionalism in Healthcare (5)

- CSS 103 - First Quarter Experience (2)
- † ENGL& 101 - English Composition I (5)

TOTAL CREDITS: 15

Winter Quarter

- AHE 102 - Basic Medical Terminology (5)
- AHE 118 - Drug Dosage Calculations (5)
- OBT 162 - Microsoft Office Basics (3)

TOTAL CREDITS: 13

Spring Quarter

- AHE 105 - Electronic Medical Documents and Administrative Procedures (6)
- AHE 106 - Anatomy & Physiology (6)
- AHE 200 - First Aid and Emergency Procedures (3)

TOTAL CREDITS: 15

SECOND YEAR

Fall Quarter

- AHE 110 - Introduction to Medical Coding and Insurance (5)
- AHE 112 - Basic Pharmacology (5)

TOTAL CREDITS: 10

Winter Quarter

- AHE 107 - Clinical Non-Sterile Procedures (6)
- AHE 108 - Clinical Sterile Procedures (6)
- AHE 109 - Medical Disease & Pathology (4)

TOTAL CREDITS: 16

Spring Quarter

- AHE 113 - Introduction to Phlebotomy (3)
- AHE 114 - Microbiology/Medical Lab Procedures (5)
- AHE 115 - Injection Therapy (4)

TOTAL CREDITS: 12

Summer Quarter

- 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.

ALLIED HEALTH EDUCATION

MEDICAL BILLING & CODING SPECIALIST

PLANNING GUIDE

Program Overview

The Allied Health Education (AHE) designation includes all courses required for certificates offered in Medical Assistant, Medical Billing and Coding Specialist, and Pharmacy Technician. A two-year Medical Assistant is available. Our 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.

Certificate

The Medical Billing and Coding Specialist Certificate program 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. This certificate requires four to five quarters of full-time attendance to complete the program of study, and has 18-20 credits of prerequisite course requirements prior to fall entry. A certificate is awarded to those students who complete the 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. See Dental Assistant and Veterinary Assistant sections for further information about these Allied Health program options.

Program Learning Outcomes

General Education Learning Outcomes, pp 145-146.

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.

Program Accreditation:

Medical Billing and Coding certificate program 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.

Program Admissions

Please apply at Enrollment Services or online at www.skagit.edu/getstarted to be admitted to Skagit Valley College and receive a student ID (SID). Attend an information session and fill out an Allied Health Education program application (see the Allied Health Education web page for dates: www.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.

Students can start Allied Health Education course work in any quarter, but cohort schedules must be followed. For better course availability and completion in a timely manner, it is recommended that students enter during the designated quarter noted for a specific program. Some programs only have one annual entry.

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. 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. 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

For the most current overview about the Allied Health Education program and specific program information, please visit **www.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 blood borne 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.

Workforce

If you are interested in working in the field of Medical Assisting, Medical Billing and Coding, or Pharmacy Technician, our Planning Guides are designed to provide you with recommended courses to complete your degree/certificate. Of course, educational plans may vary, based on which quarter you begin, how many credits are taken, and placement into Math and English. 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.

Student schedule may vary based on entry point, credit load, and prerequisites. Consult with an AHE advisor for scheduling options. Sample only, not for academic planning purposes. Students must submit a completed application to the Allied Health Education department for entry into Allied Health courses, or any program cohort.

FALL ENTRY ONLY

Students wishing to enter the Medical Billing and Coding Specialist program will need to complete the prerequisite courses listed below with a "C" grade or better and be placed on a waiting list. Based on the date of their completed application, students will be admitted to the program each Fall quarter on a first-come, first-served basis. A certificate is awarded to students who complete the following program core courses with a minimum 2.0 grade in each course. See the Medical Billing and Coding Specialist web page for application and further details.

MEDICAL BILLING & CODING SPECIALIST CERTIFICATE

PROGRAM MAP

Prerequisite courses:

- AHE 102 - Basic Medical Terminology (5)
- CSS 103 - First Quarter Experience (2)
- CMST& 210 - Interpersonal Communication: D (5)
- ENGL& 101 - English Composition I (5)
- MATH 096 - Pre-Algebra (5) (if needed) or higher *with a grade of C or better* or a placement score into MATH 097
- OBT 162 - Microsoft Office Basics (3)

TOTAL CREDITS: 20

Fall Quarter

- AHE 101 - Healthcare Interactions: D (3)
- AHE 106 - Anatomy & Physiology (6)
- AHE 110 - Introduction to Medical Coding and Insurance (5)
- AHE 112 - Basic Pharmacology (5)

TOTAL CREDITS: 19

Winter Quarter

- AHE 103 - Law, Ethics, and Professionalism in Healthcare (5)
- AHE 109 - Medical Disease & Pathology (4)
- AHE 122 - Coding in Outpatient Settings (6)
- AHE 200 - First Aid and Emergency Procedures (3)

TOTAL CREDITS: 18

Spring Quarter

- AHE 105 - Electronic Medical Documents and Administrative Procedures (6)
- AHE 118 - Drug Dosage Calculations (5)
- AHE 123 - Medical Insurance Billing with Coding Practicum (5)

TOTAL CREDITS: 16

MULTIMEDIA & INTERACTIVE TECHNOLOGY

PLANNING GUIDE

Program Overview

Multimedia & Interactive Technology (MIT) is a two-year program that leads to an Associate in Applied Science (AAS) degree. 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, graphic arts, digital photography/videography, social media marketing, and game and app development. The MIT program offers a Web Designer degree; a one-year Web Design certificate; a Graphic Arts certificate; an Adobe certificate; a Game, App & 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.

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.

Within the MIT program, there is a Multimedia-Web Designer, AAS degree that is targeted to students who are interested in learning to develop and design media-rich, responsive websites.

Program Learning Outcomes

General Education Learning Outcomes, pp 145-146.

Graduates of the Multimedia and Interactive Technology program will be able to:

- 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.

Workforce

If you are interested in working in the field of Multimedia, our Planning Guides are designed to provide you with recommended courses to complete your degree/certificate. Of course, educational plans may vary, based on which quarter you begin, how many credits are taken, and placement into Math and English. To keep you on the best pathway, we encourage you to consult with an Academic Advisor for scheduling options.

Planning Guide

Today's businesses and organizations need skilled professionals to design media-rich online content and responsive websites, edit digital photos and video and develop games and applications. Students graduating with a degree or certificate in Multimedia & Interactive Technology will be trained to manipulate text, graphics, photos, animation, and video to design and develop content for online delivery. Students will be prepared for entry-level employment in web design and development, graphic arts, digital media marketing, digital photography, digital videography or game and app development. Coursework includes web design, digital photography, image manipulation, illustration, user experience (UX) design, digital marketing and social media, digital videography as well as programming and scripting basics. Posi-tion titles include webmaster, web designer, web developer, web programmer, web assistant, media assis-tant, media planner, interactive media specialist, interface designer, animation specialist, computer pro-grammer, programmer, graphic artist, computer specialist, modeler, game designer, game programmer, game developer, photographer, videographer, video editing specialist, digital marketing specialist, social media and marketing coordinator, digital media specialist, social media manager, social media director, social media analyst, social media developer, online advertising manager, and online advertising salesperson.

YOU MAY STUDY

- Web Design& Development
- Digital Photography
- Animation
- Content Management Systems (CMS)
- Image Creation& Manipulation
- Digital Videography
- Digital Video Editing
- Page Layout& Desktop Publishing
- Adobe Dreamweaver
- Adobe Animate
- Adobe Illustrator
- Adobe InDesign
- Adobe Photoshop
- Adobe Premiere
- Adobe Experience Design (XD)
- Multimedia Design
- User Experience (UX) Design
- Search Engine Optimization Techniques
- Social Media& Digital Marketing
- Video Game and Application Programming
- WordPress

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 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.

MULTIMEDIA – WEB DESIGNER, AAS

PROGRAM MAP

The program map is provided as a guide for a traditional full-time student whose goal is to earn the Associate in Applied Science Degree, AAS in Multimedia/Web Design. 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.

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

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 - Adobe Dreamweaver (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 + 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

ADOBE 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:

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 - Adobe Dreamweaver (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

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 & 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

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 & WEB DEVELOPMENT CERTIFICATE

PROGRAM MAP

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 - Adobe Dreamweaver (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

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

MULTIMEDIA – 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 226 - Adobe Photoshop (5)
- MIT 235 - User Experience Design (UX) (5)

TOTAL CREDITS: 15

2nd Quarter
- MIT 149 - Introduction to Web Page Design (5)
- MIT 240 - Adobe Dreamweaver (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

ALLIED HEALTH EDUCATION

NURSING

PLANNING GUIDE

Program 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, 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.

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 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.*

LPN-RN REGISTERED NURSING AAS DEGREE

99 credits, part-time

SVC offers a Registered Nursing, AAS program for nurses who have graduated from a PN program and have a current Washington State unencumbered LPN license. Located on the Whidbey Island Campus, this is a part-time degree path (6 quarters including summer). The LPN to RN focuses on the second year of the Registered Nursing Program. 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 of this program receive an Associate Degree in Registered Nursing and are eligible to apply for the State Licensing Examination (NCLEX-RN) for Registered Nursing.

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 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.

Program Learning Outcomes

General Education Learning Outcomes, pp 145-146.

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 Skagit Valley College 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 - 3343 Peachtree Road, NE, Suite 850, Atlanta, GA 30326; (404) 975-5000; www.acenursing.org

Program Admissions

Required Immunizations for all Nursing Programs:

- 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.
- Current American Heart Association Basic Life Support (BLS) CPR card. A CPR card received through an internet-based training program is not acceptable for this program.
- Annual Flu vaccine (except summer quarter).
- 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 (RN or LPN to RN) 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.

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.

Workforce

If you are interested in working in the field of Nursing, our Planning Guide is designed to provide you with recommended courses to complete your degree. Of course, educational plans may vary, based on which quarter you begin, how many credits are taken, and placement into Math and English. To keep you on the best pathway, we encourage you to consult with an Academic Advisor for scheduling options

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 **www.skagit.edu/nursing**.

PRE-NURSING TRANSFER AGREEMENT, DTA/MRP

PLANNING GUIDE

90 credits, full-time

Program Overview

The Associate in Pre-Nursing Direct Transfer Agreement 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.

Students who complete this degree may also choose to apply for entrance into the Associate in Nursing DTA/MRP degree at Skagit Valley College.

Transfer

If you are considering a major in Nursing and transferring to...

- **Northwest University**
- **Pacific Lutheran University**
- **Seattle Pacific**
- **Seattle University**
- **University of Washington**
- **Walla Walla College**
- **Washington State University**
- **Western Washington University**

...our 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.

Degree Requirements

General Education Learning Outcomes, pp 145-146
Program Learning Outcomes, p 146

An ampersand (&) denotes Common Course Numbering

- *An asterisk (*) designates a lab course.*

Students must complete a minimum of 90 quarter credits in transferable courses, college-level or numbered 100 and above, with a cumulative grade point average of at least 2.0 in order to graduate from SVC with an Associate in Pre-Nursing Degree. At least 25 college-level 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.

20. First Quarter Experience (2 cr.)

- CSS 103 - First Quarter Experience (2)

21. Communication Skills (10 cr.)

- ENGL& 101 - English Composition I (5)
- ENGL& 102 - Composition II (5)

22. Quantitative Skills (5 cr.)

- MATH& 146 - Introduction to Stats (5)

Note: *UW Seattle and Seattle University require 10 credits in quantitative/symbolic reasoning with the additional class in college algebra or pre-calculus (at UW Seattle a class in Logic also meets this requirement).*

23. 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.*

24. Diversity Requirement

- SOC& 101 - Intro to Sociology: D (5)

Note: *Northwest University (NU) requires ANTH& 206 - Cultural Anthropology: D and does not accept a course in Sociology discipline as a substitute. Students may be admitted to the BSN without Cultural Anthropology if they agree to complete the course at NU in the summer prior to the junior year.*

25. Distribution Requirements (65 cr.)

Select credits from three areas of study: Natural Sciences, Social Sciences, 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 (35 cr.)

- BIOL& 160 - General Biology w/Lab (5) *
- BIOL& 241 - Human Anatomy and Physiology I (5) *
- BIOL& 242 - Human A & P II (5) *
- BIOL& 260 - Microbiology (5) *
- CHEM& 121 - Intro to Chemistry (5) *
- CHEM& 131 - Intro to Organic/Biochemistry (5) *
- NUTR& 101 - Nutrition (5)

Notes:

Introductory survey courses or review courses do not meet the content level expectations for these natural science requirements.

Northwest University requires 2 credits of Genetics, as well. Students may be admitted to the BSN without Genetics, if they agree to complete the course at NU in the summer prior to the junior year.

UW Seattle requires a minimum GPA of 3.0 for 3 out of the 7 courses or 2.8 for 4 out of the 7.

This degree requires 35 credits in Natural Sciences with at least 25 credits lab-based.

B. Social Sciences (15 cr.)

- PSYC& 100 - General Psychology (5)
- PSYC& 200 - Lifespan Psychology (5)
- SOC& 101 - Intro to Sociology: D (5)

Notes:

Northwest University (NU) requires ANTH& 206 - Cultural Anthropology: D and does not accept a course in Sociology discipline as a substitute. Students may be admitted to the BSN without Cultural Anthropology if they agree to complete the course at NU in the summer prior to the junior year.

A curriculum that provides students with an understanding of and sensitivity to human diversity is encouraged (required by WSU). Credits in the Sociology distribution area provide one opportunity for such a curriculum. Choices include: minority, non-western, ethnic or other "area" studies.

C. Humanities (15 cr.)

- CMST& 220 - Public Speaking (5)
- Select two additional courses from the Distribution Lists - AA-DTA Humanities Distribution list, pp 157-160. No more than 10 credits in one discipline; no more than 5 credits in World Languages, ASL or performance/ skills studio classes.

Notes:

In order to better prepare for successful transfer, students are encouraged to consult with the institution(s) to which they wish to transfer regarding the humanities courses that best support or may be required as prerequisites to their Nursing curriculum.

A curriculum that provides students with an understanding of and sensitivity to human diversity is encouraged (required by WSU). Credits in the humanities distribution area provide one opportunity for such a curriculum. Choices include: minority, non-western, ethnic or other "area" studies.

D. Electives (10 cr.)

Select 5 credits from courses numbered 100 and above and 5 credits from the Distribution Lists - AA-DTA Natural Sciences, Social Sciences, and Humanities Distribution lists, pp 157-160.

Notes:

A curriculum that provides students with an understanding of and sensitivity to human diversity is encouraged (required by WSU). Elective credits provide one opportunity for such a curriculum. Choices include: minority, non-western, ethnic or other "area" studies.

UW Seattle and Seattle University require 10 credits in quantitative/symbolic reasoning with the additional class in college algebra or pre-calculus (at UW Seattle a class in Logic also meets this requirement).

Sample career options include –

- **Registered Nurse**
- **Critical Care Nurse**
- **Acute Care Nurse**

PROGRAM MAP

The program map is provided as a guide for a traditional full-time student whose goal is to earn the Pre-Nursing DTA/MRP, 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.

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 - Intro 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.

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 & P II (5)
- PE 100 - Wellness For Life (1)
- PE Activity (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.
  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 - Intro to Organic/Biochemistry (5)
- SOC& 101 - Intro to Sociology: D (5)
- PE Activity (1)

TOTAL CREDITS: 16

NURSING TRANSFER AGREEMENT, DTA/MRP

PLANNING GUIDE

135 credits, full-time

Program Overview

This degree is intended to prepare students for licensure as a registered nurse as well as entry into a Bachelor of Science in Nursing completion degree. Although this degree will be granted to SVC students completing a cumulative 2.0 GPA, entry into a Bachelor of Science Nursing program will require a higher GPA for admission. Minimum grade-point average requirements are established by each institution. Meeting the minimum requirements does not guarantee admissions. Seek out an SVC Nursing advisor/counselor early in your studies to check with potential transfer institutions about requirements for overall minimum GPA, possible higher GPA in a selected subset of courses, or a specific minimum grade in one or more courses such as math or English. Students should contact potential degree institutions regarding specific requirements where options are listed.

Transfer

If you are considering a major in Nursing and transferring to...

- **Central Washington University**
- **Eastern Washington University**
- **Heritage University**
- **Pacific Lutheran University**
- **St. Martin's University**
- **Seattle Pacific**
- **University of Washington**
- **UW Bothell**
- **Washington State University**
- **Western Washington University**
- **Western Governor's University**

...our Transfer Program Planning Guide is designed to provide you with recommended courses to complete your 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.

Degree Requirements

General Education Learning Outcomes, pp 145-146
Program Learning Outcomes, p 146

An ampersand (&) denotes Common Course Numbering

- *An asterisk (*) designates a lab or skill/studio course.*

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.

26. 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)
  and
- ENGL& 102 - Composition II (5) *(Strongly recommended; required for some bachelor's degrees)*
  or instead of ENGL& 102, choose one from 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)

27. Quantitative Skills (5 cr.)

- MATH& 146 - Introduction to Stats (5)

28. 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, 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.

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**

29. 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 & Pract: D (7) **LECTURE**
- NURS 172 - Nursing Fundamentals-Skills & Pract: D (2) **CLINICAL**
- NURS 173 - Nursing Fundamentals-Skills & Pract: D (3) **LAB**

30. 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 A & P II (5) *
- BIOL& 260 - Microbiology (5) *
- CHEM& 121 - Intro to Chemistry (5) *
- NUTR& 101 - Nutrition (5)

C. Social Sciences (15 cr.)

- PSYC& 100 - General Psychology (5)
- PSYC& 200 - Lifespan Psychology (5)
- SOC 191 - Psychosocial Issues in Healthcare (5)

31. Nursing Core (60 cr.)

- NURS 171 - Nursing Fundamentals-Skills & Pract: D (7) **LECTURE**
- NURS 172 - Nursing Fundamentals-Skills & Pract: D (2) **CLINICAL**
- NURS 173 - Nursing Fundamentals-Skills & Pract: D (3) **LAB**
- NURS 181 - Nursing M/S Patient-Practicum (6) **LECTURE**
- NURS 182 - Nursing M/S Patient-Practicum (6) **CLINICAL**
- NURS 191 - Nursing OB, Pediatrics, M/S-Skls Prac (3) **LECTURE**
- NURS 192 - Nursing OB, Pediatrics, M/S-Skls Prac (4) **CLINICAL**

  Concurrent enrollment in SOC 191 (5) required
- 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) **CLINICAL**

  Concurrent enrollment in PHIL 291 (5) required

PROGRAM MAP

The program map is provided as a guide for a traditional full-time student whose goal is to earn the Associate in Nursing DTA/MRP, 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.

FIRST YEAR

1st Quarter

- NURS 171 - Nursing Fundamentals-Skills & Pract: D (7) **LECTURE**
- NURS 172 - Nursing Fundamentals-Skills & Pract: D (2) **CLINICAL**

- NURS 173 - Nursing Fundamentals-Skills & Pract: D (3)
  LAB

TOTAL CREDITS: 12

2nd Quarter

- NURS 181 - Nursing M/S Patient-Practicum (6)
  LECTURE
- NURS 182 - Nursing M/S Patient-Practicum (6)
  CLINICAL

TOTAL CREDITS: 12

3rd Quarter

- NURS 191 - Nursing OB, Pediatrics, M/S-Skls Prac (3)
  LECTURE
- NURS 192 - Nursing OB, Pediatrics, M/S-Skls Prac (4)
  CLINICAL
- SOC 191 - Psychosocial Issues in Healthcare (5)

TOTAL CREDITS: 12

SECOND YEAR

4th 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

5th Quarter

- NURS 281 - Nursing Complx M/S & Geriatric Patient (6)
  LECTURE
- NURS 282 - Nursing Complx M/S & Geriatric Patient (6)
  CLINICAL

TOTAL CREDITS: 12

6th Quarter

- NURS 291 - Entry Nursing Practice/Practicum (1)
  LECTURE
- NURS 292 - Entry Nursing Practice/Practicum (4)
  CLINICAL
- PHIL 291 - Ethics and Policy in Healthcare (5)

TOTAL CREDITS: 10

REGISTERED NURSING (LPN-RN), AAS

PLANNING GUIDE

99 credits, part-time

Offered at Whidbey Island Campus only.

Program Overview

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.

SVC offers a program for nurses who have graduated from a PN program and have a current Washington State LPN license. The LPN to RN AAS Degree program includes the second year of the Associate Degree in Registered Nursing. Students complete the same RN program prerequisites, related education courses, and 6 quarters of nursing courses required for the AAS degree. The program was designed to create a pathway for PN graduates to move into high-wage, high-demand career opportunities in healthcare. Graduates of this program receive an Associate Degree in Registered Nursing and are eligible to apply for the State Licensing Examination (NCLEX-RN) for Registered Nursing.

Sample career options include –

- **Registered Nurse**
- **Critical Care Nurse**
- **Acute Care Nurse**

PROGRAM MAP

The program map is provided as a guide for a traditional full-time student whose goal is to earn the Registered Nursing, 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.

FIRST YEAR

1st Quarter

- NURS 274 - Nursing Advncd OB, Ped, M/S-Skls Prac (3)
  LECTURE 1
- NURS 276 - Nursing Advncd OB, Ped, M/S-Skls Prac (1)
  LAB 1
- NURS 277 - Nursing Advncd OB, Ped, M/S-Skls Prac (2)
  LECTURE 2

TOTAL CREDITS: 6

2nd Quarter

- NURS 275 - Nursing Advncd OB, Ped, M/S-Skls Prac (2)
  CLINICAL 1
- NURS 278 - Nursing Advncd OB, Ped, M/S-Skls Prac (3)
  CLINICAL 2
- NURS 279 - Nursing Advncd OB, Ped, M/S-Skls Prac (1)
  LAB 2

TOTAL CREDITS: 6

3rd Quarter

- NURS 284 - Nursing Complx M/S & Geriatric Patient (3)
  LECTURE 1
- NURS 285 - Nursing Complx M/S & Geriatric Patient (3)
  CLINICAL 1

TOTAL CREDITS: 6

SECOND YEAR

4th Quarter

- NURS 287 - Nursing Complx M/S & Geriatric Patient (3)
  LECTURE 2
- NURS 288 - Nursing Complx M/S & Geriatric Patient (3)
  CLINICAL 2

TOTAL CREDITS: 6

5th Quarter

- PHIL 294 - Ethics and Policy in Healthcare (2.5)
  PART 1
- PHIL 297 - Ethics and Policy in Healthcare (2.5)
  PART 2

TOTAL CREDITS: 5

6th Quarter

- NURS 294 - Entry into Nursing Practice and Practicum (0.5)
  LECTURE 1
- NURS 295 - Entry into Nursing Practice and Practicum 2 (2)
  CLINICAL 1
- NURS 297 - Nursing Adult/Child Practicum V (0.5)
  LECTURE 2
- NURS 298 - Nursing Care of the Adult/Child IV (2)
  CLINICAL 2

TOTAL CREDITS: 5

NURSING ASSISTANT EDUCATION CERTIFICATE

PROGRAM MAP

Offered at Mount Vernon and Whidbey Island Campuses

A certificate is awarded to students who complete the following courses with a 2.3 grade point average or above in each course.

- NURS 100 - Nursing Assistant/AIDS Education (4)
  LECTURE
- NURS 101 - Nursing Assistant/AIDS Education (3)
  CLINICAL
- NURS 102 - Nursing Assistant/AIDS Education (1)
  LAB

TOTAL CREDITS: 8

MANUFACTURING TECHNOLOGY

OPERATIONS MANAGEMENT

PLANNING GUIDES: AAS, AAS-T, CERTIFICATES

Program 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 often found in advanced manufacturing-related industries. This unique program is actually a cluster of program areas designed to provide students with "stackable" skills that employers have identified as necessary to enter the manufacturing sector or advance up the career ladder. The program includes multiple degree pathways including transfer degrees.

Program Learning Outcomes

General Education Learning Outcomes, pp 145-146.

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 proficiency in basic AC/DC theory and electrical control. (Automation emphasis)
- Demonstrate te proficient application of composite manufacturing methods, materials and tools. (Composite emphasis)

Program Admissions

Please apply at Enrollment Services. Students may enter the program at the beginning of any quarter. Please be aware that some classes/sequences are not offered every 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 of the Micro-Certificate sequences. 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

CAREER & 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.

Degree Options: AAS

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.

OPERATIONS MANAGEMENT, AAS

The Operations Management, AAS degree is designed to focus on the business, product development and metrology tools needed in the modern manufacturing environment. Upon completion, students will be equipped with the personnel and project management skills necessary to enter the work force at the productions support or lead level in a modern manufacturing environment.

Degree Options: AAS-T

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-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. See counselor or department chair for details.

Workforce

If you are interested in working in the field of Operations Management, our Planning Guide is designed to provide you with recommended courses to complete your Operations Management AAS or AAS-T degree. Of course, educational plans may vary, based on which quarter you begin, how many credits are taken, and placement into Math and English. To keep you on the best pathway, we encourage you to consult with an Academic Advisor for scheduling options.

Program Maps

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.

OPERATIONS MANAGEMENT, AAS & AAS-T

PLANNING GUIDES

Program 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 lab.

The Operations Management, AAS degree is designed to focus on the business, product development and metrology tools needed in the modern manufacturing environment. Upon completion, students will be equipped with the personnel and project management skills necessary to enter the work force at the productions support or lead level in a modern manufacturing environment.

The Operations Management, AAS-T degree has similar course content as the Operations Management, AAS degree and is designed to prepare a student for transfer to a BAS program. This degree requires transferable math, physics and economics courses. Consult with an advisor for details.

Sample career options include –

- **General and Operations Managers**
- **First-Line Supervisors of Production & Operating Workers**

PROGRAM MAP, AAS

The program map is provided as a guide for a traditional full-time student whose goal is to earn the Operations Management, 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.

FIRST YEAR

Fall Quarter

- MANF 110 - Introduction to Manufacturing (3)
- MANF 122 - Material Science in Manufacturing (2)
- MANF 140 - Print Reading in Manufacturing (3)
- CSS 103 - First Quarter Experience (2)
- † ENGL& 101 - English Composition I (5)
- TECD 103 - Introduction to Computer-Aided Design (3)

TOTAL CREDITS: 18

Winter Quarter

- MANF 103 - Introduction to Quality Assurance (3)
- MANF 127 - Manufacturing Math (2)
- CMST& 210 - Interpersonal Communication: D (5) *or* CMST& 220 - Public Speaking (5)
- TECD 104 - Basic Computer-Aided Design (3)
- † WMATH 100 - Professional Technical Applied Math (5) *or* BUS 111 - Business Math (5)

TOTAL CREDITS: 18

Spring Quarter

- MANF 125 - Precision Measurement and Tools (3)
- MANF 177 - Quality Control Metrics and Applications (5)
- ENGL& 235 - Technical Writing (5)
- TECD 105 - Computer-Aided Design III (4)

TOTAL CREDITS: 17

SECOND YEAR

Fall Quarter

- MANF 115 - Intro to Computer Numeric Controlled (CNC) Operations (5)
- MANF 120 - Industrial Safety (2)
- MANF 121 - First Aid and CPR (1)
- MANF 210 - Total Productive Maintenance (3)
- ECON& 201 - Micro Economics (5)

TOTAL CREDITS: 16

Winter Quarter

- MANF 220 - Supply Chain Management (5)
- MATH& 146 - Introduction to Stats (5)

TOTAL CREDITS: 15

Spring Quarter

- ‡ MANF 199 - Internship Experience (1-15)
- MANF 250 - Shop Supervision (5)
- MANF 256 - Operations Management (5)
- BUS 280 - Entrepreneurship and Small Business Management (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)

‡ MANF 199 may be taken at any time after the first quarter, including summer quarter.

PROGRAM MAP, AAS-T

The program map is provided as a guide for a traditional full-time student whose goal is to earn the Operations Management, 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.

FIRST YEAR

Fall Quarter

- MANF 110 - Introduction to Manufacturing (3)
- MANF 122 - Material Science in Manufacturing (2)
- MANF 140 - Print Reading in Manufacturing (3)
- CSS 103 - First Quarter Experience (2)
- † ENGL& 101 - English Composition I (5)
- TECD 103 - Introduction to Computer-Aided Design (3)

TOTAL CREDITS: 18

Winter Quarter

- MANF 103 - Introduction to Quality Assurance (3)
- CMST& 210 - Interpersonal Communication: D (5)
  or CMST& 220 - Public Speaking (5)
- † MATH& 146 - Introduction to Stats (5)
- TECD 104 - Basic Computer-Aided Design (3)

TOTAL CREDITS: 16

Spring Quarter

- MANF 125 - Precision Measurement and Tools (3)
- MANF 177 - Quality Control Metrics and Applications (5)
- ENGL& 235 - Technical Writing (5)
- TECD 105 - Computer-Aided Design III (4)

TOTAL CREDITS: 17

SECOND YEAR

Fall Quarter

- MANF 115 - Intro to Computer Numeric Controlled (CNC) Operations (5)
- ECON& 201 - Micro Economics (5)
- PHYS& 124 - General Physics Lab I (1)
- PHYS& 134 - General Physics I (5)

TOTAL CREDITS: 16

Winter Quarter

- MANF 120 - Industrial Safety (2)
- MANF 121 - First Aid and CPR (1)
- MANF 220 - Supply Chain Management (5)
- ECON& 202 - Macro Economics (5)

TOTAL CREDITS: 18

Spring Quarter

- ‡ MANF 199 - Internship Experience (1-15)
- MANF 250 - Shop Supervision (5)
- MANF 256 - Operations Management (5)
- BUS 280 - Entrepreneurship and Small Business Management (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.

‡ MANF 199 may be taken at any time after the first quarter, including summer quarter.

PARK RANGER LAW ENFORCEMENT ACADEMY

PLANNING GUIDE

Program 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. 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.

Sample career options include –

- **Association of National Park Rangers**
- **National Park Service**
- **Federal Law Enforcement Training Center**
- **WA State Parks & Recreation Commission**

Workforce

If you are interested in working in the field of Park Ranger, our Workforce Planning Guide is designed to provide you with recommended courses to complete your Park Ranger Law Enforcement Academy certificate. To keep you on the best pathway, we encourage you to consult with an Academic Advisor for scheduling options.

Certificate Requirements

A certificate is awarded to students who complete the following courses with a 2.0 grade point average or above in each course and achieve technical competency.

PRLEA CERTIFICATE

PROGRAM MAP

30 credits

- CJ 241 - Park Ranger Law Enforcement Academy (PRLEA) Module 1 (6)
- CJ 242 - Park Ranger Law Enforcement Academy (PRLEA) Module 2 (6)
- CJ 243 - Park Ranger Law Enforcement Academy (PRLEA) Module 3 (6)

- CJ 244 - Park Ranger Law Enforcement Academy (PRLEA) Module 4 (6)
- CJ 245 - Park Ranger Law Enforcement Academy (PRLEA) Module 5 (6)

PRLEA/EMT CERTIFICATE

PROGRAM MAP

35 credits

- CJ 241 - Park Ranger Law Enforcement Academy (PRLEA) Module 1 (6)
- CJ 242 - Park Ranger Law Enforcement Academy (PRLEA) Module 2 (6)
- CJ 243 - Park Ranger Law Enforcement Academy (PRLEA) Module 3 (6)
- CJ 244 - Park Ranger Law Enforcement Academy (PRLEA) Module 4 (6)
- CJ 245 - Park Ranger Law Enforcement Academy (PRLEA) Module 5 (6)
- FIRE 140 - Emergency Medical Responder (5)

PRLEA/FIRE CERTIFICATE

PROGRAM MAP

33 credits

- CJ 241 - Park Ranger Law Enforcement Academy (PRLEA) Module 1 (6)
- CJ 242 - Park Ranger Law Enforcement Academy (PRLEA) Module 2 (6)
- CJ 243 - Park Ranger Law Enforcement Academy (PRLEA) Module 3 (6)
- CJ 244 - Park Ranger Law Enforcement Academy (PRLEA) Module 4 (6)
- CJ 245 - Park Ranger Law Enforcement Academy (PRLEA) Module 5 (6)
- FIRE 126 - Wildland Firefighting (3)

ALLIED HEALTH EDUCATION

PHARMACY TECHNICIAN

PLANNING GUIDE

Program Overview

The Allied Health Education (AHE) designation includes all courses required for certificates offered in Medical Assistant, Medical Billing and Coding Specialist, and Pharmacy Technician. A two-year Medical Assistant is available. Our 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.

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.

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 15-20 credits of prerequisite course requirements prior to fall entry. A certificate is awarded to those students who complete the 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. See Dental Assistant and Veterinary Assistant sections for further information about these Allied Health program options.

Program Learning Outcomes

General Education Learning Outcomes, pp 145-146.

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 Pharmacy Technician certificate program is endorsed by the Washington State Department of Health-Board of Pharmacy. This program meets or exceeds the goals and objectives of the American Society of Health Systems Pharmacists and the approved Washington State Pharmacy Technicians Training competencies. Students completing the Pharmacy Technician program will be able to sit for the national Pharmacy Technician Certification exam.

Program Admissions

Please apply at Enrollment Services or online at www.skagit.edu/getstarted to be admitted to Skagit Valley College and receive a student ID (SID). Attend an information session and fill out an Allied Health Education program application (see the Allied Health Education web page for dates: www.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.

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 better course availability and completion in a timely manner, it is recommended that students enter during the designated quarter noted for a specific program. Some programs only have one annual entry.

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. 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. 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

For the most current overview about the Allied Health Education program and specific program information, please visit **www.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 blood borne 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.

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;
- Any other requirements of a specific certificate or practicum site may apply.

Workforce

If you are interested in working in the field of Medical Assisting, Medical Billing and Coding, or Pharmacy Technician, our Planning Guides are designed to provide you with recommended courses to complete your degree/certificate. Of course, educational plans may vary, based on which quarter you begin, how many credits are taken, and placement into Math and English. 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.

Student schedule may vary based on entry point, credit load, and prerequisites. Consult with an AHE advisor for scheduling options. Sample only, not for academic planning purposes. Students must submit a completed application to the Allied Health Education department for entry into Allied Health courses, or any program cohort.

The Medical Assistant Certificate is awarded to students who complete the 88 credits of the technical portion of the degree with a minimum C grade. General education courses must also be completed with a minimum C grade.

PHARMACY TECHNICIAN, CERTIFICATE

PLANNING GUIDE

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 15-20 credits of prerequisite course requirements prior to fall entry.

Students wishing to enter the Pharmacy Technician program will need to complete the following prerequisite courses with a "C" grade or better and be placed on a waiting list. Courses must be taken in sequence. Based on the date of their completed application, students will be entered into the program each Fall quarter on a first-come, first-served basis. See Pharmacy Technician web page for application and further details.

PROGRAM MAP

Prerequisite Courses

- AHE 102 - Basic Medical Terminology (5)
- AHE 112 - Basic Pharmacology (5)
- CSS 103 - First Quarter Experience (2)
- MATH 096 - Pre-Algebra (5) or higher with a grade of C or better, *or* a placement score into MATH 097
- OBT 162 - Microsoft Office Basics (3)

Fall and Winter Entry

FIRST YEAR

Fall Quarter

- AHE 130 - Orientation to Pharmacy Practice (4)
- AHE 131 - Pharmacy Technician Terminology (3)
- AHE 101 - Healthcare Interactions: D (3)
- AHE 118 - Drug Dosage Calculations (5)

TOTAL CREDITS: 15

Winter Quarter

- AHE 106 - Anatomy & Physiology (6)
  or
  - BIOL& 241 - Human Anatomy and Physiology I (5)
  - *and* BIOL& 242 - Human A & P II (5)
- AHE 132 - Applied Pharmacology (5)
- AHE 133 - Pharmacy Records Management (4)

TOTAL CREDITS: 15

Spring Quarter

- AHE 134 - Over-the-Counter (OTC) Drugs (2)
- AHE 135 - Community & Hospital Drug Dispensing/Management (4)
- AHE 200 - First Aid and Emergency Procedures (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: 14

SECOND YEAR

Summer Quarter

- 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

MANUFACTURING TECHNOLOGY

TECHNICAL DESIGN (CAD)

PLANNING GUIDE

Program Overview

The Technical Design (TECD) program 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.

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 any related instruction if required in communication, math, and human relation skills. 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.

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 Learning Outcomes

Graduates of the Technical Design program will be able to:

- Proficiently use a CAD work station including storage and retrieval of CAD documents.
- Use calculation skills to determine the precise size of features shown on technical drawings.
- Use computer technology to exchange information and develop technical drawings.
- Participate and contribute to the effectiveness of work teams.
- Use fundamental skills in writing, reading, speaking, listening & computing to communicate in the workplace.

Program Admissions

Please apply at Enrollment Services. Students may enter the program at the beginning of any quarter. Please be aware that some classes/sequences are not offered every 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 of the certificate sequences. 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

CAREER & 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.

TECHNICAL DESIGN CERTIFICATE

PROGRAM MAP

The Technical Design certificate will provide the basic skills needed for entry-level CAD Technicians to perform in a manufacturing setting by introducing students to key product development concepts and a comprehensive sampling of essential software tools found in advanced manufacturing industries. 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.

REQUIRED COURSES:

- TECD 103 - Introduction to Computer-Aided Design (3)
- TECD 104 - Basic Computer-Aided Design (3)
- TECD 105 - Computer-Aided Design III (4)
- TECD 107 - Computer-Aided Design IV (5)
- TECD 220 - Computer-Aided Design Studio (5)
- MANF 110 - Introduction to Manufacturing (3)
- MANF 120 - Industrial Safety (2)
- MANF 121 - First Aid and CPR (1)
- MANF 122 - Material Science in Manufacturing (2)
- MANF 125 - Precision Measurement and Tools (3)
- MANF 127 - Manufacturing Math (2)
- MANF 140 - Print Reading in Manufacturing (3)
- MANF 199 - Internship Experience (1-15)
- CMST& 210 - Interpersonal Communication: D (5)
  or CMST& 220 - Public Speaking (5)
- ENGL& 101 - English Composition I (5)
- WMATH 100 - Professional Technical Applied Math (5)

TECHNICAL DESIGN OPTIONS

- **Automated Systems Technology:** MANF 145, MANF 150 and MANF 156
- **Composite Repair Technician:** CMPST 121, CMPST 123 and CMPST 127
- **Computer Numeric Control (CNC) Operations:** MANF 115, MANF 190 and MANF 205
- **Quality Assurance:** MANF 103, *MANF 120, *MANF 121, *MANF 140, MANF 177 and WMATH 100

  *Possible duplication of courses

See Department Chair for scheduling courses depending on areas of interest.

TECHNICAL DRAWING MICRO-CERTIFICATE

PROGRAM MAP

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 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:

- TECD 103 - Introduction to Computer-Aided Design (3)
- TECD 104 - Basic Computer-Aided Design (3)
- TECD 105 - Computer-Aided Design III (4)
- TECD 107 - Computer-Aided Design IV (5)

VETERINARY ASSISTANT

PLANNING GUIDE

Program Overview

The Veterinary Assistant (VETA) program is a collaborative educational program being offered through a partnership between Skagit Valley College and the Northwest Career & Technical Academy (Academy). The Academy occupies a new building on the SVC campus and opened its doors to students September 2010. The Academy specializes in hands-on professional-technical training taught by industry professionals in a variety of program areas. The Veterinary Assistant program is a three-quarter (two semester) certificate designed to provide entry-level skills and education to students interested in pursuing a career in the field of animal science. The Academy provides the classroom and practicum site for this program. This is a full-year program (Sept.-June) with courses scheduled sequentially. Students attend classes for 2.5 hours per day Monday - Friday. Students may enter this program Fall Quarter only. Class Hours: Students may choose either an a.m. or p.m. section, i.e., 8:00 a.m.-10:30 a.m. daily or 11:30 - 2:00 p.m. daily.

The Veterinary Assistant program prepares students to be a valuable member of the veterinary support team while assisting the Licensed Veterinary Technician and/or the Veterinarian in all aspects of patient care. The Veterinary Assistant program includes classroom theory and practicum experiences. In the classroom lab, students will receive hands-on experience with animals. Program content requires the application of basic math, technical reading, and communications skills. Students must also submit evidence of a tetanus immunization. Students need to be aware that some practicum sites may require a drug screening test prior to placement. Criminal convictions may restrict or prevent student employment in this industry. Veterinary Assistants work in a variety of settings including private veterinary clinics, animal shelters, humane societies, laboratories, large animal facilities, wildlife rehabilitation centers, grooming shops, stables, boarding kennels, farms, aquariums, zoos, and animal parks.

Veterinary Assistants provide surgical and nursing care to animals in clinics as well as field settings. The duties may include basic patient care and supportive nursing, client education and customer service, laboratory procedures, kennel and clinic maintenance. In some work environments assistants may bathe, groom, exercise or otherwise care for pets and other animals such as dogs, cats, ornamental fish or birds, livestock, zoo animals, or mice in research facilities. Assistants may clean and disinfect cages and work areas, and sterilize laboratory and surgical equipment. They may provide routine post-operative care, administer medication orally or topically, or prepare samples for laboratory examination under the supervision of veterinary or laboratory animal technologists or technicians, veterinarians, or scientists. They may keep records of feedings, treatments, and animals received or discharged.

Veterinary Assistant positions are listed as an "in-demand" occupation for the Northwest Region which includes Whatcom, Skagit and Island counties. According to the "National Industry-Occupation Employment Matrix," (a publication of the U.S. Bureau of Labor Statistics) demand for professional Veterinary Assistants will rise 16% by 2016. Pet owners are increasingly taking advantage of veterinary services, spurring employment growth for Veterinary Assistants. The companion pet population-which drives employment of animal caretakers in kennels, grooming shops, animal shelters, and veterinary clinics and hospitals-is also expected to increase. Pet owners are expected to increasingly take advantage of grooming services, daily and overnight boarding services, training services, and veterinary services, resulting in more jobs for animal care and service workers. Source: Occupational Outlook Handbook (www.ocouha.com)

Program Learning Outcomes

Graduates of the Veterinary Assistant program will be able to:

- Maintain a safe work environment and interact with animals in a safe manner.
- Understand and demonstrate application of basic medical terminology and lab science, including anatomy and physiology, and animal parasitology.
- Understand basic lab procedures related to hematology, bacteriology, virology, and immunology.
- Understand how vaccines work and which vaccines are appropriate for selected species.
- Understand the causes of disease & the process of diagnosis, treatment & prevention of disease in animals.
- Demonstrate ability using current veterinary techniques to restrain, prep and assist in the performance of medical, dental or surgical procedures in order to care for live animals.
- Demonstrate positive work ethics, professionalism and function as an integral member of an effective veterinary health care team.
- Understand and practice the professional laws, regulations and policies established by the licensing state and regulatory agencies.

- Practice and promote humane animal care and management.
- Demonstrate appropriate workplace behaviors, regular attendance, punctuality, ability to communicate well with others, contribute to the team process, and use appropriate problem-solving & leadership skills.
- Be prepared for entry-level work and/or entry to advanced education at the college level.

Program Admissions

Please apply at Enrollment Services. Students may enter the program Fall quarter. For more information, contact the Department Chair or Enrollment Services.

VETERINARY ASSISTANT CERTIFICATE

PROGRAM MAP

A certificate is awarded to students who complete the following courses with a grade of C (2.0 grade point average) or above in each course.

Fall Quarter
- VETA 121 - Veterinary Assistant I (9)
  TOTAL CREDITS: 9

Winter Quarter
- VETA 122 - Veterinary Assistant II (10)
  TOTAL CREDITS: 10

Spring Quarter
- VETA 123 - Veterinary Assistant III (10)
  TOTAL CREDITS: 10

WELDING TECHNOLOGY

PLANNING GUIDE

Program 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.

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 Learning Outcomes

General Education Learning Outcomes, pp 145-146.

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 & 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.

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.

Workforce

If you are interested in working in the field of Welding Technology, our Workforce Planning Guide is designed to provide you with recommended courses to complete your Welding Technology, AAS degree. Of course, educational plans may vary, based on which quarter you begin, how many credits are taken, and placement into Math and English. First year students start Fall quarter. 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.

Sample career options include –

- **Welding, Soldering, & Brazing Machine Setters, Operators, & Tenders**
- **Welders, Cutters, & Welder Fitters**
- **Structural Metal Fabricators & Fitters**

WELDING TECHNOLOGY, AAS

PROGRAM MAP

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 116 - Introduction to Welding Metallurgy (5)
- WT 212 - Intermediate Wirefeed Welding (9)
- MANF 140 - Print Reading in Manufacturing (3)
- † 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 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 & 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.

8 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.

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 111 - Matter and Energy in Life Science (5) *
- BIOL 127 - Ecosystems of the Pacific Northwest (5)
- BIOL 133 - Field Botany (5) *
- BIOL& 160 - General Biology w/Lab (5) *
- BIOL& 170 - Human Biology (5)
- BIOL 190 - Life in the Sea (3)
- 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 224 - Ecology (5)
- BIOL& 241 - Human Anatomy and Physiology I (5) *
- BIOL& 242 - Human A& P 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 - Intro to Chemistry (5) *
- CHEM& 122 - Introduction to Organic Chemistry (5)
- CHEM& 123 - Introduction to Biochemistry (5)
- CHEM& 131 - Intro to Organic/Biochemistry (5) *
- CHEM& 161 - General Chem w/Lab I (5) *
- CHEM& 162 - General Chem w/Lab II (5) *
- CHEM& 163 - General Chem w/Lab III (5) *
- CHEM& 241 - Organic Chem I (4) and
- CHEM& 251 - Organic Chem Lab I (2) *
- CHEM& 242 - Organic Chem II (4) and
- CHEM& 252 - Organic Chem Lab II (2) *
- CHEM& 243 - Organic Chem III (3)

EARTH SCIENCES

- ASTR& 100 - Survey of Astronomy (5)
- ASTR& 101 - Intro 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& Climate Solutions (5) *
- GEOL& 100 - Survey of Earth Science (5)
- GEOL& 101 - Intro Physical Geology (5) *
- GEOL& 110 - Environmental Geology (5) *
- GEOL& 208 - Geology of Pacific NW (5) *
- NASC 100 - Introduction to Physical Science (5) *
- OCEA& 101 - Intro to Oceanography (5) *

ENVIRONMENTAL CONSERVATION

- ENVC 165 - Sustainability Fundamentals (5) *
- ENVC 202 - Wildlife Biology: D (5) *

ENVIRONMENTAL SCIENCE

- ENVS& 101 - Intro 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

8 Other Degree Information

- 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)
- 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 & Culture: D (5)

BUSINESS ADMINISTRATION

- BUS& 101 - Intro to Business (5)
- BUS& 201 - Business Law (5)
- BUS 241 - Introduction to International Business (5)

COMPUTER SCIENCE

- CS 101 - Computers, Technology and Society (5)

CRIMINAL JUSTICE

- CJ& 101 - Intro Criminal Justice (3)
- CJ 111 - Criminal Justice Procedures (3)

ECONOMICS

- ECON 101 - Introduction to 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 - Intro to Education (5)

ETHNIC STUDIES

- ETHNC 100 - American Minorities: D (5)
- ETHNC 111 - History of the Northwest Indians: D (5)
- ETHNC 120 - Survey of the Chicano People (5)
- ETHNC 201 - Minorities in American Society: D (5)

GEOGRAPHY

- GEOG& 100 - Introduction to Geography (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 - US History I: D (5)
- HIST& 147 - US History II: D (5)
- HIST& 148 - US History III: D (5)
- HIST& 214 - Pacific NW History (5)
- HIST& 215 - Women in US 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)

INTERNATIONAL STUDIES

All courses

LIBRARY

- LIB 201 - Critical Information Studies & Research Methods (5)

POLITICAL SCIENCE

- POLS& 101 - Intro 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)
- SOSC 110 - Gender Roles& Social Structure (5)
- SOSC 190 - Social History of Work (1-3)

SOCIOLOGY

- SOC& 101 - Intro to Sociology: D (5)
- SOC 112 - Comparative Ethnic Relations (5)
- SOC& 201 - Social Problems (5)
- SOC 204 - Intro to Stratification and Inequality in America: D (5)
- SOC 206 - Sociology of the Family: D (5)

8 Other Degree Information

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)
- 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 (4) *
- ART 241 - Ceramics I (1-4) *

COMMUNICATION STUDIES

- CMST& 102 - Intro 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 - Intro 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 - Intro to Fiction: D (5)
- ENGL& 113 - Intro to Poetry: D (5)
- ENGL 115 - Introduction to Film: D (5)
- ENGL 120 - Introduction to Children's Literature (5)
- ENGL 202 - Introduction to Literature: D (5)
- ENGL& 220 - Intro 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)

HUMANITIES

- HUM& 101 - Intro to Humanities (5)

JOURNALISM

- JOUR 101 - Introduction to Journalism & Newswriting (5)

MUSIC

- MUSC 100 - Music Fundamentals (5)
- MUSC& 105 - Music Appreciation (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 - Intro to Philosophy (5)
- PHIL& 106 - Intro 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
- Chinese
- French
- Japanese
- 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

8 Other Degree Information

BUSINESS
- BUS 120 Business Computers and Applications

BUSINESS MANAGEMENT
- BUS 112 - Personal Finance
- BUS 212 - Investment and Financial Planning II

COLLEGE & CAREER SUCCESS SKILLS
All courses

COMPOSITES TECHNOLOGY
All courses

COMMUNICATION STUDIES
- CMST 125 - Professional Communication: D (3)

CRAFT BREWING
All courses

CRIMINAL JUSTICE
All courses except:
- CJ& 101 - Intro Criminal Justice (3)
- CJ& 105 - Intro to Corrections (3)
- CJ& 110 - Criminal Law (3)
- CJ 111 - Criminal Justice Procedures (3)

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 - Intro to Education (5)
- EDUC& 203 - *Except*ional 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)

ENVIRONMENTAL SUSTAINABLE AGRICULTURE
All courses

FAMILY LIFE
All courses

FIREFIGHTER PROTECTION TECHNOLOGY
All courses

GEOGRAPHIC INFORMATION SYSTEMS
All courses

HEALTH AND FITNESS
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 Management)

MARINE MAINTENANCE TECHNOLOGY
All courses

MULTIMEDIA & 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& Perspectives (2)
- SOSC 131 - College Governance (1)
- SOSC 132 - Student Leadership Seminar (1-2)

TECHNICAL DESIGN
All courses

VETERINARY ASSISTANT
All courses

8 Other Degree Information

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

Program 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.

Program 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.

8 Other Degree Information

- Obtain and apply science-based knowledge to support personal fitness, health, and well-being.

Degree Requirements

- *General Education Learning Outcomes, pp 145-146*
- *Program Learning Outcomes, p 146*
- *An ampersand (&) denotes Common Course Numbering*

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 Skagit Valley College with a minimum cumulative GPA of 2.0. Credits must satisfy requirements listed below.

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 option from the following Communications Distribution courses list:
   - CMST& 210 - Interpersonal Communication: D (5)
   - CMST& 220 - Public Speaking (5)
   - CMST& 230 - Small Group Communication: D (1-5)
   - AESL 105 - Communication Skills (5)

   Choose a second option from the following Communications Distribution courses list:
   - 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)
   - AESL 105 - 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:
   - 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 list in the Natural Sciences, Humanities or Social Sciences, or any other transferable college-level academic courses. A maximum of 45 credits from Gray Area electives, pp 159-160, 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.

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ACCT 142 Payroll Procedures (3)
BUSINESS
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
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
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.

ACCT 242 QuickBooks (3)
BUSINESS
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: ACCT 145 or ACCT& 201 or equivalent.

ACCT 244 Sage 50 (3)
BUSINESS
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 or equivalent.

ACCT& 201 Prin of Accounting I (5)
BUSINESS
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: Appropriate placement or grade of 2.0 or higher in ENGL 099 or instructor permission.

ACCT& 202 Prin of Accounting II (5)
BUSINESS
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: Completed ACCT& 201 with a grade of 2.0 or higher, or instructor permission.

ACCT& 203 Prin of Accounting III (5)
BUSINESS
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: Completed ACCT& 202 with a grade of 2.0 or higher or concurrent enrollment in ACCT& 202, or instructor permission.

AESL 050 Beginning Academic ESL: Reading & Writing (9)
BASIC EDUCATION FOR ADULTS
Non-native English speaking students who can communicate basic needs and concepts in Academic English begin to expand academic skills and develop habits of successful learners.
Prerequisite: None

AESL 055 Beginning Academic ESL: Speaking & Listening (9)
BASIC EDUCATION FOR ADULTS
Non-native English speaking academic students with basic communication skills begin to expand speaking and listening skills in English and develop habits of successful learners.
Prerequisite: None

AESL 060 Intermediate Academic ESL: Reading & Writing (9)
BASIC EDUCATION FOR ADULTS
Continued refinement by non-native speakers of English of Academic English through the performance of routine tasks as well as the extension and application of their academic skills.
Prerequisite: None

AESL 065 Intermediate Academic ESL: Speaking & Listening (9)
BASIC EDUCATION FOR ADULTS
Continued acquisition and refinement of English by non-native speakers through the performance of routine tasks as well as the extension and application of their academic skills.
Prerequisite: None

AESL 070 High Intermediate Academic ESL: Reading & Writing (9)
BASIC EDUCATION FOR ADULTS
Non-native speakers develop language-learning strategies and habits to successfully demonstrate academic English abilities in settings approaching those to be encountered in a college setting.
Prerequisite: None

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AESL 075 High Intermediate Academic ESL: Speaking & Listening (9)
BASIC EDUCATION FOR ADULTS
Non-native speakers will develop language-learning strategies and habits to successfully demonstrate English speaking and listening skills in settings approaching those to be encountered in a college setting.
Prerequisite: **None**

AESL 086 Improving College Writing (1-3)
BASIC EDUCATION FOR ADULTS
A support writing course for continuous development of English writing skills; recommended for nonnative speaking students enrolled in any college-level course with a writing component.
Prerequisite: **None**

AESL 087 Integrated Skills (1-5)
BASIC EDUCATION FOR ADULTS
An EAP component linked to a regularly offered college-level course; recommended for nonnative speaking students enrolled in any college-level course.
Prerequisite: **None**

AESL 097 Grammar/Composition I (5)
BASIC EDUCATION FOR ADULTS
For matriculated students whose first language is not English, this course focuses on sentence structure and the composing process at the advanced ESL level, and includes the study of basic research, analysis, and critical thinking techniques.
Prerequisite: **appropriate placement test score or equivalent, or C+ or higher average in AESL 70/75.**

AESL 098 Grammar/Composition II (5)
BASIC EDUCATION FOR ADULTS
A course for non-native speaking, matriculated students with an emphasis on advanced ESL composition skills. Designed to teach students to write, analyze, and revise sentences and to develop coherent essays. Replaces ENGL 97 requirement for ESL students.
Prerequisite: **appropriate placement test score or equivalent, or C or higher in AESL 97.**

AESL 103 Reading (5)
BASIC EDUCATION FOR ADULTS
Focus on college-level reading, discussion, and test taking skills in a linked format. Vocabulary building, critical thinking, summarizing, paraphrasing, and response writing based on readings.
Prerequisite: **None**

AESL 105 Communication Skills (5)
BASIC EDUCATION FOR ADULTS
This course is designed to enhance speech intelligibility, fluency, and listening comprehension by focusing on common problems of advanced ESL learners.
Prerequisite: **None**

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, or concurrent enrollment, or department chair permission.**

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; banking, payroll, credit and collection; organizing a procedure manual, time-management techniques, and cultural differences concerning perception of time and expectation.
Prerequisite: **AHE 101, or concurrent enrollment; 30 wpm typing speed strongly recommended.**

AHE 106 Anatomy & 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) or equivalent with minimum C grade and department chair permission required.**

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 and department chair permission.**

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 and department chair permission.**

AHE 109 Medical Disease & 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 or equivalent with minimum C grade and department chair permission.**

9 Course Descriptions

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 OFTEC 162 with minimum C grade, or department chair permission.**

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, or concurrent enrollment, or dept. chair permission.**

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 negative TB test; and submitted evidence of attending the required 7-hour AIDS prevention seminar. Must have permission/endorsement of the department chair to enroll. Concurrent enrollment in AHE 117 required.**

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 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 110 with minimum C grade or department chair permission.**

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 assigning correct code numbers to diagnoses and procedures in an online coding practicum in preparation for the CRC certification exam.
Prerequisite: **AHE 122 with minimum C grade or department chair permission.**

AHE 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 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**

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

9 Course Descriptions

pharmaceutical practical records and applications; regulations regarding tracking and tracing drug shipments.
Prerequisite: **Concurrent enrollment in AHE 132.**

AHE 134 Over-the-Counter (OTC) Drugs (2)
HEALTH SCIENCES
Covers medications available to patients without prescription, including herbal medications and supplements, cold/flu preparations, gastrointestinal preparations, topical products, etc. and conversion of legend drugs to OTC status.
Prerequisite: **AHE 132 and 133 with minimum C grade; concurrent enrollment in AHE 135.**

AHE 135 Community & 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 133 with a minimum C grade; 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: **Completion of AHE 134, 135, and 200 all with a minimum C grade.**

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, or concurrent enrollment, or department chair permission.**

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: **completion of AHE 160 with a minimum C grade or 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, 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 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 96 (or college level math) with a C grade or better.**

ANTH 270 Field Course in Archaeology (1-10)
PUBLIC SERVICE & 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)
PUBLIC SERVICE & SOCIAL SCIENCE
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**

ANTH& 204 Archaeology (5)
PUBLIC SERVICE & SOCIAL SCIENCE
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: **Completed ENGL& 101 with a grade of 2.0 or higher.**

ANTH& 205 Biological Anthropology (5)
PUBLIC SERVICE & SOCIAL SCIENCE
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: **Completed ENGL& 101 with a grade of 2.0 or higher.**

ANTH& 206 Cultural Anthropology: D (5)
PUBLIC SERVICE & SOCIAL SCIENCE
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: **Completed ENGL& 101 with a grade of 2.0 or higher.**

ANTH& 234 Religion & Culture: D (5)
PUBLIC SERVICE & SOCIAL SCIENCE
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: **Completed ENGL& 101 with a grade of 2.0 or higher.**

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ART 101 Drawing Fundamentals (5)
ARTS & COMMUNICATION
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)
ARTS & COMMUNICATION
An intermediate studio course in which students develop drawing skills with an emphasis on composition and technique.
Prerequisite: ART 101 or permission of the instructor

ART 107 Life Drawing (4)
ARTS & COMMUNICATION
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)
ARTS & COMMUNICATION
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: Appropriate placement or grade of 2.0 or higher in ENGL 099.

ART 112 Three Dimensional Design (5)
ARTS & COMMUNICATION
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)
ARTS & COMMUNICATION
An introduction and exploration of the relationship between historic world events and the visual arts from the ancient period to 1300 CE.
Prerequisite: Co or Prerequisite: ENGL& 101

ART 143 Survey of Art History: 1300-1850: D (5)
ARTS & COMMUNICATION
An introduction and exploration of the relationship between historic world events and the visual arts from the 1300 - 1850 CE.
Prerequisite: Co or Prerequisite: ENGL& 101

ART 144 Modern Art History: D (5)
ARTS & COMMUNICATION
An introduction and exploration of the relationship between historic world events and the visual arts from 1850 to the present.
Prerequisite: Co or Prerequisite: ENGL& 101

ART 150 Health and Safety in the Visual Arts (1)
ARTS & COMMUNICATION
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)
ARTS & COMMUNICATION
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)
ARTS & COMMUNICATION
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: Art 160 plus 25 credits in art

ART 181 Photography I (4)
ARTS & COMMUNICATION
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: Appropriate placement or grade of 2.0 or higher in ENGL 099.

ART 182 Photography II (1-4)
ARTS & COMMUNICATION
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 181

ART 201 Painting I (4)
ARTS & COMMUNICATION
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 2.0 or higher in ENGL 097, or AESL 098, or appropriate test score. For pending AVA majors, ART 101, 102 or 107, or instructor's permission.

ART 202 Painting II (4)
ARTS & COMMUNICATION
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 or permission of the instructor.

ART 241 Ceramics I (1-4)
ARTS & COMMUNICATION
An introductory studio course that focuses on fundamental hand building and glazing techniques. Emphasis will be placed on discussion and analysis.
Prerequisite: Grade of 2.0 or higher in ENGL 097, or AESL 098, or appropriate test score.

ART 242 Ceramics II (1-4)
ARTS & COMMUNICATION
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 or permission of the instructor

ART 261 Printmaking I (1-4)
ARTS & COMMUNICATION
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)
ARTS & COMMUNICATION
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 or permission of the instructor**

ART 299 Learning into Action (1-15)
ARTS & COMMUNICATION
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)
ARTS & COMMUNICATION
An introduction to the fundamental concepts and principles of the visual arts as a form of communication that links culture and artistic development.
Prerequisite: **Co or Prerequisite: ENGL& 101. Previously listed as Art 141 Introduction to Art. Art 100 and Art 141 are not repeatable for credit.**

ASL& 121 Am Sign Language I (5)
ARTS & COMMUNICATION
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 Am Sign Language II (5)
ARTS & COMMUNICATION
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 grade of C or better or instructor's permission.**

ASL& 123 Am Sign Language III (5)
ARTS & COMMUNICATION
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 grade of C or better or instructor's permission.**

ASTR& 100 Survey of Astronomy (5)
SCIENCE, TECHNOLOGY, ENGINEERING, & 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: **Appropriate placement or grade of 2.0 or higher in ENGL 099 and MATH 98.**

ASTR& 101 Intro to Astronomy (5)
SCIENCE, TECHNOLOGY, ENGINEERING, & 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: **Appropriate placement or grade of 2.0 or higher in ENGL 099 and MATH 98.**

AT 100 Automotive Fundamentals (3)
INDUSTRIAL TECHNOLOGY & 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 201 Automotive Parts & Service Specialist (3)
INDUSTRIAL TECHNOLOGY & 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 107 or concurrent enrollment & OBT 099 or completion of a Keyboarding Proficiency Test.**

AT 107 Light Maintenance I (8)
INDUSTRIAL TECHNOLOGY & 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 & 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: **Prerequisite or concurrent enrollment: AT 101 or 107, AT 133, and CSS 103.**

AT 124 Brake Systems (8)
INDUSTRIAL TECHNOLOGY & 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: **Prerequisite or concurrent enrollment: AT 101 or 107, AT 131, 133, and ENGL& 101.**

AT 131 Suspension, Steering and Alignment (7)
INDUSTRIAL TECHNOLOGY & 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: **Prerequisite or concurrent enrollment: AT 101 or 107, AT 124, 133 and ENGL& 101.**

AT 133 Chassis Electrical II (8)
INDUSTRIAL TECHNOLOGY & TRANSPORTATION
Operation, diagnosis and repair of automotive electrical systems including 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: **Prerequisite or concurrent enrollment: AT 101 or 107, AT 121 and CSS 103.**

AT 141 Transmissions & Drivetrains (12)
INDUSTRIAL TECHNOLOGY & TRANSPORTATION
Operation, diagnosis, service & repair of automatic transmissions/transaxles, including principles of planetary power flow and operation of valve body, torque converter, and electronic controls. Operation, diagnosis, service & repair of manual transmissions/transaxles, clutches and differentials. Perform diagnosis, service and repair on a variety of vehicles.
Prerequisite: **Prerequisite or concurrent enrollment: AT 101 or 107; AT 133, WT 133 and WMATH 100.**

AT 181 Small Gas Engines (3)
INDUSTRIAL TECHNOLOGY & TRANSPORTATION
Basic engine theory, maintenance, overhaul, and tune-up of small gas engines.
Prerequisite: **None**

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AT 199 Cooperative Education Experience (1-15)
INDUSTRIAL TECHNOLOGY & TRANSPORTATION
Supervised work experience in the field. Includes a weekly seminar.
Prerequisite: **Must complete 3 quarters of automotive core. Instructor permission required.**

AT 205 Automotive Engines (8)
INDUSTRIAL TECHNOLOGY & TRANSPORTATION
Operation, diagnosis, service and repair of automotive engines, including discussion of internal components, diagnosis of engine related problems and repair procedures. Engine rebuilding techniques and performance modifications will be discussed. Shop safety, use, and care of precision tools and equipment included.
Prerequisite: **Prerequisite or concurrent enrollment: AT 101 or 107, AT 133, 210 and WT 231.**

AT 207 Automotive Heating and Air Conditioning (7)
INDUSTRIAL TECHNOLOGY & TRANSPORTATION
Operation, diagnosis and repair of automotive air conditioning and heating systems including climate control systems and related electrical circuits. Includes proper service and maintenance of heating, cooling and refrigeration systems, and use of specialty equipment.
Prerequisite: **Prerequisite or concurrent enrollment: AT 100 or 107; AT 133, and 205 and WT 231.**

AT 210 Drivability I (7)
INDUSTRIAL TECHNOLOGY & TRANSPORTATION
Operation, diagnosis, service and repair of engine computer control systems with emphasis on ignition systems, engine condition, heating, and cooling. Use of scan tools, lab scopes, and other specialty test equipment included.
Prerequisite: **Prerequisite or concurrent enrollment: AT 101 or 107, AT 133, 205 and WT 231.**

AT 212 Drivability II (8)
INDUSTRIAL TECHNOLOGY & 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: **Prerequisite or concurrent enrollment: AT 101 or 107, AT 133, 215 and CMST& 210.**

AT 215 Alternative Fuels and Power Technologies (7)
INDUSTRIAL TECHNOLOGY & 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.
Prerequisite: **Prerequisite or concurrent enrollment: AT 101 or 107, AT 133, 212 and CMST& 210.**

AT 299 Learning into Action (1-15)
INDUSTRIAL TECHNOLOGY & 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**

AT 220 Professional Lab Techniques (8)
INDUSTRIAL TECHNOLOGY & 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.
Prerequisite: **Prerequisites or concurrent enrollment: AT 101 or 107, AT 133, 206, 199 and MANF 121.**

AT 225 Engine Machining I (8)
INDUSTRIAL TECHNOLOGY & 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.
Prerequisite: **Prerequisites or concurrent enrollment: AT 101 or 107, AT 199, 206, MANF 121 and AT 205 with a B- grade or better.**

AT 206 Automotive Air Conditioning (4)
INDUSTRIAL TECHNOLOGY & TRANSPORTATION
Operation, diagnosis, service and repair of automotive air conditioning systems, including climate control and related electrical circuits. Includes factory repair, retrofitting, and safe handling of refrigerants and related chemicals. MACS Section 609 Certification included.
Prerequisite: **Prerequisite or concurrent enrollment: AT 101 or 107, AT 133, AT 220 or 225 and MANF 121.**

AT 226 Cylinder Head Rebuilding (6)
INDUSTRIAL TECHNOLOGY & 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 101 Industrial Safety & Fundamentals (3)
INDUSTRIAL TECHNOLOGY & 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**

BA 999 Another gened test course (5)
BUSINESS
Gened test course 8/21/08 abstract
Prerequisite: **None**

BASAM 301 Foundations of Applied Management (5)
AREAS OF STUDY
Introduction and orientation to the student-led cohort learning model of the BASAM program. Topics include: Business and contemporary landscapes, professional agency, and equitable business practices.
Prerequisites: **ENGL& 101 and CMST& 210 or 220.**

BASAM 322 Project Management (5)
AREAS OF STUDY
Provides a framework for understanding and applying the ideas, methods, principles, practices, and knowledge of structured project management. 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 will be placed on project management application in small and medium size enterprises.
Prerequisite: **Admission to BASAM program and BASAM Director permission.**

BASAM 324 Marketing for Managers (5)
AREAS OF STUDY
Develop the marketing knowledge and skills necessary for the successful management of a profit or not-for-profit organization, including business start-ups. Topics include marketing concepts, the development

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and execution of a marketing strategy, sales and customer management strategy, digital and social media strategy, and measurement of marketing effectiveness.
Prerequisite: **Admission to BASAM program and BASAM Director permission.**

BASAM 330 Operations Management (5)
AREAS OF STUDY
Explore and apply the concepts, principles, problems, and practices of operations management. Emphasizes managerial processes for effective operations in both goods-producing and service-rendering organizations. Topics include operations strategy, process design, capacity planning, facilities location and design, forecasting, production scheduling, continual improvement and operational effectiveness, sustainable sourcing, waste management, inventory control, quality assurance, and project management.
Prerequisite: **Admission to BASAM program and BASAM Director permission.**

BASAM 332 Human Resources Management (5)
AREAS OF STUDY
Explore human resource management to achieve high levels of organizational performance. Evaluate the strategic importance, ethical issues, and organizational impact related to the following areas of human resources: talent acquisition and talent management; organizational development; the legal environment of business; global HR; training and development; diversity; and total rewards (compensation and benefits).
Prerequisite: **Admission to BASAM program and BASAM Director permission.**

BASAM 334 Accounting for Managers (5)
AREAS OF STUDY
Master the basic principles of financial and managerial accounting to facilitate successful execution of management responsibilities. Define financial statement interrelationships, financial analysis, product costing, budgetary control systems, and information reporting for the planning, coordinating, and the use of accounting information to monitor the performance of a business and the achievement of organizational goals.
Prerequisite: **Admission to BASAM program and BASAM Director permission.**

BASAM 422 Principles of Finance (5)
AREAS OF STUDY
Introduction to the application of financial management principles. Includes the analysis of financial statements for planning and control, cash and capital budgeting, risk and return, capital structure, and financing the short- and long-term requirements of the firm. Apply basic tools and techniques used to value a firm and evaluate and fund prospective investment opportunities.
Prerequisite: **Admission to BASAM program and BASAM Director permission.**

BASAM 495 Capstone: Strategic Management (5)
AREAS OF STUDY
Focuses on the key aspects that must be addressed for sustained organizational and enterprise success, strategic planning, effective problem solving, and the capture of opportunities from the perspective of a business leader or the entrepreneur.
Prerequisite: **Admission to BASAM program and BASAM Director permission.**

BASAM 499 BASAM Internship (5)
AREAS OF STUDY
Provides students with supervised and evaluated practical training work experiences which may be paid or voluntary, and provides documented learning acquired through hands-on experiences in an actual work setting. Learning outcomes will be designed and agreed to by the student, the organization providing the internship, the instructor, and the BASAM director. The internship placement is expected to be an outcome of the Career Management and Social Capital and Business and Professional Communications classes taken in the prior quarter. Students will demonstrate skills and knowledge in the focus area of their internship; effective management; time commitments and responsibilities of managers; the host organizations structure, policies, and practices; and interpersonal skills, including professional presence and leadership qualities.
Prerequisite: **Admission to BASAM program and BASAM Director permission.**

BIOL 105 Introduction to Plant Science (5)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
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: **Appropriate placement or grade of 2.0 or higher in ENGL 099.**

BIOL 111 Matter and Energy in Life Science (5)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
An inquiry-based survey of chemistry and biology designed to promote a basic understanding of the influence of molecular structure and properties on living systems. Lab included. This course is part of a 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: **Appropriate placement or grade of 2.0 or higher in ENGL 099.**

BIOL 127 Ecosystems of the Pacific Northwest (5)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
Acquire an understanding of the development and dynamics of different ecosystems of the Pacific Northwest, through investigation of the abiotic and biotic factors that have led to emergence, persistence, and diversity of these ecosystems and the organisms that comprise them. An emphasis is placed on developing abilities to detect and recognize animals and plants that make up and use different ecosystems, and toward understanding the roles and positions fulfilled by these organisms. Possible field trips.
Prerequisite: **Appropriate placement or grade of 2.0 or higher in ENGL 099. BIOL& 100 or ENVS& 101 recommended but not required.**

BIOL 133 Field Botany (5)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
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: **Appropriate placement or grade of 2.0 or higher in ENGL 099 and MATH 98.**

BIOL 180 Native Plants Pacific Northwest (3)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
The identification, life histories, ethnobotany, ecological relationships, and distributions of endemic ferns, conifers, and flowering plants.
Prerequisite: **None**

BIOL 190 Life in the Sea (3)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
Introduction to the organisms in the sea with special emphasis on intertidal life of our area. Non-major, general interest. Field trip required.
Prerequisite: **None**

BIOL 205 Marine Biology (5)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
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: **Appropriate placement or grade of 2.0 or higher in ENGL 099 and MATH 98.**

BIOL 220 General Physiology (5)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
Normal functions of animal systems. Emphasis on vertebrate systems and lab investigation. Lab included.
Prerequisite: **BIOL& 100, or BIOL& 160 or 211; BIOL& 221, 222, 223 recommended. Lab included.**

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BIOL 224 Ecology (5)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
Fundamental ecological principles through basic theory and applications.
Prerequisite: **At least two biological/environmental classes. Appropriate placement or grade of 2.0 or higher in ENGL 099 and MATH 98.**

BIOL 295 Biology Integrative Experience Seminar (2)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
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.**

BIOL 299 Learning into Action (1-15)
SCIENCE, TECHNOLOGY, ENGINEERING, & 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**

BIOL 199 Cooperative Education (1-15)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
Supervised work experience in the field. Includes a weekly seminar. Instructor permission required.
Prerequisite: **None**

BIOL 150 Microbiology and Chemistry Laboratory Techniques for Brewing (1)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
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& 100 Survey of Biology (5)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
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: **Recommended that students complete Math 98 and English 99 both with a C or better prior to taking this course.**

BIOL& 160 General Biology w/Lab (5)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
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: **Appropriate placement or grade of 2.0 or higher in ENGL 099 and CHEM& 121.**

BIOL& 170 Human Biology (5)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
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: **Recommended that students complete Math 98 and English 99 both with a C or better prior to taking this course.**

BIOL& 221 Majors Ecology/Evolution (5)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
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: **Completed ENGL& 101 with a grade of 2.0 or higher and CHEM& 161 with a 2.0 or higher (may be taken concurrently) or equivalent, or instructor permission.**

BIOL& 222 Majors Cell/Molecular Biology (5)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
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: **Completed ENGL& 101 and MATH 099 with a grade of 2.0 or higher. CHEM& 161 with a 2.0 or higher or concurrent enrollment in CHEM& 161, or instructor permission.**

BIOL& 223 Majors Organismal Physiology (5)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
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: **Completed ENGL& 101 and MATH 099 with a grade of 2.0 or higher. CHEM& 161 with a 2.0 or higher or concurrent enrollment in CHEM& 161, or instructor permission.**

BIOL& 241 Human Anatomy and Physiology I (5)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
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: **Completed ENGL& 101 with a grade of 2.0 or higher. BIOL& 211 or BIOL& 160, or BIOL& 222 passed with a 2.0 or higher.**

BIOL& 242 Human A & P II (5)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
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: **Completed ENGL& 101 with a grade of 2.0 or higher. BIOL& 241 passed with a 2.0 or higher.**

BIOL& 260 Microbiology (5)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
Practical and elementary theoretical aspects of medical microbiology for students in allied health professions. Lab included.
Prerequisite: **Prerequisite:Completed ENGL& 101 with a grade of 2.0 or higher. BIOL& 160 or 211, passed with a 2.0 or higher or BIOL& 221, 222, and 223 passed with a 2.0 or higher.**

BLDG 101 Introduction to Building Construction (11)
BUSINESS
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)
AREAS OF STUDY
Introduction to sensory perception (taste & 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 & health, overview of the brewing process, ingredients used and beer styles. Includes industry tours and presentations from industry professionals.
Prerequisite: **None**

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BRW 103 Beverage Biochemistry (4)
AREAS OF STUDY
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)
AREAS OF STUDY
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)
AREAS OF STUDY
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 & 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)
AREAS OF STUDY
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 & product control, safety (production lines under pressure), cleaning & sanitation issues, disposal of liquid & solid brewery waste by-products, and storage & 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: **None**

BRW 120 Essentials of Quality Assurance/Quality Control (3)
AREAS OF STUDY
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: **None**

BRW 125 Flavor Production and Control (2)
AREAS OF STUDY
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: **None**

BRW 128 Industry Experience (1)
AREAS OF STUDY
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: **Instructor permission required.**

BRW 130 Business of Craft Brew (4)
AREAS OF STUDY
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 & 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 & Cannabis Board (WSLCB), the Alcohol and Tobacco Tax and Trade Bureau (TTB), and the Washington State Department of Revenue (DOR).
Prerequisite: **None**

BRW 135 Tradition and Innovation in Beer Styles (2)
AREAS OF STUDY
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: **None**

BRW 199 Brewery Internship (5)
AREAS OF STUDY
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.**

BRW 160 Brewery Lab I (1)
AREAS OF STUDY
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)
AREAS OF STUDY
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 2.0 grade or better.**

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BRW 198 Brewery Capstone Project (1)
AREAS OF STUDY
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.**

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 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 & 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 180 Leadership Development & 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 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 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 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, 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 or instructor's permission.**

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: **Completed ENGL& 101 with a grade of 2.0 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 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

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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 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 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 requried.**

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**

BUS 410 Managerial Professionalism & Readiness (5)
BUSINESS
Participation in the contemporary workplace focusing on the managerial and interaction skills necessary for success. Apply the materials learned in SOC 420 to professional and business contexts with the objective of securing an internship. Focuses on the interaction requirements driven by technological advancement and increasing workforce diversity.
Prerequisite: **Admission to BASAM program and BASAM Director permission.**

BUS 430 Data Driven Decision Making (5)
BUSINESS
Presents critical problem-solving methodologies including multi-disciplinary observational and field research, and how data collection methods enhance organizational performance and the ability to use data to make informed decisions. Topics include qualitative and quantitative analysis, and statistical and quality tools. Focuses on the integration of business function knowledge acquired in prior BASAM courses and advances capabilities in PowerPoint, Excel, and data visualization products such as Tableau.
Prerequisite: **Admission to BASAM program and BASAM Director permission.**

BUS 450 Legal Environments in Business (5)
BUSINESS
Analyze the origins and development of law and its role in society. Survey legal rights and remedies, courts and court procedures, torts, contracts, and criminal law as it relates to the business and managerial world. Critical thinking skills are developed by the required analysis, writing summaries of court rulings and opinions and through an in-depth research paper on current legal issues in business.
Prerequisite: **Admission to BASAM program and BASAM Director permission.**

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.**

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.**

BUS& 101 Intro 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& 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: **Completed ENGL& 101 with a grade of 2.0 or higher.**

C2C 201 Compass to Campus: Youth Mentoring I: D (3)
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.

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: **Prerequisite; none**

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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: **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 e-mail, 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 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 210-225 or instructor permission**

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 CASAS Math of 226-245**

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 math score 246 or above**

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 052 CCB On Ramp (1-15)
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 score of 211-225 or instructor permission**

CCB 054 College English Prep (1-10)
BASIC EDUCATION FOR ADULTS
Identify and implement habits, attitudes, and thought processes that lead to academic and professional success. Improve academic skills and confidence through mastering critical thinking, writing, and reading skills.
Prerequisite: **CASAS Reading Score 226-246 OR completion of ELA/ABE/CCB 052 (On Ramp) or HSC 030 with B or better**

CCB 056 I-BEST 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**

CCB 060 College and Career Bridge GED Prep (1-16)
BASIC EDUCATION FOR ADULTS
Students work toward knowledge and competencies required to pass GED exams in one or more subject areas.
Prerequisite: **Completion of /co-enrollment in HSC 018 or Permission**

CCB 070 Adult Secondary Education/Spanish GED (1-10)
BASIC EDUCATION FOR ADULTS
Basic GED preparation in Spanish. Non-transfer credit course that prepares adult and family literacy students with a goal of earning the General Education Development (GED) equivalency certificate to pass any two of the four subject-area tests.
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 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**

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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 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**

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.**

CHEM 295 Chemistry Integrative Experience Seminar (2)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
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)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
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)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
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 and admission to BASEC program or Department Chair permission.**

CHEM 199 Cooperative Education (1-15)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
Supervised work experience in the field. Includes a weekly seminar. Instructor permission required.
Prerequisite: **None**

CHEM& 100 Preparatory Chemistry (5)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
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: **MATH 97 with a C or better (may be taken concurrently). Recommended that students complete ENGL 99 with a C or better prior to taking this course.**

CHEM& 105 Chemical Concepts (5)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
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: **Appropriate placement or grade of 2.0 or higher in ENGL 099 and MATH 98.**

CHEM& 110 Chemical Concepts with Lab (5)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
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: **Appropriate placement or grade of 2.0 or higher in ENGL 099 and MATH 98.**

CHEM& 121 Intro to Chemistry (5)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
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: **Appropriate placement or GPA of 2.0 or higher in ENGL 099 and MATH 98. (Math 98 may be taken concurrently.)**

CHEM& 131 Intro to Organic/Biochemistry (5)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
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: **Appropriate placement or grade of 2.0 or higher in ENGL 099 and MATH 98. CHEM& 121 or 161 passed with a 2.0 or better.**

CHEM& 161 General Chem w/Lab I (5)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
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: **Appropriate placement or grade of 2.0 or higher in ENGL 099. MATH& 141 with a 2.0 or better (may be taken concurrently). CHEM& 105 or 121 or high school chemistry within the past 5 years is strongly recommended.**

CHEM& 162 General Chem w/Lab II (5)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
A continuation of CHEM& 161. Properties of solutions, thermodynamics, gases, liquids and solids, entropy and energy, chemical equilibrium.
Prerequisite: **Appropriate placement or grade of 2.0+ in ENGL99. MATH& 141 with a 2.0 or higher. CHEM& 161 with a 2.0 or higher.**

CHEM& 163 General Chem w/Lab III (5)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
A continuation of CHEM& 162. Acids and bases, acid-base and solubility equilibria, , electrochemistry, kinetics.
Prerequisite: **Completed ENGL& 101 with a grade of 2.0 or higher. CHEM& 162 with a 2.0 or higher.**

CHEM& 241 Organic Chem I (4)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
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 2.0 or higher or concurrent enrollment in CHEM& 163.**

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CHEM& 242 Organic Chem II (4)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
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: **CHEM& 163 with a 2.0 or higher. CHEM& 241 with a 2.0 or higher.**

CHEM& 243 Organic Chem III (3)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
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 2.0 or higher.**

CHEM& 251 Organic Chem Lab I (2)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
Techniques of organic chemistry, including reactions, separations, syntheses, and spectroscopy.
Prerequisite: **CHEM& 242 with a 2.0 or higher or concurrent enrollment in CHEM& 242.**

CHEM& 252 Organic Chem Lab II (2)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
A continuation of CHEM& 251
Prerequisite: **CHEM& 242 with a 2.0 or higher. CHEM& 251 with a 2.0 or higher.**

CHEM& 122 Introduction to Organic Chemistry (5)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
Structure and properties of organic compounds: hydrocarbons, alcohols, ethers, aldehydes, ketones, carboxylic acids, esters, amines, amides, and carbohydrates.
Prerequisite: **CHEM& 121 with a C grade (2.0) or better.**

CHEM& 123 Introduction to Biochemistry (5)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
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 C grade (2.0) or better.**

CHIN& 121 Chinese I (5)
ARTS & COMMUNICATION
Pronunciation fundamentals of grammar and syntax, oral exercises, reading and conversation.
Prerequisite: **Grade of 2.0 or higher in ENGL 097, or AESL 098, or appropriate test score.**

CHIN& 122 Chinese II (5)
ARTS & COMMUNICATION
Pronunciation fundamentals of grammar and syntax, oral exercises, reading and conversation.
Prerequisite: **CHIN& 121 with a grade of C or better or instructor's permission**

CHIN& 123 Chinese III (5)
ARTS & COMMUNICATION
Reading, writing and speaking Chinese at a third quarter level.
Prerequisite: **CHIN& 122 with a grade of C or better or instructor's permission**

CIS 104 Windows Operating System In Depth (5)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
Advanced desktop operating system concepts including installation, customization, configuration, device drivers, trouble-shooting, memory management, and network client configuration. Follows content from Microsoft Certification current operating system exam.
Prerequisite: **Comfort and familiarity with the Internet, Microsoft Windows, basic word processing, electronic communications and keyboarding skills, are strongly recommended.**

CIS 105 Introduction to Linux (5)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
Introduction to the Linux operating system. Focuses on the command line interface, file and directory management, Linux tools, shell scripts and security.
Prerequisite: **Comfort and familiarity with the Internet, Microsoft Windows, basic word processing, electronic communications and keyboarding skills, are strongly recommended.**

CIS 114 Mathematics for Computer Specialists (5)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
Includes areas of mathematics related to computer technology which may include Boolean algebra, functions, non-decimal number systems, binary arithmetic, exponents, graphing, and algebra.
Prerequisite: **MATH 97**

CIS 118 Computer Hardware: Troubleshooting & Repair (5)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
Introduction to personal computer systems hardware and architectures which follow CompTIA's A+ certification track. This is an industry recognized certification series covering basic computer troubleshooting techniques, repair, upgrading, and terminology. Includes safety, PC architecture, memory, peripherals, upgrade and installation of operating systems, upgrade and installation of hardware components, configuration, and troubleshooting techniques.
Prerequisite: **solid understanding of the basic concepts of file, directory and disk management, as well as proficiency in command line operation, as presented in CIS 104, are strongly recommended.**

CIS 145 Using Microsoft Windows (2)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
Introduction to the use of Microsoft Windows operating system for home and office. Designed for those with very limited computer experience.
Prerequisite: **None**

CIS 146 Introduction to Microsoft Excel (3)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
Introduction to the use of Microsoft Excel spreadsheet software for home and office. Provides an understanding of spreadsheet software and a spreadsheet as a productive and useful tool.
Prerequisite: **computer literacy and file management skills are strongly recommended.**

CIS 147 Introduction to Microsoft Access (3)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
Introduction to the use of microcomputer database software for home and office. Provides an understanding of database software in general and Microsoft Access in particular, as a productive and useful tool.
Prerequisite: **computer literacy and file management skills are strongly recommended.**

CIS 148 The Internet (2)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
Overview of the Internet with hands-on instruction of electronic mail, World Wide Web, Internet browsers, basic and advanced searches, FTP and downloading, Internet communities and communication, Internet security and E-commerce. Learn about netiquette, safe surfing, and other cyberspace issues. Designed for students with basic computer skills but limited Internet experience.
Prerequisite: **None**

CIS 150 Project Management (5)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
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**

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CIS 180 Introduction to Windows PowerShell (5)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
Windows PowerShell is a task-based command-line shell and scripting language designed especially for system administration. Students will learn cmdlets, syntax and how to create scripts and utilities to performing common administration tasks or management tools.
Prerequisite: **CIS 104 & CIS 105 Non-degree seeking students with proficiency in command line operation in both the Windows & Linux environments, as well as a solid understanding of customization and configuration of a Windows and Linux operating system, contact instructor for permission**

CIS 199 Cooperative Education (1-15)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
Supervised work experience in the field.
Prerequisite: **Instructor permission required.**

CIS 221 Computer Networking I (5)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
Introduction to computer networks. Includes study of LAN and WAN connectivity methods, physical and logical network models, network operating systems, methods for transmitting information, networking standards and standards organizations, and network client configuration.
Prerequisite: **CIS 104 & CIS 105 Non-degree seeking students with proficiency in command line operation in both the Windows & Linux environments, as well as a solid understanding of customization and configuration of a Windows and Linux operating system, contact instructor for permission.**

CIS 222 Computer Networking II (5)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
Continuation of CIS 221. Focuses on network directory services, the server software, deployment and maintenance of computer networks, router configuration, security, access control, and resource management. Includes continued study of current and emerging networking standards with emphasis on network operating system configuration.
Prerequisite: **CIS 221. Non-degree seeking students with a solid understanding the Windows Server operating system as applied in the CompTIA Network+ Certificate, contact instructor for permission**

CIS 223 Computer Networking III (5)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
Continuation of CIS 222 and the capstone networking course. This course provides the student with the opportunity to integrate the broad spectrum of what has been learned in previous networking courses into a final project. The capstone will include discussion about professional and ethical issues related to Information Technology. New and emerging network technologies will also be explored.
Prerequisite: **CIS 222. Non-degree seeking students with a solid understanding of the Windows Server and Linux operating systems, active directory, routing and configuration, contact the instructor for permission.**

CIS 233 Network Security (5)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
Focuses on current topics in networking including network security, disaster recovery issues such as identifying, quantifying, planning for and managing risks, fault tolerance, disaster planning, system backups, and hands-on system recovery. Current events in networking are explored.
Prerequisite: **CIS 221. Non-degree seeking students with a solid understanding the Windows Server operating system as applied in the CompTIA Network+ Certificate, contact instructor for permission**

CIS 240 Introduction to Programming (5)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
Elementary programming concepts are introduced using Visual Basic for Applications. Topics include form objects, variables, sequence, decision and iteration control structures, intrinsic functions, data structures, testing and debugging, event, sub and function procedures.
Prerequisite: **solid understanding of the basic concepts of database design and exposure to SQL, as presented in CIS 241, are strongly recommended.**

CIS 241 Database Design and SQL (5)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
Introduction to database management systems. Topics include database terminology, design objectives and procedures, normalization and relationships, and Structured Query Language.
Prerequisite: **working knowledge of, and experience with, Microsoft Access as presented in CIS 147 are strongly recommended.**

CIS 242 Database Programming-VBA (5)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
Given project specifications, use Visual Basic for applications to create custom interfaces that allow users to view, edit, insert, update and delete data.
Prerequisite: **introductory programming experience in VBA as presented in CIS 240 is essential. Students should be well versed in conditionals, loops, functions, procedures and arrays.**

CIS 243 Office Programming-VBA (5)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
Office Programming-VBA is a capstone course that explores ways to customize and improve procedures across the office suite using various tools. Topics include macros, application customization and development, object linking and embedding and cross-application development.
Prerequisite: **introductory database programming experience using VBA as presented in CIS 242 is essential. Students should be comfortable with customizing Microsoft Access queries, forms and reports to respond to runtime events.**

CJ 104 Professional Development in Criminal Justice (2)
PUBLIC SERVICE & SOCIAL SCIENCE
Explores a variety of career options and opportunities in the criminal justice system. Reviews entrance requirements and hiring standards used by criminal justice agencies, including police, courts, and corrections. Demonstrates preparation for the application, testing and selection process. Includes instruction on industry standards: staff and line organization, responsibilities, demeanor and professional bearing associated with employment in law enforcement, and ethics, conduct, and provision of quality public service.
Prerequisite: **None**

CJ 107 Defensive Tactics (4)
PUBLIC SERVICE & SOCIAL SCIENCE
Overview of the basic defenses and counter measures against offensive attacks and the various methods used with the aggressive or violent and those affected by drugs and alcohol. Discusses use of force models, mechanics of arrest, transport considerations and reporting requirements. Covers higher-level force including strikes, kicks, impact weapons and chemical agents.
Prerequisite: **Department Chair approval.**

CJ 111 Criminal Justice Procedures (3)
PUBLIC SERVICE & SOCIAL SCIENCE
Introduction to the due process and adversary system of justice in State and Federal Systems. Covers the differences between the civil and criminal process, the courtroom work group, punishment, parole and probation, sentencing appeals and options, and juvenile procedures.
Prerequisite: **None**

CJ 113 Criminal Justice Employment Strategies (2)
PUBLIC SERVICE & SOCIAL SCIENCE
Employment requirements of criminal justice organizations in hiring entry-level employees are covered using comprehensive reading, research, discussion and role-play.
Prerequisite: **None**

CJ 114 Policing in America (3)
PUBLIC SERVICE & SOCIAL SCIENCE
Covers the history and three eras of policing; police procedures, practices and trends. Introduction to the history of motor vehicle laws and the applicability to society. Exploration of the various codes of RCW,

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Title 46, and WAC 468-38, and elements comprising each violation as written therein. Covers court preparation and applicability to juveniles.
Prerequisite: **None**

CJ 115 Police/Community Relations (3)
PUBLIC SERVICE & SOCIAL SCIENCE
Examination of community problems, programs and methods of coping with human behavior, conflict, and communication styles. Recognition of diverse ethnicities and environments, cultural issues, delinquency and gangs, and neighborhoods in conflict. Overview of interactive models for use in developing healthy and respected police/community relationships and techniques for problem solving.
Prerequisite: **None**

CJ 125 Public Safety Employer/Employee Relations (2)
PUBLIC SERVICE & SOCIAL SCIENCE
Introduction to dynamics of employer/employee relations in the public safety workplace. Examines professional standards of employee behavior, working conditions, job descriptions, conditions of employment, essential functions, and minimum industry standards. Explores relationships between employees, unions/guilds/benevolent orders, and administrative/supervisory personnel. Discusses collective bargaining agreements, compensation packages, disciplinary processes, and employee advisory services. Open to Criminal Justice majors.
Prerequisite: **None**

CJ 133 Facilities Maintenance Fundamentals (5)
PUBLIC SERVICE & SOCIAL SCIENCE
Introduction to facilities maintenance, including basic grounds maintenance, facilities sanitation, solid waste disposal procedures, and routine and planned/scheduled park maintenance. Examines maintenance and upkeep requirements of specialized amenities, roads, signage, and waterfront facilities. Considers budget process considerations, common procurement practices, and recycling. Focus is on risk management as well as techniques leading to enjoyable showplace park facilities for public use.
Prerequisite: **None**

CJ 145 Emergency Communications Dispatcher (5)
PUBLIC SERVICE & SOCIAL SCIENCE
Introduction to emergency police dispatcher/call taker. Includes radio terminology and verbiage, voice inflection, call-taking skills, and problem-solving in off-site situations.
Prerequisite: **None**

CJ 148 Emergency Response to Terrorism (2)
PUBLIC SERVICE & SOCIAL SCIENCE
Introduction to the basic concepts for first responder awareness at the scene of a potential terrorist incident. Receive a National Fire Academy and Office for Domestic Preparedness certificate for course #AWR-102 upon successful completion.
Prerequisite: **None**

CJ 163 Spanish for Emergency Services (3)
PUBLIC SERVICE & SOCIAL SCIENCE
Basic grammar, pronunciation and vocabulary of the Spanish language to be used when dealing with Spanish-speaking persons encountered in public service occupations such as policing, fire/rescue and emergency medical services. Overview of Spanish-speaking cultures.
Prerequisite: **None**

CJ 170 Criminal Justice Report Writing (3)
PUBLIC SERVICE & SOCIAL SCIENCE
Study, analysis and practice in criminal justice report writing. Emphasis on terminology, spelling, and report content. Examines use of reports in court systems, and offers familiarization with various agency report forms.
Prerequisite: **ENGL 99 or equivalent.**

CJ 199 Cooperative Education Experience (1-15)
PUBLIC SERVICE & SOCIAL SCIENCE
Supervised work experience in the criminal justice field. Includes a weekly seminar. Instructor permission required.
Prerequisite: **Instructor permission required.**

CJ 204 Constitutional Law Issues in Law Enforcement (5)
PUBLIC SERVICE & SOCIAL SCIENCE
Examines the Washington State and U.S. Constitutions as they relate to criminal justice procedures and practices. Overview of the myriad of federal and state court decisions governing law enforcement operations. Explores the applicability of the requirements of the Fourth, Fifth and Sixth Amendments to the U.S. Constitution as they apply to the laws of arrest, probable cause, search and seizure, the search of the person, premises, motor vehicles and emergency searches; interrogations, lineups, and other investigative practices.
Prerequisite: **CJ& 101 and CJ 111.**

CJ 208 Rules of Evidence (3)
PUBLIC SERVICE & SOCIAL SCIENCE
Rules of evidence as they apply to criminal justice, why we have them, how they work, their relevance. Understanding of the hearsay rule, evidence presentation, burden of proof, witness competency/impeachment, judicial notice and privileges.
Prerequisite: **CJ& 101 and CJ 111, or department chair approval.**

CJ 213 Domestic Violence/Sexual Assault/Child Crimes (3)
PUBLIC SERVICE & SOCIAL SCIENCE
Study of the dynamics of domestic violence, sexual assault, and crimes against children. Examine investigative techniques, and victim's rights and assistance. Considers the history of victim attitudes and the influence these crimes have on society, criminal justice and the legal system.
Prerequisite: **None**

CJ 215 Investigation Principles (5)
PUBLIC SERVICE & SOCIAL SCIENCE
Covers the accepted techniques and methods of crime scene preservation, investigation, documentation, and the locating and collection of physical evidence including the packaging and submission of relevant evidence to the forensic laboratory. Also covers the principles behind chain of custody; Locards exchange principle; methods and techniques of crime scene processing; presumptive and conclusive tests, modern forensic capabilities; compilation of physical and circumstantial evidence for court. Explores photography, drug analysis, DNS profiling, blood-splatter interpretation, shoeprints, firearms tool marks and crime scene reconstruction.
Prerequisite: **None**

CJ 218 Highway Safety/Collision Investigation (4)
PUBLIC SERVICE & SOCIAL SCIENCE
Study of theories and basic techniques of collision investigation. Learn terminology, preparation of appropriate documents and formulate speed from skid, scuff and vehicle damage; how to collect, identify, and preserve traffic collision data for courtroom preparation.
Prerequisite: **None**

CJ 220 Physical Security and Crime Prevention (2)
PUBLIC SERVICE & SOCIAL SCIENCE
Introduction to private security and its role in society, evolution, goals and responsibilities. Overview of institutional security. Student may perform tasks in local security settings.
Prerequisite: **None**

9 Course Descriptions

CJ 224 Contemporary Issues in Criminal Justice (3)
PUBLIC SERVICE & SOCIAL SCIENCE
Discuss current trends and issues concerning all aspects of the criminal justice system.
Prerequisite: None

CJ 225 Criminal Justice Internship (1-5)
PUBLIC SERVICE & SOCIAL SCIENCE
Interact with a criminal justice agency. Apply academic knowledge while becoming familiar with tasks and responsibilities which enhance an agency's effectiveness within the community. Documentation/research paper required. Some Departments may require uniform funding. May be repeated for credit.
Prerequisite: In last two quarters of course work or Department Chair permission.

CJ 229 Basic Police Academy (1-36)
PUBLIC SERVICE & SOCIAL SCIENCE
Credit applied to individuals so requesting who have completed the Basic Police Office Standards Training (training programs as prescribed by a State certified law enforcement training facility. Appropriate documentation required. Credits may be applied to individual agency collegiate requirements. Not applicable to ATA or AAUCT programs.
Prerequisite: graduate from accredited Law Enforcement Basic Academy

CJ 235 Community Crisis Issues (3)
PUBLIC SERVICE & SOCIAL SCIENCE
Covers the applicable methods, preparation and considerations of crisis intervention for the patrol officer. Explores rural, suburban and urban patrol options, field assessment, knowledge of local resources and the importance of following policy and procedures in the patrol officers role. Examines typical responses and the general options of problem-solving situations that face the police.
Prerequisite: Department chair approval.

CJ 236 Police Reserve Academy I (7)
PUBLIC SERVICE & SOCIAL SCIENCE
Preparatory training for adequate performance with a law enforcement agency as a reserve police officer. Credit applied to individuals who have completed the prescribed training program as specified by the Washington State legislature. Appropriate documentation required. Not applicable to ATA or AAUCT programs.
Prerequisite: Pass background investigation; sponsorship by law enforcement agency.

CJ 237 Police Reserve Academy II (7)
PUBLIC SERVICE & SOCIAL SCIENCE
Continuation of CJ 236. Preparatory training for adequate performance with a law enforcement agency as a reserve police officer. Credit applied to individuals who have completed the prescribed training program as specified by the Washington State legislature. Appropriate documentation required. Not applicable to ATA or AAUCT programs.
Prerequisite: CJ 236.

CJ 241 Park Ranger Law Enforcement Academy (PRLEA) Module 1 (6)
PUBLIC SERVICE & 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.

CJ 242 Park Ranger Law Enforcement Academy (PRLEA) Module 2 (6)
PUBLIC SERVICE & 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.

CJ 243 Park Ranger Law Enforcement Academy (PRLEA) Module 3 (6)
PUBLIC SERVICE & 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.

CJ 244 Park Ranger Law Enforcement Academy (PRLEA) Module 4 (6)
PUBLIC SERVICE & 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.

CJ 245 Park Ranger Law Enforcement Academy (PRLEA) Module 5 (6)
PUBLIC SERVICE & 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.

CJ 265 Parks Management (5)
PUBLIC SERVICE & SOCIAL SCIENCE
Examines the myriad activities and issues that the contemporary park and recreation resource manager must face. Focuses on risk management principles, budgeting considerations, scheduling considerations, resources identification, and maintenance management. Covers the duality of purpose - the balance between protection and conservation of resources, and the demand for public use.
Prerequisite: None

CJ 219 Principles of Emergency Planning and Management (4)
PUBLIC SERVICE & SOCIAL SCIENCE
Covers the basic techniques of preparing/training/planning for, and responding to, natural disasters, riots, transportation (airplane, train and boat) crashes, mass casualty incidents and weather-related events. Topics include: the development of response plans and training protocols; implementation and operation of command centers; understanding the jurisdiction of, and relationship between, military and civilian operations; and identifying the role and authority of federal, state and local agencies.
Prerequisite: Department Chair permission.

CJ& 106 Juvenile Justice (5)
PUBLIC SERVICE & SOCIAL SCIENCE
Juvenile deviance and theories of criminality are studied. Economic, social, and psychological impact of juvenile delinquency trends examined.
Prerequisite: CJ& 101 or dept. chair permission.

9 Course Descriptions

CJ& 101 Intro Criminal Justice (3)
PUBLIC SERVICE & SOCIAL SCIENCE
Examines the history, philosophy, and organization of criminal justice and its European roots in our American society; explores the jurisdictions of local, state and federal agencies and their applications within the United States; presents an overview of the juvenile justice, corrections, and American court systems; discusses the multicultural and ethnic tendencies associated with criminal justice issues affecting the various criminal justice professions.
Prerequisite: **Concurrent enrollment required in CSS 103.**

CJ& 105 Intro to Corrections (3)
PUBLIC SERVICE & SOCIAL SCIENCE
Overview of evolution of corrections and the criminal justice system with discussion of penology. Explores punishment and sentencing in the U.S. and the alternatives with a study of various correctional systems and types of individuals passing through them. Examines prisoner rights and legalities and problems involved in managing a correctional facility, and covers aspects of probation and parole as they apply to the criminal justice system. Discusses societal issues and the challenges of diversity within the correctional system.
Prerequisite: **None**

CJ& 110 Criminal Law (3)
PUBLIC SERVICE & SOCIAL SCIENCE
Introduction to the history of criminal law which provides a philosophical understanding of the process of crime and punishment, understanding the various mental states required for criminal responsibility, statutory and common law defenses, terminology, legislation and adjudication, and common law defenses to criminal charges such as entrapment, self-defense and necessity. Includes elements of crimes as set forth in the Washington criminal codes (RCW, WAC and selected Federal Codes).
Prerequisite: **CJ& 101 or department chair approval.**

CJ& 112 Criminology (5)
PUBLIC SERVICE & SOCIAL SCIENCE
Examines crime, criminal behavior patterns and the law. Explores crime, its context, and especially its causes. Designed to give students a theoretical, as well as practical, knowledge of criminology. Familiarizes students with the sociology of law, causes of crime and the control of crime. Covers basics in criminology theories, patterns and behaviors. Learn socioeconomic and sociocultural influences that have affected crime over the years.
Prerequisite: **CJ& 101.**

CMPST 121 Composites Construction and Repair (3)
INDUSTRIAL TECHNOLOGY & 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 & 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 or instructor approval.**

CMPST 127 Advanced Composites Construction and Repair (5)
INDUSTRIAL TECHNOLOGY & TRANSPORTATION
Introduction to advanced composite manufacturing with emphasis on thermoset prepreg technology. Hands-on training in manufacturing with polyesters, vinylester and prepreg's using common types of advanced fiber reinforcements. Includes preparation for the American Composites Manufacturer's Association (ACMA) Vacuum Infusion Process (VIP) certification exam.
Prerequisite: **None**

CMPST 128 Composites Windblade Construction and Repair (5)
INDUSTRIAL TECHNOLOGY & 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: **None**

CMPST 129 Introduction to Nondestructive Testing (3)
INDUSTRIAL TECHNOLOGY & TRANSPORTATION
Introduction to nondestructive testing (NDT), nondestructive inspection (NDI), and inspection in 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 & 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 recycling, 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 & 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 & Performance Anxiety Management (1-2)
ARTS & COMMUNICATION
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 105 Multicultural Communication: D (5)
ARTS & COMMUNICATION
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: **Appropriate placement or grade of 2.0 or higher in ENGL 099.**

9 Course Descriptions

CMST 122 Voice Improvement (1-3)
ARTS & COMMUNICATION
Stresses voice theory and exercises for improvement in articulation and vocal quality with specialized tracks in broadcast, stage, or (foreign) accent work. Repeatable up to six credits. Classroom or private instruction.
Prerequisite: **None**

CMST 125 Professional Communication: D (3)
ARTS & COMMUNICATION
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)
ARTS & COMMUNICATION
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: **Appropriate placement or grade of 2.0 or higher in ENGL 099.**

CMST 201 Communication Theory (5)
ARTS & COMMUNICATION
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: **Completed ENGL& 101 with a grade of 2.0 or higher.**

CMST 205 Intercultural Communication: D (5)
ARTS & COMMUNICATION
A comparative study of cultural perspectives, communication styles, relationships, and customs. May include analysis of and participation in cross-cultural interactions.
Prerequisite: **Appropriate placement or grade of 2.0 or higher in ENGL 099.**

CMST 211 Interpersonal Communication II (1-3)
ARTS & COMMUNICATION
A review of research and theory in the study of interpersonal communication.
Prerequisite: **CMST 210**

CMST 295 Communications Studies Integrative Experience Seminar (2)
ARTS & COMMUNICATION
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: **Completed ENGL& 101 with a grade of 2.0 or higher.**

CMST 299 Learning Into Action (1-15)
ARTS & COMMUNICATION
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)
ARTS & COMMUNICATION
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.**

CMST 413 Leadership Development in Natural Resources (2)
ARTS & COMMUNICATION
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.**

CMST& 102 Intro to Mass Media (5)
ARTS & COMMUNICATION
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: **Appropriate placement or grade of 2.0 or higher in ENGL 099.**

CMST& 210 Interpersonal Communication: D (5)
ARTS & COMMUNICATION
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& 220 Public Speaking (5)
ARTS & COMMUNICATION
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: **Completed ENGL& 101 with a grade of 2.0 or higher.**

CMST& 230 Small Group Communication: D (1-5)
ARTS & COMMUNICATION
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: **Appropriate placement or grade of 2.0 or higher in ENGL 099.**

CS 101 Computers, Technology and Society (5)
SCIENCE, TECHNOLOGY, ENGINEERING, & 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: **Grade of 2.0 or higher in ENGL 097, or AESL 098, or appropriate test score.**

CS 142 Java Programming I (5)
SCIENCE, TECHNOLOGY, ENGINEERING, & 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 99 and knowledge of computer basics such as web browsing, email, installing software, etc., or permission of instructor.**

9 Course Descriptions

CS 143 Java Programming II (5)
SCIENCE, TECHNOLOGY, ENGINEERING, & 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: **A grade of C or better in CS 142 or Permission of Instructor**

CS 210 C++ Programming I (5)
SCIENCE, TECHNOLOGY, ENGINEERING, & 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 99 and knowledge of computer basics such as web browsing, email, installing software, etc., or permission of instructor.**

CS 211 C++ Programming II (5)
SCIENCE, TECHNOLOGY, ENGINEERING, & 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: **A grade of C or better in CS 210 or Permission of Instructor**

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**

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 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**

CSS 110 College Orientation and Success (4)
AREAS OF STUDY
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**

CUL 101 Sustainable Food System Practices (3)
FOOD & 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 123 Safety & Sanitation (3)
FOOD & 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: **Concurrent enrollment required in CSS 103.**

CUL 237 Beer, Wine and Spirits (3)
FOOD & BEVERAGE MANAGEMENT
Introduction to history and production of alcoholic beverages. Introduction to sensory analysis of wine and food and wine paring.
Prerequisite: **None**

9 Course Descriptions

CUL 164 Baking Theory (3)
FOOD & BEVERAGE MANAGEMENT
Theory and study of ingredients and techniques used in the professional bakery.
Prerequisite: None

CUL 165 Baking Lab (10)
FOOD & 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 & BEVERAGE MANAGEMENT
Introduction and exploration of the Hospitality and Baking industry to include career exploration and industry trends.
Prerequisite: CUL 165.

CUL 171 Cooking Fundamentals (3)
FOOD & BEVERAGE MANAGEMENT
Basic preparation of center plate items. Application of basic principles of cooking.
Prerequisite: CUL 165.

CUL 172 Stocks, Sauces, and Soups (3)
FOOD & BEVERAGE MANAGEMENT
Introduction and application of basic stocks, classical variety of soups, classical and modern sauces.
Prerequisite: CUL 165.

CUL 173 The Cold Kitchen (3)
FOOD & BEVERAGE MANAGEMENT
Basic knife skills practice, preparation of salads, dressings, dips and spreads.
Prerequisite: CUL 165.

CUL 174 Food Preparation Theory (3)
FOOD & BEVERAGE MANAGEMENT
Theory of basic food preparation techniques including cooking applications, use of tools and equipment, kitchen staples, stocks, sauces, soups and salads. Introduction to culinary history, professionalism, safety, sanitation and food presentation.
Prerequisite: CUL 164.

CUL 184 Restaurant Production Theory (3)
FOOD & BEVERAGE MANAGEMENT
Identification of Culinary product types and their uses in the food service industry, menu developing, recipe yields, costing, and the principles of remarkable service.
Prerequisite: CUL 174.

CUL 185 American Regional Cuisines (10)
FOOD & BEVERAGE MANAGEMENT
Introduction to food production operations. Overview of the roles, responsibilities and professionalism required in various food service areas. Learn techniques including the preparation of breakfast, lunch and plated restaurant items. Emphasis on the production of industry quality cooking, work with advanced saucing techniques, station sanitation and organization. Introduction to customer relations including basic customer service principles and practices.
Prerequisite: CUL 170, 171, 172, 173.

CUL 199 Cooperative Education Experience (1-5)
FOOD & 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 & BEVERAGE MANAGEMENT
Managing human resources and understanding the dynamics of leadership in the hospitality and restaurant industry.
Prerequisite: None

CUL 111 Culinary Math (5)
FOOD & BEVERAGE MANAGEMENT
Emphasis is on applied math for the culinarian. Meets the requirement for WMATH 100 for culinary students.
Prerequisite: MATH 96.

CUL 238 Garde Manger (3)
FOOD & BEVERAGE MANAGEMENT
Theory and practice of advanced cooking principles using some exotic and unusual international products in classical and modern preparations. Focuses on cuisine of the Americas, Asia, the Mediterranean, and fusion cuisine, spa cuisine, avant-garde, charcuterie and cheese making.
Prerequisite: Department chair permission.

CUL 239 Chocolate, Sugar & Fondant Cakes (3)
FOOD & BEVERAGE MANAGEMENT
Theory and practice in the use of chocolate, sugar and fondant.
Prerequisite: Department chair permission.

CUL 240 Bakery Sous Chef Lab (10)
FOOD & 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: Department chair permission.

CUL 241 International Cuisines (10)
FOOD & BEVERAGE MANAGEMENT
Advanced culinary skill development with an emphasis on developing industry speed, professionalism, international cooking principles and presentation techniques.
Prerequisite: Department chair permission.

CUL 242 Advanced Breads and Pastry (10)
FOOD & BEVERAGE MANAGEMENT
Advanced baking and pastry skills with an emphasis on developing industry speed, professionalism, and presentation techniques.
Prerequisite: Department chair permission.

CUL 298 Culinary Capstone Project (1)
FOOD & BEVERAGE MANAGEMENT
Comprehensive performance and knowledge based assessment for completion of the Culinary program. Includes creating a project portfolio.
Prerequisite: Department chair permission.

CUL 236 Controlling Foodservice Costs (3)
FOOD & 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.

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CUL 264 Advanced Breads & Pastry Theory (3)
FOOD & 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.**

CUL 284 Restaurant Management (3)
FOOD & 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.**

CUL 297 Baking and Pastry Capstone Project (1)
FOOD & 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.**

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 105 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 114.**

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**

DRMA 133 Acting: Voice Expression (5)
ARTS & COMMUNICATION
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)
ARTS & COMMUNICATION
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)
ARTS & COMMUNICATION
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: **Grade of 2.0 or higher in DRMA 133 or 134.**

DRMA 136 Acting Shakespeare (5)
ARTS & COMMUNICATION
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)
ARTS & COMMUNICATION
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)
ARTS & COMMUNICATION
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)
ARTS & COMMUNICATION
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)
ARTS & COMMUNICATION
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)
ARTS & COMMUNICATION
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)
ARTS & COMMUNICATION
List with DRMA 151, 152 using abstract from DRMA 151
Prerequisite: **None**

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DRMA 153 Theater Workshop (3)
ARTS & COMMUNICATION
List with DRMA 151, 152, 153 using abstract from DRMA 151
Prerequisite: **None**

DRMA 154 Workshop for Actors (4)
ARTS & COMMUNICATION
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)
ARTS & COMMUNICATION
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 & Practice (3)
ARTS & COMMUNICATION
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)
ARTS & COMMUNICATION
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)
ARTS & COMMUNICATION
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)
ARTS & COMMUNICATION
An introduction to costuming for the stage including history, theory, design, and practical applications.
Prerequisite: **None**

DRMA 168 Introduction to Stage Management (3)
ARTS & COMMUNICATION
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)
ARTS & COMMUNICATION
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)
ARTS & COMMUNICATION
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)
ARTS & COMMUNICATION
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 or previous directing experience and written approval of instructor.**

DRMA 235 Advanced Acting (5)
ARTS & COMMUNICATION
A scene study class for the experienced actor.
Prerequisite: **DRMA 135 or instructor permission.**

DRMA 236 Theater History I: Ancient-Renaissance (5)
ARTS & COMMUNICATION
An introduction and exploration of the relationship between historical events and the theater arts from the ancient period to the Renaissance.
Prerequisite: **Appropriate placement or grade of 2.0 or higher in ENGL 099.**

DRMA 237 Theater History II: Renaissance-1850 (5)
ARTS & COMMUNICATION
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)
ARTS & COMMUNICATION
An introduction and exploration of the relationship between historical events and the theater arts from 1850 to the present.
Prerequisite: **Appropriate placement or grade of 2.0 or higher in ENGL 099.**

DRMA 299 Learning into Action (1-15)
ARTS & COMMUNICATION
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**

DRMA& 101 Intro to Theatre: D (5)
ARTS & COMMUNICATION
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.**

DSL 101 Diesel Electrical Theory (4)
INDUSTRIAL TECHNOLOGY & 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 or concurrent enrollment.**

DSL 102 Diesel Drivetrains I (8)
INDUSTRIAL TECHNOLOGY & 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 & 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

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self-adjusting; basic hydraulic systems. Vehicle inspection and out-of-service criteria.
Prerequisite: **DSL 102 and MATH 96 or concurrent enrollment.**

DSL 104 Diesel Drivetrains III (13)
INDUSTRIAL TECHNOLOGY & 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 or concurrent enrollment.**

DSL 199 Diesel Cooperative Education (1-15)
INDUSTRIAL TECHNOLOGY & TRANSPORTATION
Supervised work experience in the field. Includes a weekly seminar.
Prerequisite: **Instructor permission required.**

DSL 201 Diesel Applied Electrical (4)
INDUSTRIAL TECHNOLOGY & 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.**

DSL 202 Diesel Engines I (8)
INDUSTRIAL TECHNOLOGY & 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 & 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 96 or higher or concurrent enrollment.**

DSL 204 Diesel Engines III (13)
INDUSTRIAL TECHNOLOGY & TRANSPORTATION
Continuation of DSL 203. Introduction to vehicle computer systems. Emphasis on electronically controlled fuel systems on Caterpillar, Cummins, Detroit Diesel, and International-Navistar engines. Covers tune-ups and diagnostics using PC based troubleshooting software. Preventative maintenance summary.
Prerequisite: **DSL 203; WMATH 100 or concurrent enrollment.**

EASC 102 Meteorology (5)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
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: **Appropriate placement or grade of 2.0 or higher in ENGL 099 and MATH 98.**

EASC 110 Energy and Society (5)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
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: **Appropriate placement or grade of 2.0 or higher in ENGL 099.**

EASC 111 Matter and Energy in Earth Science (5)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
An inquiry-based survey of Earth sciences designed to promote a basic understanding of the inter-relationship of matter and energy, and their role in changes occurring in the solid Earth, the oceans, the atmosphere, and extraterrestrial systems. Field trips (mostly during class time) may be required. Lab included. This course is part of a 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: **Appropriate placement or grade of 2.0 or higher in ENGL 099 and MATH 98. PHYS 111 recommended.**

EASC 120 Climate Change & Climate Solutions (5)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
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: **Appropriate placement or grade of 2.0 or higher in ENGL 099.**

EASC 299 Learning into Action (1-15)
SCIENCE, TECHNOLOGY, ENGINEERING, & 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**

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 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,

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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 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 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 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.**

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 and/or department chair approval.**

ECED 203 Essentials of Child Development Associate Credential (CDA): Health & 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 or instructor permission.**

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 204 or instructor permission.**

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 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 or 204 or 205 or instructor permission.**

ECED 211 Diversity in Education: D (3)
EDUCATION
Overview of diversity in education including culture, ethnicity, family structure, socio-economics and educational philosophy.
Prerequisite: **None**

ECED 223 Practicum & 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.**

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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.**

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& 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& 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. Study the role of the caregiver, relationships with families, developmentally appropriate practices, nurturing environments for infants and toddlers, and culturally relevant care.
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& 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& 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 or instructor permission.**

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: **None**

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: **EDUC& 115 or department chair permission.**

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 early learning opportunities embedded in everyday routines and experiences.
Prerequisite: **None**

ECON 101 Introduction to Economics (5)
PUBLIC SERVICE & SOCIAL SCIENCE
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: **Appropriate placement or grade of 2.0 or higher in ENGL 099.**

ECON 299 Learning Into Action (1-15)
PUBLIC SERVICE & SOCIAL SCIENCE
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)
PUBLIC SERVICE & SOCIAL SCIENCE
Provides foundational micro- and macroeconomic understanding related to the management of domestic and international firms. Topics include economic systems, the influence of governments on the economy, market structures and competition, resource allocation, production, pricing, consumer choice, and externalities. Emphasizes the relationship between economics and politics.
Prerequisite: **Admission to BASAM program and BASAM Director permission.**

ECON& 201 Micro Economics (5)
PUBLIC SERVICE & SOCIAL SCIENCE
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

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competitive and monopolistic markets. Required for business majors planning to transfer to 4 year business programs.
Prerequisite: **Completed ENGL& 101 with a grade of 2.0 or higher. MATH placement into MATH 99 or 2.0 or higher in MATH 98 or 2.0 or higher in MANF 127.**

ECON& 202 Macro Economics (5)
PUBLIC SERVICE & SOCIAL SCIENCE
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: **Completed ENGL& 101 with a grade of 2.0 or higher. MATH placement into MATH 99 or 2.0 or higher in MATH 98.**

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**

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, 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 Intro 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.

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: **Concurrent enrollment required in CSS 103.**

ELA 011 ELA Level 1 (Beginning ELA Literacy) (1-20)
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.
Prerequisite: **None**

ELA 012 ELA Level 2 (Beginning ELA) (1-20)
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 or appropriate placement.**

ELA 013 ELA Level 3 (Low Intermediate ELA) (1-20)
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 or appropriate placement**

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ELA 014 ELA Level 4 (High Intermediate ESL) (1-15)
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: **Completion of ELA 013 or appropriate placement.**

ELA 015 ELA Level 5 (Low Advanced ESL) (1-15)
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: **Completion of ELA 014 or appropriate placement.**

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.
Prerequisite: **None**

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.
Prerequisite: **None**

ELA 024 ELA Computer Basics (1-5)
BASIC EDUCATION FOR ADULTS
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 e-mail, 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.
Prerequisite: **None**

ELA 052 ELA On Ramp (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 as well as English writing, reading, listening and speaking skills.
Prerequisite: **ELA 015 or appropriate placement.**

ELA 061 Beginning Academic ESL - Reading & Writing (9)
BASIC EDUCATION FOR ADULTS
ELA students with clearly defined academic goals will begin the intensive study of academic English, expand academic skills, and develop habits of successful learners.
Prerequisite: **CASAS testing and permission of ELA and AESL department chairs.**

ELA 062 Beginning Academic ESL - Speaking & Listening (9)
BASIC EDUCATION FOR ADULTS
ELA students with clearly defined academic goals will begin the intensive study of academic English, expand academic skills, and develop habits of successful learners.
Prerequisite: **CASAS testing and permission of ELA and AESL department chairs.**

ELA 063 Intermediate Academic ESL - Reading & Writing (9)
BASIC EDUCATION FOR ADULTS
ELA students with clearly defined academic goals will continue to refine academic English though the performance of routine tasks as well as the extension and application of their academic skills.
Prerequisite: **CASAS testing and permission of ELA and AESL department chairs.**

ELA 067 Grammar/Composition I (5)
BASIC EDUCATION FOR ADULTS
ELA students with clearly defined academic goals who are preparing for academic and university transfer studies. The course focuses on sentence structure and the composing process at the advanced ESL level, and includes the study of basic research, analysis, and critical thinking techniques.
Prerequisite: **CASAS testing and permission of ELA and AESL department chairs.**

ELA 068 Grammar/Composition II (5)
BASIC EDUCATION FOR ADULTS
A course for ELA students with clearly defined academic goals, with an emphasis on advanced ELA composition skills. Designed to teach students to write, analyze, and revise sentences and to develop coherent essays. The course replaces the ENGL 097 requirement for ELA students.
Prerequisite: **CASAS testing and permission of ELA and AESL department chairs.**

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.
Prerequisite: **None**

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.
Prerequisite: **None**

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.
Prerequisite: **None**

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.
Prerequisite: **None**

ELA 018 ELA College Transition (3)
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: **Co-enrollment in ELA 015 or ELA 052 On Ramp**

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ELA 064 ELA Grammar I (2)
BASIC EDUCATION FOR ADULTS
This course covers topics in English grammar.
Prerequisite: **Completion of ELA 013 or appropriate CASAS score or Instructor permission.**

ELA 065 ELA Grammar II (2)
BASIC EDUCATION FOR ADULTS
This course explores topics in English grammar.
Prerequisite: **Completion of ELA 013 or appropriate CASAS score or Instructor permission.**

ELA 066 Grammar III (2)
BASIC EDUCATION FOR ADULTS
This course explores topics in English grammar.
Prerequisite: **Successful completion of ELA 013 or appropriate CASAS score.**

ENGL 092 Basic Writing Foundation (1-10)
ARTS & COMMUNICATION
Introduction to expressing ideas on paper and understanding basic grammar. (Variable credit, 1-10)
Prerequisite: **None**

ENGL 095 Vocabulary Development (2)
ARTS & COMMUNICATION
Basic vocabulary building techniques.

ENGL 096 Special Topics in English (1-10)
ARTS & COMMUNICATION
Individualized study in foundational aspects of English. Course content to be designed in conference with instructor. (Variable credit, 1-10)
Prerequisite: **None**

ENGL 097 Improving Grammar I (5)
ARTS & COMMUNICATION
Designed to teach students to write, analyze, and revise their own sentences and to begin to develop coherent paragraphs.
Prerequisite: **Appropriate test score.**

ENGL 098 Integrated Reading and Writing (10)
ARTS & COMMUNICATION
Students will develop reading and writing skills needed for success in college level courses through integrated assignments and intensive practice.

ENGL 099 Basic Composition (5)
ARTS & COMMUNICATION
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 103 Advanced Composition (5)
ARTS & COMMUNICATION
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: **Grade of 2.0 or higher in ENGL& 101.**

ENGL 115 Introduction to Film: D (5)
ARTS & COMMUNICATION
A survey of the history of film and the development of cinematic technique. Course includes written and oral analysis of selected works.
Prerequisite: **Completed ENGL& 101 with a grade of 2.0 or higher.**

ENGL 120 Introduction to Children's Literature (5)
ARTS & COMMUNICATION
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**

ENGL 170 Professional and Technical Communication (3)
ARTS & COMMUNICATION
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: **Appropriate test score or grade of C or better in ENGL 99.**

ENGL 202 Introduction to Literature: D (5)
ARTS & COMMUNICATION
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: **Completed ENGL& 101 with a grade of 2.0 or higher.**

ENGL 239 Introduction to U.S. Latino Literature: D (5)
ARTS & COMMUNICATION
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: **Completed ENGL& 101 with a grade of 2.0 or higher.**

ENGL 250 Introduction to American Literature: D (5)
ARTS & COMMUNICATION
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: **Completed ENGL& 101 with a grade of 2.0 or higher.**

ENGL 261 Integrative Seminar (1)
ARTS & COMMUNICATION
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)
ARTS & COMMUNICATION
Course introduces analysis and interpretation of 19th and 20th century British literature in cultural context.
Prerequisite: **Completed ENGL& 101 with a grade of 2.0 or higher.**

ENGL 295 English Integrative Experience Seminar (2)
ARTS & COMMUNICATION
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)
ARTS & COMMUNICATION
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)
ARTS & COMMUNICATION
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

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concepts. Intensive peer review is a strong component. The course includes a significant research component.
Prerequisite: **Admission to BASEC or Department Chair permission.**

ENGL& 101 English Composition I (5)
ARTS & COMMUNICATION
The study of fundamental writing skills and varied writing strategies leading to the planning, organizing, writing, and revising of academic essays.
Prerequisite: **Appropriate placement or grade of 2.0 or higher in ENGL 99.**

ENGL& 102 Composition II (5)
ARTS & COMMUNICATION
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 grade of 2.0 or higher.**

ENGL& 112 Intro to Fiction: D (5)
ARTS & COMMUNICATION
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 grade of 2.0 or higher.**

ENGL& 113 Intro to Poetry: D (5)
ARTS & COMMUNICATION
The study of the formal strategies of poetry. Course includes written and oral analysis of selected works.
Prerequisite: **Completed ENGL& 101 with a grade of 2.0 or higher.**

ENGL& 220 Intro to Shakespeare (5)
ARTS & COMMUNICATION
An introductory survey course that explores the plays of William Shakespeare from literary and historical perspectives.
Prerequisite: **Completed ENGL& 101 with a grade of 2.0 or higher.**

ENGL& 235 Technical Writing (5)
ARTS & COMMUNICATION
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: **Completed ENGL& 101 with a grade of 2.0 or higher.**

ENGL& 236 Creative Writing I (5)
ARTS & COMMUNICATION
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: **Completed ENGL& 101 with a grade of 2.0 or higher.**

ENGL& 254 World Literature I (5)
ARTS & COMMUNICATION
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: **Completed ENGL& 101 with a grade of 2.0 or higher.**

ENGR 100 Engineering Orientation (2)
SCIENCE, TECHNOLOGY, ENGINEERING, & 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 299 Learning into Action (1-15)
SCIENCE, TECHNOLOGY, ENGINEERING, & 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**

ENGR 199 Cooperative Education Experience (1-15)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
Work experience related to career interests in the field. Instructor permission required.
Prerequisite: **None**

ENGR& 114 Engineering Graphics (5)
SCIENCE, TECHNOLOGY, ENGINEERING, & 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 97 with a C grade or better.**

ENGR& 104 Introduction to Engineering and Design (5)
SCIENCE, TECHNOLOGY, ENGINEERING, & 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: **MATH 97 and ENGL 97**

ENGR& 214 Statics (5)
SCIENCE, TECHNOLOGY, ENGINEERING, & 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 and PHYS& 241 (may be concurrent).**

ENGR& 215 Dynamics (5)
SCIENCE, TECHNOLOGY, ENGINEERING, & 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**

ENGR& 224 Thermodynamics (5)
SCIENCE, TECHNOLOGY, ENGINEERING, & 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 and PHYS& 242 (may be taken concurrently).**

ENGR& 225 Mechanics of Materials (5)
SCIENCE, TECHNOLOGY, ENGINEERING, & 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**

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ENVAG 101 Agroecology: An Ecological Approach to Agriculture (5)
FOOD & BEVERAGE MANAGEMENT
Survey of agroecology, a multi-disciplinary field that applies ecological principles to the analysis and management of agriculture systems. Explore ways to create abundance and reduce external inputs by enhancing nutrient cycling, energy flow, and beneficial interactions. Field trips are an integral part of this course.
Prerequisite: **None**

ENVAG 103 Horticulture Plant Science (4)
FOOD & BEVERAGE MANAGEMENT
The structure, function, classification, and ecology of vascular plants are explored in this introductory botany course, with an emphasis on cultivated and native plants of the Pacific Northwest.
Prerequisite: **None**

ENVAG 104 Careers Seminar in Sustainable Agriculture (1)
FOOD & BEVERAGE MANAGEMENT
A series of presentations and panel discussions with professionals explores sustainable agriculture career options, work profiles, and the knowledge and skills required to be successful. Students identify career interests and resources and develop education and career goals.
Prerequisite: **None**

ENVAG 106 Soil Science and Conservation (5)
FOOD & BEVERAGE MANAGEMENT
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**

ENVAG 122 Plant Propagation (5)
FOOD & BEVERAGE MANAGEMENT
Propagation of plants from vegetative and reproductive tissues and organs. Plant propagation techniques are used to multiply selected plants and preserve their essential genetic characteristics and is essential to the success of production agriculture, ornamental horticulture, and native species. Covers the concepts of sexual and asexual plant propagation, seed collecting, and the principles and techniques of propagation by seed and cuttings along with techniques for laboratory, greenhouse, and orchard propagation. Includes handling, preparation, treatment and rooting of cuttings; grafting tools and preparation of grafts; and a field trip to examine how micropropagation in tissue culture is accomplished.
Prerequisite: **None**

ENVAG 297 Research in Sustainable Agriculture (1-15)
FOOD & BEVERAGE MANAGEMENT
Independent study and research on a topic related to sustainable agriculture, with guidance provided by a research mentor. Introduction to the scientific method, critical thinking, and technical communication for self motivated learners.
Prerequisite: **None**

ENVAG 298 Practicum in Sustainable Agriculture (1-15)
FOOD & BEVERAGE MANAGEMENT
Hands on practical experience managing a small farm enterprise for aspiring practitioners. Apply weekly on farm education and training to seasonally appropriate operational and production tasks at the SAgE Skagit Valley Student Farm.
Prerequisite: **None**

ENVAG 199 Internship in Sustainable Agriculture (1-15)
FOOD & BEVERAGE MANAGEMENT
Practical work experience at sustainable agriculture enterprises, including small farm and food system businesses, organizations, and agencies, that applies and builds upon the knowledge and skills derived from program coursework. Students establish learning objectives and outcomes with the internship providers. Includes a weekly seminar.
Prerequisite: **Instructor permission required.**

ENVAG 221 Greenhouse-Nursery Operations (5)
FOOD & BEVERAGE MANAGEMENT
Introduction to greenhouse management and production. Hands-on approach to exploring greenhouse/nursery operations and basic plant production requirements. Includes a study of greenhouse structures and the management of the greenhouse environment including greenhouse light and lighting, air movement/ventilation and temperature control along with irrigation, fertilizers, pest and disease management and other production issues to create an optimum growing environment for the production of ornamental and vegetable plants. Environmental factors affecting plant growth, manipulating the greenhouse environment, soil and water testing, and nursery operations including production planning and determining cost and profit are emphasized. Laboratory and field trips to commercial operations will be included.
Prerequisite: **None**

ENVAG 224 Orchard Crop Production (5)
FOOD & BEVERAGE MANAGEMENT
Tree fruit and nut, berry, vine, and uncommon fruit production for orchards, focusing on cultivar selection, cultural requirements, propagation methods, management techniques, harvesting practices, and biodiverse orchard design. Field trips are an integral part of this course.
Prerequisite: **None**

ENVAG 227 Greenhouse Crop Production (3)
FOOD & BEVERAGE MANAGEMENT
Greenhouse management for small farm to commercial scale production, including structure selection, laws and regulations, control over the growing environment, and crop production and health. Students produce a greenhouse management plan. Field trips are an integral part of this course.
Prerequisite: **None**

ENVAG 228 Row Crop Production (5)
FOOD & BEVERAGE MANAGEMENT
Fundamentals of row crop production in the Pacific Northwest. Covers site and equipment evaluation, crop scheduling and rotation, fertility and irrigation management, and insect and disease control, as well as crop specific and market considerations for seasonal production. Field trips are an integral part of this course.
Prerequisite: **None**

ENVAG 231 Post-Harvest to Local Market Operations (3)
FOOD & BEVERAGE MANAGEMENT
Study local food system development, food physiology, and food security, safety, and quality issues through exposure to real world post-harvest and direct market operations, with an emphasis on small farm agriculture enterprises. Field trips are an integral part of this course.
Prerequisite: **None**

ENVAG 241 Livestock Management (1-3)
FOOD & BEVERAGE MANAGEMENT
The study of how livestock management can be incorporated into a farm plan. Management of various livestock species, demographic management, forage management, as well as manure management. Includes management of diseases and parasites.
Prerequisite: **None**

ENVAG 242 Dairy Management (1-3)
FOOD & BEVERAGE MANAGEMENT
Focuses on dairy production from several ungulate species and the equipment and hygiene requirements needed. Includes man-hour

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needs and other cost estimates, and evaluations of value added products like cheeses.
Prerequisite: None

ENVAG 243 Marketing Agriculture Products (1-3)
FOOD & BEVERAGE MANAGEMENT
Focuses on sustainable agriculture niche products. Emphasis is on value added costs and potential revenues, processing, grading, packaging, packing, storing and transport requirements of various farm products. Includes food safety regulations, practices and limitations.
Prerequisite: None

ENVAG 270 Sustainable Small Farming and Ranching (5)
FOOD & BEVERAGE MANAGEMENT
Explore small farm models and entrepreneurship, and conceive of and draft a whole farm management plan. Learn to assess site conditions and user needs and manage small farm facilities and equipment, natural resources, plants and animals, and cropping systems and practices. Field trips are an integral part of this course.
Prerequisite: None

ENVAG 271 Agricultural Entrepreneurship & Business Planning (5)
FOOD & BEVERAGE MANAGEMENT
Explore small farm models and entrepreneurship, and conceive of and draft a whole farm business plan. Gain practical knowledge and skills in agricultural business development, market research, and record keeping and finances in the context of farm and ranch production strategies. Field trips are an integral part of this course.
Prerequisite: None

ENVC 101 Introduction to Watershed Management (5)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
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 97 or concurrent enrollment or instructor approval. (Lab and field trips required).

ENVC 102 Invertebrate Biology and Identification (4)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
Natural history, biology, and taxonomy of common invertebrates including their natural history and biogeographic distribution.
Prerequisite: None

ENVC 104 Introduction to Natural Resources (1)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
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: Concurrent enrollment required in CSS 103.

ENVC 105 Emergency Incident Management System (3)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
Introduction to Incident Management System and emergency operations. Satisfies training requirements for the National Incident Management System and ICS100/200.
Prerequisite: None

ENVC 112 Limnology (5)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
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 or department chair approval. Lab and field trips required.

ENVC 122 Stream Ecology (5)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
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 or department chair approval.

ENVC 123 Fish Biology, Taxonomy, and Life History (5)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
Classification, biology, physiology, and evolution of representative North American fish.
Prerequisite: None

ENVC 130 Environmental Interpretation (5)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
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)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
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)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
Collection, identification, and plant community grouping of local and regional gymnosperms and angiosperms. Identify invasive species.
Prerequisite: None

ENVC 165 Sustainability Fundamentals (5)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
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)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
Supervised work experience in the field. Includes a weekly seminar.
Prerequisite: Instructor permission required.

ENVC 201 Watershed Restoration (5)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
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 minimum C grade or department chair approval. Field trips required.

ENVC 202 Wildlife Biology: D (5)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
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.

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ENVC 210 Fish Ecology and Management (5)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
Fish communities and their ecological and physical requirements. Emphasis on population dynamics in relation to habitat changes and fishing pressures.
Prerequisite: **ENVC 122 and 123. Reading and researching technical journals on current topics of fish conservation and management required. Report writing required.**

ENVC 211 Ecological Sampling and Monitoring Design (4)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
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.**

ENVC 212 Fluid Flow Laboratory (2)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
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: **Math 98 with a grade of C or higher or concurrent enrollment.**

ENVC 220 Wetlands in Managed Landscapes (4)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
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 122 or department chair approval. Field trips required.**

ENVC 221 Ecology of Ecosystem Edges/Ecotones (3)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
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 202 or department chair approval.**

ENVC 222 Field Project (3)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
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)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
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)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
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)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
Natural history, structure, identification, and classification of North American mammals.
Prerequisite: **None**

ENVC 232 Bird Identification (5)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
Natural history, biology, taxonomy, and identification of Pacific Northwest species.
Prerequisite: **None**

ENVC 244 Salmon Ecology (3)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
Ecology of the Pacific Northwest salmon and their importance to social and economic values.
Prerequisite: **None**

ENVC 249 Introduction to Wastewater Technology (5)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
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: **Math 98 with a grade of C or higher or concurrent enrollment.**

ENVC 250 Introduction to Water Treatment (5)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
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: **Math 98 with a grade of C or higher or concurrent enrollment.**

ENVC 302 Data Management (2)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
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 & Watershed Management (5)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
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.**

ENVC 310 Soil Ecology (5)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
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)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
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)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
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.**

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ENVC 327 Advanced Wetland Ecology (5)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
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)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
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)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
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)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
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)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
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)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
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)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
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)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
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.**

ENVC 499 Internship (3)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
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.**

ENVC 451 Independent Study (1)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
Special project as approved by instructor and department chair.
Prerequisite: **None**

ENVC 452 Independent Study (2)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
Special project as approved by instructor and department chair.
Prerequisite: **None**

ENVC 453 Independent Study (3)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
Special project as approved by instructor and department chair.
Prerequisite: **None**

ENVC 454 Independent Study (4)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
Special project as approved by instructor and department chair.
Prerequisite: **None**

ENVC 455 Independent Study (5)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
Special project as approved by instructor and department chair.
Prerequisite: **None**

ENVS 314 Environmental Science (5)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
Investigate how environmental problems have arisen due to human activities (global warming, air pollution, waste disposal) and their impact on corporate practices, including the corporate mission, competitive strategy, technology choices, production development decisions, production processes, and corporate responsibilities. Regulations and permits will be reviewed from the perspective of local planning departments along with sustainability and changes to the environment by using resources at rates that exceed the system's ability to replenish them.
Prerequisite: **Admission to BASAM program and BASAM Director permission.**

ENVS& 101 Intro to Env Science (5)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
Basic ecology, ecosystems, energy flow, nutrient cycling, population, community dynamics, and the human impact on the environment. Lab included.
Prerequisite: **Grade of 2.0 or higher in ENGL 097, or AESL 098, or appropriate test score.**

ETHNC 100 American Minorities: D (5)
PUBLIC SERVICE & SOCIAL SCIENCE
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: **Appropriate placement or grade of 2.0 or higher in ENGL 099.**

ETHNC 111 History of the Northwest Indians: D (5)
PUBLIC SERVICE & SOCIAL SCIENCE
An introduction to the many different indigenous communities inhabiting the Northwest and the significant variety of cultural and environmental experiences and adaptations.
Prerequisite: **Appropriate placement or grade of 2.0 or higher in ENGL 099.**

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ETHNC 201 Minorities in American Society: D (5)
PUBLIC SERVICE & SOCIAL SCIENCE
Study of theories used for explaining ethnic minority relations in American society. Includes study of prejudice, discrimination, racism, ethnocentrism, and cultural patterns.
Prerequisite: **Appropriate placement or grade of 2.0 or higher in ENGL 099.**

ETHNC 299 Learning into Action (1-15)
PUBLIC SERVICE & SOCIAL SCIENCE
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**

ETHNC 120 Survey of the Chicano People (5)
PUBLIC SERVICE & SOCIAL SCIENCE
Introduction to the historical and contemporary development of the Chicano/a community, emphasizing their history, literature, political movements, education and related areas. Attention is given to economic, social, political and cultural experiences of Mexican-Americans, with a focus on past and contemporary issues of race, ethnicity, and socio-economic status.
Prerequisite: **ENG& 101 or C or better, or concurrent enrollment in ENG 99**

FIRE 100 Principles of Emergency Services (5)
PUBLIC SERVICE & 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 & tactics; and life safety initiatives.
Prerequisite: **None**

FIRE 101 Fire Chemistry (3)
PUBLIC SERVICE & 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 & 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**

FIRE 120 Firefighter Skills I (8)
PUBLIC SERVICE & 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: **Concurrent enrollment required in CSS 103.**

FIRE 121 Firefighter Skills II (4)
PUBLIC SERVICE & 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 minimum C grade or department chair approval.**

FIRE 122 Firefighter Skills III (4)
PUBLIC SERVICE & 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 minimum C grade or department chair approval.**

FIRE 126 Wildland Firefighting (3)
PUBLIC SERVICE & 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 & 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 & 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 & 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 & 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 & 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.**

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FIRE 210 Fundamentals of Fire Prevention (3)
PUBLIC SERVICE & 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 & 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 & Ordinances (3)
PUBLIC SERVICE & 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 223 Live Fire Operations (1)
PUBLIC SERVICE & 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 & 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 & 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 & 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 & 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 246 Wilderness EMT (3)
PUBLIC SERVICE & 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 & 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 & 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 & 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 & 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 & Survival (3)
PUBLIC SERVICE & 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**

FIRE 213 Fire & Life Safety Education (3)
AREAS OF STUDY
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)
AREAS OF STUDY
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,

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Professional Qualifications for Fire Investigator, and prepares the student for Washington State certification testing for Fire Investigator.
Prerequisite: **None**

FIRE 215 Fire Inspection & Code Enforcement (3)
AREAS OF STUDY
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**

FIRE 243 Enhanced Emergency Medical Technician (15)
AREAS OF STUDY
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.**

FL 131 Parent Education Co-op, Infants & 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**

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**

FRCH 299 Learning into Action (1-15)
ARTS & COMMUNICATION
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**

FRCH& 121 French I: D (5)
ARTS & COMMUNICATION
A proficiency-based course in French, which includes pronunciation, fundamentals of grammar, syntax, oral and written exercises, reading, and conversation. An appreciation for cultural aspects of France and other French-speaking countries is emphasized. Oral practice is required.
Prerequisite: **Grade of 2.0 or higher in ENGL 097, or AESL 098, or appropriate test score.**

FRCH& 122 French II: D (5)
ARTS & COMMUNICATION
A continuation of French 121: the vocabulary and grammatical structures are more complicated, and the student begins to master other verb tenses and more complex sentence structures. Oral comprehension and speaking skills are emphasized through daily practice, as well as the reading and writing exercises.
Prerequisite: **FRCH& 121 with a grade of C or better or equivalent French course.**

FRCH& 123 French III: D (5)
ARTS & COMMUNICATION
A continuation of French 122: the grammar and vocabulary are more complicated. Oral comprehension and speaking skills are still emphasized through daily oral practice, as well as reading and writing exercises. Pre-requisite: French 122 or equivalent French course.
Prerequisite: **FRCH& 122 with a grade of C or better or equivalent French course.**

FRCH& 221 French IV: D (5)
ARTS & COMMUNICATION
A communication course in beginning intermediate French. Increases proficiency through review and expansion of skills, grammar, and cultural foundation of the language. Emphasizes oral communication.
Prerequisite: **FRCH& 123 with a grade of C or better or successful completion of two to three years of high school French.**

GEOG 295 Geography Integrative Experience Seminar (2)
PUBLIC SERVICE & SOCIAL SCIENCE
An Integrative Experience emphasizing an interdisciplinary approach to current issues in geography, including the societal context of geography and technology, and/or the ethical, political, and cultural aspects of geography.
Prerequisite: **None**

GEOG 299 Learning into Action (1-15)
PUBLIC SERVICE & SOCIAL SCIENCE
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**

GEOG& 100 Introduction to Geography (5)
PUBLIC SERVICE & SOCIAL SCIENCE
Relationship of cultural, territorial, and climatic factors in the world's important geographic regions.
Prerequisite: **Appropriate placement or grade of 2.0 or higher in ENGL 099.**

9 Course Descriptions

GEOL 295 Geology Integrative Experience Seminar (2)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
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

GEOL& 100 Survey of Earth Science (5)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
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, meterologic, and astronomic processes that contributed to its development. Field trips may be required; however, the online course does not include field trips.
Prerequisite: Appropriate placement or grade of 2.0 or higher in ENGL 099.

GEOL& 101 Intro Physical Geology (5)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
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: Appropriate placement or grade of 2.0 or higher in ENGL 099.

GEOL& 110 Environmental Geology (5)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
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: Appropriate placement or grade of 2.0 or higher in ENGL 099.

GEOL& 208 Geology of Pacific NW (5)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
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: Appropriate placement or grade of 2.0 or higher in ENGL 099.

GIS 101 Introduction to Geographic Information Systems (5)
SCIENCE, TECHNOLOGY, ENGINEERING, & 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, & 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.

GIS 105 Introduction to Global Positioning Systems (GPS) (2)
SCIENCE, TECHNOLOGY, ENGINEERING, & 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, & 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, GIS 105 or concurrent enrollment in GIS 105, or department chair approval.

GIS 199 Cooperative Education (1-15)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
Supervised work experience in the field. Includes a weekly seminar.
Prerequisite: Instructor permission required.

GIS 202 Introduction to Remote Sensing (5)
SCIENCE, TECHNOLOGY, ENGINEERING, & 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.

GIS 203 Advanced GIS Project (5)
SCIENCE, TECHNOLOGY, ENGINEERING, & 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.

HFT 100 Stability, Mobility and Movement (3)
HEALTH SCIENCES
Instruction of a variety of stability and mobility techniques. Introduction to teaching and learning strategies to restore stability and mobility of the kinetic chain and train the body to move effectively.
Prerequisite: HFT 107 with a "C" or better.

HFT 101 Introduction to Kinesiology (5)
HEALTH SCIENCES
Introduction to the structure and function of the skeletal and muscular systems of the human body (including origins, insertions, and actions of the muscles). Understanding of the mechanical qualities of movement.
Prerequisite: HFT 136 with a "C" or better.

HFT 102 Principles of Strength Training (4)
HEALTH SCIENCES
Explores technique, programming and progressions for resistance training.
Prerequisite: HFT 100 and HFT 107 with a "C" or better.

HFT 103 Fitness Testing (3)
HEALTH SCIENCES
Incorporates fitness industry standards with regard to appropriate assessment techniques and participant screening. Introduction to pre-participation screening procedures and functional and physiological assessments.
Prerequisite: HFT 107 with a "C" or better.

HFT 104 Principles of Cardiorespiratory Training (2)
HEALTH SCIENCES
Explores programming and progressions for cardiorespiratory training.
Prerequisite: HFT 136 with a "C" or better.

HFT 105 Principles of Exercise Science (5)
HEALTH SCIENCES
Introduction to how the body changes as a result of acute and chronic exercise. Emphasis on cardiovascular, respiratory, skeletal, muscular, and nervous systems.
Prerequisite: HFT 136.

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HFT 106 Injury Prevention (2)
HEALTH SCIENCES
Introduction to the basic knowledge and skills that aid in the prevention of injuries common in athletic and recreational activities.
Prerequisite: **None**

HFT 136 Anatomy & Physiology for Health & Fitness Tech (5)
HEALTH SCIENCES
Basic concepts of the structure and function of the following systems: Cardiovascular, respiratory, digestive, skeletal, nervous, muscular, and endocrine.
Prerequisite: **HFT 107 with a "C" or better.**

HFT 199 Cooperative Education Experience (1-15)
HEALTH SCIENCES
Supervised work experience in the field.
Prerequisite: **Instructor permission required.**

HFT 209 Fitness Instructor Prep (3)
HEALTH SCIENCES
Prepares students to become group fitness instructors. Focuses on the following topics: Human movement, basic injury prevention, designing and leading group fitness classes, motivational strategies, and cueing.
Prerequisite: **None**

HFT 107 Foundations of Personal Training (5)
HEALTH SCIENCES
Introduction to the concepts and basic knowledge required for jobs in the fitness industry. Focuses on the scope of practice, terminology, major muscles and bones, and fitness training principles.
Prerequisite: **None**

HFT 108 Leadership and Implementation (3)
HEALTH SCIENCES
Focuses on principles of motivation and adherence, communication and teaching techniques, and basics of behavioral change and health psychology.
Prerequisite: **None**

HIST 121 Religions of the World: D (5)
PUBLIC SERVICE & SOCIAL SCIENCE
Introduction to the history of the major world religions, with primary attention to their origins, basic structures, and role in contemporary society.
Prerequisite: **Appropriate placement or grade of 2.0 or higher in ENGL 099.**

HIST 242 History of the Modern Middle East: D (5)
PUBLIC SERVICE & SOCIAL SCIENCE
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: **Completed ENGL& 101 with a grade of 2.0 or higher.**

HIST 270 History of Modern Asia (5)
PUBLIC SERVICE & SOCIAL SCIENCE
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: **Completed ENGL& 101 with a grade of 2.0 or higher.**

HIST 280 Introduction to Chinese Civilization (1-5)
PUBLIC SERVICE & SOCIAL SCIENCE
Survey of Chinese history and culture from ancient time to present.
Prerequisite: **None**

HIST 295 History Integrative Experience Seminar (2)
PUBLIC SERVICE & SOCIAL SCIENCE
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)
PUBLIC SERVICE & SOCIAL SCIENCE
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**

HIST& 116 Western Civilization I (5)
PUBLIC SERVICE & SOCIAL SCIENCE
Survey of the origins of Western civilization in the Near East, ancient Greece and Rome, through the end of the Middle Ages.
Prerequisite: **Appropriate placement or grade of 2.0 or higher in ENGL 099.**

HIST& 117 Western Civilization II: D (5)
PUBLIC SERVICE & SOCIAL SCIENCE
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: **Appropriate placement or grade of 2.0 or higher in ENGL 099.**

HIST& 118 Western Civilization III: D (5)
PUBLIC SERVICE & SOCIAL SCIENCE
Survey of the origins of Western civilization from the end of the French revolution to the present day.
Prerequisite: **Appropriate placement or grade of 2.0 or higher in ENGL 099.**

HIST& 126 World Civilizations I: D (5)
PUBLIC SERVICE & SOCIAL SCIENCE
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: **Appropriate placement or grade of 2.0 or higher in ENGL 099.**

HIST& 127 World Civilizations II: D (5)
PUBLIC SERVICE & SOCIAL SCIENCE
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: **Appropriate placement or grade of 2.0 or higher in ENGL 099.**

HIST& 128 World Civilizations III: D (5)
PUBLIC SERVICE & SOCIAL SCIENCE
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: **Appropriate placement or grade of 2.0 or higher in ENGL 099.**

HIST& 146 US History I: D (5)
PUBLIC SERVICE & SOCIAL SCIENCE
A survey of the United States from the Native American cultures and the founding of the colonies through 1815.
Prerequisite: **Appropriate placement or grade of 2.0 or higher in ENGL 099.**

HIST& 147 US History II: D (5)
PUBLIC SERVICE & SOCIAL SCIENCE
A survey of United States history from 1815 to 1914.
Prerequisite: **Appropriate placement or grade of 2.0 or higher in ENGL 099.**

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HIST& 148 US History III: D (5)
PUBLIC SERVICE & SOCIAL SCIENCE
A survey of United States history from 1914 to the present.
Prerequisite: **Appropriate placement or grade of 2.0 or higher in ENGL 099.**

HIST& 214 Pacific NW History (5)
PUBLIC SERVICE & SOCIAL SCIENCE
Exploration, settlement, and development of the Pacific Northwest with emphasis on the state of Washington.
Prerequisite: **Completed ENGL& 101 with a grade of 2.0 or higher.**

HIST& 215 Women in US History (5)
PUBLIC SERVICE & SOCIAL SCIENCE
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)
PUBLIC SERVICE & SOCIAL SCIENCE
The American Indian from earliest times to the present.
Prerequisite: **Completed ENGL& 101 with a grade of 2.0 or higher.**

HMATH 100 Math for Health Professions (5)
SCIENCE, TECHNOLOGY, ENGINEERING, & 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 96 with a grade of C or better or appropriate test score.**

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 & 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 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 030 HSC English (1-5)
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 & 2 requirements for the high school diploma.
Prerequisite: **CASAS Reading score 215-230 AND completion of / co-enrollment in HSC 018**

HSC 040 HSC Mathematics (1-5)
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 050 HSC Fine Arts (1-2)
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 course is designed to help students complete the Social Studies requirements for the HS21+ diploma. Students will fulfill Social Studies requirements through individualized course work as reflected in educational plan developed in HS21+ portfolio course.
Prerequisite: **Completion of HSC 018 and Dept. Chair Permission**

HSC 065 HSC US History, Government, and Civics (1-5)
BASIC EDUCATION FOR ADULTS
This course examines major developments in U.S. history and compares its approaches to government to other systems of government, including their histories and underlying philosophies.
Prerequisite: **Completion of / co-enrollment in HSC 018 or Permission**

HSC 070 HSC Science Project (1-5)
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: **Completion of / co-enrollment in HSC 018 or Permission**

HSC 075 HSC Science with Lab (1-5)
BASIC EDUCATION FOR ADULTS
This course covers life and /or physical science topics in fulfillment of lab science requirements for the HS21+ diploma.
Prerequisite: **Completion / co-enrollment in HSC 018 OR Permission**

HSC 080 HSC Physical Education and Health (1-2)
BASIC EDUCATION FOR ADULTS
This course covers topics in health and fitness in fulfillment of high school completion requirements.
Prerequisite: **Completion of / co-enrollment in HSC 018 and Permission**

HSC 082 HSC Occupational Education (1-2)
BASIC EDUCATION FOR ADULTS
This course covers topics in fulfillment of the Occupational Ed requirements for high school completion.
Prerequisite: **Completion of / co-enrollment in CCB 018 OR Permission**

HSC 018 HSC First Quarter Experience (1-3)
AREAS OF STUDY
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 044 HSC Geometry (1-5)
AREAS OF STUDY
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 or Permission**

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HSC 045 HSC Algebra II (1-5)
AREAS OF STUDY
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**

HSC 061 HSC World Problems and Fine Arts (5)
AREAS OF STUDY
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)
AREAS OF STUDY
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)
AREAS OF STUDY
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: **Completion of /co-enrollment in HSC 018 or Permission**

HSC 064 HSC Washington State History and Government (1-5)
AREAS OF STUDY
This course examines major developments in Washington State history and compares its approaches to government to other systems of government, including their histories and underlying philosophies.
Prerequisite: **Completion of /co-enrollment in HSC 018 or Permission**

HSC 071 HSC Physical Science & Math (1-5)
AREAS OF STUDY
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**

HSC 073 HSC Science of Music (1-5)
AREAS OF STUDY
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: **Completion of /co-enrollment in HSC 018 or Permission.**

HSC 076 HSC Nutrition, Health & Fitness (1-5)
AREAS OF STUDY
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: **Completion of /co-enrollment in HSC 018 or Permission**

HSC 090 HSC World Languages (1-5)
AREAS OF STUDY
This course provides an introduction to a foreign language, which includes pronunciation, fundamentals of grammar, syntax, oral and written exercises, reading and conversation.
Prerequisite: **Completion of /co-enrollment in HSC 018 or Permission.**

HSERV 101 Introduction to Human Services (3)
PUBLIC SERVICE & SOCIAL SCIENCE
Overview of the delivery systems in social services with focus on historical perspectives, pluralism and current trends. Introduction to critical thinking skills, research techniques and research paper writing.
Prerequisite: **CSS 103 or concurrent enrollment.**

HSERV 102 Generalist Case Management (5)
PUBLIC SERVICE & SOCIAL SCIENCE
Preparation for coordinating individual client activities and evaluation of their needs. Includes current case management techniques for those in the Human Services profession. Required case management course for the generalist degree.
Prerequisite: **None**

HSERV 121 Introduction to Disabilities and Disability Law (4)
PUBLIC SERVICE & SOCIAL SCIENCE
Overview of disabilities and disability law, and historical and current rehabilitation techniques.
Prerequisite: **None**

HSERV 131 Human Development (5)
PUBLIC SERVICE & 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.
Prerequisite: **HSERV 101.**

HSERV 132 Motivational Interviewing (4)
PUBLIC SERVICE & SOCIAL SCIENCE
Introduction to basic terminology and techniques involved in Motivational Interviewing. This is a skill building course for students interested in entering the counseling profession.
Prerequisite: **None.**

HSERV 141 Alcoholism and other Addictive Disorders (5)
PUBLIC SERVICE & 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.
Prerequisite: **None**

HSERV 145 Addictions and the Law (3)
PUBLIC SERVICE & SOCIAL SCIENCE
Overview of the mutual impacts of chemical dependency 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. Developing a working relationship with Department of Licensing, Department of Social and Health Services and the Behavioral Health Administration (BHA).
Prerequisite: **None**

HSERV 147 Basic Mediation Training (5)
PUBLIC SERVICE & 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.
Prerequisite: **HSERV 101 or instructor permission.**

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HSERV 171 HIV/AIDS & Bld Pathogen Trng for Chem Depend Prof (1)
PUBLIC SERVICE & 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 Chemical Dependency Professionals (CDP).
Prerequisite: None

HSERV 198 Pre-Practicum Seminar (3)
PUBLIC SERVICE & SOCIAL SCIENCE
Provides information, direction and sequence of tasks in preparation for practicum in an agency setting. Students identify specific responsibilities for successful practicum experience and become familiar with the paperwork flow and purpose of each task.
Prerequisite: None

HSERV 199 Practicum (1-4)
PUBLIC SERVICE & 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.
Prerequisite: HSERV 101 and 198 with minimum C grade in each.

HSERV 200 Practicum Seminar (1)
PUBLIC SERVICE & SOCIAL SCIENCE
Discussion of issues arising in field placement. Must be taken concurrently with HSERV 199.
Prerequisite: HSERV 101 and 198 with minimum C grade in each.

HSERV 203 Introduction to Counseling (5)
PUBLIC SERVICE & 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, chemical dependency and rehabilitation counseling.
Prerequisite: HSERV 101 or instructor permission

HSERV 221 Crisis Intervention (5)
PUBLIC SERVICE & SOCIAL SCIENCE
Theory and techniques of crisis intervention with an emphasis on assessment and knowledge of local resources.
Prerequisite: HSERV 101.

HSERV 222 Counseling Theories and Therapies (5)
PUBLIC SERVICE & SOCIAL SCIENCE
Special emphasis on designated major counseling theories and techniques. Includes an exploration of the process of learning and the different learning styles encountered by counselors and human service professionals. This course is only for students on the Substance Use Disorder fast track.
Prerequisite: None

HSERV 231 Psychopathology and Therapeutic Intervention in Mental Health (4)
PUBLIC SERVICE & SOCIAL SCIENCE
Survey of various treatment approaches in mental health, substance abuse treatment, etiology of mental disorders, and DSM diagnostic criteria.
Prerequisite: HSERV 101 or instructor permission

HSERV 232 Pluralism in Human Services: D (5)
PUBLIC SERVICE & SOCIAL SCIENCE
Issues of pluralism and diversity with focus on relationships between agencies, staff and the diverse client populations served in the Human Services profession.
Prerequisite: HSERV 132.

HSERV 241 Addictive Disorders & the Family (3)
PUBLIC SERVICE & 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.
Prerequisite: None

HSERV 242 Physiology & Pharmacology of Psychoactive Drugs (3)
PUBLIC SERVICE & 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 those on the Human Services chemical dependency track.
Prerequisite: HSERV 141 or instructor permission

HSERV 243 Substance Use Disorder Assessment & Case Mgmt. (4)
PUBLIC SERVICE & SOCIAL SCIENCE
Introduction to the tools & 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.
Prerequisite: HSERV 141 or department chair approval.

HSERV 244 Group Process and Addictive Disorders (3)
PUBLIC SERVICE & 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.
Prerequisite: HSERV 141 or equivalent with permission of Department Chair

HSERV 245 Professional Ethics (3)
PUBLIC SERVICE & SOCIAL SCIENCE
Presentation and discussion of ethical principles and codes of professional behavior for those working in chemical dependency treatment, mental health services, developmental disability rehabilitation and other human service settings.
Prerequisite: None

HSERV 248 Adolescent Addictive Disorders Counseling (3)
PUBLIC SERVICE & SOCIAL SCIENCE
Provides addictive disorder professionals and those pursuing addictive disorder counseling qualifications the opportunity to learn how to work with children and adolescents in an effective manner.
Prerequisite: None

HSERV 110 Introduction to Caregiving (3)
PUBLIC SERVICE & SOCIAL SCIENCE
Overview of the caregiving experience. This is an elective course designed for anyone who will become a care worker, particularly those caregivers who will be working in a home under the direct guidance of the client or their representative. This can be the case in families where the elder or disabled family member is ruled as custodial and is determined to remain in his/her home, but requires help managing day to day instrumental care tasks as well as personal oversight and some personal care. Taught in a small group format, each student will participate by self-reflection, group discussion and interaction. This course is not a HSERV degree requirement. It is only being offered on the Whidbey Island campus.
Prerequisite: None

HUM 295 Humanities Integrative Experience Seminar (2)
AREAS OF STUDY
An Integrative Experience emphasizing an interdisciplinary approach to current issues in humanities, including the societal context of human-

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ities and technology, and/or the ethical, political, and cultural aspects of humanities.
Prerequisite: **None**

HUM 299 Learning into Action (1-15)
AREAS OF STUDY
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**

HUM& 101 Intro to Humanities (5)
AREAS OF STUDY
An introduction to the elements and principles of the arts including painting, sculpture, photography, film, and architecture. Art works will be discussed and written about from a variety of historical and critical perspectives.
Prerequisite: **Grade of 2.0 or higher in ENGL 097, or AESL 098, or appropriate test score.**

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 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 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 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 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 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 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 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**

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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

IS 200 States and Capitalism: the Origins of Western Wealth and Power (5)
PUBLIC SERVICE & SOCIAL SCIENCE
An examination of the dramatic re-organization of western society between the 15th and 19th centuries, viewed from the perspectives of History, Economics and Political Science.
Prerequisite: **Completed ENGL& 101 with a grade of 2.0 or higher.**

IS 201 The International System (5)
PUBLIC SERVICE & SOCIAL SCIENCE
This course analyzes the relationship between economic and political power. The development of the 20th/21st century world economy and the system of political states is examined. The course identifies and evaluates the major challenges that have and will continue to shape the world's economic and political structures (e.g. the Great Depression, the Cold War, Terrorism, etc.).
Prerequisite: **Completed ENGL& 101 with a grade of 2.0 or higher.**

IS 202 Cultural Interactions in an Interdependent World (5)
PUBLIC SERVICE & SOCIAL SCIENCE
This course examines cultural interactions among societies and civilizations including intellectual, societal, artistic and historical factors. Particular emphasis will be placed on the interaction between Western and non-Western cultures. Required course for the International Studies Certificate.
Prerequisite: **Completed ENGL& 101 with a grade of 2.0 or higher.**

IS 255 International Studies: Special Topics (1-5)
PUBLIC SERVICE & SOCIAL SCIENCE
Students engage in individual research, directed readings, seminars, special projects, internships and/or directed travel related to faculty approved aspect(s) of international studies. Instructor permission required both for credit hours determination and project content.

Prerequisite: None

JAPN 100 Introduction to Japanese Language (3)
ARTS & COMMUNICATION
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.**

JAPN 299 Learning into Action (15)
ARTS & COMMUNICATION
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

JAPN& 121 Japanese I: D (5)
ARTS & COMMUNICATION
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)
ARTS & COMMUNICATION
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 better or instructor's permission.**

JAPN& 123 Japanese III: D (5)
ARTS & COMMUNICATION
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 better or instructor's permission**

JOUR 101 Introduction to Journalism & Newswriting (5)
ARTS & COMMUNICATION
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: **Completion of English 101 with a C or better.**

JOUR 201 Newspaper Production & Editing (2)
ARTS & COMMUNICATION
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: **Successful completion of JOUR 101 with a C or better or permission of instructor.**

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JOUR 202 Advanced Newswriting (2)
ARTS & COMMUNICATION
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: **Successful completion of JOUR 101 with a C or better or permission of instructor.**

LIB 201 Critical Information Studies & Research Methods (5)
PUBLIC SERVICE & SOCIAL SCIENCE
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: **None**

MANF 220 Supply Chain Management (5)
INDUSTRIAL TECHNOLOGY & 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 103 Introduction to Quality Assurance (3)
INDUSTRIAL TECHNOLOGY & 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 or instructor permission.**

MANF 110 Introduction to Manufacturing (3)
INDUSTRIAL TECHNOLOGY & 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 115 Intro to Computer Numeric Controlled (CNC) Operations (5)
INDUSTRIAL TECHNOLOGY & 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 & 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 122 Material Science in Manufacturing (2)
INDUSTRIAL TECHNOLOGY & 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, ceramics, and polymers, to advanced engineering materials and composites. Emphasis will be placed on understanding how the structure and properties for industrial uses influence the selection of primary materials and their conversion into useful products.
Prerequisite: **None.**

MANF 125 Precision Measurement and Tools (3)
INDUSTRIAL TECHNOLOGY & TRANSPORTATION
Introduction to the science of metrology (precision measurement and tolerances), and the basic hand and machine tools commonly used in a manufacturing workplace. Covers the fundamental skills required to perform basic and precision dimensional measurements and an introduction to the concepts of Statistical Process Control (SPC). Gain proficiency in using rules, scales, tape measures, protractor, calipers, micrometers, dial gage and height gage. Identification and classification of a variety of basic hand and machine tools. Overview of fasteners and methods of fastenings (screws, machine screws, nuts, bolts, etc.)
Prerequisite: **None.**

MANF 140 Print Reading in Manufacturing (3)
INDUSTRIAL TECHNOLOGY & TRANSPORTATION
Introduction to the fundamentals of blueprint reading emphasizing industrial drawings commonly used in manufacturing. Focuses on line and symbol conventions used in industrial blueprints and visualization of solid objects from orthographic and isometric projections. Students will be given experiential exercises in interpreting technical drawings. Overview of the various sources of information found within technical drawings will also be given. Develop skills in print reading, learn basic ASME standard sketching techniques, lettering, dimensioning, and makeup of a print as a form of communication. Read and interpret drawings as well as sketch them. Practice interpreting mechanical, construction, and basic blueprints.
Prerequisite: **None.**

MANF 145 Electronics Fundamentals (5)
INDUSTRIAL TECHNOLOGY & 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 & 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 150 Sensor Systems and Applications (5)
INDUSTRIAL TECHNOLOGY & TRANSPORTATION
Introduction to devices and circuits used in industrial applications: sensors and transducers, control circuits, electronic signals, thyristor devices, trigger circuits, motors and motor control systems. Covers measurement techniques used in computer controlled industrial systems to monitor flow, temperature, proximity, pressure, level and toxic gas. Introduction to hydraulic and pneumatic systems, fluids, pumps, sensors, and control devices used in common industrial processes.
Prerequisite: **MANF 145.**

MANF 156 Introduction to Automated Systems (5)
INDUSTRIAL TECHNOLOGY & 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.

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Introduction to microcontrollers, robotic principles, automation systems, motor and servo-control systems.
Prerequisite: **MANF 150.**

MANF 177 Quality Control Metrics and Applications (5)
INDUSTRIAL TECHNOLOGY & 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 and Gage R&R, and writing technical quality reports. Areas of study include product quality, process quality, and subjective quality standards.
Prerequisite: **MANF 103 or instructor permission.**

MANF 190 Computer Numeric Controlled (CNC) Basics (5)
INDUSTRIAL TECHNOLOGY & TRANSPORTATION
Introduction to Computer Aided Drawing (CAD), Computer Aided Machining (CAM), and to the Computer Numeric Controlled (CNC) process. Includes the basics of CNC machine operation, advanced print reading and programming methodologies. Also introduced are machining processes for CNC mill and CNC lathe.
Prerequisite: **MANF 115 or instructor permission.**

MANF 195 Introduction to Robotics (2)
INDUSTRIAL TECHNOLOGY & TRANSPORTATION
Using electronics principles and test equipment, students are introduced to microcontrollers, robotics, automation systems, robotic motor and servo control systems.

MANF 199 Internship Experience (1-15)
INDUSTRIAL TECHNOLOGY & TRANSPORTATION
Supervised work experience in the field. Includes a weekly seminar.
Prerequisite: **Instructor permission required.**

MANF 205 Advanced Computer Numeric Control (CNC) (5)
INDUSTRIAL TECHNOLOGY & TRANSPORTATION
Study of Computer Numeric Control (CNC) in the manufacturing environment. Topics include manufacturing applications of CNC, introduction to machining, and CNC programming and operation in a production setting.
Prerequisite: **MANF 190 or instructor permission.**

MANF 210 Total Productive Maintenance (3)
INDUSTRIAL TECHNOLOGY & TRANSPORTATION
Introduction to electrical systems, mechanical systems and rigging. Describes the elements of Total Productive Maintenance (TPM) and explains how TPM helps reduce losses and waste. Explores the fundamentals of facilities layout and process selection.
Prerequisite: **MANF 177 or instructor permission.**

MANF 215 Advanced Inspection (5)
INDUSTRIAL TECHNOLOGY & TRANSPORTATION
Advanced study of quality tools and metrics. Includes physical inspection methods, statistical metrics for quality assurance and acceptance sampling.
Prerequisite: **MANF 177 or instructor permission.**

MANF 230 Enterprise Resource Planning and Material Requirement Planning (5)
INDUSTRIAL TECHNOLOGY & TRANSPORTATION
The study of systems and planning tools used in manufacturing. Includes enterprise resource planning (ERP), material requirement planning (MRP), and aggregate planning.
Prerequisite: **MANF 177 or instructor permission.**

MANF 250 Shop Supervision (5)
INDUSTRIAL TECHNOLOGY & 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 or instructor permission.**

MANF 256 Operations Management (5)
INDUSTRIAL TECHNOLOGY & TRANSPORTATION
Study the role of operations managers in manufacturing. Includes both strategic issues and practical applications, decision making, process selection, capacity planning, management of quality, supply chain management, and personnel management.
Prerequisite: **MANF 250 and CIS 150.**

MANF 121 First Aid and CPR (1)
INDUSTRIAL TECHNOLOGY & TRANSPORTATION
Basic First Aid and CPR training. Receive a Heart Saver First Aid and CPR card upon completion.
Prerequisite: **None**

MANF 127 Manufacturing Math (2)
INDUSTRIAL TECHNOLOGY & TRANSPORTATION
Applies the mathematic concepts taught in WMATH 100 to a manufacturing specific context. Focuses on basic statistics, trigonometry and summation notation.
Prerequisite: **WMATH 100 or concurrent enrollment.**

MATH 087 Special Topics in Math (1-10)
SCIENCE, TECHNOLOGY, ENGINEERING, & 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, & 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, & 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 Beginning Algebra (5)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
This is the beginning course in algebra, building on topics introduced in math 096. Topics include: algebraic expressions, solving linear equations and inequalities, graphing linear equations, solving systems of linear equations and inequalities, mathematical modeling, and functions. A non-CAS graphing calculator is required.
Prerequisite: **MATH 096 with a grade of C or higher, or equivalent math placement score.**

MATH 098 Intermediate Algebra I (5)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
This is the first course in intermediate algebra, building on topics introduced in math 097. Topics include: integer and rational exponents, polynomials and operations with polynomials, factoring polynomials, solving quadratic equations by: factoring, the square root method, completing the square and the quadratic formula; graphing quadratic and exponential functions, modeling with polynomial and exponential functions. A non-CAS graphing calculator is required.
Prerequisite: **MATH 097 with a grade of C or higher, or equivalent math placement score.**

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MATH 099 Intermediate Algebra II (5)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
This is the second course in intermediate algebra, building on topics introduced in math 098. Topics include: composite and inverse functions; logarithmic, rational and radical functions; logarithmic, exponential, rational, absolute value and radical equations; radical and rational expressions; variation; absolute value inequalities; complex numbers; and modeling with logarithmic, exponential, rational and radical equations. A non-CAS graphing calculator is required.
Prerequisite: **Math 098 with a grade of C or higher, or appropriate math placement score.**

MATH 149 Tutoring Skills for Mathematics (3)
SCIENCE, TECHNOLOGY, ENGINEERING, & 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: **A minimum of MATH 099, with a grade of B (3.0) or higher in all mathematics coursework, or instructor's permission.**

MATH 204 Elementary Linear Algebra (5)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
An introductory course including systems of linear equations; matrices; the vector space Rn; determinants, Cramer's Rule; applications.
Prerequisite: **MATH& 151 with a grade of C or better.**

MATH 238 Ordinary Differential Equations (5)
SCIENCE, TECHNOLOGY, ENGINEERING, & 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 grade of C or better.**

MATH 299 Learning into Action (1-15)
SCIENCE, TECHNOLOGY, ENGINEERING, & 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**

MATH 015 Technical Math for Diesel Mechanics (1)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
Whole numbers, fractions, decimals, percentages, measurements, ratios, proportions, and averages.
Prerequisite: **None**

MATH& 107 Math in Society (5)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
A terminal course in mathematics for non-math or non-science majors. The course fulfills the quantitative reasoning requirement for the AA-DTA degree and for transfer. Topics may include logic, probability, statistics, geometry, modeling, linear algebra, finance, trigonometry, problem solving, and the history of mathematics. A graphing calculator may be required.
Prerequisite: **MATH 98 with a grade of C or higher, or equivalent math placement score.**

MATH& 141 Precalculus I (5)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
This course covers fundamental topics of algebra, including: polynomials, exponential and logarithmic functions, and their graphs; system of equations; inequalities; and curve sketching. A graphing calculator may be required.
Prerequisite: **MATH 099 with a grade of C or higher, or equivalent math placement score.**

MATH& 142 Precalculus II (5)
SCIENCE, TECHNOLOGY, ENGINEERING, & 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, & MATH
This course presents a connected introduction to probability and statistics using statistical inference as its theme. The course covers descriptive statistics, probability distributions including the binomial and normal distributions, confidence intervals and hypothesis tests, and linear regression and correlation with an emphasis on statistical inference. A graphing calculator may be required.
Prerequisite: **MATH 098 with a grade of C or higher or equivalent math placement score.**

MATH& 148 Business Calculus (5)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
Techniques of calculating integrals and derivatives and their applications in business, economics, biology and human relations. A graphing calculator is required.
Prerequisite: **MATH& 141 with a grade of C or higher or equivalent score on math placement test.**

MATH& 151 Calculus I (5)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
Limits and continuity, differentiation and applications, Mean value theorem, applications of differentiation, related rates, curve sketching, min-max problems, concavity, and anti-derivatives. A graphing calculator is required.
Prerequisite: **MATH& 142 with a grade of C or higher or equivalent math placement score.**

MATH& 152 Calculus II (5)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
This course covers the study of indefinite integrals, applications of integration, techniques of integration, and an introduction to differential equations. A graphing calculator is required.
Prerequisite: **MATH& 151 with a grade of C or higher.**

MATH& 153 Calculus III (5)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
This course covers polar coordinates, parametric equations, and vectors in space, vector-valued functions, and infinite series. A graphing calculator is required.
Prerequisite: **MATH& 152 with a grade of C or higher.**

MATH& 254 Calculus IV (5)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
Topics include functions of several variables, tangent planes, partial differentiation, the chain rule, Lagrange multipliers, double and triple integrals, vector fields, line and surface integrals. Culminates in the theorems of Green and Stokes, along with the Divergence Theorem.
Prerequisite: **MATH& 153.**

MIT 105 Video Game Development I (8)
ARTS & COMMUNICATION
Through the creation of some classic 2D games (e.g. Pong, Breakout & 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**

MIT 115 Video Game Development II (8)
ARTS & COMMUNICATION
Through the expansion of some classic 2D games (e.g. Breakout & 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

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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 & 3D environments.
Prerequisite: **MIT 105**

MIT 125 Introduction to Interactive Multimedia (5)
ARTS & 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 & 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 & 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 & COMMUNICATION
Supervised work experience in the field. Includes a weekly seminar.
Prerequisite: **instructor permission.**

MIT 205 Video Game Development III (8)
ARTS & 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.**

MIT 212 Digital Videography (5)
ARTS & 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 & 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 & 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 & 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 & 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 & 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 & 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 & COMMUNICATION
Introduction to user experience (UX) design principles and patterns.
Prerequisite: **Strongly recommended: computer literacy and file management skills.**

MIT 236 Adobe Experience Design (5)
ARTS & COMMUNICATION
Use Adobe Comet to design and prototype websites and mobiles apps.
Prerequisite: **Computer literacy and file management skills.**

MIT 240 Adobe Dreamweaver (5)
ARTS & 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 & 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 & 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 & 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 & 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 & 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 & TRANSPORTATION

Shop safety including use of tools, fastening, and maintenance practices.

Prerequisite: **None**

MT 132 Marine Electrical Systems I (5)
INDUSTRIAL TECHNOLOGY & 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 (5)
INDUSTRIAL TECHNOLOGY & 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 or instructor permission.**

MT 134 Marine Electrical Systems III (5)
INDUSTRIAL TECHNOLOGY & 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 or instructor permission.**

MT 136 Marine Sanitation Systems, Plumbing and Pumps (5)
INDUSTRIAL TECHNOLOGY & 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 & 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 Drivetrain/Sterndrives and Saildrives (5)
INDUSTRIAL TECHNOLOGY & TRANSPORTATION

Theory and hands-on experience in marine inboard engine drive systems with emphasis on shafts, couplings, alignment, stuffing boxes, underwater running gear, rudders, engine throttle and shift controls, repairs and alignments, steering systems, and remote control systems for engine and transmission. Covers operation and maintenance of sterndrives and saildrive types of marine drivetrains emphasizing preventative maintenance and service procedures.

Prerequisite: **MT 160 or instructor permission.**

MT 199 Cooperative Education Experience (1-4)
INDUSTRIAL TECHNOLOGY & TRANSPORTATION

Supervised work experience in the field.

Prerequisite: **Instructor permission required.**

MT 230 Marine Electronics (3)
INDUSTRIAL TECHNOLOGY & 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 & Refrigeration (5)
INDUSTRIAL TECHNOLOGY & 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 or instructor permission.**

MT 236 Marine Electronics II (3)
INDUSTRIAL TECHNOLOGY & 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 or instructor permission.**

MT 240 Outboard Motor Operation and Service (3)
INDUSTRIAL TECHNOLOGY & 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 251 Independent Study (1-5)
INDUSTRIAL TECHNOLOGY & TRANSPORTATION

Special project as approved by instructor and department chair.

Prerequisite: **None**

MT 106 Rigging (4)
INDUSTRIAL TECHNOLOGY & 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 119 OSHA 10 Training and Forklift Certification (2)
INDUSTRIAL TECHNOLOGY & 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.

Prerequisite: **None**

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MT 204 Advanced Marine Systems (5)
INDUSTRIAL TECHNOLOGY & 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: **MT132.**

MT 216 Marine Outdrives (3)
INDUSTRIAL TECHNOLOGY & TRANSPORTATION
Study of sterndrive propulsion systems. Includes common service procedures, model identification, vertical drive rebuilding procedures, trim/tilt functions, shift adjustments, utilizing service manuals and parts information for problem solving.
Prerequisite: **None**

MT 270 Marine Hydraulic Systems (5)
INDUSTRIAL TECHNOLOGY & 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.**

MUSC 100 Music Fundamentals (5)
ARTS & COMMUNICATION
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 108 Class Voice (2)
ARTS & COMMUNICATION
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)
ARTS & COMMUNICATION
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 Intermediate Piano (3)
ARTS & COMMUNICATION
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)
ARTS & COMMUNICATION
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)
ARTS & COMMUNICATION
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 grade of C or better or instructor's permission.**

MUSC 116 Class Guitar III (2)
ARTS & COMMUNICATION
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 grade of C or better or instructor's permission.**

MUSC 127 History of Rock and Roll: D (5)
ARTS & COMMUNICATION
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: **Appropriate placement or grade of 2.0 or higher in ENGL 099.**

MUSC 128 Jazz: America's Artform: D (5)
ARTS & COMMUNICATION
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: **Appropriate placement or grade of 2.0 or higher in ENGL 099.**

MUSC 129 World Music: D (5)
ARTS & COMMUNICATION
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)
ARTS & COMMUNICATION
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)
ARTS & COMMUNICATION
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.**

MUSC 144 Composition (1-2)
ARTS & COMMUNICATION
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 146 Symphony Orchestra (1)
ARTS & COMMUNICATION
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;

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string players should be adept at position work and fundamental techniques.
Prerequisite: **None**

MUSC 147 Skagit Community Band (1)
ARTS & COMMUNICATION
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)
ARTS & COMMUNICATION
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 164 Jazz Ensemble (1-3)
ARTS & COMMUNICATION
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 175 Voice Intermediate (1)
ARTS & COMMUNICATION
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: **Prerequisite:Music Department Chair permission required. Audition may be required.**

MUSC 176 Guitar I (1)
ARTS & COMMUNICATION
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: **Prerequisite:Music Department Chair permission required. Audition may be required.**

MUSC 178 Brass - Intermediate (1)
ARTS & COMMUNICATION
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)
ARTS & COMMUNICATION
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)
ARTS & COMMUNICATION
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)
ARTS & COMMUNICATION
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)
ARTS & COMMUNICATION
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 213 Advance Piano Class (3)
ARTS & COMMUNICATION
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 244 Advanced Composition (2)
ARTS & COMMUNICATION
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 and concurrent enrollment in Music Theory or permission of the instructor.**

MUSC 275 Voice-Advanced (1)
ARTS & COMMUNICATION
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)
ARTS & COMMUNICATION
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

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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)
ARTS & COMMUNICATION
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)
ARTS & COMMUNICATION
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)
ARTS & COMMUNICATION
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)
ARTS & COMMUNICATION
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)
ARTS & COMMUNICATION
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)
ARTS & COMMUNICATION
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**

MUSC& 105 Music Appreciation (5)
ARTS & COMMUNICATION
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: **Appropriate placement or grade of 2.0 or higher in ENGL 099.**

MUSC& 141 Music Theory I (5)
ARTS & COMMUNICATION
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)
ARTS & COMMUNICATION
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 grade of C or higher, or equivalent or instructor permission.**

MUSC& 143 Music Theory III (5)
ARTS & COMMUNICATION
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 grade of C or higher, or instructor permission.**

MUSC& 241 Music Theory IV (5)
ARTS & COMMUNICATION
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.**

MUSC& 242 Music Theory V (5)
ARTS & COMMUNICATION
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 grade of C or better or instructor's permission.**

MUSC& 243 Music Theory VI (5)
ARTS & COMMUNICATION
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 grade of C or better or instructor's permission.**

NASC 100 Introduction to Physical Science (5)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
A survey of the physical sciences designed to give the non-science major a basic understanding of mechanics, heat, waves, sound, light, electricity, magnetism, and atomic theory. Includes topics in astronomy and earth science. Lab included.
Prerequisite: **Appropriate placement or grade of 2.0 or higher in ENGL 099.**

NASC 160 Western Washington Field Study (1-5)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
Natural history field study and lecture course held in western Washington. Consists of guided field study with supplemental lectures and labs on areas of biological, geologic, and oceanographic interest.
Prerequisite: **None**

NASC 161 Eastern Washington Field Study (1-5)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
Natural history field study and lecture course held in eastern Washington. Consists of guided field study with supplemental lectures and labs on areas of biological and geologic interest.
Prerequisite: **None**

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NASC 299 Learning into Action (1-15)
SCIENCE, TECHNOLOGY, ENGINEERING, & 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**

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 or equivalent with a C or higher**

NURS 100 Nursing Assistant/AIDS 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 American Heart Association Healthcare Provider CPR card is required. A current TB test is required.**

NURS 101 Nursing Assistant/AIDS 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 American Heart Association Healthcare Provider CPR card is required. A current TB test is required.**

NURS 102 Nursing Assistant/AIDS 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 American Heart Association Healthcare Provider CPR card is required. A current TB test is required.**

NURS 171 Nursing Fundamentals-Skills & 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: **CHEM& 121, BIOL& 160 or 211, BIOL& 260, BIOL& 241, BIOL& 242, ENGL& 101, MATH& 146, PSYC& 100 and 200 and NUTR& 101. Overall grade point average of 3.0 (B) for science prerequisites and overall 3.0 GPA (B) required for all NURS 171-173 prerequisite courses; AHA Healthcare Provider card, and current immunization status required.**

NURS 172 Nursing Fundamentals-Skills & 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: **CHEM& 121, BIOL& 160 or 211, BIOL& 260, BIOL& 241, BIOL& 242, ENGL& 101, MATH& 146, PSYC& 100 and 200 and NUTR& 101. Overall grade point average of 3.0 (B) for science prerequisites and overall 3.0 GPA (B) required for all NURS 171-173 prerequisite courses; AHA Healthcare Provider card, and current immunization status required.**

NURS 173 Nursing Fundamentals-Skills & 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: **CHEM& 121, BIOL& 160 or 211, BIOL& 260, BIOL& 241, BIOL& 242, ENGL& 101, MATH& 146, PSYC& 100 and 200 and NUTR& 101. Overall grade point average of 3.0 (B) for science prerequisites and overall 3.0 GPA (B) required for all NURS 171-173 prerequisite courses; 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, 172, 173 with a grade of 2.0 (C) or higher.**

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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, 172, 173 with a grade of 2.0 (C) 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 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, 182 with grade of 2.0 (C) or higher. 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, 182 with grade of 2.0 (C) or higher. 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, 192 with grade of 2.0 (C) 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, 192 with grade of 2.0 (C) 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, 192 with grade of 2.0 (C) 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: **CHEM& 121, BIOL& 160 or 211, BIOL& 260, BIOL& 241, BIOL& 242, ENGL& 101, MATH& 146, PSYC& 100 and 200 and NUTR& 101. Overall grade point average of 3.0 (B) for science prerequisites and overall 3.0 GPA (B) required for all part-time RN Nursing courses. Current unencumbered Washington State LPN license.**

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: **Current unencumbered Washington State LPN license.**

NURS 276 Nursing Advncd OB, Ped, M/S-Skls Prac (1)
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. (Section one of a two-part course.)
Prerequisite: **Current unencumbered Washington State LPN license.**

NURS 277 Nursing Advncd OB, Ped, M/S-Skls Prac (2)
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,

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relationship centered care and teamwork are integrated throughout. (Section two of a two-part course.)
Prerequisites: **NURS 274, 275, 276 with a C grade (2.0) or higher.**

NURS 278 Nursing Advncd OB, Ped, M/S-Skls Prac (3)
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. (Section two of a two-part course.)
Prerequisite: **Current unencumbered Washington State LPN license.**

NURS 279 Nursing Advncd OB, Ped, M/S-Skls Prac (1)
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. (Section two of a two-part course.)
Prerequisite: **Current unencumbered Washington State LPN license.**

NURS 281 Nursing Complx M/S & 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, 272, 273 with a grade of 2.0 (C) or higher.**

NURS 282 Nursing Complx M/S & 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, 272, 273 with a grade of 2.0 (C) or higher.**

NURS 284 Nursing Complx M/S & 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 277, 278, 279 with minimum grade of C (2.0) in each.**

NURS 285 Nursing Complx M/S & Geriatric Patient (3)
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 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 277, 278, 279 with minimum grade of C (2.0) in each.**

NURS 287 Nursing Complx M/S & 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, NURS 285 with minimum grade of C (2.0) in each.**

NURS 288 Nursing Complx M/S & Geriatric Patient (3)
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. (Section two of a two-part course.)
Prerequisite: **NURS 284, NURS 285 with minimum grade of C (2.0) in each.**

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 2.0 (C) or higher. Concurrent enrollment in PHIL 291.**

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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 2.0 (C) or higher. Concurrent enrollment in PHIL 291.**

NURS 294 Entry into Nursing Practice and Practicum (0.5)
LECTURE
HEALTH SCIENCES
Focuses on factors impacting entry into practice. Examine challenges faced in today's 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 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: **NURS 287, 288 with a minimum C grade (2.0) in each. Concurrent enrollment in PHIL 294.**

NURS 297 Nursing Adult/Child Practicum V (0.5)
LECTURE 2
HEALTH SCIENCES
Focuses on factors impacting entry into practice. Examine challenges faced in today's 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: **NURS 294, 295 with a minimum C grade (2.0) in each. Concurrent enrollment in PHIL 297.**

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: **NURS 294, 295 with a minimum C grade (2.0) in each. Concurrent enrollment in PHIL 297.**

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 e-mail, 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 or the ability to type by touch.**

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,

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agendas, itineraries, and minutes using standard business formats. Includes proofreading.
Prerequisite: **OBT 122 or equivalent.**

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.**

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.**

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.**

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, 132, and 134.
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 124.**

OBT 210 Electronic Communications (3)
BUSINESS
Use the features of Microsoft Outlook to manage e-mail, calendars, contacts, and tasks. Use Web-based resources to collaborate and communicate via text, audio, and video.
Prerequisite: **None**

OBT 215 Business Communications: D (5)
BUSINESS
Composition skills for writing effective business communications including e-mail, memos, letters, job-seeking documents, and functional reports. Business presentation skills. Team collaboration skills.
Prerequisite: **ENGL& 101 and OBT 115. 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, 132, and 134.**

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 Intro to Oceanography (5)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
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: **Appropriate placement or grade of 2.0 or higher in ENGL 099 and MATH 98.**

PE 011 Boat Piloting (1)
HEALTH SCIENCES
Piloting, rules of the road, basic knots and safety. Given by the U.S. Squadron.
Prerequisite: **None**

PE 012 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 11.**

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**

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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.
Prerequisite: None

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.
Prerequisite: None

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.
Prerequisite: None

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

PE 107 Advanced Swimming (1)
HEALTH SCIENCES
Advanced strokes will be covered with special attention given to endurance and form.
Prerequisite: PE 106 or ability to swim 100 yards with a variety of strokes.

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.
Prerequisite: None

PE 111 Aerobic Conditioning (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.
Prerequisite: None

PE 112 Weight Training (1)
HEALTH SCIENCES
This course addresses use of resistance weight equipment using proper body mechanics. Emphasizes strength training.
Prerequisite: None

PE 113 Aerobic Weight Circuit Training (1-2)
HEALTH SCIENCES
This course combines the benefits of cardiovascular or aerobic training with the benefits of weight training.
Prerequisite: None

PE 114 Advanced Specialized Aerobic Weight Circuit Training (2)
HEALTH SCIENCES
This course combines cardiovascular exercise with specialized weight training.
Prerequisite: None

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.
Prerequisite: None

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.
Prerequisite: None

PE 122 Basketball (1)
HEALTH SCIENCES
Competitive coeducational basketball. Rules, regulations and theory of team play will be emphasized.
Prerequisite: None

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.
Prerequisite: None

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.
Prerequisite: None

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.
Prerequisite: None

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.
Prerequisite: None

PE 133 Golf (1)
HEALTH SCIENCES
Learn basic techniques, skills and rules of the game.
Prerequisite: None

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.
Prerequisite: None

PE 135 Beginning Karate (1-2)
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.
Prerequisite: None

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PE 136 Intermediate Karate (1-2)
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 or instructor's permission.**

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.
Prerequisite: **None**

PE 139 Advanced Cardio Kickboxing (1)
HEALTH SCIENCES
A continuous cardiovascular program that incorporates advanced punches, kicks, and self-defense moves.
Prerequisite: **PE 138 or previous martial arts experience.**

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.
Prerequisite: **None**

PE 142 Aerobic Dance (1)
HEALTH SCIENCES
Cardiovascular conditioning and muscular toning program consisting of large dynamic body movements done rhythmically to music. Muscular strength and stretching are incorporated into the class.
Prerequisite: **None**

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.
Prerequisite: **None**

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.
Prerequisite: **None**

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.
Prerequisite: **None**

PE 146 Jazz Dance (1)
HEALTH SCIENCES
Basic and intermediate jazz dance including vocabulary, steps, body positions, general body coordination and fitness.
Prerequisite: **None**

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.
Prerequisite: **None**

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.
Prerequisite: **None**

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.
Prerequisite: **None**

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.
Prerequisite: **None**

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.

Prerequisite: **None**

PE 156 Sailing (1-2)
HEALTH SCIENCES
Lecture and practical demonstration to introduce students to sailing. Theory, techniques, rules and safety procedures of sailboat handling will be emphasized.
Prerequisite: **None**

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
Prerequisite: **None**

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.
Prerequisite: **None**

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

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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.
Prerequisite: **None**

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 strengthen all major muscles using poses from different styles of yoga and Pilates. This class is appropriate for all levels of fitness.
Prerequisite: **None**

PE 167 Introduction to Kayaking (1-1)
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. Students will be required to have or purchase water shoes and synthetic long sleeve top. Class size limited to eight students.
Prerequisite: **None**

PE 169 Canoeing (1)
HEALTH SCIENCES
Basics of safe and effective canoe use.
Prerequisite: **None**

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.
Prerequisite: **None**

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.
Prerequisite: **None**

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.
Prerequisite: **None**

PE 205 Basic First Aid (1)
HEALTH SCIENCES
Meets the first aid requirements of the Department of Labor and Industries.
Prerequisite: **None**

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.
Prerequisite: **None**

PE 234 Athletic Conditioning (1)
HEALTH SCIENCES
Skagit Valley College Athletes will be instructed in best practice conditioning exercises for their particular sport.
Prerequisite: **Instructor Permission**

PE 235 Athletic Techniques (1)
HEALTH SCIENCES
Skagit Valley College 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**

PE 299 Learning into Action (1-15)
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.
Prerequisite: **None**

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.
Prerequisite: **None**

PHIL 115 Introduction to Learning and Knowing (5)
ARTS & COMMUNICATION
An integrated course in which we examine how we acquire knowledge through the disciplinary perspectives of both philosophy and psychology.
Prerequisite: **Completed ENGL& 101 with a grade of 2.0 or higher.**

PHIL 120 Formal Logic (5)
ARTS & COMMUNICATION
A rigorous course in the calculus of sentence relations and predications.
Prerequisite: **Completed ENGL& 101 with a grade of 2.0 or higher.**

PHIL 140 Philosophy of Religion (5)
ARTS & COMMUNICATION
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: **Completed ENGL& 101 with a grade of 2.0 or higher.**

PHIL 215 Introduction to Ethics (5)
ARTS & COMMUNICATION
Develops the ideas of humans as moral agents and critically considers various interpretations of the ideals and standards of moral conduct.
Prerequisite: **Completed ENGL& 101 with a grade of 2.0 or higher.**

PHIL 291 Ethics and Policy in Healthcare (5)
ARTS & COMMUNICATION
Policy and Ethics in Healthcare is a required course for the Nursing Department Direct Transfer Agreement. The foundational principles

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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 and concurrent enrollment in NURS 291, 292.**

PHIL 294 Ethics and Policy in Healthcare (part 1) (2.5)
ARTS & COMMUNICATION
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 1 of two-part course.)
Prerequisite: **NURS 284, 285, 287, 288 and concurrent enrollment in NURS 294.**

PHIL 295 Philosophy Integrative Experience Seminar (2)
ARTS & COMMUNICATION
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)
ARTS & COMMUNICATION
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 284, 285, 287, 288 and PHIL 294, and concurrent enrollment in NURS 297.**

PHIL 299 Learning into Action (1-15)
ARTS & COMMUNICATION
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 440 Business Ethics (5)
ARTS & COMMUNICATION
Examine the role of ethics and social responsibility in business. Theoretical concepts in business ethics will be applied to real-world situations based on challenges managers face. Included is an emphasis on personal outlooks, contemporary trends, and corporate responsibilities with respect to ethical, legal, economic, regulatory conditions, and the needs of stakeholders in the marketplace. Case studies/simulations will be used to explore real-world ethical and social responsibility situations.
Prerequisite: **Admission to BASAM program and BASAM Director permission.**

PHIL& 101 Intro to Philosophy (5)
ARTS & COMMUNICATION
A study of the fundamental questions of philosophy, including human nature, ethics, justice, political theory, and the nature of knowledge.
Prerequisite: **Appropriate placement or grade of 2.0 or higher in ENGL 099.**

PHIL& 106 Intro to Logic (5)
ARTS & COMMUNICATION
Introduces the study of reasoning, including the ability to recognize, analyze, criticize and construct the main types of argument and proof.
Prerequisite: **Appropriate placement or grade of 2.0 or higher in ENGL 099.**

PHYS 111 Matter and Energy in Physics (5)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
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: **Appropriate placement or grade of 2.0 or higher in ENGL 099 and MATH 98.**

PHYS 299 Learning into Action (1-15)
SCIENCE, TECHNOLOGY, ENGINEERING, & 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**

PHYS 199 Cooperative Education (1-15)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
Supervised work experience in the field. Includes a weekly seminar. Instructor permission required.
Prerequisite: **None**

PHYS 295 Physics Integrative Experience Seminar (2)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
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& 100 Physics Non-Sci Majors (5)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
A survey of the major ideas of physics for non-science majors including classical and modern topics.
Prerequisite: **Appropriate placement or grade of 2.0 or higher in ENGL 099 and MATH 98.**

PHYS& 124 General Physics Lab I (1)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
Algebra-based physics lab course to accompany PHYS& 134. The subject matter is mechanics with emphasis on Newton's laws, energy, momentum, and rotational motion.
Prerequisite: **Required concurrent enrollment in PHYS& 134.**

PHYS& 125 General Physics Lab II (1)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
Algebra-based physics lab course to accompany PHYS& 135. Emphasis on atomic theory of gases, heat, waves, sound and geometric optics.
Prerequisite: **Required concurrent enrollment in PHYS& 135.**

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PHYS& 126 General Physics Lab III (1)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
Algebra-based physics lab course to accompany PHYS& 136. Emphasis on electricity, magnetism, and the electromagnetic spectrum.
Prerequisite: **Required concurrent enrollment in PHYS& 136.**

PHYS& 134 General Physics I (5)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
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 GPA of 2.0 or higher. Concurrent enrollment in PHYS& 124 required. Appropriate placement or GPA of 2.0 or higher in ENGL 099.**

PHYS& 135 General Physics II (5)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
Continuation of PHYS& 134 with emphasis on atomic theory of gases, heat, waves, sound and geometric optics.
Prerequisite: **Completed ENGL& 101 with a GPA of 2.0 or higher. MATH 099 with a GPA of 2.0 or higher. Concurrent enrollment in PHYS& 125 required.**

PHYS& 136 General Physics III (5)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
A continuation of PHYS& 135 with emphasis on electricity, magnetism, and the electromagnetic spectrum.
Prerequisite: **Completed ENGL& 101 with a GPA of 2.0 or higher. MATH 099 with a GPA of 2.0 or higher. Concurrent enrollment in PHYS& 126 required.**

PHYS& 231 Engineering Phys Lab I (1)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
Lab to accompany PHYS& 241. Topics include statics, kinematics, and dynamics of particles and systems of particles.
Prerequisite: **Concurrent enrollment in PHYS& 241 required.**

PHYS& 232 Engineering Phys Lab II (1)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
Lab to accompany PHYS& 242. Topics include fluids, waves, heat and thermodynamics, and geometric and wave optics.
Prerequisite: **Concurrent enrollment in PHYS& 242 required.**

PHYS& 233 Engineering Phys Lab III (1)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
Lab to accompany PHYS& 243. Topics include electricity, magnetism, and the electromagnetic spectrum.
Prerequisite: **Concurrent enrollment in PHYS& 243 required.**

PHYS& 241 Engineering Physics I (5)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
Calculus-based course in introductory mechanics emphasizing the statics, kinematics, and dynamics of particles and systems of particles.
Prerequisite: **Appropriate placement or grade of 2.0 or higher in ENGL 099. MATH& 151 (may be taken concurrently). Concurrent enrollment in PHYS& 231 required.**

PHYS& 242 Engineering Physics II (5)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
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: **Completed ENGL& 101 with a grade of 2.0 or higher or concurrent enrollment in ENGL101. PHYS& 241 with a grade of 2.0 or higher and MATH& 152 (may be taken concurrently). Concurrent enrollment in PHYS& 232 required.**

PHYS& 243 Engineering Physics III (5)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
Continuation of PHYS& 242 with emphasis on electricity, magnetism, and the electromagnetic spectrum.
Prerequisite: **Completed ENGL& 101 with a grade of 2.0 or higher. PHYS& 241 with a grade of 2.0 or higher and MATH& 152 (may be taken concurrently). Concurrent enrollment in PHYS& 233 required.**

POLS 131 Seminar in Educ Government I (1)
PUBLIC SERVICE & SOCIAL SCIENCE
For students who are active members of the Associated Students of Skagit Valley College.
Prerequisite: **None**

POLS 132 Seminar in Educ Government II (1)
PUBLIC SERVICE & SOCIAL SCIENCE
Continuation of POLS 131.
Prerequisite: **None**

POLS 200 Introduction to Law (5)
PUBLIC SERVICE & SOCIAL SCIENCE
Introduction to the origins, development, structure, institutions and processes of the US 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: **Appropriate placement or grade of 2.0 or higher in ENGL 099.**

POLS 201 Comparative Government: D (5)
PUBLIC SERVICE & SOCIAL SCIENCE
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: **Appropriate placement or grade of 2.0 or higher in ENGL 099.**

POLS 204 State and Local Government (5)
PUBLIC SERVICE & SOCIAL SCIENCE
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: **Appropriate placement or grade of 2.0 or higher in ENGL 099.**

POLS 295 Political Science Integrative Experience Seminar (2)
PUBLIC SERVICE & SOCIAL SCIENCE
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**

POLS 299 Learning into Action (1-15)
PUBLIC SERVICE & SOCIAL SCIENCE
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 Intro Political Science (5)
PUBLIC SERVICE & SOCIAL SCIENCE
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: **Appropriate placement or grade of 2.0 or higher in ENGL 099.**

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POLS& 202 American Government: D (5)
PUBLIC SERVICE & SOCIAL SCIENCE
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: **Appropriate placement or grade of 2.0 or higher in ENGL 099.**

POLS& 203 International Relations: D (5)
PUBLIC SERVICE & SOCIAL SCIENCE
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: **Appropriate placement or grade of 2.0 or higher in ENGL 099.**

PSYC 115 Knowing and Learning (5)
PUBLIC SERVICE & SOCIAL SCIENCE
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: **Completed ENGL& 101 with a grade of 2.0 or higher.**

PSYC 202 Biopsychology (5)
PUBLIC SERVICE & SOCIAL SCIENCE
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: **grade of C or better in PSYC& 100.**

PSYC 205 Social Psychology (5)
PUBLIC SERVICE & SOCIAL SCIENCE
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: **grade of C or better in PSYC& 100.**

PSYC 210 Learning and Teaching (5)
PUBLIC SERVICE & SOCIAL SCIENCE
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: **grade of C or better in PSYC& 100.**

PSYC 225 Personality (5)
PUBLIC SERVICE & SOCIAL SCIENCE
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: **grade of C or better in PSYC& 100.**

PSYC 295 Psychology Integrative Experience Seminar (2)
PUBLIC SERVICE & SOCIAL SCIENCE
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: **grade of C or better in PSYC& 100.**

PSYC 299 Learning Into Action (1-15)
PUBLIC SERVICE & SOCIAL SCIENCE
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: **grade of C or better in PSYC& 100.**

PSYC 412 Leadership & Organizational Behavior (5)
PUBLIC SERVICE & SOCIAL SCIENCE
Focuses on building leadership and inter-personal managerial skills and managing relationships in organizations. Gain practical experience in defining your leadership style, managing teams, resolving conflict, and building professional and effective relationships. Special emphasis will be placed on managing difficult behavioral human situations (whether among employees within the organization or with external stakeholders). Explore the unique leadership challenges facing under-represented populations in business (e.g., women, ethnically diverse people, and veterans).
Prerequisite: **Admission to BASAM program and BASAM Director permission.**

PSYC& 100 General Psychology (5)
PUBLIC SERVICE & SOCIAL SCIENCE
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: **Appropriate placement or grade of 2.0 or higher in ENGL 099.**

PSYC& 180 Human Sexuality (5)
PUBLIC SERVICE & SOCIAL SCIENCE
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: **Appropriate placement or grade of 2.0 or higher in ENGL 099.**

PSYC& 200 Lifespan Psychology (5)
PUBLIC SERVICE & SOCIAL SCIENCE
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: **Completed ENGL& 101 with a grade of 2.0 or higher. PSYC& 100 with a grade of 2.0 or higher.**

PSYC& 220 Abnormal Psychology (5)
PUBLIC SERVICE & SOCIAL SCIENCE
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: **Completed ENGL& 101 with a grade of 2.0 or higher. PSYC& 100 with a grade of 2.0 or higher.**

QSCI 318 Quantitative Analysis of the Environment (5)
AREAS OF STUDY
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, Admission to BASEC or Department Chair permission.**

QSCI 408 Biometry & Ecological Sampling (5)
AREAS OF STUDY
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.**

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READ 090 Phonics (2)
AREAS OF STUDY
Sounds of letters and letter combinations applied to reading and spelling syllables and words.
Prerequisite: **None**

READ 096 Reading Foundations (1-5)
AREAS OF STUDY
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)
AREAS OF STUDY
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)
AREAS OF STUDY
Emphasizes vocabulary-building through advanced use of context clues, roots/affixes, and memory strategies.
Prerequisite: **None**

READ 107 Effective College Reading (1-3)
AREAS OF STUDY
For average and better readers to develop strategies to improve comprehension and retention, critical analysis, vocabulary, and reading rate flexibility.
Prerequisite: **None**

SOC 112 Comparative Ethnic Relations (5)
PUBLIC SERVICE & SOCIAL SCIENCE
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: **Completed ENGL& 101 with a grade of 2.0 or higher.**

SOC 160 Substance Use & Abuse (5)
PUBLIC SERVICE & SOCIAL SCIENCE
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)
PUBLIC SERVICE & SOCIAL SCIENCE
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, 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 C grade (2.0) or higher and concurrent enrollment in NURS 191, 192.**

SOC 204 Intro to Stratification and Inequality in America: D (5)
PUBLIC SERVICE & SOCIAL SCIENCE
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: **Completed ENGL& 101 with a grade of 2.0 or higher.**

SOC 206 Sociology of the Family: D (5)
PUBLIC SERVICE & SOCIAL SCIENCE
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: **Completed ENGL& 101 with a grade of 2.0 or higher.**

SOC 295 Sociology Integrative Experience Seminar (2)
PUBLIC SERVICE & SOCIAL SCIENCE
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)
PUBLIC SERVICE & SOCIAL SCIENCE
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 113 Sociology of Community Service (5)
PUBLIC SERVICE & SOCIAL SCIENCE
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 420 Career Management and Social Capital (5)
PUBLIC SERVICE & SOCIAL SCIENCE
Explore the concept and construct of social capital as it relates to professional and vocational aspirations. Using a structured, transferable approach, students will prepare a portfolio of career development materials such as resumes, biographies, personal branding, marketing plans and effective social media presence. Students will also execute a plan to identify, build and sustain their personal social capital with the objective of securing an internship.
Prerequisite: **Admission to BASAM program and BASAM Director permission.**

SOC& 101 Intro to Sociology: D (5)
PUBLIC SERVICE & SOCIAL SCIENCE
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: **Completed ENGL& 101 with a grade of 2.0 or higher.**

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SOC& 201 Social Problems (5)
PUBLIC SERVICE & SOCIAL SCIENCE
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: **Completed ENGL& 101 with a grade of 2.0 or higher.**

SOSC 100 Global Issues/Social Science (5)
AREAS OF STUDY
Contemporary global issues such as population, food, energy, human rights, military arms and security, and environment.
Prerequisite: **Appropriate placement or grade of 2.0 or higher in ENGL 099.**

SOSC 110 Gender Roles & Social Structure (5)
AREAS OF STUDY
Examines gender roles and socialization process within the social institution of work, family, the labor force, political organizations, religion, education, economics, and the law, with a comparison of cross cultural study of gender role differentiation presenting the historical implication.
Prerequisite: **Appropriate placement or grade of 2.0 or higher in ENGL 099.**

SOSC 111 Adults in Transition (1-3)
PUBLIC SERVICE & SOCIAL SCIENCE
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.
Prerequisite: **None**

SOSC 113 Job Search (1)
PUBLIC SERVICE & SOCIAL SCIENCE
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.
Prerequisite: **None**

SOSC 120 Co-op Education Seminar (1)
PUBLIC SERVICE & SOCIAL SCIENCE
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.
Prerequisite: **None**

SOSC 125 Employer/Employee Roles & Perspectives (2)
PUBLIC SERVICE & SOCIAL SCIENCE
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.
Prerequisite: **None**

SOSC 130 Leadership (2)
PUBLIC SERVICE & SOCIAL SCIENCE
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.
Prerequisite: **None**

SOSC 131 College Governance (1)
PUBLIC SERVICE & SOCIAL SCIENCE
Learning about group dynamics while participating in the Associated Students of Skagit Valley College governance process.
Prerequisite: **open to Student Government participants only.**

SOSC 132 Student Leadership Seminar (1-2)
PUBLIC SERVICE & SOCIAL SCIENCE
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.
Prerequisite: **None**

SOSC 190 Social History of Work (1-3)
AREAS OF STUDY
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: **Appropriate placement or grade of 2.0 or higher in ENGL 099.**

SOSC 299 Learning Into Action (1-15)
PUBLIC SERVICE & SOCIAL SCIENCE
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**

SPAN 111 Spanish for Health Care Professionals I (5)
ARTS & COMMUNICATION
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)
ARTS & COMMUNICATION
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 or equivalent**

SPAN 299 Learning Into Action (1-15)
ARTS & COMMUNICATION
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**

SPAN& 121 Spanish I: D (5)
ARTS & COMMUNICATION
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.**

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SPAN& 122 Spanish II: D (5)
ARTS & COMMUNICATION
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 grade of C or better or completion of one year of High School Spanish with a grade of C or better.**

SPAN& 123 Spanish III: D (5)
ARTS & COMMUNICATION
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 grade of C or better or completion of two years of High School Spanish with a grade of C or better.**

SPAN& 221 Spanish IV: D (5)
ARTS & COMMUNICATION
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 grade of C or better or successful completion of two to three years of high school Spanish.**

SPAN& 222 Spanish V: D (5)
ARTS & COMMUNICATION
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 grade of C or better or permission of instructor.**

SPAN& 223 Spanish VI: D (5)
ARTS & COMMUNICATION
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 grade of C or better or permission of instructor.**

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 & TRANSPORTATION
Introduction to computer-aided design (CAD) and graphics technology. Covers the basic techniques and standard practices of CAD. Introduces concepts of digital sketches, 2-D drawing and file management. Covers the fundamental concepts 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 commands.**

TECD 104 Basic Computer-Aided Design (3)
INDUSTRIAL TECHNOLOGY & TRANSPORTATION
Sequential study of computer-aided design (CAD) and graphics technology. Introductory study of 3-D modeling practices. Introduces drafting operations and the procedures used to create and edit CAD models. Topics include sketching, basic commands, sketch relations, features, dimensioning, and basic assembly modeling.
Prerequisite: **TECD 103.**

TECD 105 Computer-Aided Design III (4)
INDUSTRIAL TECHNOLOGY & TRANSPORTATION
This study of 3-D modeling practices includes assemblies and Geometric Dimensioning and Tolerances. Topics include materials, derived parts, part patterning, constraints and reference geometry.
Prerequisite: **TECD 104.**

TECD 107 Computer-Aided Design IV (5)
INDUSTRIAL TECHNOLOGY & TRANSPORTATION
Intermediate study of 3-D modeling tools. In depth study of 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.**

TECD 220 Computer-Aided Design Studio (5)
INDUSTRIAL TECHNOLOGY & 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 prototype product being developed for chosen trade specialty.
Prerequisite: **TECD 107.**

VETA 101 Introduction to Veterinary Technology (2)
HEALTH SCIENCES
Introduction to the veterinary assistant profession. Learn about the history of veterinary technology, career opportunities, education requirements and the role and responsibilities of the veterinary assistant as part of the veterinary health team. WA State laws, regulations and medical ethics that govern veterinary operations and their employees will be discussed. Overview of husbandry terms for selected species including breed identification.
Prerequisite: **None**

VETA 103 Veterinary Medical Terminology (2)
HEALTH SCIENCES
Overview of veterinary-related medical terminology covering terms of anatomical topography, organ systems and disease, nursing records, pharmaceuticals, emergency and surgical procedures, and common patient descriptions.
Prerequisite: **None**

VETA 105 Veterinary Anatomy & Physiology I (2)
HEALTH SCIENCES
Basic overview of cross species anatomy and physiology as it relates to veterinary science. Covers terminology as it relates to the anatomical topography and function of the basic cell structure of animals, including an overview of skeletal anatomy and physiology. Introduction to all the major animal body systems including the integument and muscular systems, the respiratory and cardiovascular systems, the hemolymphatic, gastrointestinal, endocrine, reproductive, urinary and nervous systems.
Prerequisite: **None**

VETA 107 Veterinary Nursing/Patient Management I (3)
HEALTH SCIENCES
Learn how to safely and effectively obtain patient data that will allow accurate evaluation of the patient with minimum stress and maximum safety. Introduction to animal restraint, record charting, interview a client, pharmacology, and physical examination. Students will complete a Healthcare Provider CPR certification.
Prerequisite: **None**

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VETA 108 Veterinary Nursing/Patient Management II (2)
HEALTH SCIENCES
Continuation of VETA 107. Continue to practice accurate evaluation of the patient with minimum stress and maximum safety. Introduction to pharmacology, anesthesiology, surgical patient management, including pre-operative techniques, aseptic technique, resuscitation, and physical examination. Students will complete a 7-hour HIV-AIDS certification and work individually and in small groups to develop skills associated with using medical instruments and conducting surgical procedures.
Prerequisite: **VETA 107.**

VETA 109 Veterinary Math (2)
HEALTH SCIENCES
Covers the necessary concepts involved in mathematics used in veterinary medicine. Includes dosage calculations, metric conversions, percentages, ratios, medical terminology, medication categories and medical abbreviations. Review the registration for Veterinary Medical Clerk requirements.
Prerequisite: **None**

VETA 110 Veterinary Assistant Practicum I (2)
HEALTH SCIENCES
Through field trips, visit various veterinary work settings to explore typical work assignments, analyze work climates, expand and observe possible future work opportunities. In the classroom and laboratory, further develop skills and knowledge through hands-on practice of patient management strategies, surgical techniques, and laboratory procedures. Practicum will continue in VETA 113.
Prerequisite: **None**

VETA 111 Veterinary CLINICAL Procedures (4)
HEALTH SCIENCES
Introduction to veterinary clinical procedures related to parasitology, hematology, urinalysis, and diagnostic imaging. Covers laboratory safety, zoonosis, the role of veterinary assistants in the veterinary clinical laboratory, proper use and care of microscopes, and working individually and in small groups to develop laboratory skills.
Prerequisite: **VETA 103 and 105.**

VETA 112 Veterinary Anatomy and Physiology II (3)
HEALTH SCIENCES
Continuation of VETA 105. Students will continue studying animal anatomy and physiology as it relates to selected species including diseases that affect the integument and muscular systems, the respiratory and cardiovascular systems, the hemolymphatic, gastrointestinal, endocrine, reproductive, urinary and nervous systems. Canine, feline, equine and avian anatomy and physiology will be reviewed.
Prerequisite: **VETA 105**

VETA 113 Veterinary Assistant Practicum II (2)
HEALTH SCIENCES
Continuation of VETA 110. Introduction to the handling and care of horses. Focuses on performing basic handling, restraint and nursing skills with an emphasis on equine behavior. Apply principles learned about equine health care. Students will participate in a two-day, off site, workshop led by local equine industry experts.
Prerequisite: **VETA 110.**

VETA 114 Veterinary Business Essentials (2)
HEALTH SCIENCES
Learn the business aspects of the veterinary practice as it relates to the role of Veterinary Assistants in the clinic environment. Leadership skills, communication skills, business etiquette, and stress management will be discussed. Covers medical records management, scheduling clients, pet insurance, taking inventory and the basics of financial accounting as it relates to client billing.
Prerequisite: **VETA 101 and 103.**

VETA 115 Veterinary Assistant Practicum III (2)
HEALTH SCIENCES
Continuation of VETA 113. Focuses on normal canine, feline, equine and avian behavior. Apply principles of operant conditioning and positive reinforcement methods for animal training. Topics include causes of behavioral problems in companion animals, stages of development in young animals, socialization methods, crate training, and elimination training methods for dogs and cats.
Prerequisite: **VETA 113**

VETA 199 Cooperative Education Experience (2)
HEALTH SCIENCES
Supervised work experience in the field. Includes a weekly seminar. Instructor permission required.
Prerequisite: **Instructor permission required.**

VETA 121 Veterinary Assistant I (9)
HEALTH SCIENCES
Learn about the history of veterinary technology, career opportunities, education requirements and the role and responsibilities of the veterinary assistant as part of the veterinary health team. Learn how to safely and effectively obtain patient data that will allow accurate evaluation of the patient with minimum stress and maximum safety. Introduction to animal restraint, record charting, interviewing a client, pharmacology, and physical examination. Topics include the necessary concepts involved in mathematics used in veterinary medicine including dosage calculations, metric conversions, percentages, ratios, medical terminology, medication categories and medical abbreviations. Students will complete a Healthcare Provider CPR certification.
Prerequisite: **None.**

VETA 122 Veterinary Assistant II (10)
HEALTH SCIENCES
Overview of veterinary-related medical terminology as it relates to the anatomical topography and function of the basic cell structure of animals, including an overview of skeletal anatomy and physiology. Introduction to all the major animal body systems including the integument and muscular systems, the respiratory and cardiovascular systems, the hemolymphatic, gastrointestinal, endocrine, reproductive, urinary and nervous systems. Includes an introduction to pharmacology, anesthesiology, surgical patient management, including pre-operative techniques, aseptic technique, resuscitation, and physical examination including veterinary clinical procedures related to parasitology, hematology, urinalysis, and diagnostic imaging. Introduction to the handling and care of horses and applying principles learned about equine health care. Students will complete a 7-hour HIV-AIDS certification.
Prerequisite: **VETA 121.**

VETA 123 Veterinary Assistant III (10)
HEALTH SCIENCES
Continuation of veterinary clinical procedures related to parasitology, hematology, urinalysis, and diagnostic imaging. Includes the study of animal anatomy and physiology as it relates to selected species as well as diseases that affect the integument and muscular systems, the respiratory and cardiovascular systems, the hemolymphatic, gastrointestinal, endocrine, reproductive, urinary and nervous systems. Learn the business aspects of the veterinary practice as it relates to the role of Veterinary Assistants in the clinic environment. Focus on medical records management, scheduling clients, pet insurance, taking inventory and the basics of financial accounting as it relates to client billing. 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.
Prerequisite: **VETA 122.**

WMATH 100 Professional Technical Applied Math (5)
SCIENCE, TECHNOLOGY, ENGINEERING, & MATH
This course is non-transferable and for professional/technical students only. Basic mathematics used in several occupational clusters.

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Estimation, effective calculator usage and practical problem solving techniques explored. Opportunities for variable student pacing may be provided.
Prerequisite: **MATH 96 with a grade of C or better, or appropriate test score.**

WT 111 Introduction to Shielded Metal Arc Welding (5)
INDUSTRIAL TECHNOLOGY & 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 or concurrent enrollment.**

WT 112 Introduction to Wirefeed Welding (5)
INDUSTRIAL TECHNOLOGY & 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, 114, and 211.**

WT 113 Introduction to Inert Gas and Aluminum Welding (5)
INDUSTRIAL TECHNOLOGY & 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, 114, and 211.**

WT 114 Thermal Cutting Processes (3)
INDUSTRIAL TECHNOLOGY & 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 or concurrent enrollment.**

WT 116 Introduction to Welding Metallurgy (5)
INDUSTRIAL TECHNOLOGY & 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 221. WMATH 100 or concurrent enrollment.**

WT 117 Hand and Power Tools (3)
INDUSTRIAL TECHNOLOGY & 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 131 Shielded Metal Arc Welding for Beginners (2)
INDUSTRIAL TECHNOLOGY & 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 & 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 199 Cooperative Education Experience (1-15)
INDUSTRIAL TECHNOLOGY & TRANSPORTATION
Supervised work experience in the field. Includes a weekly seminar.
Prerequisite: **Instructor permission required.**

WT 200 Weld Skill Upgrading (1-16)
INDUSTRIAL TECHNOLOGY & 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 & 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 or concurrent enrollment.**

WT 212 Intermediate Wirefeed Welding (9)
INDUSTRIAL TECHNOLOGY & 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, 221 and MANF 140.**

WT 213 Intermediate Inert Gas and Aluminum Welding (9)
INDUSTRIAL TECHNOLOGY & 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.**

WT 221 Shielded Metal Arc Welding Applications and Certification (9)
INDUSTRIAL TECHNOLOGY & 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, 114, and 211.**

WT 222 Wirefeed Welding Applications and Certification (9)
INDUSTRIAL TECHNOLOGY & 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.**

WT 223 Inert Gas and Aluminum Welding Applications & Certification (9)
INDUSTRIAL TECHNOLOGY & 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.**

WT 224 Shield Metal Arc Welding Certification (1)
INDUSTRIAL TECHNOLOGY & TRANSPORTATION
Principles and practices relating to weld procedure qualification and welder certification. Unlimited thickness, all-position SMAW welder qualification test on carbon steel in conformity with AWS and WABO standards.
Prerequisite: **2 credits from any WT course or Department Chair permission.**

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WT 225 Flux-Cored Arc Welding Certification (1)
INDUSTRIAL TECHNOLOGY & TRANSPORTATION
Principles and practices relating to weld procedure qualification and welder certification. Unlimited thickness, all-position FCAW welder qualification test on carbon steel in conformity with AWS and WABO standards.
Prerequisite: **2 credits from any WT course or Department Chair permission.**

WT 226 Gas Metal Arc Welding Certification (1)
INDUSTRIAL TECHNOLOGY & TRANSPORTATION
Principles and practices relating to weld procedure qualification and welder certification. Limited thickness, all-position GMAW welder qualification test on carbon steel in conformity with AWS and WABO standards.
Prerequisite: **2 credits from any WT course or Department Chair permission.**

WT 227 Gas Tungsten Arc Welding Certification (1)
INDUSTRIAL TECHNOLOGY & TRANSPORTATION
Principles and practices relating to weld procedure qualification and welder certification. Limited thickness, all-position GTAW welder qualification test on carbon steel in conformity with AWS and WABO standards.
Prerequisite: **2 credits from any WT course or Department Chair permission.**

WT 231 Gas Metal Arc Welding for Beginners (2)
INDUSTRIAL TECHNOLOGY & 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 & TRANSPORTATION
Skill upgrading in the areas of stick, wire, or tig welding for experienced welders. Course content to be arranged with instructor.
Prerequisite: **None**

WT 118 Welding Joint Design and Welding Symbols (3)
INDUSTRIAL TECHNOLOGY & 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.**

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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.

Skagit Valley College 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 website for more information.

Fine & 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, Skagit Valley College insignia items and school supplies. 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 online registration process.

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

Clubs & 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, 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 executing programming initiatives.

All clubs and student organizations must function under the sanction of the Associated Students of Skagit Valley College and are chartered by the ASSVC. A current list of SVC's active clubs and student organizations is available in the Student Handbook and on our website. The following are links to the Mount Vernon and Whidbey Island student clubs' web pages:

Wellness Resource Center & 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), is a food pantry that provides for SVC students experiencing food insecurity. Students can visit the pantry once a day if needed

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and is intended to supplement other food support. 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 contacts 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 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 Skagit Valley College 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
  Board of Trustees Assessments & Reports
  Learning Outcomes Assessment - Institutional Research

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.

Regional Culture

Skagit Valley College 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

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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 & 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 service and if interested in participating please contact the Student Life Office at Whidbey Island Campus.

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11 Student Rights & Respondsibilities

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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 (e.g., 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

Skagit Valley College 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.

Equal Opportunity & 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 & 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, the following information is listed as Directory Informationand is not confidential:

- Name
- Telephone Listing
- Home Town/City
- Major Field of Study
- Photograph
- Certificates, Degrees, Honors, and Awards
- Participation in officially recognized activities
- Address
- Email Address
- Enrollment Status
- Most recent educational Institution attended
- Dates of Attendance
- Athletes: Weight and Height
- Athletics-related information

Except as otherwise indicated in item 5200 of the College Policies and Procedures Manual and Chapter 132D-130 WAC, the College District will not provide information contained in student education records in response to inquiries from either within or outside the college unless the expressed 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 or the U.S. Department of Education website for more detailed information.

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Inter-College Transfer & Articulation Among Washington Public Colleges & Universities

Student Rights & 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 & 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 shall assume full responsibility for meeting the new requirements. Colleges shall 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 & 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
- 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.*

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***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.

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.

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 Skagit Valley College to prohibit discrimination of any kind, including sexual harassment, as defined by the Equal 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 he or she has been subject to sexual harassment or other forms of prohibited discrimination, he or she may contact a college ombudsperson through the Counseling office at Mount Vernon Campus and the Student Services office at Whidbey Island Campus (360.679.5319). Procedures for handling such grievances are published in Chapter 132D-305-005 of the Washington Administrative Code (WAC). Click here for additional resources.

Student Absence for Reasons of Faith or Conscience

Skagit Valley College 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

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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: https://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 & 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 & 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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