

The background of the entire page is a dark grey, vertically-grained wood texture. At the top, there are eight vertical drips of paint in the colors of the rainbow: yellow, light blue, red, white, green, purple, orange, and pink. These drips flow downwards, partially obscuring the top of the main title.

WALLA WALLA

COMMUNITY COLLEGE

Catalog
2012-13

2012-2013 Academic Calendar

Summer 2012

Classes Begin..... June 18
Independence Day Holiday July 4
Last Day to Drop Classes..... July 16
Classes End August 2
College closed June 22, 29 July 6, 13, 20, 27
Aug 3, 10, 17, 24, 31

Fall 2012

Tuition Due September 14
Classes Begin..... September 24
Winter Quarter Eschedule Available..... October 29
Winter Advising Day November 7
Last Day to Drop Classes..... November 9
Veterans Day Holiday November 12
Thanksgiving Holiday November 19-23
Winter Quarter Registration Begins..... December 10-12
Classes End December 12
Sustainability Day..... December 24

Winter 2013

Tuition Due December 21, 2012
Classes Begin..... January 2
Martin Luther King Holiday January 21
Spring Quarter Eschedule Available..... February 11
Last Day to Drop Classes..... February 15
President's Day Holiday February 18
Spring Quarter Advising Day February 27
Spring Quarter Registration Begins..... March 4
Winter Quarter Finals March 18-20
Spring Break March 20-29
Tuition Due March 22

Spring 2013

Classes Begin..... April 1
Summer & Fall Eschedules Available..... April 29
Advising Day May 15
Last Day to Drop Classes..... May 17
Summer/Fall Quarter Registration Begins..... May 20
Memorial Day Holiday May 27
Summer Quarter Registration Begins June 4
Summer Quarter Finals June 12 - 14
The College is closed on Holidays and Sustainability Days



Welcome to Walla Walla Community College. We look forward to having you as a member of our student body this year. WWCC's selection by the Aspen Institute as one of the top five community and technical colleges in the nation should give you confidence that we will

help you complete your studies and then transfer or get a job related to your career interest.

This catalog contains important information that will help you make important decisions regarding your educational pursuit. We will work with you using it as a tool to discover options and develop your educational plan. You will find answers for many of your questions in this document.

Attending Walla Walla Community College is a smart investment. You will obtain a quality education at a reasonable price. Our commitment is to do everything we can to provide you with relevant learning opportunities, assist you along the way, and then celebrate your success at graduation. Please check out our website for further information. Our faculty and staff look forward to providing face-to-face professional assistance.

Sincerely,

Steven L. VanAusdile
President

Important Phone Numbers

Academic Education	527-4212
Admissions & Records (Class Info/Records/Transcripts)	527-4283
Toll Free	877-471-9292
Associated Student Body, Clk	758-1718
Associated Student Body, WW	527-4261
Athletics/H.P.E.R. (Dietrich Activity Center)	527-4306
Bookstore.	527-4255
Business Education (Accounting & Office Technology Programs)	527-4304
Business Services (Cashier, Payables/Receivables)	527-4201
Career and Employment Services	527-4373
Clarkston Center,	758-3339 • Toll Free: 877-471-6629
Cosmetology Salon (Mon. 1:00-5:00pm, Tues.-Fri., 8:30-12:30)	527-4227
Child Care, Clarkston (Tendercare)	758-1779
Child Care, Walla Walla (First Flight)	527-4544
Disabilities Services	527-4543
Extended & Distance Learning (WAOL)	527-4331
Financial Aid Office.	527-4301
Foundation (Institutional Development - Fund Raising, Scholarships)	527-4275
Health Sciences, Clk	758-1702
Health Sciences/Allied Health & Safety Ed	527-4589
Health Sciences/Nursing WW	527-4240
Human Resources	527-4603
High School Programs.	527-4324
Instruction Administration	527-4289
Library Services	527-4294
Payroll Office.	527-4276
President's Office	527-4274
Registration - Continuing Ed Classes Only	527-4443
Student Activities.	527-4261
Student Development Center/Advising.	527-4262
Student Development Center/GED Testing	527-4267
Student Services Administration	527-4300
Student Support Services (TRIO)	527-4258
T.D.D. (Hearing Impaired).	527-4412
Tickets/Box Office, Bookstore	527-4575
Transitional Studies	527-4304
Veterans Education Benefits	527-1864
Walla Walla Campus Info.	522-2500 • Toll Free: 877-992-9922
Workfirst	527-1865
Worker Retraining	527-4373
Workforce Education	527-4215
WSU Nursing @ WWCC	524-5152

Board of Trustees



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For the most current information see: www.wwcc.edu

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ABOUT WALLA WALLA COMMUNITY COLLEGE

About This Catalog

This catalog is published for informational purposes only. Every effort is made to ensure accuracy at the time of printing. However, Walla Walla Community College reserves the right to change any provision or requirement at any time. This catalog does not constitute a contract between Walla Walla Community College and prospective or enrolled students. **Up-to-date information can be found using the eCatalog on the WWCC website at www.wwcc.edu.**

Accreditation

Walla Walla Community College is accredited by the Northwest Commission on Colleges and Universities and certified by the Washington State Board for Community and Technical Colleges to offer courses in Academic Transfer Education, Workforce Education, Transitional Studies, and Extended Learning. In general, academic courses (100 level or higher) taken at this institution are transferable to most baccalaureate institutions. Walla Walla Community College is approved for veterans' benefits for students eligible under the United States Code.

Anyone may review the documents that describe the College's accreditation. These documents are found in the office of the Vice President of Instruction and on the College's website at www.wwcc.edu.

Commitment To Diversity

WHEREAS, Walla Walla Community College (WWCC) represents a community of people of diverse cultures, ages, sexual orientation, races, religions, abilities, ethnicities, and nationalities working and learning in an atmosphere of intellectual freedom and mutual respect; and

WHEREAS, WWCC remains committed to diversity in its students and employees that reflects the diversity of our communities; and

WHEREAS, WWCC is committed to offering courses and campus-wide activities that are inclusive and is committed to offering a diversity of perspectives and support for individual and cultural differences; and

WHEREAS, WWCC is committed to creating an educational environment that is welcoming to and encouraging of all students and community members; and

WHEREAS, WWCC is committed to helping students achieve their educational goals; and

WHEREAS, WWCC believes in the importance of providing role models among our employees that reflect the diversity of the community; and

WHEREAS, WWCC is committed to the vision of inclusiveness of all people in a climate of equality; and

WHEREAS, WWCC has no tolerance for discrimination or harassment; now

THEREFORE BE IT RESOLVED that WWCC reaffirms its commitment to initiatives that increase diversity and reflect the communities we serve; and

BE IT THEREFORE RESOLVED that WWCC strongly encourages all members of the college community to oppose acts of discriminatory behavior; and

BE IT FURTHER RESOLVED that WWCC encourages its employees and students actively to promote, develop, and value diversity on campus and in the community.

Accommodations for Students with Disabilities

WWCC complies with Section 504 of the Rehabilitation Act and the Americans with Disabilities Act (ADA) of 1990 as amended in 2008. Information regarding student accommodations may be obtained by contacting Claudia Angus, Coordinator of Disability Support Services, Walla Walla Community College, 500 Tausick Way, Walla Walla, WA 99362. Walla Walla campus: 509.527.4262, TDD 509.527.4412, claudia.angus@wwcc.edu; or Carol Bennett, Clarkston campus: 509.758.1718, TDD 509.758.1714, carol.bennett@wwcc.edu.

Equal Opportunity Statement

Walla Walla Community College District No. 20 (WWCC) is committed to provide equal opportunity and nondiscrimination for all educational and employment applicants as well as for its students and employed staff, without regard to race, color, creed, national origin, sex, sexual orientation, including gender expression/identity, genetic information, marital status, age (over 40), the presence of any sensory, mental, or physical disability, the use of trained guide dog or service animal by a person with a disability, or status as a Vietnam and/or disabled veteran, National Guard member or reservist in accordance with the Civil Rights Act of 1964, Title IX of the Education Amendments of 1972, the Federal Rehabilitation of 1973, the Americans with Disabilities Act of 1990 and any other applicable Federal and Washington State laws against discrimination. Overall Affirmative Action/Equal Opportunity program responsibility is assigned to Sherry Hartford, Human Resources Director (509)527-4382. The College's Title IX and Section 504 Officer is Wendy Samitore, (509)527-4300. Disabilities Support Services Coordinators are: Walla Walla Campus, Claudia Angus (509)527-4262; Clarkston Campus, Carol Bennett (509)758-1718; The College TDD number is 509-527-4412. It is considered to be the day-to-day obligation of each WWCC staff member to support this plan and to ensure that fair and equitable treatment is provided to all persons accessing the services of the College.

Student Right to Know and Safety Act

The security of all members of the campus community is of vital concern to Walla Walla Community College. In compliance with the Jeanne Clery Disclosure of Campus Security Policy and Crime Statistics Act, Walla Walla Community College information concerning campus safety, campus crime statistics for the most recent three-year period, graduation and transfer statistics, and other right-to-know information can be found online. This information can also be requested from the Office of Admissions and Records, Walla Walla Community College, 500 Tausick Way, Walla Walla, WA 99362.

ABOUT WALLA WALLA COMMUNITY COLLEGE

The College

Walla Walla Community College has rapidly grown from 850 students in 1967 to a present annual enrollment of over 12,000. Located on approximately 100 acres, the Walla Walla campus has justifiably become an educational and cultural center for Southeastern Washington.

Extending facilities and programs throughout its four-county district, Walla Walla Community College's Clarkston campus, located in Clarkston, Washington, is the hub of educational activity in Asotin and Garfield counties. Over 1300 full- and part-time students are enrolled annually. Persons interested in knowing more about the Clarkston Center should visit the Clarkston campus at 1470 Bridge Street, Clarkston, Washington, or call 509.758.3339 (toll-free 1.877.471.6629). Mailing address: Clarkston Center, P.O. Box 700, Clarkston, WA 99403.

Walla Walla Community College also provides educational programs and services to offenders of the Washington State Penitentiary and Coyote Ridge Corrections Center. Qualified offenders are eligible to apply for admission to developmental courses, as well as workforce programs and an AA degree. The College also provides student services in the areas of admissions, advisement and registration, counseling, testing, GED testing, and placement.

Vision and Values of the College

Vision

Walla Walla Community College will be one of the most innovative, professional and successful service-oriented, rural community colleges in the United States based on its performance in meeting student needs and public expectations.

Values

We, the Board of Trustees and Walla Walla Community College employees, value:

Learning Opportunities. We value learning and encourage students to acquire a rich and wide body of knowledge as well as a love of their chosen discipline. We provide an environment that fosters active learning and the support services necessary to help all students achieve their potential. Everything we do is focused on expanding student access, retention, and completion.

Integrity. Integrity is an essential component of the common bond within Walla Walla Community College. Efficient accomplishment of institutional goals is based on trust and mutual respect. We value honesty, fairness and ethical behavior.

Sense of Community. We strive to build community. We value a climate where all individuals feel accepted and meaningfully involved in a common cause. We recognize we are interdependent and demonstrate respect for one another.

Teamwork. We value partnerships within the College and with members of the communities we serve. We practice collaboration in plans, actions, and shared results.

Diversity. We oppose all barriers that separate people from opportunities: barriers of socioeconomic status, color, ethnicity, age, gender, sexual orientation, and inexperience

with the educational system. We embrace cultural diversity on our campus and in the communities we serve and strive to reflect the global community in our curricula. We seek to attract and nurture a diverse student body, faculty, and staff.

Innovation. Walla Walla Community College values, respects, and rewards the enthusiastic pursuit of new ideas, creative risk-taking, and entrepreneurial endeavors. Encouraging the pursuit of excellence and innovation will help the College prepare students and staff to shape the future. Creativity is one of our most important resources in the 21st Century.

Health and Humor. We value a healthy environment that encourages humor, creativity, and enjoyment of work. We promote health, wellness, and safety within the College and the communities we serve.

Personal and Professional Growth. We value the growth of both our students and staff. We believe that our own engagement in the learning process enhances our ability to enrich our personal lives, careers, and work in the global community.

Excellence. We value superior quality and are dedicated to continued improvement in all college programs and services. We practice an ongoing systematic planning and evaluation process to ensure that our programs and services are distinctive, relevant, responsive, and of the highest quality.

Sustainability. Walla Walla Community College values the well-being of our communities and is dedicated to protecting and restoring our resources. We will advocate for and demonstrate practices that promote economic and environmental sustainability.

WWCC Mission and Goals

Mission

Walla Walla Community College inspires students to discover their potential and to achieve their goals by providing diverse and challenging learning opportunities.

Goals

To accomplish this mission, our outcomes goals are to:

- Encourage and support life-long learning;
- Prepare students for transfer to four-year institutions;
- Prepare students for the 21st-century work force;
- Strengthen basic skills of students;
- Serve as a leading partner in strengthening communities.

Our process goals are to:

- Embrace relevant technologies;
- Provide services that support student learning;
- Hire, develop, and retain highly qualified personnel;
- Value and promote diversity and multiculturalism;
- Collaborate with public and private partners;
- Acquire and maintain high quality facilities;
- Pursue additional sources of funding;
- Implement an institutional sustainability plan.

Admissions & Registration

ADMISSIONS AND REGISTRATION

New Student Checklist

If you need guidance in any of these areas, call 509.527.4262 or stop by the Student Development Center for assistance.	
Step 1... Admissions	You may apply online or submit an application to the Office of Admissions & Records. Once your application has been processed, you will receive an acceptance letter that includes your Student ID number.
Step 2... Financial Assistance	For priority funding: Complete your FAFSA by March 1 of each year Provide supporting documents & WWCC data sheet by May 1 Scholarships, Grants, Loans & Work-study programs are available Financial Aid applications are accepted year-round, however funding priority will be given to students who meet early application deadlines noted above.
Step 3... Placement Testing/ Assessment	Complete placement testing for accurate assessment of your current skill levels. Placement testing schedules are available online or in the Student Development Center.
Step 4... New Student Orientation	For Fall Priority Registration, students must complete a New Student Orientation. Dates & sign up for orientation may be found online or at the Student Development Center. For subsequent quarters, New Student Information Sessions are also offered.
Step 5... Educational Advising & Career Exploration	Students are assigned an advisor based on their program of study and are required to meet quarterly for educational planning and to obtain their quarterly registration number. Career exploration services are available through the Career & Employment Services Center or the Student Development Center.
Step 6... Registration	Students may register online any time after their scheduled registration time. Registration times can be found on the WWCC website.
Step 7... Payment	Tuition & Fees are usually due 10 days prior to the first day of the quarter. An automatic Payment Plan is available online.

Step 1 Admissions

Walla Walla Community College is an open-door, higher education institution. All qualified individuals are accepted who are at least 18 years of age or are graduates of an accredited high school or have an equivalent certificate, i.e., General Educational Development (GED). Applicants under the age of 18 at the time of registration and who are not high school graduates must complete the Under-Age Admission Policy paperwork or be participating in an enrollment option program designed for high school students such as Running Start or Alternative Education Program.

Some programs have specific admission procedures and limited space; therefore, admission to the College does not guarantee availability of all programs or courses. Please review special admission procedures for workforce programs under entrance requirements for the specific program of interest. Under-age admission policy and procedures are available online.

Explanation of Resident Classification

A resident student is one who is a U.S. citizen and has met specific requirements demonstrating permanent residence in the State of Washington. Two elements are necessary to establish permanent residence. The first element requires physical presence on the location claimed as a permanent residence. The second element requires the intent to permanently reside in that location. These two elements can be established by a variety of factors and documentation which should be dated one year and one day prior to the commencement of the quarter for which the student is applying for residency status.

Students wishing to change their residency classification must complete a residency questionnaire and provide necessary documentation. Application for reclassification prior to registration into classes is preferred. Residency reclassification must take place within 30 calendar days of the first day of the quarter.

Special regulations may apply to some eligible non-citizens, Washington higher education employees, and to military personnel and their dependents stationed in the State of Washington. For further information contact the Office of Admissions and Records at 509.527.4282.

Student Responsibility to Register Under Proper Classification

The student is responsible to register under the proper classification. If there is any question regarding residency classification, the student (prior to or at the time of registration) must discuss it with the Registrar. Verification must be provided.

Official Change of Status/Reclassification as a Non-Resident

All persons classified as residents of Washington State shall be reclassified as non-resident students whenever there is a change in legal residence to another state.

Students who have been erroneously classified as residents will be reclassified as non-residents and be required to pay the difference between the resident and non-resident tuition and fees for those quarters in which they were erroneously classified.

Application for Reclassification

Students classified as non-residents will retain that status until the written application for reclassification has been approved. The Residence Questionnaire form is available online on the WWCC website. For more information call 509.527.4282.

Non-Resident, U.S. Citizens

Tuition for non-resident U.S. citizens is listed in the quarterly class schedule. Check online for the current quarterly class schedule for the most recent fee schedule.

For the most current information see: www.wwcc.edu

ADMISSIONS AND REGISTRATION

How to Enroll in Classes at WWCC	
STUDENT CATEGORY	ENROLLMENT PROCEDURES
New students working on a degree or certificate	<p>Submit application for Admission - FREE! Take Compass placement test</p> <p>Attend New Student Orientation for priority registration (Walla Walla campus only)</p> <p>Workforce Education programs: Contact the program of interest for specific Entrance Requirements and priority list procedures</p>
Students working on a degree or certificate, transferring credits from another college	<p>Submit application for Admission - FREE!</p> <p>Take Compass placement test (if necessary)</p> <p>Submit official transcripts from other colleges and complete a transcript evaluation form found in Office of admissions and Records, or online.</p> <p>Workforce Education programs: Contact the program of interest for specific Entrance Requirements and priority list procedures</p> <p>Attend New Student Orientation for priority registration (Walla Walla campus by appointment only)</p>
Students returning after an interruption in their enrollment at WWCC.	<p>Submit updated information to the Office of Admissions and Records including verification of program of study and contact information</p> <p>Take Compass placement test (if necessary)</p> <p>Attend New Student Orientation for priority registration (if necessary)</p>
Students in the Running Start Program	<p>Submit application for Admission - FREE!</p> <p>Take Compass placement test for eligibility determination</p> <p>Contact high school counselor for Quarterly Referral, Enrollment Verification Form, and transcript information</p> <p>Attend Running Start Student Orientation</p>
Students in the Alternative Education Program (AEP)	<p>Enrolled high school students contact WA-HI or Lincoln HS principal to obtain a referral; out-of-district applicants need an inter-district release from their school district superintendent.</p> <p>Non-enrolled and enrolled high school students contact WWCC Alternative Education Program Office for an AEP application.</p> <ol style="list-style-type: none"> 1. Submit application to Walla Walla Community College for Admission - FREE! 2. Take Compass placement test 3. Interview with the high school programs director. 4. Advise with an AEP advisor, register for classes, and attend a mandatory AEP orientation
Students under age 18 not enrolled in Running Start, AEP or other specific age appropriate coursework who do not have a high school diploma or equivalent.	<p>Download the Underage forms online or pick up at the Student Development Center</p> <p>Submit completed forms and supporting documentation to the Student Development Center</p> <p>Schedule appointment for student and parent/ guardian for an interview and advising with the High School Programs Director</p>
Students attending English as a Second Language (ESL), Adult Basic Education (ABE) or GED preparation courses	<p>Contact the Transitional Studies Department at 509.524.4808 for registration information</p>
Students planning to take Extended Learning, Quest, Community Education	<p>Extended Learning, Community Education & Quest students, contact: 509.527.4443 for registration information.</p>
Students in High School Completion (HSC) who are 19 yrs of age and older	<p>Submit application for admission - FREE!</p> <p>Submit high school transcript(s) to the Student Development Center</p> <p>Take Compass placement test</p> <p>Meet with High School Completion advisor for transcript evaluation</p>
International Students with F1 or F2 Visa	<p>Submit application for admission (must be completed 90 days prior to the beginning of the quarter for reporting to ICE)</p> <p>Submit official transcripts from secondary and post-secondary academic institutions translated into English</p> <p>Submit financial affidavit of sufficient financial support for at least one year</p> <p>Submit official copy of TOEFL scores (minimum paper-based score is 500 / minimum computer-based score is 173 / minimum Internet-based score is 61)</p> <p>Students transferring from other U.S. institutions must provide documentation of good academic standing (2.0 GPA or better) AND verification from current US institution that the student is eligible for re-admission, financial affidavit and TOEFL scores</p>

ADMISSIONS AND REGISTRATION

Step 2 Financial Assistance

The Financial Aid Office at Walla Walla Community College encourages applications from all students seeking financial assistance. Financial support for students usually comes from three sources: the student, the student's family, and financial aid programs. The Financial Aid Office is available to assist eligible students for specific college programs when their personal or family resources are not adequate to meet educational expenses. For Financial Aid information call 509.527.4301 or 509.527.4576 for Walla Walla and 509.758.1772 for Clarkston.

Eligibility

- Be a citizen of the United States or an eligible permanent resident.
- Have a high school diploma, or GED certificate.
- Be enrolled in an eligible degree or certificate program offered by WWCC. Up to 45 credits of remedial coursework will be funded by financial aid if the student is accepted into an eligible program.
- Be registered with Selective Service if you are a male who is at least 18 years old, born after December 31, 1960, and not a current member of the active armed forces.

- Have financial need as determined by a federally-approved need analysis formula.
- Not owe a repayment on a federal or state grant or be in default on any federal loan received at a post-secondary educational institution.

How to Apply

Students must complete and submit the Free Application for Federal Student Aid (FAFSA) and the WWCC Financial Aid Information Form. Applications are available on the web at www.fafsa.ed.gov or at www.wwcc.edu.

Deadlines

Applications may be submitted at any time during the academic year; however, because of limited funds, the recommended application deadline for priority funding is March 1 for fall quarter enrollment. Applicants who have been admitted and have submitted all the required forms will be notified of award or denial of assistance.

A complete listing of the notification schedule for files completed can be viewed at the WWCC Financial Aid Office website.

Financial Aid Programs

GRANTS

Federal Pell Grant	A federal grant program for students who meet federal financial eligibility criteria.
Federal Supplemental Educational Opportunity Grant	A federal grant program for students with exceptional financial need.
Washington State Need Grant	A Washington state program for WA resident students who meet financial eligibility criteria.
State Tuition Waiver	A Washington state program for WA resident students with a demonstrated need.

EMPLOYMENT PROGRAMS

Federal Work-Study	A federal program which offers a job to financially qualified students. The student may work 10-15 hours per week.
State Work-Study	A state program which offers a job related to the student's area of study to financially qualified students on or off campus. The student may work up to 19 hours per week depending on individual eligibility.

LOAN PROGRAMS

Federal Direct Loan	A federal loan program with deferred repayment and variable interest rates.
Federal Perkins Loan	A federal loan program established to make low interest, long term loans to students who meet financial eligibility criteria.
Federal PLUS Loan	Federal loan program for parents of dependent students. Variable interest rate with immediate repayment.

SCHOLARSHIPS

WWCC Foundation Scholarships	A variety of scholarships funded by the WWCC foundation. Foundation scholarship application is available online. For more information, contact: 509.527.4275.
General Scholarship Information	Various scholarship applications are available at the Financial Aid office.
Athletic Scholarships	All athletic scholarships are awarded by the head coach of each sport.
Activity Scholarships	Scholarships are available through ASB clubs and organizations and various campus activities such as theater, music and art.

For the most current information see: www.wwcc.edu

ADMISSIONS AND REGISTRATION

Other Financial Resources

- Bureau of Indian Affairs – available to qualified Native Americans
- Department of Vocational Rehabilitation
- Veterans Administration 509.527.1864
- WorkFirst – tuition and book assistance for qualified low-income working parents or TANF recipients seeking training to obtain employment. 509.527.1865
- Worker Retraining – financial assistance to qualified dislocated workers or displaced homemakers. 509.527.4373
- Opportunity Grant – financial assistance to qualified students enrolled in high demand pathways. 509.527.4373
- Automatic Payment Plan. Call WWCC Business Services at 509.527.4208 or 509.758.3339 at the Clarkston campus for more information.

Satisfactory Academic Progress Requirements for Financial Aid Recipients

Federal and state regulations require Walla Walla Community College to monitor the satisfactory academic progress of each student who receives financial aid. This is accomplished through a quarterly review by the Financial Aid Office before funds are disbursed to students. Satisfactory Progress means a minimum 2.0 quarterly GPA, accumulative pace of progression of 67% or higher, and the following credit completion rates:

If you enroll as:	You must complete at least:	You will be placed on probation if you complete:	Aid will be suspended if you complete less than:
Full time (12+ credits)	12 credits per quarter	6-11 credits per quarter	6 credits per quarter
¾ time (9-11 credits)	9 credits per quarter	5-8 credits per quarter	5 credits per quarter
½ time (6-8 credits)	6 credits per quarter	3-5 credits per quarter	3 credits per quarter
Less than ½ time (1-5 credits)	all credits enrolled for		total credits enrolled

Only grades of A, B, C, D, and P will count as completed credits. Grades of F, I, M, N, S, U, Y, and Z do not count as completed credits.

When students withdraw or cease to attend classes, they may be required to repay financial aid funds received for that quarter. Financial aid, excluding work study, will be repaid by the student according to the Return to Title IV Funds Policy. A copy of this policy is available from the Financial Aid Office.

Step 3 Placement Testing/Assessment

Degree-seeking students are required to take a placement test prior to registering for classes. The placement test identifies the student's skill levels in math, reading and writing. Students must have applied for admission to WWCC, and have a student identification number prior to taking the placement test. It is not a test that can be passed or failed. The "score" simply indicates the appropriate starting point for each student enrolling in core subjects.

The Walla Walla testing schedule is available online or at the Student Development Center. Placement testing at the Clarkston Center is scheduled Tuesday evenings at 5:15 p.m. and Thursday mornings at 8:15 a.m.

Transfer students who submit official transcripts to the Office of Admissions and Records showing successful completion of college level math and English with a grade of 2.0 or above are waived from taking that portion of the placement test.

Step 4 New Student Orientation

New Student Orientation sessions will be offered several times throughout the year to familiarize students with WWCC programs and degrees, education and career planning, online tools, the advising and registration process, as well as information on campus and community resources. For more information please contact the Student Development Center at 509.527.4262.

Step 5 Educational Advising & Career Exploration

WWCC provides assigned advisors to all degree seeking students. Advisors provide assistance in education, career and life planning and use a variety of tools and assessments to help students determine appropriate career and education plans, including quarterly class advising. A quarterly advising day is set aside for students to meet with their assigned advisor to plan their schedule and review their progress toward degree completion. However, the final responsibility for meeting all graduation requirements rests with the individual student.

Career exploration courses, workshops, and individual consultations help students define their educational, personal, and career goals. A comprehensive career exploration tool is available online with a password available in the Career and Employment Services Center. Assessments relating to interest, abilities, personality, and special aptitudes are administered and interpreted by professional personnel in the Student Development Center. These assessments are specifically selected to fit the needs of the individual. Most tests are free to WWCC students. Call 509.527.4262 - Walla Walla • or 509.758.1772 - Clarkston for more information or an appointment.

ADMISSIONS AND REGISTRATION

Step 6 Registration

Registration is the process of enrolling in classes each quarter. Detailed information and procedures for registration, as well as important dates and deadlines, are published in the e-schedule online. After completing the advising process, students will obtain a quarterly registration number from their advisor. Students are then able to register online. Students are able to make schedule changes online through the fifth day of the quarter (fourth day in summer).

Students are not allowed to attend a class unless officially registered for either credit or audit. Some classes, such as ABE, ESL, HSC, and GED, have continuous enrollment.

Certain courses require prerequisite coursework at a minimum level of performance before they can attend a particular class. Example: a student must receive a grade of "C -" or higher in MATH 065 to continue to MATH 095.

Students who register for classes in which they have not met prerequisite requirements will be administratively withdrawn.

Step 7 Payment

The final step in the registration process is paying your bill. WWCC cashiers accept cash, checks, MasterCard, and Visa at Business Services or online. An automatic payment plan is available online using an SID and quarterly registration number. Set up the automatic payment plan with a bank account, MasterCard, American Express, or Discover. Tuition and fees are usually due ten days prior to the beginning of the quarter.

Students planning to use financial aid to pay tuition will receive communication from the financial aid office when funds are available for payment. Students may track their financial aid status via the Financial Aid Portal at the WWCC website.

Academic Information

ACADEMIC INFORMATION

College Academic Year

The College year (September to June) is divided into three quarters (fall, winter, spring) of approximately eleven weeks each. Most courses at Walla Walla Community College are offered for one quarter. Each quarter a full range of courses is available. A summer session is offered in June, July, and August when fewer courses are offered over a shorter, more intense time. Ordinarily, students must enter a course at the start of a quarter and plan to participate for the full quarter. However, students may enter certain continuously-enrolling classes at any time during the quarter with permission of the instructor. Check with the Office of Admissions and Records to add classes. For a current College calendar please check online at www.wwcc.edu or in the quarterly schedule.

Credit Hours

Different courses offer different amounts of credit. Usually, the amount of credit for a course is the same as the number of hours the class meets each week. For example, a course meeting for one class hour three days a week equals three credit hours. There are some exceptions: laboratory sessions/nursing practicum meets two hours for one credit. In-class time requirements of a course are not always directly reflected in the number of credits offered. The number of credits for each course is listed with the course description in the college catalog and in the quarterly class schedule. Credit hours provide an indication of the time demands of a course when considered with appropriate out-of-class preparation and study time. They are the basis for certification of successful work completed.

Transferring Credit to WWCC

Walla Walla Community College recognizes academic credits earned at other regionally accredited institutions with grades of D (1.0) or better, provided they are essentially equivalent in academic level and nature to classes offered at WWCC. Walla Walla Community College subscribes to the statewide Policy on Inter-College Transfer and Articulation among Washington Colleges and Universities endorsed by all the public and most private colleges and universities in Washington. For more detailed information, contact the Office of Admissions and Records or see the section of this catalog entitled "Transfer To a Four-Year College or University." To have credits evaluated, students should complete a WWCC application and have their previous college(s) send an official transcript to the WWCC Office of Admissions and Records. Students fill out the Transcript Evaluation Form (this can be downloaded from the web), indicating the degree they are seeking; then they submit the form to the Office of Admissions and Records.

Prior Learning Assessment

For the purposes of this section, prior learning means the knowledge and skills gained through work and life experience; through military training and experience; and through formal and informal education and training from in-state and out-of-state institutions including foreign institutions. Prior Learning

Assessment, or PLA, is a means of determining whether or not the knowledge, skills and abilities a student has gained through prior learning match the knowledge, skills and abilities a student would gain by completing a specific course. If outcomes of prior learning equal outcomes of a specific course, then credit may be awarded.

Prior learning can be assessed using a variety of methods, including course challenge; standardized tests; credits earned through the American Council of Education's Guide to the Evaluation of Educational Experiences in the Armed Services (ACE); the systematic observation of skill demonstrations, including role plays and simulations; and the evaluation of case studies or other assignments. Credit can only be granted for college-level learning which can be demonstrated and documented.

The College supports as guidelines the principles of best practices published by the Washington State Community and Technical Colleges, as well as the policies established by the Northwest Commission on Colleges and Universities. If a student wishes to investigate the possibility to have prior learning recognized by the College, the student should first consult with the Registrar in the Office of Admissions and Records, who will direct them to the appropriate department expert. Please refer to wwcc.edu/pla for more information.

Maximum Credit by Prior Learning Assessment

A maximum of 25% of the credits needed for degree or certificate completion may be earned through prior learning assessment. For a 90-credit degree, the maximum credits allowed using PLA is 22.5. Students planning to transfer should check on the number of credits earned through PLA that the receiving institution will accept.

Course Challenge

Course challenge is possible in selected courses if the student has prior educational experience paralleling the skill or knowledge required to complete the course. Students must contact the Registrar in the Office of Admissions and Records for referral to the applicable instructional department, if appropriate. Standard tuition and fees will be charged. Ordinarily, students will not be allowed to challenge more than one course per quarter.

Standardized Testing

The college accepts some Advanced Placement (AP) and College Level Examination Program (CLEP) test scores to gain college credits. Please see next page for details.

ACADEMIC INFORMATION

Advanced Placement (AP)

Approved Advanced Placement scores of 3 or higher will be recognized for credit. Official test results should be sent to the Testing Center within the Student Development Center on the Walla Walla campus. Below is a table outlining the AP exams that Walla Walla Community College will accept.

Advanced Placement						
**Credits earned for AP scores of 3, 4, or 5						
Exam Title	Credit Awarded		Course Awarded			
Art History	15 credits	HUM	Art	127	128	129
Biology	15 credits	SCI	Biology	211	212	213
Calculus AB	5 credits	QS	Math	151		
Calculus BC	10 credits	QS	Math	151	152	
Chemistry	5 credits	SCI	Chemistry	110		
English Lang & Comp	5 credits	COM	English	101		
English Literature & Comp	10 credits	COM	English	101	111	
Government & Politics: Comparative	5 credits	SS	Political Sci	202		
Government & Politics: US	5 credits	SS	Political Sci	202		
Humanities	15 credits	HUM	Humanities	116	117	118
Physics B	15 credits	SCI	Physics	121	122	123
Psychology	5 credits	SS	Psychology	100		
Statistics	5 credits	QS	Math	201		
History: US	15 credits	SS	History	146	147	148
History: World or Western Civ.	10 credits	SS	History	116	117	
History: European	10 credits	SS	History	116	117	
Art 2D Design	5 credits		Elective			
Art 3D Design	5 credits		Elective			
Art Studio: Drawing	5 credits		Elective			
Computer Science A	5 credits		Elective			
Computer Science AB	5 credits		Elective			
Economics/Macroeconomics	5 credits	SS	Economics	202		
Economics/Microeconomics	5 credits		Elective			
Environmental Science	5 credits	SCI	General Ecology	130		
Chinese Language & Culture	5 credits		Elective			
French Language & Culture	5 credits		Elective			
Italian Language	5 credits		Elective			
Spanish Language	15 credits	HUM	Spanish	121	122	123
Spanish Literature	5 credits		Elective			
German Language	5 credits		Elective			
Latin: Virgil	5 credits		Elective			
Japanese Language	5 credits		Elective			
Music Theory	5 credits		Elective			
Human Geography	5 credits		Elective			
Physics C: Mechanics	5 credits		Elective			
Physics C: Electricity & Magnetism	5 credits		Elective			

For the most current information see: www.wbcc.edu

ACADEMIC INFORMATION

College Level Examination Program (CLEP)

CLEP exams are administered through the testing department within the Student Development Center. Complete the registration form in the CLEP bulletin to register for an exam. Variable testing fees are charged by CLEP, depending on the type and number of tests administered. Credits earned through this process will be transcribed as CLEP credits. Students planning to transfer should check on the transferability and credit limit of CLEP credits at the transfer institution. Below is a table outlining the CLEP exams that Walla Walla Community College will accept.

CLEP					
Credits granted when scores exceed ACE Credit Recommendation					
Exam Title	Credit Awarded	Courses Awarded			
Biology	15 credits	Biology	211	212	213
Chemistry	5 credits	Chemistry	110		
Calculus	10 credits	Math	151	152	
Spanish	15 credits	Spanish	121	122	123
Spanish Credits Explained: 50 = 5 Credits • 63 = 10 Credits • 70 = 15 Credits					
Humanities	15 credits	Humanities	116	117	118
Principles of Mgt.	5 credits	Business Admin.	189		
US History	15 credits	History	146	147	148
World History or Western Civilization	15 credits	History	116	117	118
Principles of Acct.	15 credits	Accounting	201	202	203
Human Growth & Dev.	5 credits	Lifespan Psy	200		

Other exams that are offered, but no credits are available at WWCC.

American Literature	Social Science & History
Analyzing and Inter. Lit	Intro. Sociology
Freshman Composition	Western Civ. I
English Literature	Western Civ II
French College 1 & 2	College Algebra
American Government	Trigonometry Algebra
Intro to Ed. Psychology	General Biology
History of US I	Natural Science
History of US II	Trigonometry
Macroeconomics	Intro to Business Law
Microeconomics	Information Systems & Computer Applications
Intro to Psychology	Principles of Marketing

ACADEMIC INFORMATION

Dantes/Military Credit

Dantes scores on the 50th percentile or higher will be recognized for credit when they can be applied to a stated educational objective.

International Baccalaureate (IB)

The International Baccalaureate (IB) program consists of college level courses and exams for high school students. The College awards credits for higher level IB examinations that meet subject and score criteria agreed upon by the college departments that oversee each appropriate discipline. Please contact the Office of Admissions and Records for more information.

College Costs

During the 2012-2013 academic year, full-time tuition and mandatory fees are estimated to cost \$4,375 for one year (15 credits per quarter for three quarters) for Washington State residents and \$5,675 for out-of-state residents. Textbooks and supplies will average about \$1000 per year. Room and board, personal expenses, and transportation costs for one year will vary with the individual or family. Listed below are budgets, which represent possible cost patterns for which the College may award financial aid funds after personal or family resources are deducted.

Collection of Financial Obligations Due the College

Walla Walla Community College, an agency of the State of Washington, is required to collect all financial obligations lawfully due the College. Business Services conducts necessary collection activities. These activities include, but are not limited to, mailed statement and demand letter, assignment of the debt, plus collection charges to collection agencies, administrative holds on academic records, and/or administrative withdrawal of privilege to attend classes.

Student Budget 2012-2013 School Year

Student Budgets	Dependent living with parent	Not living with parent
Tuition & Fees (est)*	\$4,375	\$4,375
Books & Supplies	\$1,000	\$1,000
Rent/Food/Utilities	\$3,000	\$9,000
Transportation	\$1,370	\$1,560
Misc./Personal	\$1,670	\$2,040
TOTAL	\$11,415.00	\$17,975.00
*Add \$1,300 for non-resident tuition		

Refund Policy

WWCC will refund tuition and refundable fees if official withdrawal from the college or course(s) occurs within the specified timeframe listed below. Certain fees are refundable only if withdrawal occurs prior to the first day of instruction.

REFUNDS	WWCC will refund tuition and refundable fees if official withdrawal occurs.	
Fall, Winter, Spring	Up to 100% refund on or before 5th day of the quarter.	Up to 40% refund from 6th day of the quarter through the first 20 calendar days.
Summer	Up to 100% refund on or before 4th day of the quarter.	Up to 40% refund from 5th day of the quarter through the first 20 calendar days.

*The Washington Online (WAOL) calendar for 100% refund dates may differ. There is no WAOL 40% refund period.

**Refunds are handled differently for special sessions and short courses.

Reduction Of Credit Hours

Tuition and fees may be partially refunded if students officially reduce their credit-hour load through the twelfth calendar day of the quarter for which the fees have been paid. The refund will be based upon the credit hours remaining on the student's schedule, and the date of the drop. Refund checks will be processed in Business Services and mailed within approximately three weeks to the address given by the withdrawing student. Students who withdraw or reduce their credit-hour load and have received any form of financial aid will be required to have the refund credited to the appropriate financial aid account.

Increase In Credit Hours

Tuition and fees will be recalculated for every increase in credits. The tuition/fee payment is due in full to Business Services on the same day the change is made. Students are responsible for monitoring waitlisted classes which may cause an increase in credit hours, tuition and fees.

ACADEMIC INFORMATION

Grading Policy

Grades and Grade Reporting

The WWCC grading system provides a permanent record of grade evaluations which reflect the student's course achievement. Grades are available on the WWCC website approximately one week after the end of the quarter.

The following grades are used:

Outstanding Achievement

- A** 4.0 points per credit hour
- A-** 3.7 points per credit hour

High Achievement

- B+** 3.3 points per credit hour
- B** 3.0 points per credit hour
- B-** 2.7 points per credit hour

Average Achievement

- C+** 2.3 points per credit hour
- C** 2.0 points per credit hour
- C-** 1.7 points per credit hour

Minimum Achievement

- D+** 1.3 points per credit hour
- D** 1.0 points per credit hour

Unsatisfactory Achievement

- F** 0.0 points per credit hour

Grades not included in GPA calculation

- I Incomplete** – The grade of "I" may be assigned only upon the request of the student and with the concurrence of the instructor. It is given to the student who is doing passing work and has completed at least two-thirds of the course when a circumstance arises that prevents normal completion. Neither lateness in completing work nor the desire to do extra work to raise a poor grade is considered an extenuating circumstance. A student must obtain an Incomplete Grade Contract from the Office of Admissions and Records and negotiate a formal agreement with the instructor specifying:

- The work completed by the last day the student was actively involved in the course
- The work remaining to complete the course
- The work required to complete the course must be finished in the subsequent quarter
- The grade to be issued if the work has not been completed by the end of the subsequent quarter

A student with an incomplete grade in a prerequisite course may enroll in subsequent course. However, the student must

successfully complete the required work for the prerequisite course and replace the incomplete with a grade that meets the prerequisite requirement during the first three days of the subsequent quarter. If the student does not complete the prerequisite course in the first three days of the subsequent quarter, the College will withdraw the student from the current course.

If the Incomplete is not made up in the subsequent quarter, excluding summer quarter, the student must re-register for the course. If a student does not make up the Incomplete grade, the instructor will change the Incomplete grade to the grade and credits agreed to in the Incomplete Grade Contract. The Incomplete grade will remain permanently on the student record and "0" grade points are earned if the Incomplete Grade Contract is not fulfilled.

N Audit – course not taken for credit (does not appear on transcript).

P Passing – Used for short courses, workshops and where deemed appropriate by the Vice President of Instruction.

W Withdrawal – Students finding it necessary to withdraw from a class or the College must complete an official withdrawal form and submit it to the Office of Admissions and Records. Withdrawals can be processed at the Office of Admissions and Records throughout any drop period. Students should refer to the class schedule to find the last day to drop. Failure to withdraw officially from classes may result in failing grades being assigned, forfeiture of any tuition and fee refund, and overpayment of veteran's benefits, financial aid, etc. Students will be responsible for refunding any overpayments received. The schedule for drop deadlines for 100% refund and 40% refund appear in the quarterly class schedules; Washington Online (WAOL) dates may differ.

Y In progress – (not a final grade). Used in courses that allow enrollment on a continuous basis during the quarter. Students who enter such courses after the quarter has begun and need additional time not to exceed two subsequent and consecutive quarters may be given time to complete course requirements.

Z No credit – student has not met minimal objectives due to documented extenuating circumstances (accident, illness, death in family, etc.). The faculty member initiates this grade. This grade is not computed in the GPA and cannot be changed unless instructor error has occurred.

M/S/U Mastery/Satisfactory/Unsatisfactory – Used in a limited number of courses where students will not have their work recorded on their transcripts.

Grade Exclusion Policy

A returning student may petition the Academic Standards Committee for a review of his or her academic record with the intent of excluding grades earned at Walla Walla Community College from computation of the WWCC cumulative GPA. This policy is designed for students who had difficulties (generally characterized by grades below "C" or 2.0 GPA) in their early term(s), left WWCC, returned later and demonstrated improved academic achievement.

ACADEMIC INFORMATION

In order to be eligible for grade exclusion, the student must meet the following criteria:

- At least three calendar years must have passed without the student's having been enrolled at WWCC;
- Grades to be excluded must have been awarded prior to the minimum years of absence;
- The student must demonstrate an ability to improve by completing at least 24 credits with a cumulative GPA of 2.0 or higher since returning to the College.

To initiate a petition for exclusion of grades, the student should contact the Vice President of Instruction's office to obtain the appropriate form, including signature.

- Only exclusion of all grades in the quarters prior to the absence will be considered; petitions to exclude singular courses within a quarter or singular quarters will not be considered.
- Only grades earned at WWCC can be removed under this policy.
- Only one such exclusion is permitted.

If the student's petition is approved, the grades to be excluded will not appear on the student's transcript and will not be used in calculating the GPA. The excluded grades will remain as part of their permanent record, and a reference to the use of the grade exclusion policy will be made on the transcript.

- These courses and credits may not be reinstated.
- These courses and credits may not be used as prerequisites.
- These courses and credits may not apply toward degree or certificate completion requirements.

Adding Or Dropping A Course

A student may add a course only during the first five days of classes (four days for summer) unless the course has continuous enrollment.

A student may drop a course based on the dates in the quarterly schedule. It is the student's responsibility to initiate a drop online if within the first five days of classes (four days for summer), or complete the proper form at the office of Admissions and Records. Failure to drop a class or withdraw from school in a timely manner may disqualify a student from receiving a refund of tuition and fees and may cause the student to receive failing grades.

Grade Point Average (GPA)

The GPA indicates the general achievement of a student. It is calculated by multiplying the number of credit hours for a course attempted by the grade points assigned to the grade for that course, taking the sum of products calculated and dividing by the total credit hours attempted. The calculation does not include courses in which the student received grades I, Z, N, Y, W, S, M, U or P.

Quarterly Grades

At the end of each quarter, grades are processed for each student enrolled for credit. Students may access their quarter grades and all previous grades by viewing an unofficial transcript online.

Grade Change

Once a grade has been filed with the Office of Admissions and Records, the grade is regarded as final. Except for the conversion of Incomplete (I) and In-Progress (Y) marks, grade changes are accepted only under restrictive circumstances. These circumstances include:

- Clerical error in transcription or recording of grade.
- Instructor error in computation.
- Decision as the result of a grievance procedure.
- Grade resulted from academic dishonesty.
- At the end of each quarter, grade reports are posted for each student enrolled for credit. If an error or omission should occur on a student's grade report, the registrar must be notified no later than the last day of the subsequent quarter; otherwise the issued grade becomes part of the student's permanent record and cannot be changed.

REPEATING A COURSE - GRADE FORGIVENESS

A student may request grade forgiveness when repeating any course for which a grade of "C-" or lower was received. Students must submit a Repeat Class Request to have the highest grade calculated into the WWCC grade point average. As a result of their request, the courses with the lower grade will have an "R" identifier posted next to the grade in the permanent transcript.

All courses repeated for which a grade of "C" or better was earned will remain as part of the student's record, and an average of those grades will be reflected in the cumulative grade point average.

The course must be repeated at WWCC or the repeat will not be shown on the WWCC transcript, and the grade point average will not be recalculated.

Note: Students planning to transfer to four-year institutions should be aware that many four-year institutions have strict policies on course repeats. We recommend checking with the transfer institution before repeating a class to determine course transferability.

Students receiving financial aid or veterans benefits should consult the respective office prior to repeating a course as financial penalties may be imposed. This procedure has no effect on admission criteria and procedures established for selected program areas.

OFFICIAL TRANSCRIPTS

Official transcripts are kept for all students who have completed admissions procedures and registered for credit. These transcripts are permanent records of the College.

Official copies will be forwarded to other institutions or individuals upon the student's signed request to the Office of Admissions and Records. See the fee schedule online for current rates and ordering instructions. Transcript services are withheld when a student has an outstanding financial obligation to the College.

ACADEMIC INFORMATION

Student Academic Responsibilities

1. Advising: Every student at Walla Walla Community College seeking to complete degree or program requirements is responsible for maintaining regular contact with a college advisor. All students receiving financial aid must have a college advisor.
2. Catalog Information: Every student at Walla Walla Community College is responsible for following guidelines and information provided in the WWCC catalog.
3. Course Requirements: Students at Walla Walla Community College are responsible for requirements as outlined by the instructor. This information may be included in the course syllabus.
4. Attendance: Students are expected to attend classes regularly to ensure the successful completion of coursework. Excused absences may be permitted at the discretion of the instructor for illness, official college activities, or personal emergencies. All coursework missed must be completed to the satisfaction of the instructor. The student is responsible for initiating procedures for make-up work. Career and Technical Education programs may require a minimum of hours of instruction before a student can take a licensing examination. Students should check with their instructor(s) to make sure the required hours have been completed.
5. Examinations: Students must take examinations at the time scheduled by the instructor. A request to take a final examination at another time must be approved by the instructor and the Vice President of Instruction. Proctored exams may be required for online courses and must be scheduled in the Testing Center or an approved testing location.
6. Student Progress: Students must work toward completion of degrees or certificates by working with their advisors to meet their intended educational goals in a timely manner.
7. Student Rights and Responsibilities: Students must adhere to the Rules of Conduct and Procedures of Enforcement as published in the student handbook and online.

NOTE: Students should contact the Vice President of Student Services for information regarding their rights and responsibilities while attending Walla Walla Community College.

Academic Standards Policy

Honors Recognition

Each quarter, except summer, the College recognizes student academic achievement for full-time students (15 credits or more within a program area exclusive of remedial courses and cooperative work experience credits) who meet the following minimum criteria:

Achieve a 3.85 GPA for the President's List.

—OR—

Achieve a 3.50 GPA for the Vice President's List.

Students with grades of I (Incomplete), Y (In-Progress), Z (No Credit), or an F are not eligible for honor roll recognition.

Academic Warning, Probation, Suspension

The academic warning and suspension policy is intended to promote successful learning. With this help, students will be alerted to potential problems in time to take corrective action. The following guidelines have been established to ensure academic standards are maintained:

1. At the conclusion of each quarter, the grades of all students enrolled in that quarter will be reviewed by the Vice President of Instruction.
2. Students who have attempted twelve or more credits in the quarter and whose quarterly GPA is less than 2.0 will be notified of their situation.
 - a. The first quarter in which the GPA is less than 2.0 will cause students to receive an academic warning regarding the level of their academic achievement from the Vice President of Instruction.
 - b. If students experience two consecutive quarters of work in which the GPA is less than 2.0 each quarter, they will be placed on academic probation for the following quarter of attendance.
 - c. When students fail to earn a 2.0 GPA for three consecutive quarters, they may be suspended from attendance at the College for a period of one academic quarter (exclusive of summer). They must appear before the Academic Standards Review Board to review their situation before registering for classes.
3. Any student whose GPA is under 2.0 will be referred to services provided by the College to enhance student success.
4. Students placed on academic probation or suspension may appeal to the Academic Standards Review Board for reconsideration if they feel that unusual circumstances beyond their control contributed to their low academic achievement.
5. After academic suspension of one quarter (fall, winter, spring), a student must contact the Vice President of Instruction for a hearing before the Academic Standards Review Board for re-instatement to the College. If re-admission is allowed, the student will remain on academic probation until achieving a quarterly 2.0 GPA.

Plagiarism/Cheating

1. Plagiarism is defined as presenting someone else's work, including the work of other students, as one's own. A student must give credit to the originality of others and acknowledge indebtedness whenever:
 - a. directly quoting another person's actual words, whether oral or written;
 - b. using another person's ideas, opinions, or theories;
 - c. paraphrasing the words, ideas, opinions, or theories of other, whether oral or written;
 - d. borrowing facts, statistics or illustrative material; or
 - e. offering materials assembled or collected by others in the form of projects or collections without acknowledgement.

People's ideas may be contained in written text, visual text, multimedia products, including websites, music, and written text.

2. Any student who aids or abets the accomplishment of such activity as defined in subsection one (1) above shall also be subject to reasonable action by the instructor (see below).

ACADEMIC INFORMATION

3. An instructor may take reasonable action against any student who is deemed to have been guilty of plagiarism. Course of action might include, but not be limited to:
 - a. student receive warning;
 - b. student receive a lowered grade;
 - c. student receive failing grade for the course;
 - d. student dropped from course;
 - e. student be referred to the Vice President of Student Services for violation of Student Code of Conduct
4. An instructor taking action against any student for an act of academic misconduct may report such action to the Vice President of Instruction and the Vice President of Student Services, as soon as possible, but no later than five working days after the incident. Any student subject to action of an instructor for a violation of this section may seek review of that action by referring to the Grievance Procedure for Instructional Issues.

Academic Progress

Workforce Program Student Progress: In response to strong workforce training demands and institutional goals of providing on-time completion and employment, Walla Walla Community College monitors student progress in attaining degrees or certificates. Student failure to make academic progress impacts the program enrollment opportunities and limits critical workforce program training capacity. Therefore student failure to do the following may impact their ability to progress in the program:

1. Students must demonstrate academic success by achieving a "C" grade or higher at the conclusion of each quarter on core workforce courses (excluding related instruction classes).
2. Students must demonstrate required industry skill standard competencies (course outcomes).
3. Students must demonstrate workplace safety practices.

Failure to meet any of the above may result in workforce program faculty recommending suspension from the program. Students should consult program handbook in the case of Nursing. Other workforce students failing to meet the above standards will be referred to the Vice President of Instruction, Workforce Education office for an instructional success plan form and/or grievance process.

Veterans Academic Progress

Persons receiving VA education benefits are subject to the following standards of progress:

All persons utilizing VA education benefits must maintain a minimum GPA to ensure continued VA support. For any quarter of study, the GPA must be 2.0 or above. A list of all grades with their respective grade points appears in this catalog under "Grading Policy".

Persons who fail to make satisfactory progress will be placed on Academic Probation according to WWCC's "Academic Standards Policy" located in this catalog. Persons who are placed on Academic Probation can be re-instated to regular status by earning a 2.0 GPA for the probationary quarter.

When a student fails to earn a 2.0 GPA or higher for three (3) consecutive quarters, unless successfully appealed through the Academic Standards Review Board, the individual will be terminated from receiving VA education benefits and the VA will be notified of the unsatisfactory progress. Every effort will be made to notify the VA within 30 days, although the monitoring process may take more than the allotted time.

Persons whose financial support has been discontinued for reasons of unsatisfactory progress will not be recertified for VA education benefits until satisfactory progress is maintained for the quarter in which re-admittance by the Academic Standards Review Board was allowed and they complete a meeting with their academic advisor.

Persons who receive a grade of Incomplete (I) or In-Progress (Y) must complete an Incomplete Grade Contract with the appropriate instructor and finish the incomplete in accordance with the established policy in the Registrar's Office. If the incomplete grade is not removed by the end of the following quarter, it will be reported to the VA and will usually result in having to repay the VA a portion of the money previously received.

Full-time study is a minimum of 12 credit hours per quarter. However, a student is not required to be full-time in order to utilize VA education benefits; their award is adjusted accordingly.

Individuals cannot be certified for remedial courses offered online, audit, or other non-credit courses.

Veterans Records of Progress

Walla Walla Community College maintains adequate records to show the progress of each student receiving VA benefits. Specific procedures include the following:

- Records of withdrawals are filed and checked with the official schedule certified by the College for funding. Appropriate forms are submitted if funding levels are reduced or increased due to the schedule change.
- Records of re-enrollment for courses leading to degrees are checked against permanent records when a program change application is submitted. This ensures that all eligible persons pursue courses and programs for which they are certified.
- A cumulative transcript of progress is on file in each veteran's or eligible person's folder. Progress or lack of progress is monitored each quarter when grades are submitted for final review. The courses are double-checked with the original certification to make certain persons eligible are making progress in courses approved for funding. Transcripts of previous education and training are Included with the transcript evaluation forms to show credit granted for prior educational experiences.

ACADEMIC INFORMATION

Graduation Requirements

Graduation Process and Ceremony: Students may apply for graduation under the catalog year requirements in effect at the initial time of enrollment or any subsequent catalog year requirements, provided the student is continuously enrolled (excluding summer quarter).

Students nearing graduation must review graduation requirements with an advisor. After it is determined that the student will complete the coursework required, candidates must formally apply to receive their degree/certificate and to participate in the graduation ceremony. Applications are available online and at the Office of Admissions and Records. For individual certificate and degree requirements, please see the department section of the catalog or a degree audit (for the most recent two years), available online.

The June commencement is a graduation ceremony for those students who have completed or plan to complete their degree or certificate during fall, winter, or spring of the current school year, or the summer quarter immediately following. Participation is highly encouraged but not required.

Student Records (FERPA)

In accordance with the Family Educational Rights and Privacy Act (FERPA), Walla Walla Community College enforces guidelines concerning information about the student's permanent educational record and governs the conditions of its disclosure. Except as otherwise indicated, the College will not provide information contained in student records in response to inquiries unless the student has given written consent to the College. Exception will be made if knowledge of the information is necessary to protect the health or safety of the student or other individuals or disclosure is required by law. The following information may be released without notification to the student on a need-to-know basis, as it is representative of public directory information: student's name, field of study, athletic information, date of completion, degree, and awards earned. The College provides additional information to military recruiters in compliance with federal Solomon Act requirements. Students who do not want their directory information released without their consent must file quarterly, a Non-disclosure Request to the Office of Admissions and Records.

Student Programs & Services

STUDENT PROGRAMS & SERVICES

Associated Student Body (ASB)/ Student Government

509.527.4261 Walla Walla • 509.758.1718 Clarkston

Elections for student body officers are held each spring. Contact the Director of Student Activities or ASB President for details. Volunteers are also needed to help ASB officers in planning student activities. Student Government is comprised of five elected officers: ASB President, Executive Vice President, Business Vice President, Activities Vice President, and Media and Technologies Vice President. News and events are available at www.wbcc.edu/CMS/index.php?id=733 and on Facebook – WWCC ASB.

Intercollegiate Athletics

509.527.4306 - Walla Walla

WWCC is a member of the Northwest Athletic Association of Community Colleges (NWAACC) and the National Intercollegiate Rodeo Association, fielding a variety of men's and women's teams. Women may compete in volleyball, soccer, basketball, golf, and softball. Men may compete in basketball, baseball, soccer, and golf. Additionally, WWCC has highly successful men's and women's rodeo teams that compete throughout the Northwest.

Bookstore

509.527.4255 - Walla Walla • 509.758.1700 - Clarkston

In Walla Walla, the Bookstore is open daily from 7:30 a.m. to 4:30 p.m., Monday through Friday. During the first two days of Fall, Winter and Spring quarters, the Bookstore will have extended hours, 7:00 a.m. to 6:00 p.m. In Clarkston, the Bookstore is open from 8:00 a.m. to 4:30 p.m., Monday through Friday, with extended hours during the first three days of each quarter. Summer hours may vary on both campuses.

Other services include:

- Textbooks, supplies, snack items
- Special pricing on student/faculty software
- Apparel, gifts and greeting cards
- Warrior Espresso Bar (Walla Walla)
- Campus Ticket Office (Walla Walla)
- WWCC drama productions
- WWCC rodeo
- Summer musical

Other special events such as ASB discounted movie tickets for local theaters & corn maze tickets

- United States Postal Service Substation located in the Bookstore.

Career and Employment Services

509.527.4373 - Walla Walla • 509.758.1718 - Clarkston

Visit the Career and Employment Services Center on the Walla Walla Campus and Student Services in Clarkston.

Courses, workshops, and individual consultations help students define their educational, personal, and career goals and plans.

Services include:

- Career exploration and information using various career assessment tools.
- Interview coaching.
- Job search resources and industry specific search techniques.
- Resume development assistance.

Child Care

509.527.4544 Walla Walla • 509.758.1779 Clarkston

The childcare centers are open weekdays for children ages one month to five years old. Hours and costs within the operating day are flexible to accommodate varying schedules.

Clubs & Organizations

509.527.4261 - Walla Walla • 509.758.1718 - Clarkston

Any group of students can form a club to promote their common interests. Currently there are over 30 clubs in Walla Walla and 8 clubs in Clarkston. Contact the Director of Student Activities for more information.

Counseling

509.527.4262 - Walla Walla • 509.758.1718 - Clarkston

Counseling, intervention and referral services are available to students facing personal challenges and decisions that impact their success in college. All sessions are private and confidential. This service is available at no charge to WWCC students.

Clarkston Campus – Please call Quality Behavioral Health at 509.758.3341 for mental health and personal counseling.

Disability Support Services

509.527.4262 - Walla Walla • 509.527.4412 TDD
509.758.1718 - Clarkston

Students may request accommodations due to a disability by contacting the Coordinator of Disability Support Services (Claudia Angus, Walla Walla Campus; Carol Bennett, Clarkston Campus). The Coordinator will issue reasonable accommodations according to the course requirements and the functional limitations of the disability. Accommodations are modifications to the instructional setting such as a quiet location for testing, sign language interpreters, or adjustable tables.

STUDENT PROGRAMS & SERVICES

Employment

Student Help/Work Study Positions

509.527.4373 - Walla Walla • 509.758.1772 - Clarkston

On campus and off campus student jobs are available through the Career & Employment Services Center (CESC). Work-study positions are part-time jobs available to students who qualify to receive work study funds through the Financial Aid office. Other community and regional job opportunities are also posted daily at the CESC and on the WWCC CESC website <http://www.wwcc.edu/CMS/index.php?id=3197>.

Work Source

509.527.4393 - Walla Walla • 509.758.1716 - Clarkston
<https://fortress.wa.gov/esd/worksource/Employment.aspx>

Services include:

- Placement and referral
- Job listings
- Job development and job seeking skills
- Self service computers with internet access and online labor market information

Food Service

509.527.4272 - Walla Walla • 509.758.3339 - Clarkston

Breakfast and lunch are prepared and served, in the Titus Creek Café, by students enrolled in the Wine Country Culinary Institute Monday through Friday between 8:00 a.m. and 1:30 p.m. Students and college staff may purchase meal tickets in amounts of \$50, \$25, or \$15 at the Business Services counter.

CC's: A local vendor, CC's, provides coffee services, snacks, light breakfast and lunch items from 8:00 a.m. to 1:00 p.m. Monday through Thursday and 8:00 a.m. to 12:30 on Friday at the Clarkston Campus.

Health Insurance

509.527.4204 - Walla Walla • 509.758.1720 - Clarkston

Students can get reduced rates on accident and medical insurance coverage. Brochures are available from the cashier. Claim forms can be obtained at the Student Services Office.

Honors Program

509.524.4799 - Walla Walla • 509.758.1726 - Clarkston

The Walla Walla Community College Honors Program offers successful and highly motivated students the chance to advance both their learning and their prospects for college and career advancement through uniquely challenging coursework and focused activities. Transcripts of Honors graduates indicate their special achievement and list the specific courses they took for Honors credits. Students may enroll in the Honors Program if they enter WWCC with a 3.5 high school GPA, or if they have earned at least 15 college credits at WWCC with a 3.5 GPA.

Housing

509.527.4262 - Walla Walla • 509.758.1718 - Clarkston

Walla Walla Community College does not have on-campus housing or a housing director. However, the Walla Walla Campus has compiled a list of local apartment complexes and various housing opportunities (i.e., roommates, rooms in private homes, etc.) and the Clarkston Campus has information on local real estate and property management firms in the Lewiston-Clarkston Valley.

Intramurals

509.527.4311 - Walla Walla • 509.758.3339 - Clarkston

Intramurals is an extracurricular and leisure program designed for students and employees at the Walla Walla Campus. Programming reflects a broad spectrum of activities in order to meet the recreational needs and interests of the student population. Information is available on the website and on bulletin boards located throughout the campus and in the Dietrich Center.

The Clarkston Campus Sports Club provides students with the opportunity to pursue individual and team sports.

Library

509.527.4294 - Walla Walla M-Th 7:30am-7:30pm, F 7:30am-4:00pm
509.758.1714 - Clarkston M-Th 8am-6:30pm, F 8am-4pm

(Hours vary when classes are not held, during breaks and in the summer. Call or check the website at www.wwcc.edu/library for the most current schedule.)

The Walla Walla and Clarkston campus libraries provide a comprehensive selection of collections and services for WWCC students with on-site and remote access to expanded, web-based resources. Both facilities provide computers and networked printing for academic purposes; research and library use instruction; study and listening/viewing space; and borrowing privileges from libraries throughout the country. When accessing databases from a non-WWCC networked computer, students, faculty and staff are prompted to login with their student/staff identification number (SID). A 24/7 reference chat service and full text article and streaming video databases are available from home or work. Visit the Library or our homepage at www.wwcc.edu/library for more information about library services and student access to resources

Opportunity Grant

509.527.4373 - Walla Walla • 509.758.1721 - Clarkston

The Opportunity Grant program provides funding and wrap around services to Washington state resident students who meet financial eligibility requirements and are enrolled in identified high demand educational pathways.

STUDENT PROGRAMS & SERVICES

Publications

509.527.4261 - Walla Walla • 509.758.1718 - Clarkston

The Walla Walla Campus ASB produces a weekly publication, The Warrior Quickie, and a monthly publication called The Warrior featuring student news, events, and ads. The papers are distributed throughout campus. ASB encourages and welcomes articles, essays, notices, ads, and reviews from WWCC students. Items can be submitted by email to asb@wwcc.edu.

The Clarkston Campus publishes a monthly newspaper, The Campus Informer, featuring locally written articles and news information.

Student Activities

509.527.4261 - Walla Walla • 509.758.1718 - Clarkston

Students at Walla Walla Community College are encouraged and welcomed to participate in many programs and activities beyond the classroom. Events and activities are provided to assist students in pursuing a variety of interests, often at no cost. ASB provides many different activities throughout the year and offers assistance to campus clubs. Popular student activities include Almost-Free Bowling, Monday Night Football, Ice Skating, the Cowboy Breakfast and many more.

Student Development Center

509.527.4262 - Walla Walla • 509.758.1718 - Clarkston

The Student Development Center houses counseling and advising services, disability services, veterans' services, testing and the transfer center. Counselors and advisors in the Student Development Center help students identify and successfully achieve their academic, career and personal goals. Staff members also assist students with the development of problem-solving skills and advocate for students when appropriate.

Student Handbook

The college produces an annual student handbook which is distributed to all new students at New Student Orientation Sessions. The handbook provides information regarding student services, college and academic resources, and key policies.

Testing Services

509.527.4555 - Walla Walla • 509.758.1772 - Clarkston
509.758.3339 - Clarkston • www.wwcc.edu/testing

Tests relating to interest, abilities, personality, and special aptitudes are administered and interpreted by professional personnel. These tests are specifically selected to fit the needs of the individual. Most tests are free to WWCC students.

GED Test Administration

509.527.4267 - Walla Walla • 509.758.3339 - Clarkston
www.wwcc.edu/testing

Walla Walla Community College and Walla Walla Community College Clarkston Campus are official GED (General Educational Development) testing centers. The GED testing service is available to persons 19 years and older or to persons 16 to 18 years who are released by their local high schools. After successful completion of GED exams, a certificate is issued by the State of Washington for Washington residents. The GED testing fee is \$15.00 per test.

Testing Lab

509.527.4680 - Walla Walla

The Testing Lab is located in Room 245 on the second floor, and provides testing services for distance learning students, make up exams and other specialty exams. The Testing Lab is open 36 hours per week between Monday and Friday. Please call the number listed above or check on the website at www.wwcc.edu/testing for testing lab hours.

To make arrangements for testing at the Clarkston Campus, contact the Library at 509.758.1714.

Placement Testing

509.527.4267 - Walla Walla • 509.758.1772 - Clarkston

Degree seeking students are required to take a placement test prior to registering for classes. The purpose of this test is to assist your advisor in placing you in the right courses for your abilities. The current Walla Walla testing schedule is available on the website at: www.wwcc.edu/testing or at the Student Development Center.

Placement testing at the Clarkston Campus, Room 117A, is scheduled Tuesday evenings at 5:15 p.m. and Thursday mornings at 8:15 a.m. Testing may also be scheduled at other times by calling 509.758.1772.

American College Testing Program (ACT): Walla Walla Community College is an official testing center for the ACT program. ACT test scores may be required in order to transfer to some four-year colleges and universities. The ACT tests are given during February, June, September and October. Further information can be obtained from the Walla Walla campus Student Development Center. Testing fees vary and are payable to ACT prior to the examination day. The College is also a testing center for ACT-CLEP, a widely accepted college level credit-by-exam program.

Transfer Center

509.527.3679 - Walla Walla • 509.758.1718 - Clarkston

The WWCC Transfer Center is located in the Student Development Center on the Walla Walla Campus and in Student Services on the Clarkston Campus. Students wishing to access information on how to successfully transfer to other colleges and universities should make an appointment to meet with a transfer advisor.

STUDENT PROGRAMS & SERVICES

College catalogs, software, and equivalency guides help students in developing transfer plans. The Transfer Center also hosts a Fall College Transfer Fair, offers workshops, maintains up-to-date information on the WWCC website, and arranges for visits from four-year institutional representatives.

Transportation

509.525.9140 - Walla Walla • 509.527.3779 - Walla Walla Dial-A-Ride • 208.743.2545 - Clarkston

The Valley Transit bus system in Walla Walla provides transportation throughout the city and College Place to the college. Dial-A-Ride arrangements can be made for students with mobility disabilities. The Clarkston Campus is on the Valley Transit line with a stop on Bridge Street in front of the Campus. Contact the numbers above for route and schedule information.

TRIO/Student Support Services

509.527.4258 - Walla Walla • 509.758.1721 - Clarkston

The Student Support Services program aims to increase student retention, graduation and transfer rates for 280 enrolled participants. Students must either be a first generation college student (neither parent has graduated from a four-year college), low income, or a student with a disability, and enrolled in six or more college-level credits in academic coursework. Students must be pursuing an associate's degree at WWCC and planning to transfer to a four-year college after completing the associate's degree.

Some of the services provided by SSS/TRiO are:

- Personal, career, and academic advising
- Free one-to-one Math and Science tutorial services
- Scholarship and Financial Aid planning/monitoring
- Transfer planning to four-year colleges including campus visits
- Access to TRiO's lending library which includes laptop computers, textbooks clickers, recorders, and calculators

The program application is available at the SSS/TRiO office or on the web at http://wwcc.edu/CMS/fileadmin/PDF/TRIO/TRiO_application.pdf

Instructional Support Services

509.524.5181 - Walla Walla • 509.751-4079 - Clarkston

Students who need assistance with Math, Science, or Writing may drop-in to the Tutoring and Learning Center (TLC) to receive help from a CRLA trained tutor. No appointment is necessary, and tutoring is free and available to all students. In Walla Walla, the Tutoring and Learning Center is located on the second floor of the main building in room 244. On the Clarkston Campus, the Tutoring and Learning Center is located on the second floor in the Mezzanine area. Hours are updated each quarter on the WWCC website.

Nursing tutoring is also available for first and second year nursing students in the Health Sciences building in Walla Walla and in the TLC in Clarkston.

Veteran's Affairs Office

509.527.1864 - Walla Walla • norma.chavez@wwcc.edu

A veterans' education benefit specialist is located on the Walla Walla Campus to assist veterans attending both the Main Campus and the Clarkston Campus with obtaining VA Education Benefits. The main function of the Veteran's Affairs office is to assist veterans/dependents with the application process and to monitor usage of education benefits for compliance with Department of Veterans Affairs policies and procedures.

WorkFirst

509.527.1865 - Walla Walla • 509.758.1711 - Clarkston

WorkFirst provides education and training services for TANF (Temporary Assistance to Needy Families) recipients and former TANF parents who meet income requirements. WorkFirst Financial Aid/Tuition Assistance provides tuition, books and fees for students engaged in customized job skills training, post-employment training, Transitional Studies (ABE, GED, and ESL), and vocational/work-based training. WorkFirst Tuition Assistance provides a bridge into training while other resources such as Pell grant are pending. Assistance to apply for other funding sources is provided.

Worker Retraining

509.529.1113 - Walla Walla • 509.758.1711 - Clarkston

Worker Retraining provides tuition assistance for qualifying students. Students will receive education planning and assistance in applying for other funding resources while pursuing a certificate or degree program. Participants may be able to continue to draw unemployment benefits while in training.

WorkFirst and Worker Retraining both provide:

- Tuition for one quarter for eligible participants
- Ongoing services to support training completion
- Job search assistance upon completion of training

Additional Educational Opportunities

ADDITIONAL EDUCATIONAL OPPORTUNITIES

WSU Nursing @ WWCC

509.524.5152 - Walla Walla

WSU offers Bachelors and Masters Degrees in Nursing on-site at WWCC. The program courses are in various modalities including online and ITV.

Clarkston Campus

The Clarkston Campus primarily serves the surrounding region of Asotin and Garfield counties. Over 1300 full- and part-time students are enrolled annually in the following programs:

- Associate in Arts Degree (AA)—College Transfer Program. The Associate in Arts Degree serves as the first two years of a four-year Bachelors Degree. The Clarkston Campus transfers students primarily to WSU, Lewis-Clark State College, and the University of Idaho through articulation agreements.
- Associate Degree in Applied Arts and Sciences (AAAS)—Two-year Professional-Technical Degree in specific professional-technical programs
- One-Year Professional-Technical Certificate

Adult Learning Campus

Adult basic education (ABE) including reading, writing, and math for adults. English as Second Language (ESL) is available as evening instruction for those needing to improve their English language skills.

Art

Art courses are provided in cooperation with the Valley Art Center in Clarkston.

Associated Student Body Clubs

Cultural Club	Second-Year Nursing
First-Year Nursing	Sports Club
Phi Beta Lambda	TRiO
Phi Theta Kappa	School Newspaper

For Information Call 509.758.1718

Accounting/Business/Office Technology

Degrees leading to careers in the following areas: Accounting Technology, and Administrative Office Professional. One-year certificates offered include Bookkeeping, Office Assistant, Legal Administrative Assistant, Medical Billing & Coding, and Medical Transcription.

A one-year certificate for Medical Assisting is available to students interested in a career that blends front office work with patient care.

English as a Second Language

Offered to individuals whose native language is not English.

Extended Learning Opportunities

Special workshops, seminars, and short courses are offered throughout the year to meet the continuing education needs of those already employed but required to update skills necessary in their professions. Courses available include a wide variety of computer classes, first aid, flagging, nursing assistant, parenting, childcare, EMT, advanced EMT, phlebotomy, and medical lab technology.

GED Preparation

This program is designed to help students pass the five GED tests in Writing Skills, Social Studies, Science, Interpreting Literature and the Arts, and Mathematics. Spanish GED tests are also available. The student must be 19 years of age or older or, if between the ages 16 to 19, must have a release signed by the local high school. Upon successful completion, the student will receive a Certificate of Educational Competence (High School Equivalency) from the Washington State Superintendent of Public Instruction and the Executive Director of the Washington State Board for Community and Technical Education.

Nursing

509.758.1702 – Clarkston

The program is accredited by the National League for Nursing and offers:

- 1-year LPN (Licensed Practical Nurse)
- 2-year RN (Registered Nurse)
- An articulation agreement with Washington State University is available for students interested in a four-year Bachelor of Science in Nursing from WSU.
- Articulation pathways for the RN to BSN are available with Lewis-Clark State College.

Counseling and Advising

509.758.1772 - Clarkston

Special workshops, seminars, and short courses are offered throughout the year to meet the continuing education needs of those already employed but required to update skills necessary in their professions. Interested individuals may also call WorkSource at 758-1716 for more information about programs and services available on the Clarkston Campus.

Childcare On-Campus

509.758.1779 – Clarkston

The childcare center is open weekdays for children from one to six years old. Hours within the operating day are flexible to accommodate varying schedules.

ADDITIONAL EDUCATIONAL OPPORTUNITIES

Student Support Services/TRiO

509.758.1721 – Clarkston 509.527.4638 – Walla Walla

The Student Support Services program aims to increase student retention, graduation and transfer rates for 280 enrolled participants. Students must either be a first generation college student (neither parent has graduated from a four-year college), low income, or a student with a disability, and enrolled in six or more college-level credits in academic coursework. Students must be pursuing an associate's degree at WWCC and planning to transfer to a four-year college after completing the associate's degree.

Some of the services provided by SSS/TRiO are:

- Personal, career, and academic advising
- Free one-to-one Math and Science tutorial services
- Scholarship and Financial Aid planning/monitoring
- Transfer planning to four-year colleges including campus visits
- Access to TRiO's lending library which includes laptop computers, textbooks clickers, recorders, and calculators

The program application is available at the SSS/TRiO office or on the web at http://wwcc.edu/CMS/fileadmin/PDF/TRiO/TRiO_application.pdf

Tutoring

509.758.1788 or 509.758.1701 - Clarkston

Free peer group tutoring is available through the Learning Center located on the north mezzanine, throughout the instructional day. Individual peer tutoring for TRiO students and some WorkFirst program participants can be arranged through the Learning Center.

Persons interested in knowing more about the Clarkston Campus are encouraged to visit the campus located at 1470 Bridge Street, Clarkston, Washington, or call 509.758.3339 (toll-free 1.877.471.6629). Mailing address: Clarkston Campus, P.O. Box 700, Clarkston, WA 99403.

Transitional Studies

509.527.4646 or 509.524.4808 – Walla Walla •
509.758.1261 - Clarkston

The mission of the Walla Walla Community College Transitional Studies Department is to provide the highest quality of educational instruction to students studying the basic skills needed to reach their educational and occupational goals. The Department of Transitional Studies offers a variety of courses and services to help students upgrade skills in reading, writing, communication, and mathematics. High school classes that meet Washington State graduation requirements are offered. Students may also prepare for the General Education Development (GED) examination. Instruction in the English language for non-English speakers is available daily.

Classes are held on main campus and at various sites throughout the college's service area. For more information, call the Transitional Studies Department 509.527.4646 or 524-4808 in

Walla Walla and 509.758.1261 in Clarkston.

The following programs and courses are offered by the Department of Transitional Studies.

Pre-College Studies

Courses are offered in reading, writing, study skills, and math. Coursework prepares students for success in college level courses and professional technical programs. Students are placed in the appropriate course after being assessed using Compass reading, math, and writing placement. Check the tuition and fee schedule available online.

Adult Basic Education (ABE)

Adult Basic Education courses serve students age 18 or older who have not completed high school. Students between the ages 16 and 18 must complete the Underage application and process (available online) to be eligible to receive services in ABE. These courses are designed to upgrade basic skills in reading, writing, math, science, and social studies to the eighth grade level. Students are placed using CASAS assessment at entry and placed at consistent with Washington State Learning standards. Check the tuition and fee schedule available online.

GED Preparation

This program is designed to help students pass the five GED tests in Writing Skills, Social Studies, Science, Interpreting Literature and the Arts, and Mathematics. Courses for Spanish GED are also available. The student must be 19 years of age or older, or if between the ages of 16 to 19, must have a State Board GED release signed by the student's local high school principal. Upon successful completion, the student will receive a Certificate of Educational Competence (High School Equivalency) from the Washington State Superintendent of Public Instruction and the Executive Director of the Washington State Board for Community and Technical Education. Check the tuition and fee schedule available online.

English as a Second Language

Courses in English as a Second Language are offered to speakers of other languages. Instruction is designed to help students acquire skills in understanding, speaking, reading, and writing needed to fully engage in all aspects of life including in the workforce. Students are assessed using eCASAS at entry and placed at one of the five levels consistent with Washington State Learning standards. On-going pre and post eCASAS assessment is required. Class fees are \$25 per quarter.

Integrated Basic Education Skills Training

509.527.4328 – Walla Walla

I-BEST courses combine adult education with workforce training. All classes have two instructors in the classroom offering students opportunity for instruction in select professional-technical fields along with support for development of basic skills such as reading, writing, math, or language. All courses lead to a

ADDITIONAL EDUCATIONAL OPPORTUNITIES

certificate in a high-demand career. Adult students and out of school youth are assessed at entry using eCASAS to determine qualification based on a minimum reading and math score. On-going pre and post eCASAS assessment is required.

For more information about I-BEST offerings contact 527-4328.

eLearning

eLearning courses offer students a flexible alternative to on-campus classes. Students participate in the course on their own schedule and at a location most convenient for them. eLearning students can be anyone from those seeking to earn their AA Degree entirely online to those in the workplace looking to take one or two classes for career development. For more information on eLearning courses contact 509.527.4331.

High School Completion & Dual Enrollment Options

High School Diploma with Associate Degree Completion

509.527.4284 - Walla Walla

All students who are 21 years of age and older and who earn an associate's degree from the College are eligible to submit a written request and receive a college-based high school diploma in accordance with SHB 1758.

All students younger than 21 years old, who have been enrolled in Running Start at any time, are eligible to submit a written request and receive a college-based high school diploma upon completion of an associate degree in accordance with SHB 1758. Students may apply regardless if they are currently enrolled in Running Start or not.

Alternative Education Program

509.527.4324 - Walla Walla

The Alternative Education Program (AEP) provides Washington State students an educational opportunity outside the traditional high school setting. Selected students between 16 and 21 years of age, who have not earned a high school diploma, may be eligible to participate. Students who are enrolled in local area high schools are referred to the program by high school officials. Students who have passed their graduation year or dropped out can directly inquire about AEP. The program, which is a partnership with the Walla Walla School District, covers the cost of tuition and books for program participants. All students must apply for admission to the College and complete the COMPASS placement test prior to meeting with the Director of High School Programs.

High School Completion

509.527.4262 - Walla Walla • 509.758.1718 - Clarkston

High School Completion provides another alternative for students needing to complete their high school diploma. In order to enroll in the program, students must bring transcripts from

all high schools they have attended. Students must apply for admission to the College and complete the COMPASS placement test prior to meeting with an advisor. Washington residents who are 19 years old or older pay reduced tuition. Check the current tuition and fee schedule available online. Non-residents are eligible for this program but may be subject to paying out-of-state tuition rates. Interested applicants should call the Student Development Center to make an advising appointment after submitting all high school transcripts for review.

Running Start

509.527.4262 - Walla Walla • 509.758.1718 - Clarkston

Running Start, a program created by the Washington State legislature, provides an opportunity for juniors and seniors in public high schools to enroll in courses at Walla Walla Community College. Junior and senior status is determined by the student's local high school. This program provides eligible students an opportunity to attend college courses and earn college credits, tuition-free, while completing high school graduation requirements. Home-schooled and private school students must enroll in a public high school to participate in this program. Running Start students qualify by taking the COMPASS placement test and meeting with their high school counselor in addition to a WWCC advisor. Running Start students pay quarterly tuition and fees based on a combination of their high school and college enrollment and must pay for their own textbooks. Students may qualify for fee waivers and some textbook assistance by providing documentation (example: free or reduced lunch) to their Running Start advisor by the first day of the quarter.

Tech Prep

509.527.4639 - Walla Walla

Tech Prep is a collaborative program between WWCC and regional high schools where students have the opportunity to earn college credits in certain courses that are offered in the high school. College content and standards are specified through a Competency Profile of the Student Learning Objectives for each course. High schools integrate college content into the high school curriculum. To earn college credits for Tech Prep Program courses students must complete a list of course competencies as defined by the program.

Community Connections

COMMUNITY CONNECTIONS

Agriculture Center of Excellence

The **Agriculture Center of Excellence** responds to workforce training needs of educational institutions and the agricultural industry across Washington. This includes the expansion of existing programs and creation of new program options within the community and technical college system in order to address industry demand in rural, urban, and related agriculture services. The Agriculture Center of Excellence is one of ten Centers of Excellence in the state designed to build and sustain Washington's competitive advantage, www.agcenterofexcellence.com.

Business and Professional Development

Programs for Business and Professional Development are offered in the Department of Extended Learning. Education and training opportunities are provided in areas of management and personnel development to businesses, agencies, organizations, and individuals in the Walla Walla Community College District. Training is provided in the form of seminars, workshops, and online courses.

Lifelong Learning through Extended Learning

Lifelong Learning classes for adults 60+ are offered with a variety of topics including fitness, technology, writing, art, and craft classes.

Quest is a membership institute for adults 50+ who are eager to design learning opportunities that emphasize academic instruction. The Quest Steering Committee meets quarterly and suggests class topics that range from classroom instruction to field trips and tours.

Foundation

Since 1982, the Walla Walla Community College Foundation has supported the programs, facilities and targeted needs of students and faculty. The Foundation has nurtured relationships with individuals and businesses in creating numerous scholarship and support funds for students; and has served as an important conduit for facility and equipment needs. The Foundation also works with various organizations in securing grant and gift funds for the college.

The Institute for Enology and Viticulture

The Center was established in January 2000 to provide students with hands-on experience in wine making and viticulture as well as wine sales and marketing. It is home to one of the first full-production teaching wineries in the United States and also houses a certified wine laboratory and commercial kitchen. Located near the Center are five acres of teaching vineyards with a demonstration block of various trellising systems.

The Center for Enology and Viticulture offers courses that allow students to earn a Viticulture Certificate or Associate in Applied Arts and Sciences degree in Enology and Viticulture. Students may also choose to earn an Associate in Applied Arts and Sciences Degree in Wine Marketing and Management through the Agri-Business program. Courses are tailored to meet the specific needs of the wine industry with special emphasis given to Washington grape varieties and wines. The Center also offers many industry-focused short courses and seminars throughout the year to meet the educational needs of the Pacific Northwest wine industry. For current information, interested students should contact: 509.524.5170; fax 509.525.2249.

William A. Grant Water & Environmental Center (WEC)

The William A. Grant Water & Environmental Center (WEC) at WWCC focuses on collaboration and education for environmental and economic sustainability. The WEC facilitates regional and local partnership programs, provides community and K-12 education opportunities, and coordinates the WWCC Watershed Ecology degree program, campus sustainability and "Go Green Club" activities.

Community Events and Programs

- Special interest classes.
- Free community workshops and events focused on natural resource management and conservation.
- K-12 Hands-On Learning experiential environmental education programs.

The WEC cooperates with all interested parties to create an academic and community-based learning environment. The WEC provides resources and links to other organizations both online and on campus, with spaces leased by local and state governmental agencies, local non-profit organizations, and the Confederated Tribes of the Umatilla Indian Reservation.

Degrees

DEGREES

Transfer Degrees Summary Chart

For all transfer option listed below, students should contact the transfer institution for any additional requirements, procedures for admission, and to determine an appropriate education plan.

DEGREE	DESCRIPTION	CREDITS
Associate in Arts – DTA*	This degree is designed to transfer to bachelors of arts degrees at most Washington four-year institutions. This degree is appropriate for students planning to major in the arts, humanities and social sciences.	90
Associate in Arts – DTA* (Emphasis in Agriculture)	WWCC has articulated many associate in arts degrees with an emphasis in agriculture with both Washington State University and the University of Idaho.	90+
Associate in Business – DTA/ MRP**	This degree is designed for students transferring to a four-year institution to major in business.	90
Associate in Science – Option I	This degree is designed to prepare students for upper division study in the areas of biological sciences, chemistry, geology or environmental/resource sciences & earth science.	90
Associate in Science – Option II	This degree is designed to prepare students for upper division study in the areas of engineering, computer science, physics & atmospheric sciences.	90
Associate in Elementary Education – DTA/MRP	This Associate degree is designed for students transferring to a four-year institution in the state of Washington to major in elementary education.	90
Associate in Math Education – DTA/MRP	This Associate degree is for students planning to major in secondary math education at a four-year institution in the state of Washington.	90
Associate in Applied Science – T Early Childhood Education	This is a dual-purpose degree that is intended to prepare students for employment in Early Childhood Education programs such as Head Start, childcare, or preschool settings, and for transfer to specific baccalaureate degree programs.	94
Associate in Biology – DTA/MRP**	This Associate degree streamlines and facilitates preparation for upper division coursework in Biology for transfer to many four-year institutions in the state of Washington.	90

*DTA stands for Direct Transfer Agreement.

**MRP stands for Major Related Program.

Degrees

Each degree includes areas of study representing the breadth requirements to be completed. By completing these courses, students will develop skills and understanding related to the College core abilities -- communication, critical thinking, personal and professional responsibility, diversity/appreciation of differences, information/technology, and lifelong learning -- that shape the overall objectives of each degree.

Residence Requirements

1. A minimum of 30 credits that apply toward the degree earned at WWCC, and;
2. A minimum of two (2) quarters enrolled at WWCC, and;
3. Last 12 credits to be earned in Professional-Technical programs at WWCC unless waived by the Vice President of Instruction. This requirement does not apply to students earning transfer degrees [Associate of Arts degrees (AA), Associate of Science-Transfer degrees (AS-T), Major Related Program Direct Transfer Agreements (MRP/DTA)].
4. Students who leave WWCC without a transfer degree may transfer the required remaining credits from an accredited college back to WWCC to have their degree posted. Students need to meet the above requirements and send an official transcript from the transfer college to WWCC. For more information, please contact the Office of Admissions and Records.

Transfer Policy and Information

Walla Walla Community College offers courses in most academic areas. These courses meet requirements for associates' degrees and will transfer to four-year institutions within guidelines established by those schools. The courses and degrees offered are designed to enable the student to make a successful transition to a four-year institution. Students who plan to transfer to a specific college or university should work with a transfer advisor both at the community college and at the four-year institution they plan to attend.

While the agreements with Baccalaureate institutions assure the transfer of credit, the admission to a particular university or university program is not assured. Each institution has separate admission criteria which can be based on grades, prerequisite coursework, test scores, and other considerations.

Students who plan to transfer to a university should attend a college transfer workshop, work with a community college advisor, and make early contact with their intended transfer school.

Many universities have advisors who visit WWCC. Students are encouraged to visit with these representatives when they are on campus.

Ultimately, it is the student's responsibility to become knowledgeable about the admission and graduation requirements of the four-year institution he or she plans to attend.

For more information about transfer programs, contact the Academic Education Office (509.527.4212), the Student Development Center (509.527.4262) or the Transfer Center (509.527.3679) in Walla Walla and (509.758.1718) in Clarkston.

Reciprocity Agreement

Washington Community and Technical Colleges (CTC) offer reciprocity to students transferring within the CTC system who are pursuing the Direct Transfer Agreement (DTA) Degree or the Associate in Science-Transfer (AS-T) Degree. Students who have completed an individual course that met distribution degree requirements or fulfilled entire areas of their degree requirements at one college will be considered to have met those same requirements if they plan to complete the same degree when they transfer to another community or technical college in Washington. These degree requirements include Communication Skills, Quantitative Skills, or one or more Distribution Area requirements. Students must initiate the review process and must be prepared to provide necessary documentation. For complete information, students should contact the Vice President of Instruction or the Admissions Office.

Transfer Rights and Responsibilities

Source: www.wsac.wa.gov

Student Rights and Responsibilities

Students have the right to clear, accurate, and current information about their transfer admission requirements, transfer admission deadlines, degree requirements, and transfer policies that include course equivalencies.

Transfer and freshman-entry students have the right to expect comparable standards for regular admission to programs and comparable program requirements.

Students have the right to seek clarification regarding their transfer evaluation and may request the reconsideration of any aspect of that evaluation. In response, the college will follow established practices and processes for reviewing its transfer credit decisions.

Students who encounter other transfer difficulties have the right to seek resolution. Each Institution will have a defined process for resolution that is published and readily available to students.

Students have the responsibility to complete all materials required for admission and to submit the application on or before the published deadlines.

Students have the responsibility to plan their courses of study by referring to the specific published degree requirements of the college or academic program in which they intend to earn a bachelor's degree.

When a student changes a major or degree program, the student assumes full responsibility for meeting the new requirements.

College and University Rights and Responsibilities

Colleges and universities have the right and authority to determine program requirements and course offerings in accordance with their institutional missions.

Colleges and universities have the responsibility to communicate and publish their requirements and course offerings to students and the public, including information about student transfer rights and responsibilities.

Colleges and universities have the responsibility to communicate their admission and transfer related decisions to students in writing (electronic or paper).

Transfer Agreements

Direct Transfer Agreements with Four-Year Institutions

The baccalaureate (four-year) colleges and universities in Washington state listed below subscribe to the Inter-college Relations Commissions (ICRC) Guidelines for Direct Transfer Agreement (DTA). The DTA associates' degrees are recognized as fulfilling most, if not all, of the general education requirements for these institutions. Students who complete a DTA will normally be granted junior standing upon admission. Students should check with their intended transfer institution for further details regarding any additional general education, major prerequisites and admission requirements. This list is subject to change. See your advisor for updated information and details of transfer.

Bastyr University
Central Washington University
City University
Cornish College of the Arts
Eastern Washington University
The Evergreen State College
Gonzaga University
Heritage University
Northwest University
Pacific Lutheran University
Saint Martin's University
Seattle Pacific University
Seattle University
Trinity Lutheran College
University of Washington
University of Washington - Bothell
University of Washington - Tacoma
Washington State University
Washington State University - Tri-Cities
Washington State University - Vancouver
Western Washington University
Whitworth College

Other Transfer Agreements

Walla Walla Community College has transfer agreements with a number of other four-year institutions such as Lewis-Clark State College, University of Idaho and Western Governors University. For the most accurate list of all transfer agreements, visit the Transfer Information webpage or the WWCC Transfer Center.

Major Related Program Agreements (MRP)

To help transfer students better prepare for the junior year, two-year and four-year institutions work together to create transfer associate pathways outlining the appropriate courses in order for students to be well prepared to enter the major upon transfer - Major Related Program (MRP) pathways follow one of the two statewide transfer agreements - the DTA format or the Associate in Science (AS-T) format. (See Transfer Degrees Summary Chart for a list of MRP's)

Associate in Arts Degree Requirements

(Direct Transfer Agreement)

This degree is designed for students planning to transfer to a baccalaureate institution with junior standing. Students pursuing this degree should plan their programs at Walla Walla Community College in accordance with the requirements of the institution to which they plan to transfer.

To earn the Associate in Arts Degree (AA-DTA), a student must complete at least 90 credit hours in designated college transfer courses numbered 100 or above with a minimum college-level GPA of 2.0, and include a minimum of 63 credit hours in general education courses to fulfill the learning outcomes as described in this section.

Important Notice

Within the Associate in Arts Degree, 75 of the 90 credits should be fully transferrable as defined by the receiving baccalaureate institution. Transfer students should plan their degrees in accordance with the requirements of the institution to which they plan to transfer. They should also be aware that colleges within universities may have admission requirements significantly higher than the 2.0 GPA required for the AA Degree and that they may look at performance in specific classes in determining a student's admission.

Selecting the appropriate courses in fulfilling the AA Degree saves students time and expense in completing the requirements of a bachelor's degree. Courses that are considered upper division (junior-senior level) at a baccalaureate institution may need to be repeated if taken at a community college.

Students may meet graduation requirements in the catalog current at the time of their initial enrollment, provided enrollment toward their educational objective is continuous (from quarter to quarter) during the academic years involved. Otherwise, graduation requirements will be those listed in the catalog in use at the time of graduation.

DEGREES

Students intending to transfer courses from professional-technical degrees should consult with department advisor, transfer center staff, and advisor at the baccalaureate institution where they plan to transfer.

AA-DTA Degree Requirements

Communications	[C]	13 credits
*Diversity	[^D]	
Humanities	[H][HP]	15 credits
Natural Science	[NS]	15 credits
Quantitative Skills	[Q]	5 credits
Social Science	[SS]	15 credits
Physical Education	[PE]	3 credits
Electives		24 credits
AA-DTA Degree Total		90 credits

*New students starting at WWCC Fall 2010 and after are required to complete one diversity ^D course. This is met through distribution areas and does not increase the # of credits required for the degree. (See Diversity Requirements)
See AA-DTA guide for specific details

Important Requirements for the AA-DTA Degree

Intermediate Algebra Proficiency

All students must be proficient in intermediate algebra. This requirement may be satisfied by completion of high school mathematics through second year algebra (as determined by WWCC Math Department review of HS transcript), by course challenge or other placement examination demonstrating mastery of intermediate algebra skills, or by completion of an intermediate algebra course equivalent to MATH 095 with a minimum grade of C- or a mathematics course for which intermediate algebra is a prerequisite.

Electives - 24 credits

Other college-level courses, of which a maximum of 15 credits may be in college-level as defined by WWCC (please see ICRC List - Column 3) and 9 credits shall be fully transferable as defined by the receiving Institution (please see ICRC List - Column 2).

Diversity Requirement for the AA-DTA - Effective Fall 2010

The diversity requirement is in support of the values of our college. Courses meeting the WWCC Diversity requirement are distributed throughout the General Education categories and are double-designated with other distribution requirements. New students starting at WWCC Fall 2010 and after are required to complete one diversity ^D course.

All approved “^D” Diversity courses:

ART 124	Women Artists in History	
CMST 201	Intercultural Communications	(formerly SPCH 201)
ENGL 210	Myth and Folklore	(formerly LIT 210)
ENGL 245	American Literature	(formerly LIT 245)
ENGL 251	Voices of Women in Literature	(formerly LIT 251)
ENGL 265	World Literature	(formerly LIT 265)

HIST& 215	Women in U.S. History	
HIST 250	Introduction to Latin America	(formerly HIST 280)
HPER 268	Diversity in Sports	
HUM 107	Gender Perceptions in American Film	
HUM 110	Four Perspectives in the History of Ideas	
MUSC& 105	Music Appreciation	(formerly MUS 101)
PHIL 103	Asian Philosophy	
PSYC 113	Human Sexuality	(formerly PSY 113)
PSYC 205	Social Psychology	(formerly PSY 205)
SOC& 101	Introduction to Sociology	(formerly SOC 101)
SOC 205	Race and Ethnic Relations	
SOC 206	Social Gerontology and the Aging Revolution	
SOC 208	Sociology of Intimate and Family Relations	
SOC 220	Gender & Society	
WST 113	Human Sexuality	
WST 123	Women Artists in History	
WST 200	Introduction to Women's Studies	
WST 215	Women in U.S. History	(formerly WST 280)
WST 220	Gender & Society	
WST 251	Voices of Women in Literature	

Course Designators For Degree Requirements

These designators are included in course descriptions to indicate which degree requirements specific courses meet.

Communications	[C]
Diversity	[^D]
Humanities	[H]
(Performing/Fine Arts)	[HP]
Natural Science	[NS]
Quantitative Skills	[Q]
Physical Education	[PE]
Social Science	[SS]

Note: Courses that are denoted with an “&” behind the department code are commonly shared among Washington community and technical colleges. Ex. ENGL& 101

Associate in Science Transfer Degree

The Associate in Science Transfer Degree is intended for students majoring in science who wish to transfer as juniors to four-year institutions in Washington. Two different options are offered: 1) biological science, chemistry, geology, environmental/resource sciences, and earth science or 2) computer science, physics, atmospheric science, and engineering. This degree allows students to concentrate on fulfilling pre-major coursework in their intended field of study.

Students may earn an Associate in Science (AS) Degree, which is designed for those who complete a 90 credit program that is parallel with the first two years of a baccalaureate institution to which they intend to transfer. A cumulative GPA of 2.0 or higher is required for successful completion of this degree.

Coursework is concentrated in specific mathematics and sciences requirements. Additional coursework in general education,

DEGREES

humanities and social sciences will be required at the transfer institution. Some remaining general education requirements may be satisfied with upper division courses. Students need to meet with department advisors at the baccalaureate institution to determine an appropriate educational plan.

Associate in Applied Arts and Sciences Degree

This Associate in Applied Arts and Sciences (AAAS) Degree is designed primarily for students planning to enter a career directly upon graduation. Requirements include the following:

- A minimum of 90 quarter credits in an approved program.
- Six quarters of instruction or the instructor's recommendation.
- Last 12 credits to be earned at WWCC unless waived by the Vice President of Instruction.
- A minimum of 30 quarter credits within the specified program must be taken in residence.
- A cumulative GPA of 2.0.
- A minimum of 16 credits in related instruction.
- Certain professional-technical programs require minimum proficiency levels and/or a minimum number of clock hours of attendance.
- Most professional-technical programs have program-specific requirements; see course sequences and degree requirements listed under each program.

Related Instruction Requirements: 16 Credits

Additional related studies courses may be developed or approved. See a current quarterly class schedule for additional information.

Courses designated as meeting related instruction requirements for certificates and degrees are listed in each professional-technical program course sequence. These courses utilize the following initials:

W = Written Communications
M = Computation/Mathematics
R = Human Relations
O = Oral Communications
J = Job Seeking Skills
L = Leadership Development

WRITTEN COMMUNICATIONS:

At least three (3) credits from the following list:

ENGL 097 Expository Writing
ENGL& 101 English Composition
BUS 137 Business Communications
WRITE 100 Applied Writing
WMGT 135, 139, 204* Cultures of Water, Watershed Management, Water Policy

COMPUTATION / MATHEMATICS:

Students should check with their advisor for the minimum level of computation required in their program. At least four (4) credits from the following list:

BUS 112 Business Mathematics
MATH Mathematics to include Math 049, Math 050, Math 065 or higher
OCSUP 106 Applied Mathematics I
OCSUP 107 Introduction to Technical Mathematics
OCSUP 108 Applied Mathematics II
MEDA 105 Health Occupations Mathematics

HUMAN RELATIONS:

At least two (2) credits from the following list:

BUS 102 Customer Service
BUS 157 Human Relations in Business
OCSUP 101 Job Psychology: Workplace and Educational Success Skills
PSYC& 100 General Psychology
PSYC 111 Effective Interpersonal Relationships
MEDA 114 Therapeutic Relationships
XXX 192 Cooperative Seminar I
WMGT 135 Cultures of Water

ORAL COMMUNICATIONS:

At least three (3) credits from the following list:

CMST& 220 Public Speaking
CMST 102 Oral Communications and Interpersonal Relationships
OCSUP 102 Oral Communication in the Workplace
CMST 201 Intercultural Communication
CMST 105 Oral Interpretation
WMGT 135, 139, 204* Cultures of Water, Watershed Management, Water Policy

JOB SEEKING SKILLS:

At least three (3) credits from the following list:

AGPR 100 Orientation to Agriculture
BUS 292 Business Leadership Seminar
CS 292 Cooperative Seminar II
OCSUP 103 Job Seeking Skills
PSYC 140 Career and Life Planning
EV 108 Wine Industry Employment
FCA 100 Introduction to Firefighting

LEADERSHIP:

At least one (1) credit from the following list:

OCSUP 299 Principles of Leadership
BUS 192 Business Leadership Seminar
CLS 180 Workforce Leadership Development
POLS 125, 126, 127 Student Leadership
XXX 299 Program Specific Leadership
CS 292 Cooperative Seminar II
MEDA 192 Medical Assisting Seminar

***All three courses must be taken in order to count for Written Communications and Oral Communications requirement.**

Certificates and Endorsements

Students who complete core courses in one year of an approved professional-technical program and nine credits of related instruction may receive a certificate upon request from the student.

A Short Program Endorsement may be provided to completers of state authorized programs upon request from the student. The authorized Short Program Endorsement requires 19 credits (or fewer) and is completed in one quarter (or fewer). Refer to the appropriate program for sequence information.

Workforce Program Information

Professional-Technical programs provide instruction in the knowledge and skills required in a wide variety of occupations that demand education beyond high school. Students prepare for employment by completing a two-year Associate degree in Applied Arts and Sciences or by completing shorter-term certificate programs. Also offered are refresher, update, and improvement courses for students with occupational experience. Programs are taught by skilled, industry-knowledgeable instructors who are guided by industry advisory committees and state and national industry skill standards. In many fields Professional-Technical education may enhance employment opportunities by providing the student with the education and industry certifications desired by employers.

Alternatives for the Transfer of Professional-Technical Programs

Some colleges and universities offer special transfer arrangements for students in professional-technical programs to work toward a baccalaureate degree. Other alternatives for the transfer of professional-technical programs are being developed by individual colleges. Students should contact the admissions office at the baccalaureate institutions for specific details.

ICRC Recommendation Credit Transfer

		Dependent on transfer institution guidelines: consult advisor all special topics, field studies, and independent studies courses			Dependent on transfer institution guidelines: consult advisor all special topics, field studies, and independent studies courses
WWCC Programs	Transferable		WWCC Programs	Transferable	
Accounting	ACCT 201-203	All Courses	Farrier Science		All Courses
Agri-Business	AGRI 201	All Courses	Fire Science		All Courses
Agriculture Science	AGPR 201	All Other Courses	French	FREN 121-203	All Other Courses
Alcohol and Chemical Dependency	ALCDA 231	All Other Courses	Geography		All Courses
Allied Health and Safety Education		All Courses	Geology		All Courses
American Sign Language	ASL& 121,122,123		History		All Courses
Anthropology		All Courses	Humanities		All Courses
Art	All Courses	ART 108	Irrigation Technology		All Courses
Astronomy		All Courses	John Deere Dealership Management		All Courses
Auto Body Repair Technology		All Courses	John Deere Technology		All Courses
Automotive Repair Technology		All Courses	Library		All Courses
Biology	All Other Courses	BIO 119, 170	Literature		All Courses
Business Administration	BUS 101, 201	All Other Courses	Mathematics		All Courses
Carpentry		All Courses	Medical Assisting		All Courses
Chemistry		All Courses	Music		All Courses
Civil Engineering Technology	ENGR 111,112, 214, 225	All Courses	Natural Resources		All Courses
Collaborative Leadership Studies		All Courses	Nursing		All Courses
College Experience		All Courses	Nutrition	NUTR 101	
Commercial Truck Driving		All Courses	Occupational Support		All Courses
Communications	All Other Courses	CMST 119, 230	Oceanography	OCEA 101	
Computer Science	CS 115,131, 141.	All Other Courses	Office Technology		All Courses
Cosmetology		All Courses	Outdoor Power and Turf Equipment Technician		All Courses
Criminal Justice	CJ 101, 110, 112, 202.	All Other Courses	Philosophy		All Courses
Culinary Arts		All Courses	Physical Education -Non Activity		All Courses
Dance		All Courses	Physical Education -Activity	3 Credits Max	
Diesel Technology		All Courses	Physics		All Courses
Drama		All Courses	Political Science		All Courses
Early Childhood Education	ECE 101, 155	All Other Courses	Professional Golf Management		All Courses
Economics		All Courses	Psychology	PSYC 100-139,160-225.	PSYC 140
Education	ED 111, EDUC 115, 202, 203	All Other Courses	Sociology		All Courses
Energy Systems Technology		All Courses	Spanish	SPAN 121-203	All Other Courses
English	ENGL 101,102	All Other Courses	Turf Management		All Courses
Enology and Viticulture		All Courses	Water Management		All Courses
Environmental Studies	ENVS 101	All Other Courses	Welding Technology		All Courses
Family and Consumer Studies		All Courses	Women's Studies		All Courses
			Writing		All Courses

For the most current information see: www.wwcc.edu

AA DEGREE PLANNING GUIDE

COMMUNICATIONS [C]

At least 13 credits, including one course from each of the three subject areas.

ENGLISH I

ENGL& 101 English Composition I 5

or

ENGL 104 Advanced English Composition 5

ENGLISH II

ENGL& 102 English Composition II 5

COMMUNICATION STUDIES

CMST 102 Interpersonal Communication 3

CMST 105 Oral Interpretation 3

CMST 201 ^D Intercultural Communication 5

CMST& 220 Public Speaking 5

HUMANITIES [H] [HP]

A min. of 15 credits from three different subject areas including one literature course. No more than 5 credits allowed in modern languages at the 100 level. Up to 5 credits can be taken from selected performing/fine arts classes.

ART

ART& 100 Art Appreciation 5

ART 124 ^D *Women Artists in History 5

ART 127 History of Western Art I 5

ART 128 History of Western Art II 5

ART 129 History of Western Art III 5

HISTORY

HIST& 116 *Western Civilization I 5

HIST& 117 *Western Civilization II 5

HIST& 118 *Western Civilization III 5

HIST& 126 *World Civilization I 5

HIST& 127 *World Civilization II 5

HIST& 128 *World Civilization III 5

ART 115 Drawing for Farrier Sci. 1

ART 130/131/132 Painting I, II, III 4 ea.

ART 151/152/153 Printmaking I, II, III 4 ea.

ART 160/161/162 Ceramics I, II, III 4 ea.

ART 167/168/169 Sculpture I, II, III 4 ea.

ART 260/261/262 Ceramics/Sculp I, II, III 4 ea.

DRAMA

DRMA& 101 Introduction to Theatre 5

DRMA 225 Representative Plays 5

DRMA 226 Asian Plays 5

DRMA 281 Beginning Playwriting 5

HUMANITIES

HUM 106 Film Technique & Artistry 5

HUM 107 ^D Gender Perc. in American Films 5

HUM 109 World Arts & Culture 5

HUM 110 ^D Four Perspectives 5

HUM& 116 Humanities I 5

HUM& 117 Humanities II 5

HUM& 118 Humanities III 5

DRMA 151/152/153 Beg Acting I, II, III 3 ea.

DRMA 160 Acting for Film 5

DRMA 251/252/253 Int Acting I, II, III 3 ea.

DRMA 271/272/273 Beg/Int/Adv Directing 3 ea.

DRMA 290/291/292 Play Prod IV, V, VI 1-5 ea.

DRMA 295/296/297 Touring Thea IV, V, VI 3 ea.

ENGLISH

ENGL& 111 Introduction to Literature 5

ENGL& 112 Introduction to Fiction 5

ENGL& 113 Introduction to Poetry 5

ENGL 115 Arthurian Literature 3

ENGL 118 Baseball Lit & American Culture 5

ENGL 144 Introduction to Film 5

ENGL 147 Comic Books & Graphic Novels 5

ENGL 149 Classic Children's Literature 5

ENGL 210 ^D Myth & Folklore 5

ENGL 212 African-American Literature 3

ENGL 229 Environmental Literature 5

ENGL 245 ^D American Literature 5

ENGL 251 ^D *Voices of Women in Literature 5

ENGL 256 Literature of the American West 5

ENGL 257 Literature of the Inland Northwest 5

ENGL 261 Native American Literature 3

ENGL 265 ^D World Literature 5

ENGL 270 Detective & Spy Literature 3

ENGL 271 Science Fiction & Fantasy Literature 5

ENGL 277 The Bible as Literature 3

MODERN LANGUAGES

(max. 5 credits @ 100 level)

ASL& 121/122/123 Am. Sign Lang. I, II, III 5 ea.

FRCH& 121/122/123 French I, II, III 5 ea.

FRCH 201/202/203 French IV, V, VI 5 ea.

SPAN& 121/122/123 Spanish I, II, III 5 ea.

SPAN& 221/222/223 Spanish IV, V, VI 5 ea.

MUSC 106/107/108 Music Theory I, II, III 5 ea.

MUSC 116/117/118 College Voice I, II, III 1-2 ea.

MUSC 126/127/128 Jazz Combo I, II, III 1-3 ea.

MUSC 161/162/163 Vocal Ensemble I, II, III 2 ea.

MUSC 164 Spanish Chorus 2

MUSC 206/207/208 Music Theory IV, V, VI 5 ea.

MUSC 216/217/218 College Voice IV, V, VI 1-2 ea.

MUSC 226/227/228 Jazz Combo IV, V, VI 1-3 ea.

MUSC 261/262/263 Vocal Ensemble IV, V, VI 2 ea.

MUSIC

MUSC& 105 ^D Music Appreciation 5

MUSC 110 History of American Music 5

PERFORMANCE/FINE ARTS [HP]

(max. 5 credits)

ART 101/102/103 Drawing I, II, III 4 ea.

ART 104/105/106 Design I, II, III 4 ea.

ART 107 Fundamentals of Digital Art 5

ART 111 Intro to Studio Art Practices 4

PHILOSOPHY

PHIL& 101 Introduction to Philosophy 5

PHIL 103 ^D Asian Philosophy 5

PHIL& 106 Introduction to Logic 5

PHIL 120 Critical Thinking 5

PHIL 131 Introduction to Ethics 5

PHIL 205 Philosophy of Religion 5

WOMEN'S STUDIES

WST 124 ^D *Women Artists in History 5

WST 251 ^D *Voices of Women in Literature 5

QUANTITATIVE SKILLS [Q]

5 credits. Each of these courses requires a prerequisite of Math 095. Intermediate Algebra proficiency must be demonstrated. (See catalog.)

MATH

MATH& 107 Math in Society 5

MATH 115 Finite Math 5

MATH& 141 Precalculus I 5

MATH& 142 Precalculus II 5

MATH& 148 Business Calculus 5

MATH& 151 Calculus I 5

MATH& 152 Calculus II 5

MATH& 153 Calculus III 5

MATH 201 Intro to Statistics 5

MATH 206 Math for Elem School Teachers II 5

MATH 220 Linear Algebra 5

MATH 238 Differential Equations 5

MATH& 254 Calculus IV 5

SYMBOLIC REASONING

PHIL& 106 Introduction to Logic 5

QUANTITATIVE REASONING

CS 131 Introduction To Computer Science 5

DIVERSITY ^D

HPER 268 Diversity in Sports is a ^D elective.

Courses meeting the WWCC Diversity requirement are distributed throughout the General Education categories and are double-designated with other distribution requirements. New students starting at WWCC Fall 2010 and after are required to complete one diversity ^D course.

*EQUIVALENT CROSS-LISTED COURSES

Students may receive credit for only one of the cross-listed courses. (See course descriptions in college catalog.)

ELECTIVES

24 credits

Other college-level courses, of which a maximum of 15 credits (a max of 3 PE credits may be used) may be in college-level courses as defined by the community college, and the remainder shall be fully transferable as defined by the receiving institution. Where appropriate, preparation courses for the major should be included in this course work. (See ICRC Recommendations in the catalog or on the web.)

9 CREDITS (Fully Transferable)

15 CREDITS (College-Level)

AA DEGREE PLANNING GUIDE

ENGLISH

___ ABE
___ 77
___ 87
___ 97

COMPASS Placement:

READING

___ ABE
___ 78
___ 88

COMPASS Placement:

MATH

___ ABE
___ 49
___ 50
___ 65
___ 95

COMPASS Placement:

NATURAL SCIENCE [NS]

A min. of 15 credits from two different subject areas, including one lab science. No more than 5 credits in mathematics allowed. All courses listed are lab except Math and (non-lab).

AGRICULTURE

AGPR 101 *Intro to Environ Sciences 5
AGPR 201 Basic Soil Science 5

ANATOMY & PHYSIOLOGY

BIOL& 251 Human A & P I 5
BIOL& 252 Human A & P II 5
BIOL& 253 Human A & P III 5

ASTRONOMY

ASTR& 110 The Solar System 5
ASTR 115 Stellar Astronomy 5
ASTR 120 Galaxies, the Universe & Cosm 5

BIOLOGY

BIOL& 100 Survey of Biology 5
BIOL 121 *Biology of Women 3 (non lab)
BIOL& 160 General Biology 5
BIOL& 175 Human Biology 5
BIOL& 180 Intro to Conservation 5 (non lab)
BIOL& 211 Majors Cellular 5
BIOL 240 Prin of Conservation 5 (non lab)
BIOL& 260 Microbiology 5

BOTANY

BIOL& 213 Majors Plant 5
BIOL 221 Systematic Botany (Plant ID) 5

CHEMISTRY

CHEM& 105 Chemical Concepts 5 (non-lab)
CHEM& 110 Chemical Concepts 5
CHEM& 121 Intro to Chemistry 5

CHEM& 122 Intro to Organic Chemistry 5
CHEM& 123 Intro to Biochemistry 5
CHEM& 161 General Chemistry I 5
CHEM& 162 General Chemistry II 5
CHEM& 163 General Chemistry III 5

ECOLOGY

BIOL 130 General Ecology 5

ENVIRONMENTAL SCIENCE

ENVS& 101 *Intro to Environ Sciences 5

GEOGRAPHY

GEOG 105 Physical Geography 5
GEOG 170 Intro to Maps & Cartography 5
GEOG 210 Intro to Weather 5
GEOG 211 Intro to Climate & Climate Change 5 (non lab)

GEOLOGY

GEOL& 101 Intro Physical Geology 5
GEOL& 103 Historical Geology 5
GEOL& 110 Environmental Geology 5
GEOL 115 Survey of Earth Science 5
GEOL 130 Hist of Life on Earth 5 (non lab)
GEOL& 208 Geology of the Pacific NW 5

MATHEMATICS

(max. 5 credits/non lab)

MATH& 107 Math in Society 5
MATH 115 Finite Math 5
MATH& 141 Precalculus I 5
MATH& 142 Precalculus II 5

MATH& 148 Business Calculus 5
MATH& 151 Calculus I 5
MATH& 152 Calculus II 5
MATH& 153 Calculus III 5
MATH 201 Intro to Statistics 5
MATH 205 Math for Elem Teachers I 5
MATH 206 Math for Elem Teachers II 5
MATH 220 Linear Algebra 5
MATH 238 Differential Equations 5
MATH& 254 Calculus IV 5

NUTRITION

NUTR& 101 Nutrition 5 (non lab)

OCEANOGRAPHY

OCEA& 101 Intro to Oceanography 5

PHYSICS

PHYS& 110 Physics Non-Sci Majors 5
PHYS& 114 General Physics I 5
PHYS& 115 General Physics II 5
PHYS& 116 General Physics III 5
PHYS& 221 Engineering Physics I 5
PHYS& 222 Engineering Physics II 5
PHYS& 223 Engineering Physics III 5

WOMEN'S STUDIES

WST 121 *Biology of Women 3 (non lab)

ZOOLOGY

BIOL 202 Vertebrate Zoology 5
BIOL 205 Intro to Animal Behavior 5
BIOL& 212 Majors Animal 5

SOCIAL SCIENCE [SS]

A min. of 15 credits from three different subject areas, including one course from anthropology or psychology or sociology or history.

ANTHROPOLOGY

ANTH& 100 Survey of Anthropology 5
ANTH& 206 Cultural Anthropology 5

BUSINESS

BUS& 101 Intro to Business 5

CRIMINAL JUSTICE

CJ& 101 Intro to Criminal Justice 5
CJ& 112 Criminology 5
CJ 202 Crime & Delinquency 5

ECONOMICS

AGRI 201 *Microeconomics in Agriculture 5
ECON 200 Survey of Economics 5
ECON& 201 *Micro Economics 5
ECON& 202 Macro Economics 5

EDUCATION

EDUC& 202 Intro to Education 5

GEOGRAPHY

GEOG 201 Intro to World Reg. Geography 5

HISTORY

HIST& 116 *Western Civilization I 5
HIST& 117 *Western Civilization II 5
HIST& 118 *Western Civilization III 5

HIST 120 *American Presidency 5
HIST& 126 *World Civilization I 5
HIST& 127 *World Civilization II 5
HIST& 128 *World Civilization III 5
HIST& 146 US History I 5
HIST& 147 US History II 5
HIST& 148 US History III 5
HIST 205 American Environmental Hist. 5
HIST 211 *U.S. in World Affairs I 5
HIST 212 *U.S. in World Affairs II 5
HIST& 214 Pacific NW History 5
HIST& 215 *D *Women in US History 5
HIST 250 *D Intro to Latin America 5
HIST 255 Traditional East Asian Civ. 5
HIST 256 Modern East Asian Civilization 5
HIST 262 The Modern Middle East 5

POLITICAL SCIENCE

AGRI 222 *Agricultural Policy 5
POLS 120 *The American Presidency 5
POLS& 202 American Government 5
POLS 204 Constitutional Law 5
POLS 211 *U.S. in World Affairs I 5
POLS 212 *U.S. in World Affairs II 5
POLS 222 *Agricultural Policy 5

PSYCHOLOGY

PSYC& 100 General Psychology 5
PSYC 111 Psychology of Relationships 3

PSYC 113 *D *Human Sexuality 5
PSYC 139 *Psychology of Women 5
PSYC 160 Psychology of Crim. Behavior 5
PSYC&200 Lifespan Psychology 5
PSYC 205 *D Social Psychology 5
PSYC 207 Psychology of Personality 5
PSYC 219 Health Psychology 5
PSYC&220 Abnormal Psychology 5
PSYC 224 Environmental Psychology 5

SOCIOLOGY

SOC& 101 *D Intro to Sociology 5
SOC 150 Intro to Social Work 5
SOC& 201 Social Problems 5
SOC 204 Drugs and Society 5
SOC 205 *D Racial & Ethnic Relations 5
SOC 206 *D Social Ger. & Aging Rev. 5
SOC 208 *D Soc of Int. & Family Rel. 5
SOC 210 Contemporary Social Issues 5
SOC 220 *D *Gender & Society 5
SOC 230 Medical Sociology 5

WOMEN'S STUDIES

WST 113 *D *Human Sexuality 5
WST 139 *Psychology of Women 5
WST 200 *D Intro to Women's Studies 5
WST 215 *D *Women in U.S. History 5
WST 220 *D *Gender & Society 5

PHYSICAL ED [PE]

Three (3) unduplicated activity classes required. Waived for military service and by physician recommendation only. A maximum of three (3) additional physical education activity credits may be counted in the Electives (College-Level) area.

ACTIVITY CLASSES HPER and DANCE 100-199

Information subject to change.

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For the most current information see: www.wcc.edu

AS OPTION I DEGREE PLANNING GUIDE

AS: Associate in Science, Option I

PRE-MAJOR PROGRAM [NS]: 30 credits

Sequences should not be broken up between institutions.

Chemistry Sequence (for Science Majors)

15 credits.

CHEMISTRY

CHEM& 161 General Chemistry I 5
CHEM& 162 General Chemistry II 5
CHEM& 163 General Chemistry III 5

Biology or Physics Sequence

(Biology for Science Majors or Calculus or Non-calculus based Physics)

15 credits. Choose one of the following sequences:

BIOLOGY

BIOL& 211 Majors Cellular 5
BIOL& 212 Majors Animal 5
BIOL& 213 Majors Plant 5

PHYSICS

PHYS& 114 College Physics I 5
PHYS& 115 College Physics II 5
PHYS& 116 College Physics III 5

PHYSICS

PHYS 221 Engr Physics I 5
PHYS 222 Engr Physics II 5
PHYS 223 Engr Physics III 5

NATURAL SCIENCE [NS]

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 2 or 3 quarter sequence.

AGRICULTURE

AGPR 101 *Intro to Environ Sciences 5
AGPR 201 Basic Soil Science 5

ASTRONOMY

ASTR& 110 The Solar System 5
ASTR 115 Stellar Astronomy 5
ASTR 120 Galaxies, the Universe & Cosm 5

BIOLOGY

BIOL& 100 Survey of Biology 5
BIOL 121 *Biology of Women 3 (non lab)
BIOL 130 General Ecology 5
BIOL& 160 General Biology 5
BIOL& 175 Human Biology 5
BIOL 180 Intro to Conservation 5 (non lab)
BIOL 202 Vertebrate Zoology 5
BIOL 205 Intro to Animal Behavior 5
BIOL& 211 Majors Cellular 5
BIOL& 212 Majors Animal 5
BIOL& 213 Majors Plant 5
BIOL 221 Systematic Botany (Plant ID) 5
BIOL 240 Prin of Conservation 5 (non lab)

BIOL& 251 Human A & P I 5
BIOL& 252 Human A & P II 5
BIOL& 253 Human A & P III 5
BIOL& 260 Microbiology 5

ENVIRONMENTAL SCIENCE

ENVS& 101 *Intro to Environ Sciences 5

GEOGRAPHY

GEOG 105 Physical Geography 5
GEOG 170 Intro to Maps & Cartography 5
GEOG 210 Intro to Weather 5
GEOG 211 Intro to Climate 5 (non lab)

GEOLOGY

GEOL& 101 Intro Physical Geology 5
GEOL& 103 Historical Geology 5
GEOL& 110 Environmental Geology 5
GEOL 115 Survey of Earth Science 5
GEOL 130 Hist of Life on Earth 5 (non lab)
GEOL& 208 Geology of the Pacific NW 5

MATH

MATH& 153 Calculus III 5
MATH 201 Intro to Statistics 5
MATH 220 Linear Algebra 5
MATH 238 Differential Equations 5
MATH& 254 Calculus IV 5

NUTRITION

NUTR& 101 Nutrition 5 (non lab)

OCEANOGRAPHY

OCEA& 101 Intro to Oceanography 5

PHYSICS

PHYS& 110 Physics for Non-Science Majors 5
PHYS& 114 General Physics I 5
PHYS& 115 General Physics II 5
PHYS& 116 General Physics III 5
PHYS& 221 Engr Physics I 5
PHYS& 222 Engr Physics II 5
PHYS& 223 Engr Physics III 5

WOMEN'S STUDIES

WST 121 *Biology of Women 3 (non lab)

QUANTITATIVE SKILLS [Q]

At least 15 credits in courses at or above introductory calculus level.

MATH

MATH& 151 Calculus I 5
MATH& 152 Calculus II 5

MATH& 153 Calculus III 5
MATH 201 Intro to Statistics 5
MATH 220 Linear Algebra 5

MATH 238 Differential Equations 5
MATH& 254 Calculus IV 5

ELECTIVES

12 credits

The remaining 12 credits must be approved academic electives. These may include prerequisites for major courses (e.g., pre-calculus), additional major coursework, or specific general education or other university requirements, as approved by the advisor. Seven (7) credits must be fully transferable as defined by the ICRC guidelines for the Direct-Transfer agreement to be honored by four-year institutions in Washington. A maximum of 5 credits of restricted elective courses will be accepted (a max of 3 PE credits may be used).

7 CREDITS (Fully Transferable)

5 CREDITS (College-Level/Restricted)

*EQUIVALENT CROSS-LISTED COURSES

Students may receive credit for only one of the cross listed courses. (See course descriptions in college catalog.)

PHYSICAL ED [PE]

Three (3) unduplicated activity classes required. Waived for military service and by physician recommendation only.

ACTIVITY CLASSES HPER and DANCE 100-199

Important Notice: The Associate in Science Transfer (AS-T) Degree, Option I is designed to prepare students for upper division study in the areas of biological sciences, environmental/resource sciences, chemistry, geology, and earth science. Completing the AS-T degree will prepare students for upper division study; it does not guarantee students admission to the major. Students must earn 90 credits and a cumulative GPA of 2.0 or higher.

Students completing this AS-T will receive the same priority consideration for admission to the baccalaureate institution as they would for completing the Associate in Arts DTA Degree and will be given junior status by the receiving institution. Additional general education 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. Students need to meet with department advisors at the baccalaureate institution to determine an appropriate educational plan.

THIS IS AN ADVISING TOOL ONLY. For the most current information see: www.wvcc.edu/programs

Information subject to change.

Updated 08/12

For the most current information see: www.wvcc.edu

AS OPTION I DEGREE PLANNING GUIDE

COMMUNICATIONS [C]

Minimum of 5 credits in college-level composition course.

ENGLISH I & II

ENGL& 101 English Composition I 5

ENGL& 102 English Composition II 5

ENGL& 104 Advanced English Composition 5

HUMANITIES & SOCIAL SCIENCE

[H] [HP] [S]

A minimum of five (5) credits in Humanities, a minimum of five (5) credits in Social Sciences, plus an additional five (5) credits in *either* Humanities or Social Sciences for a total of fifteen (15) credits. No more than five (5) credits in Modern Languages at 100 level. Up to five (5) credits can be taken from [HP]. **Note:** Courses taken at the community college to meet the Humanities and Social Sciences requirements in the AS T will be accepted toward those requirements and counted as GERs/GURs by the receiving institution.

HUMANITIES [H] [HP]

ART

ART& 100 Art Appreciation 5
ART 124* Women Artists in History 5
ART 127 History of Western Art I 5
ART 128 History of Western Art II 5
ART 129 History of Western Art III 5

DRAMA

DRMA& 101 Introduction to Theatre 5
DRMA 225 Representative Plays 5
DRMA 226 Asian Plays 5
DRMA 281 Beginning Playwriting 5

ENGLISH

ENGL& 111 Introduction to Literature 5
ENGL& 112 Introduction to Fiction 5
ENGL& 113 Introduction to Poetry 5
ENGL 115 Arthurian Literature 3
ENGL 118 Baseball Lit & American Culture 5
ENGL 144 Introduction to Film 5
ENGL 147 Comic Books & Graphic Novels 5
ENGL 149 Classic Children's Literature 5
ENGL 210 Myth & Folklore 5
ENGL 212 African-American Literature 3
ENGL 229 Environmental Literature
ENGL 245 American Literature 5
ENGL 251 *Voices of Women in Literature 5
ENGL 256 Literature of the American West 5
ENGL 257 Literature of the Inland Northwest 5
ENGL 261 Native American Literature 3
ENGL 265 World Literature 5
ENGL 270 Detective & Spy Novels 3
ENGL 271 Science Fiction & Fantasy Literature 5
ENGL 277 The Bible as Literature 3

HISTORY

HIST& 116 *Western Civilization I 5
HIST& 117 *Western Civilization II 5
HIST& 118 *Western Civilization III 5
HIST& 126 *World Civilization I 5
HIST& 127 *World Civilization II 5
HIST& 128 *World Civilization III 5

HUMANITIES

HUM 106 Film Technique & Artistry 5
HUM 107 Gender Perceptions in Amer. Films 5
HUM 109 World Arts & Culture 5
HUM 110 Four Perspectives 5
HUM& 116 Humanities I 5
HUM& 117 Humanities II 5
HUM& 118 Humanities III 5

MODERN LANGUAGES

(max. 5 credits @ 100 level)

ASL 121/122/123 ASL I, II, III 5 ea.
FRCH& 121/122/123 French I, II, III 5 ea.
FRCH 201/202/203 French IV, V, VI 5 ea.
SPAN& 121/122/123 Spanish I, II, III 5 ea.
SPAN& 221/222/223 Spanish IV, V, VI 5 ea.

MUSIC

MUSC& 105 Music Appreciation 5
MUSC 110 History of American Music 5

PERFORMANCE/FINE ARTS [HP]

(max. 5 credits)

ART 101/102/103 Drawing I, II, III 4 ea.
ART 104/105/106 Design I, II, III 4 ea.
ART 107 Fundamentals of Digital Art 5
ART 111 Intro to Studio Art Pract. 4
ART 115 Drawing for Farrier Science 1
ART 130/131/132 Painting I, II, III 4 ea.

ART 151/152/153 Printmaking I, II, III 4 ea.
ART 160/161/162 Ceramics I, II, III 4 ea.
ART 167/168/169 Sculpture I, II, III 4 ea.
ART 260/261/262 Cera & Sculp I, II, III 4 ea.

DRMA 151/152/153 Beg Acting I, II, III 3 ea.
DRMA 160 Acting for Film 5
DRMA 251/252/253 Int Acting I, II, III 3 ea.
DRMA 271/272/273 Beg/Int/Adv Directing 3 ea.
DRMA 290/291/292 Play Prod IV, V, VI 1-5 ea.
DRMA 295/296/297 Touring Thea IV, V, VI 3 ea.

MUSC 106/107/108 Music Theory I, II, III 5 ea.
MUSC 116/117/118 College Voice I, II, III 1-2 ea.
MUSC 126/127/128 Jazz Combo I, II, III 1-3 ea.
MUSC 161/162/163 Vocal Ensemble I, II, III 2 ea.
MUSC 164 Spanish Chorus 2
MUSC 206/207/208 Music Theory IV, V, VI 5 ea.
MUSC 216/217/218 College Voice IV, V, VI 1-2 ea.
MUSC 226/227/228 Jazz Combo IV, V, VI 1-3 ea.
MUSC 261/262/263 Vocal Ensemble IV, V, VI 2 ea.

PHILOSOPHY

PHIL& 101 Introduction to Philosophy 5
PHIL 103 Asian Philosophy 5
PHIL& 106 Introduction to Logic 5
PHIL 120 Critical Thinking 5
PHIL 131 Introduction to Ethics 5
PHIL 205 Philosophy of Religion 5

WOMEN'S STUDIES

WST 124 *Women Artists in History 5
WST 251 *Voices of Women in Literature 5

SOCIAL SCIENCE [S]

ANTHROPOLOGY

ANTH& 100 Survey of Anthropology 5
ANTH& 206 Cultural Anthropology 5

BUSINESS

BUS& 101 Intro to Business 5

CRIMINAL JUSTICE

CJ& 101 Intro to Criminal Justice 5
CJ& 112 Criminology 5
CJ 202 Crime & Delinquency 5

ECONOMICS

AGRI 201 *Microeconomics in Agriculture 5
ECON 200 Survey of Economics 5
ECON& 201 *Micro Economics 5
ECON& 202 Macro Economics 5

EDUCATION

EDUC& 202 Intro to Education 5

GEOGRAPHY

GEOG 201 Intro to World Reg. Geography 5

HISTORY

HIST& 116 *Western Civilization I 5
HIST& 117 *Western Civilization II 5
HIST& 118 *Western Civilization III 5

HIST 120 *American Presidency 5
HIST& 126 *World Civilization I 5
HIST& 127 *World Civilization II 5
HIST& 128 *World Civilization III 5
HIST& 146 US History I 5
HIST& 147 US History II 5
HIST& 148 US History III 5
HIST 205 American Environmental History 5
HIST 211 *U.S. in World Affairs I 5
HIST 212 *U.S. in World Affairs II 5
HIST& 214 Pacific NW History 5
HIST& 215 *Women in US History 5
HIST 250 Intro to Latin America 5
HIST 255 Trad. East Asian Civilization 5
HIST 256 Modern East Asian Civilization 5
HIST 262 The Modern Middle East 5

POLITICAL SCIENCE

AGRI 222 *Agricultural Policy 5
POLS 120 *The American Presidency 5
POLS& 202 American Government 5
POLS 204 Constitutional Law 5
POLS 211 *U.S. in World Affairs I 5
POLS 212 *U.S. in World Affairs II 5
POLS 222 *Agricultural Policy 5

PSYCHOLOGY

PSYC& 100 General Psychology 5
PSYC 111 Psychology of Relationships 3

PSYC 113 *Human Sexuality 5
PSYC 139 *Psychology of Women 5
PSYC 160 Psychology of Crim. Behavior 5
PSYC& 200 Lifespan Psychology 5
PSYC 205 Social Psychology 5
PSYC 207 Psychology of Personality 5
PSYC 219 Health Psychology 5
PSYC& 220 Abnormal Psychology 5
PSYC 224 Environmental Psychology 5

SOCIOLOGY

SOC& 101 Intro to Sociology 5
SOC 150 Intro to Social Work 5
SOC& 201 Social Problems 5
SOC 204 Drugs and Society 5
SOC 205 Racial/Ethnic Relations 5
SOC 206 Soc Gerontology & Aging Rev 5
SOC 208 Soc of Intimate & Family Relations 5
SOC 210 Contemporary Social Issues 5
SOC 215 Diversity Viewpoints 5
SOC 220 *Gender & Society 5
SOC 230 Medical Sociology 5

WOMEN'S STUDIES

WST 113 *Human Sexuality 5
WST 139 *Psychology of Women 5
WST 200 Intro to Women's Studies 5
WST 215 *Women in U.S. History 5
WST 220 *Gender & Society 5

AS OPTION II DEGREE PLANNING GUIDE

AS: Associate in Science, Option II

PRE-MAJOR PROGRAM

[NS] : 20 credits

Physics Sequence

15 credits. Sequence should not be broken up between institutions.

PHYSICS

PHYS& 114 College Physics I 5
PHYS& 115 College Physics II 5
PHYS& 116 College Physics III 5

OR

PHYS& 221 Engr Physics I 5
PHYS& 222 Engr Physics II 5
PHYS& 223 Engr Physics III 5

Chemistry or Natural Science

At least five (5) credits. Select course based on major. Engineering majors are required to take CHEM& 161. For a complete listing of Natural Science courses see below.

AGRICULTURE

AGPR 101 *Intro to Environ Sciences 5
AGPR 201 Basic Soil Science 5

ASTRONOMY

ASTR& 110 The Solar System 5
ASTR 115 Stellar Astronomy 5
ASTR 120 Galaxies, the Universe & Cosm 5

BIOLOGY

BIOL& 100 Survey of Biology 5
BIOL 121 *Biology of Women 3 (non lab)
BIOL 130 General Ecology 5
BIOL& 160 General Biology 5
BIOL& 175 Human Biology 5
BIOL 202 Vertebrate Zoology 5
BIOL 205 Introduction to Animal Behavior 5
BIOL& 211 Majors Cellular 5
BIOL& 212 Majors Animal 5
BIOL& 213 Majors Plant 5
BIOL 221 Systematic Botany (Plant ID) 5
BIOL 240 Prin of Conservation 5 (non lab)
BIOL& 251 Human A & P I 5
BIOL& 252 Human A & P II 5

BIOL& 253 Human A & P III 5
BIOL& 260 Microbiology 5

CHEMISTRY

CHEM& 105 Chemical Concepts (Non-Lab) 5
CHEM& 110 Chemical Concepts 5
CHEM& 121 Intro to Chemistry 5
CHEM& 122 Intro to Organic Chemistry 5
CHEM& 123 Intro to Biochemistry 5
CHEM& 161 General Chemistry I 5
CHEM& 162 General Chemistry II 5
CHEM& 163 General Chemistry III 5

ENVIRONMENTAL SCIENCE

ENVS& 101 *Intro to Environ Sciences 5

GEOGRAPHY

GEOG 105 Physical Geography 5
GEOG 170 Intro to Maps & Cartography 5
GEOG 210 Intro to Weather 5
GEOG 211 Intro to Climate 5 (non lab)

GEOLOGY

GEOL& 101 Intro Physical Geology 5
GEOL& 103 Historical Geology 5

GEOL& 110 Environmental Geology 5
GEOL 115 Survey of Earth Science 5
GEOL 130 Hist of Life on Earth 5 (non lab)
GEOL& 208 Geology of the Pacific NW 5

NUTRITION

NUTR& 101 Nutrition 5 (non lab)

OCEANOGRAPHY

OCEA& 101 Intro to Oceanography 5

PHYSICS

PHYS& 110 Physics Non-Science Majors 5
PHYS& 114 General Physics I 5
PHYS& 115 General Physics II 5
PHYS& 116 General Physics III 5
PHYS& 221 Engr Physics I 5
PHYS& 222 Engr Physics II 5
PHYS& 223 Engr Physics III 5

WOMEN'S STUDIES

WST 121 *Biology of Women 3 (non lab)

QUANTITATIVE SKILLS [Q]

At least 15 credits in courses at or above introductory calculus level.

MATH

MATH& 151 Calculus I 5
MATH& 152 Calculus II 5
MATH& 153 Calculus III 5

MATH 201 Intro to Statistics 5
MATH 220 Linear Algebra 5
MATH 238 Differential Equations 5

MATH& 254 Calculus IV 5

ELECTIVES

32 credits

The remaining **32 credits** must be **approved academic electives** and should be planned with the help of an advisor based on the requirements of the specific discipline at the baccalaureate institution where the student plans to attend. For transferring students, **27 of the 32 credit total** must be **fully transferable** as defined by the ICRC guidelines for the Direct-Transfer agreement to be honored by four-year institutions in Washington. A maximum of 5 credits of restricted elective courses will be accepted (a max of 3 PE credits may be used).

27 CREDITS (Fully Transferable)

5 CREDITS (College-Level/Restricted)

_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

*EQUIVALENT CROSS-LISTED COURSES

Students may receive credit for **only one** of the cross-listed courses. (See course descriptions in college catalog.)

PHYSICAL ED [PE]

Three (3) unduplicated activity classes required. Waived for military service and by physician recommendation only.

ACTIVITY CLASSES HPER and DANCE 100-199

_____	_____
_____	_____
_____	_____

Important Notice: The Associate in Science Transfer (AS-T) Degree, Option II is designed to prepare students for upper division study in the areas of engineering, computer science, physics, and atmospheric science. Completing the AS-T degree will prepare students for upper division study; it does not guarantee students admission to the major. Students must earn 90 credits and a cumulative GPA of 2.0 or higher.

Students completing this AS-T will receive the same priority consideration for admission to the baccalaureate institution as they would for completing the Associate in Arts DTA Degree and will be given junior status by the receiving institution. Additional general education 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. Students need to meet with department advisors at the baccalaureate institution to determine an appropriate educational plan.

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Information subject to change.

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For the most current information see: www.wvcc.edu

AS OPTION II DEGREE PLANNING GUIDE

COMMUNICATIONS [C]

Minimum of 5 credits in college-level composition course.

ENGLISH I & II

ENGL& 101 English Composition I 5

ENGL& 102 English Composition II 5

ENGL& 104 Advanced English Composition

HUMANITIES & SOCIAL SCIENCE

[H] [HP] [S]

A minimum of five (5) credits in Humanities, a minimum of five (5) credits in Social Sciences, plus an additional five (5) credits in either Humanities or Social Sciences for a total of fifteen (15) credits. No more than five (5) credits in Modern Languages at 100 level. Up to five (5) credits can be taken from [HP]. **Note:** Courses taken at the Community College to meet the Humanities and Social Sciences requirements in the AS-T will be accepted toward those requirements and counted as GERs/GURs by the receiving institution.

HUMANITIES [H] [HP]

ART

ART& 100 Art Appreciation 5
ART 124* Women Artists in History 5
ART 127 History of Western Art I 5
ART 128 History of Western Art II 5
ART 129 History of Western Art III 5

DRAMA

DRMA& 101 Introduction to Theatre 5
DRMA 225 Representative Plays 5
DRMA 226 Asian Plays 5
DRMA 281 Beginning Playwriting 5

ENGLISH

ENGL& 111 Introduction to Literature 5
ENGL& 112 Introduction to Fiction 5
ENGL& 113 Introduction to Poetry 5
ENGL 115 Arthurian Literature 3
ENGL 118 Baseball Lit & American Culture 5
ENGL 144 Introduction to Film 5
ENGL 147 Comic Books & Graphic Novels 5
ENGL 149 Classic Children's Literature 5
ENGL 210 Myth & Folklore 5
ENGL 212 African-American Literature 3
ENGL 229 Environmental Literature
ENGL 245 American Literature 5
ENGL 251*Voices of Women in Literature 5
ENGL 256 Literature of the American West 5
ENGL 257 Literature of the Inland Northwest 5
ENGL 261 Native American Literature 3
ENGL 265 World Literature 5
ENGL 270 Detective & Spy Novels 3
ENGL 271 Science Fiction & Fantasy Literature 5
ENGL 277 The Bible as Literature 3

HISTORY

HIST& 116 *Western Civilization I 5
HIST& 117 *Western Civilization II 5
HIST& 118 *Western Civilization III 5
HIST& 126 *World Civilization I 5
HIST& 127 *World Civilization II 5
HIST& 128 *World Civilization III 5

HUMANITIES

HUM 106 Film Technique & Artistry 5
HUM 107 Gender Perceptions in Amer. Film 5
HUM 109 World Arts & Culture 5
HUM 110 Four Perspectives 5
HUM& 116 Humanities I 5
HUM& 117 Humanities II 5
HUM& 118 Humanities III 5

MODERN LANGUAGES

(max. 5 credits @ 100 level)

ASL& 121/122/123 ASL I, II, III 5 ea.
FRCH& 121/122/123 French I, II, III 5 ea.
FRCH 201/202/203 French IV, V, VI 5 ea.
SPAN& 121/122/123 Spanish I, II, III 5 ea.
SPAN& 221/222/223 Spanish IV, V, VI 5 ea.

MUSIC

MUSC& 105 Music Appreciation 5
MUSC 110 History of American Music 5

PERFORMANCE/FINE ARTS [HP]

(max. 5 credits)

ART 101/102/103 Drawing I, II, III 4 ea.
ART 104/105/106 Design I, II, III 4 ea.
ART 107 Fundamentals of Digital Art 5
ART 111 Intro To Studio Art Pract. 4
ART 115 Drawing for Farrier Science 1
ART 130/131/132 Painting I, II, III 4 ea.
ART 151/152/153 Printmaking I, II, III 4 ea.

ART 160/161/162 Ceramics I, II, III 4 ea.
ART 167/168/169 Sculpture I, II, III 4 ea.
ART 260/261/262 Cera & Sculp I, II, III 4 ea.
DRMA 151/152/153 Beg Acting I, II, III 3 ea.
DRMA 160 Acting for Film 5
DRMA 251/252/253 Int Acting I, II, III 3 ea.
DRMA 271/272/273 Beg/Int/Adv Directing 3 ea.
DRMA 290/291/292 Play Prod IV, V, VI 1-5 ea.
DRMA 295/296/297 Touring Thea IV, V, VI 3 ea.

MUSC 106/107/108 Music Theory I, II, III 5 ea.
MUSC 116/117/118 College Voice I, II, III 1-2 ea.
MUSC 126/127/128 Jazz Combo I, II, III 1-3 ea.
MUSC 161/162/163 Vocal Ensemble I, II, III 2 ea.
MUSC 164 Spanish Chorus 2
MUSC 206/207/208 Music Theory IV, V, VI 5 ea.
MUSC 216/217/218 College Voice IV, V, VI 1-2 ea.
MUSC 226/227/228 Jazz Combo IV, V, VI 1-3 ea.
MUSC 261/262/263 Vocal Ensemble IV, V, VI 2 ea.

PHILOSOPHY

PHIL& 101 Introduction to Philosophy 5
PHIL 103 Asian Philosophy 5
PHIL& 106 Introduction to Logic 5
PHIL 120 Critical Thinking 5
PHIL 131 Introduction to Ethics 5
PHIL 205 Philosophy of Religion 5

WOMEN'S STUDIES

WST 124*Women Artists in History 5
WST 251*Voices of Women in Literature 5

SOCIAL SCIENCE [S]

ANTHROPOLOGY

ANTH& 100 Survey of Anthropology 5
ANTH& 206 Cultural Anthropology 5

BUSINESS

BUS& 101 Intro to Business 5

CRIMINAL JUSTICE

CJ& 101 Intro to Criminal Justice 5
CJ& 112 Criminology 5
CJ 202 Crime & Delinquency 5

ECONOMICS

AGRI 201 *Microeconomics in Agriculture 5
ECON 200 Survey of Economics 5
ECON& 201 *Micro Economics 5
ECON& 202 Macro Economics 5

EDUCATION

EDUC& 202 Intro to Education 5

GEOGRAPHY

GEOG 201 Intro to World Reg. Geography 5

HISTORY

HIST& 116 *Western Civilization I 5
HIST& 117 *Western Civilization II 5
HIST& 118 *Western Civilization III 5

HIST 120 *American Presidency 5
HIST& 126 *World Civilization I 5
HIST& 127 *World Civilization II 5
HIST& 128 *World Civilization III 5
HIST& 146 US History I 5
HIST& 147 US History II 5
HIST& 148 US History III 5
HIST 205 American Environmental History 5
HIST 211 *U.S. in World Affairs I 5
HIST 212 *U.S. in World Affairs II 5
HIST& 214 Pacific NW History 5
HIST& 215 *Women in US History 5
HIST 250 Intro to Latin America 5
HIST 255 Trad. East Asian Civilization 5
HIST 256 Modern East Asian Civilization 5
HIST 262 The Modern Middle East 5

POLITICAL SCIENCE

AGRI 222 *Agricultural Policy 5
POLS 120 *The American Presidency 5
POLS& 202 American Government 5
POLS 204 Constitutional Law 5
POLS 211 *U.S. in World Affairs I 5
POLS 212 *U.S. in World Affairs II 5
POLS 222 *Agricultural Policy 5

PSYCHOLOGY

PSYC& 100 General Psychology 5
PSYC 111 Psychology of Relationships 3

PSYC 113 *Human Sexuality 5
PSYC 139 *Psychology of Women 5
PSYC 160 Psychology of Crim. Behavior 5
PSYC& 200 Lifespan Psychology 5
PSYC 205 Social Psychology 5
PSYC 207 Psychology of Personality 5
PSYC 219 Health Psychology 5
PSYC& 220 Abnormal Psychology 5
PSYC 224 Environmental Psychology 5

SOCIOLOGY

SOC& 101 Intro to Sociology 5
SOC 150 Intro to Social Work 5
SOC& 201 Social Problems 5
SOC 204 Drugs and Society 5
SOC 205 Racial/Ethnic Relations 5
SOC 206 Soc Gerontology & Aging Rev 5
SOC 208 Soc of Intimate & Family Relations 5
SOC 210 Contemporary Social Issues 5
SOC 215 Diversity Viewpoints 5
SOC 220 *Gender & Society 5
SOC 230 Medical Sociology 5

WOMEN'S STUDIES

WST 113 *Human Sexuality 5
WST 139 *Psychology of Women 5
WST 200 Intro to Women's Studies 5
WST 215 *Women in U.S. History 5
WST 220 *Gender & Society 5

DEGREES

Associate in Biology – DTA/MRP

This degree is applicable to students planning to prepare for upper division Bachelor's degree majors in Biology. Students must earn 90 credits and a cumulative grade point average of at least a 2.00. Specific grade requirements vary from course to course and among transfer institutions. Students must check with the transfer institution. **Note that admission to specific upper division Biology programs 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. Contact with advisors from individual schools for institutional requirements is highly recommended since this DTA may not meet every institution-specific graduation requirement. Baccalaureate institutions party to this agreement include: Central Washington University; Eastern Washington University; The Evergreen State College; University of Washington Seattle; Washington State University Pullman; Western Washington University; Saint Martin's University; Seattle University; and Whitworth University.

Communication Skills

(10 credits)

- ENGL& 101 or ENGL& 104
- ENGL& 102

(5)

(5)

Quantitative Skills

(5 credits)

Intermediate Algebra Proficiency leading to a pre-calculus math course is required. Note: Statistics (a course that includes descriptive and inferential statistics) may substitute for Calculus I at some institutions; students are encouraged to check with the transfer institution early in their decision process to confirm requirements.

- MATH& 151

(5)

Humanities¹

(15 credits)

Course selections must meet the Humanities distribution requirements for the AA degree:

A minimum of 15 credits selected from at least two different subject areas. No more than 5 credits allowed in modern languages at the 100 level. Up to 5 credits can be taken from selected performing/fine arts classes. No more than 10 credits allowed from any one subject area.

Social Sciences¹

(15 credits)

Course selections must meet the Social Science distribution requirements for the AA degree.

A minimum of 15 credits selected from at least two different subject areas. No more than 10 credits allowed from any one subject area.

Natural Sciences

(30 credits)

- BIOL& 211, 212, 213
- CHEM& 161, 162, 163

(15)

(15)

A full year sequence at a single college is the best preparation for the baccalaureate biology degree.

Electives

(15 credits)

These 15 additional credits should be planned in consultation with an advisor. Electives allow students to include additional courses to prepare for the biology major based on 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.

¹ 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 and social science courses that best support or may be required as prerequisites to their Biology curriculum.

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.

Total

90 credits

DEGREES

Associate in Business – DTA/MRP

This pathway is applicable to students planning to prepare for various business majors at universities in Washington. This transfer agreement ensures that a student who completes an Associate in Business – DTA/MRP degree will be admitted as juniors and will be regarded as having all prerequisites for the business major completed except as noted in the DTA requirements listed below.

Students completing the Business DTA/MRP, if admitted to the university, will be regarded as having completed the lower division general education courses to the same extent that all DTA graduates have completed those requirements (that is completed except for the provisos). Baccalaureate institutions party to this agreement are: CWU, EWU, UW (all campuses), WSU (all campuses), Western Washington University, Gonzaga, Heritage, PLU, SMU, SPU, SU, Walla Walla University and Whitworth University.

Students must earn a minimum of 90 credits and a cumulative GPA of a 2.0. Meeting the minimum requirements does not guarantee admission. Please note that admission for many business schools is competitive, and higher minimum GPA's, a higher GPA in a selected subset of courses or a specific minimum grade in one or more courses such as math or English may be required.

It is strongly recommended that students contact the baccalaureate-granting Business school early in their Associate in Business – DTA/MRP program to be advised about specific course choices and procedures for admission.

Communication Skills (10 credits)

ENGL&	101 or ENGL& 104	(5)
ENGL&	102	(5)

See General Electives area for speech requirements at specific institutions.

Quantitative Skills (10 credits)

(Intermediate Algebra proficiency must be demonstrated).

Choose one course from each area:

(1) MATH	115, &141, &142	(5)
(2) MATH&	148, &151, &152, &153, 220, 238 or &254	(5)

Humanities (15 credits)

Course selections must meet the Humanities distribution requirements for the AA degree:

A minimum of 15 credits from at least two different subject areas. No more than 10 credits allowed from any one subject area. No more than 5 credits allowed in modern languages at the 100 level. Up to 5 credits can be taken from selected performing/fine arts classes. No more than 10 credits allowed from any one subject area.

Students intending the international business major should consult their potential transfer institutions regarding the level of world language required for admission to the major.

Social Sciences (15 credits)

Choose one course from each area:

(1) ECON&	201	(5)
(2) ECON&	202	(5)
(3) Additional Soc. Sci.		(5)

For WSU, choose PSYC& or SOC& (designated [SS]) for the additional Social Science credits.

Natural Sciences (15 credits)

Course selections must meet the Natural Science distribution requirements for the AA degree.

Lab Science	(5)
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For Western Washington University, Manufacturing Management requires specific science courses for admission to the major.

Science	(5)
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For Western Washington University, Manufacturing Management requires specific science courses for admission to the major.

MATH 201	(5)
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For the most current information see: www.wgcc.edu

DEGREES

Business Specific Courses

(20 credits)

- | | | | |
|---|-------|-----|-----|
| • | ACCT& | 201 | (5) |
| • | ACCT& | 202 | (5) |
| • | ACCT& | 203 | (5) |
| • | BUS& | 201 | (5) |

(a) Universities with a lower division Business Law requirement: UW (all campuses), WSU (all campuses), EWU, CWU, WWU, Gonzaga University, SMU, SPU, Whitworth University.

(b) Heritage, PLU, SU and Walla Walla University do not require a lower division Business Law course, but will accept BUS& 201 as a lower division elective, but generally not as an equivalent to the course required at the upper division.

(c) International students who completed a business law course specific to their home country must take a business law course at a U.S. institution in order to demonstrate proficiency in U.S. business law.

General Electives

(5 credits)

Please consult your WWCC advisor and intended transfer institution for the appropriate elective course.

Note: 5 institutions have requirements for admission to the major that go beyond those specified above. Students can meet these requirements by careful selection of the elective course(s):

WSU (All campuses)	ComST 102	CMST& 220 (Graduation requirement)
	MIS 250 CS 115 & CS 110 (Requirement for admission to Business major)	
	POLS	(Graduation requirement)
Gonzaga	BMIS 235	(Check with Gonzaga)
Idaho	COMM 101	CMST& 220
PLU	CSCE 120	(Check with PLU)
SPU	BUS 1700	(Check with SPU)

Total

90 credits

DEGREES

Associate in Elementary Education – DTA/MRP

This degree is applicable to students planning to prepare for an upper division Elementary Education major. As of January 2006 this document represents a new agreement between the following baccalaureate institutions offering Elementary Education bachelor's degrees and the community and technical colleges system. Baccalaureate institutions party to this agreement are: CWU, EWU, WSU, WWU, City University, Gonzaga, Heritage, PLU, SMU, SPU, Walla Walla University, and Whitworth.

Students must earn a minimum of 90 credits and a cumulative GPA of at least a 2.0. Minimum grade-point average requirements are established by each institution. Meeting the minimum requirements does not guarantee admission. Note: Only course work in which an individual received a grade of C (2.0) or higher or a grade of pass on a pass-fail system of grading shall be counted toward the course work required for the approved endorsement program.

It is strongly recommended that students contact the baccalaureate granting education school early in their Associate in Elementary Education – DTA program to be advised about additional requirements (e.g. GPA) and procedures for admission. Students must take the WEST-B in order to apply to teacher preparation programs in Washington State.

Communication Skills (15 credits)

ENGL&	101 or ENGL& 104	(5)
ENGL&	102	(5)
CMST&	220	(5)

Quantitative Skills (10 credits)

(Intermediate Algebra proficiency must be demonstrated.)

MATH	205	(5)
MATH	206	(5)

Humanities (15 credits)

Choose 1 from each area:

(a) HIST&	116, 117, 118, 126, 127, 128	(5)
(b) Literature course		(5)
(c) ART, MUSC or DRMA[H][HP]		(5)

Social Sciences (20 credits)

Choose 1 from each area:

(a) HIST&	146, 147, 148	(5)
(b) PSYC&	100	(5)
(c) PSYC&	200 ¹	(5)
(d) ECON&	201, 202 or	(5)
ECON	200 or	
POLS&	202 or	
GEOG	201	

¹ Note: WSU, CWU & SM require Developmental (Lifespan) Psychology.

Natural Sciences (15 credits)

Choose 1 from each area (two courses must include a lab):

(a) BIOL&	100, 175 or	(5)
BIOL	130	
(See intended transfer institution for appropriate biology course requirement.)		
(b) ASTR&	110 or	(5)
ASTR	115, 120 or	
ENVS&	101 or	
GEOG	105, 170, 210, 211 (non-lab) or	

For the most current information see: www.wcc.edu

DEGREES

GEOL&	101, 103, 110, 208 or	
GEOL	115, 130 (non-lab) or	
OCEA&	101	
(c) CHEM&	105 (non-lab), 110, 121, 122, 123,	(5)
	161, 162, 163 or	
PHYS&	110, 114, 115, 116,	
	221, 222, 223	

Gender/Culture

One course D^ designated or PSYC139/WST 139. Courses meeting this requirement are distributed throughout the General Education categories and are double-designated with other distribution requirements. See web for updated list of diversity courses.

ART	124	HUM	110	SOC	220
CMST	201	MUSC&	105	WST	113
ENGL	210	PHIL	103	WST	124
ENGL	245	PSYC	113	WST	139
ENGL	251	PSYC	139	WST	200
ENGL	265	PSYC	205	WST	215
HIST&	215	SOC&	101	WST	220
HIST	250	SOC	205	WST	251
HPER	268	SOC	206		
HUM	107	SOC	208		

Education Core

(8 credits)

EDUC&	202	(5)
EDUC	111	(3)

Electives

(7 credits)

Recommended:

CS	100, 105, 110	(5)
EDUC&	203	

Note: Check with your intended transfer institution and WWCC advisor to choose appropriate electives.

WSU requires a fourth science.

Total

90 credits

DEGREES

Associate in Applied Science-T in Early Childhood Education (AAS-T)

This is a dual-purpose degree that is intended to prepare students for employment in Early Childhood Education programs such as Head Start, childcare or preschool settings, and for transfer to specific baccalaureate degree programs. These include: Eastern Washington University (Children's Studies), Evergreen State College (Upside Down Degree), Seattle Pacific University (Professional Studies Degree), and Washington State University (Human Development). It is strongly recommended that students contact the baccalaureate granting institution early in their Associate in Applied Science-T in Early Childhood Education about additional requirements and procedures for admission. Students must earn a 2.0 or above in all courses required for this degree. Please note that higher GPA's and course grades are often required.

Communication Skills (15 credits)

ENGL&	101 or ENGL& 104	(5)
ENGL&	102	(5)
CMST&	220	(5)

Quantitative Skills (5 credits)

Choose One:

MATH&	107 or	(5)
MATH	115 or	(5)
MATH&	141 or	(5)
MATH&	148 or	(5)
MATH&	151 or	(5)
MATH	201 or	(5)
MATH	206	(5)

Humanities (5 credits)

ART, ASL, DRMA, ENGL (LIT only), FREN, MUSC, or SPAN [H] [HP]

Social Sciences (10 credits)

Choose One from each area:

(a) PSYC&	100	(5)
(b) ANTH&	206 or	(5)
SOC&	101	(5)

Natural Sciences (5 credits)

Course selection must be a lab science from the Natural Science distribution requirements for the AA degree

56 Credits:

Required Courses:

ECE 101	(3)	Introduction to Early Childhood Education
ECE 137	(3)	Language Development & Literacy
ECE 150	(4)	Math & Science for Early Childhood
ECE 170	(3)	Guiding Behavior of Young Children
ECE 175	(3)	Observation & Recording Behavior
ECE 191	(1)	Cooperative Work Experience
ECE 231	(3)	Curriculum Development
ECE 234	(3)	Child Nutrition, Health & Safety
ECE 261	(3)	Current Issues & Trends in Education
ECE 299	(1)	Leadership
EDUC& 115	(5)	Child Development
EDUC& 203	(3)	Exceptional Children

DEGREES

Elective Courses:

ECE 136
ECE 160
ECE 219
ECE 232
ECE 236
ECE 240
ECE 242
ECE 255
ECE 275

(choose 21 additional credits)

(3) Environments for Young Children
(3) Instructional Strategies Special Needs Children
(3) Child, Family & Community Relationships
(4) Children's Art & Literature for Educators
(4) Music & Movement
(3) Programs for Infants & Toddlers
(3) Growth, Development & Guidance for School Agers
(3) Children at Risk
(3) Administration of Early Learning Programs

96 credits

DEGREES

Associate in Math Education – DTA/MRP

This degree is for students planning to major in secondary math education at a baccalaureate institution. It is a statewide transfer agreement for secondary math education majors between the community colleges and public baccalaureate institutions in the state of Washington.

This Direct Transfer Agreement (DTA) will fulfill the general education requirements at the public Washington state baccalaureate institutions.

Students must earn 90 credits and a cumulative grade point average of at least a 2.0. Please note that higher GPA's are often required for admission to math education programs. It is strongly recommended that students contact the baccalaureate granting education school early in their Associate in Math Education – DTA program to be advised about additional requirements and procedures for admission. Students must take the WEST in order to apply to teacher preparation programs in Washington State.

Communication Skills (15 credits)

ENGL&	101 or ENGL& 104	(5)
ENGL&	102	(5)
CMST&	220	(5)

Quantitative Skills (25 credits)

(Intermediate Algebra proficiency must be demonstrated.)

MATH& 151	(5)
MATH& 152	(5)
MATH& 153	(5)
MATH 220	(5)
MATH& 254	(5)

Humanities (10 credits)

Course selections must meet the Humanities distribution requirements for the AA degree:

A minimum of 10 credits selected from at least two different subject areas. No more than 5 credits allowed in modern languages at the 100 level. Up to 5 credits can be taken from selected performing/fine arts classes. No more than 10 credits allowed from any one subject area.

Social Sciences (15 credits)

Course selection must meet the Social Science distribution requirement for the AA degree.

A minimum of 15 credits selected from at least two different subject areas, including PSYC& 100. No more than 10 credits allowed from any one subject area.

- | | | |
|-------------------------------|-----|-----|
| (a) PSYC& | 100 | (5) |
| (b) Additional Social Science | | (5) |
| (c) Additional Social Science | | (5) |

Natural Sciences (10 credits)

Course selections must meet the Natural Science distribution requirements for the AA degree excluding Math.

A minimum of 10 credits selected from at least two different subject areas. Must include at least one laboratory course.

DEGREES

Diversity

One course D^A designated. Courses meeting the WWCC Diversity requirement are distributed throughout the General Education categories and are double-designated with other distribution requirements. See web for updated list of diversity courses.

ART	124	HUM	107	SOC	208
CMST	201	HUM	110	SOC	220
ENGL	210	MUSC&	105	WST	113
ENGL	245	PHIL	103	WST	124
ENGL	251	PSYC	113	WST	200
ENGL	265	PSYC	205	WST	215
HIST&	215	SOC&	101	WST	220
HIST	250	SOC	205	WST	251
HPER	268	SOC	206		

Education Core

(8 credits)

EDUC&	202	(5)
EDUC	111	(3)

Electives

(7 credits)

All courses numbered 100 or above. Courses should include preparation for the secondary math education major. A maximum of 3 physical education activity credits can be counted for this degree. Consult your WWCC advisor and transfer institution for appropriate courses.

Total

90 credits

Areas of Study

ACCOUNTING

Related Instruction

(J) - Job Seeking Skills	(L) - Leadership
(M) - Computation/Mathematics	(O) - Oral Communications
(W) - Written Communications	(R) - Human Relations

Accounting Technology

CERT, AAAS

<http://wwcc.edu/accounting>

Dan Biagi	509.527.4235	daniel.biagi@wwcc.edu
Francis Lyons	509.527.4234	francis.lyons@wwcc.edu
Lisa Greenville- Clk	509.758.1715	lisa.greenville@wwcc.edu
Linda Lane- Clk	509.758.1724	linda.lane@wwcc.edu

Program available at/via: [Walla Walla] [Clarkston] [Online (partial)]

Department Overview: Accounting Technology has a broad focus that emphasizes the skills required for a successful career in accounting or bookkeeping. Students take a variety of courses in subjects such as financial accounting, payroll accounting, tax accounting, and managerial accounting. Students also become proficient with several computer accounting systems. Select courses are available through distance learning. The Accounting Technology curriculum is reviewed by an advisory board composed of local and regional industry members.

Program Level Outcomes:

- Program completers will demonstrate technical competency in core ability and related instruction curriculum components.
- Students who have declared a program major will complete that program of study.
- Student and employer satisfaction will reflect a high degree of self-esteem, self-confidence and the potential to grow within that job or business.
- Students completing the AAAS degree will become employed in a living wage job, with benefits.

Degrees: Students may earn an Associate in Applied Arts and Sciences Degree in Accounting Technology upon completion of a two-year program of study. A Bookkeeping Certificate is also available.

Industry Description: Accounting is an extensive subject with many components, such as financial accounting, tax accounting, cost accounting, and governmental accounting. Every organization has a need for accountants and bookkeepers to pay employees, file tax returns, and report to governmental agencies. This profession consequently has many and varied job opportunities for trained personnel. Due to recent shifts in the labor industry, a shortage of trained accountants has developed. This trend combined with changes in tax laws and increased disclosure requirements have generated an increased value placed upon people in the business world that have accounting skills.

Entrance Requirements: Students may enter the program fall, winter or spring quarter, however, due to course sequencing it is recommended to begin in the fall. A placement test offered by the Student Development Center must be completed prior to admittance to the program.

Other Information: For additional information including regional employment data, completion rates, student characteristics, and employment see <http://www.wtb.wa.gov/etp>.

Degrees and Certificates

Bookkeeping Certificate

This certificate prepares the student to compute, classify, record, and verify numerical data in order to develop and maintain financial records.

Certificate available at/via: [Walla Walla] [Clarkston]

Certificate Outcomes:

- Possess the skills needed to secure and maintain entry-level employment as accounting and payroll clerks
- Accurately prepare payroll and related federal and state tax returns.
- Possess proficiency using the 10-key calculator.
- Understand and practice professional work habits expected in the accounting field, including confidentiality and accounting ethics.
- Be able to correctly complete the basic bookkeeping processes according to Generally Accepted Accounting Principles
- Acquire proficiency using computer software, including MS Word, MS Excel, MS Access, and computerized accounting software.
- Demonstrate the ability to communicate orally and in writing at a level necessary for successful employment in the accounting field.
- Demonstrate critical thinking skills needed to prioritize, anticipate and analyze problems, and to evaluate and implement solutions.
- Possess an understanding and practice of human relations, diversity, and teamwork skills related to the accounting field.

YEAR ONE

Quarter One	Credits
BUS 112, Business Mathematics (M)	5
BUS 136, Business Communications I	5
OT 122, Records Management	5
OT 125, Introduction to Word Processing	5
Total Credits	20

Quarter Two	Credits
ACCT& 201, Principles of Accounting I	5
BUS 157, Human Relations in Business (R)	5
CS 110, Introduction to Computers and Applications	5
OT 126, Intermediate Word Processing	5
OT 218, Desktop Calculator	5
Total Credits	25

ACCOUNTING

Quarter Three

	Credits
ACCT 115, Integrated Computer Applications for Accounting	5
ACCT 175, Payroll Accounting	5
BUS 137, Business Communications II (W)	5
BUS 181, Cooperative Work Experience I	2-5
BUS 182, Business Leadership Seminar I	3
BUS 217, Computer Software Applications	5
Total Credits	25-28
Year One Total	70-73
Grand Total	70-73

EPC: 505A

The following courses meet the related instruction requirements of this certificate/degree (one course per category required):

(W) - BUS 137

(M) - BUS 112

(R) - BUS 157

Associate in Applied Arts and Sciences Degree in Accounting Technology

This technical degree prepares the student to enter the business world in a variety of private and public accounting occupations. The program is also designed for the individual who is interested in improving their current accounting or bookkeeping skills.

**Degree available at/via: [Walla Walla] [Clarkston]
[Online (partial)]**

Degree Outcomes:

- Possess the skills needed to secure and maintain entry-level employment as accounting clerks, payroll clerks, full-charge bookkeepers, income tax preparers, and general ledger accountants.
- Accurately prepare payroll and related federal and state tax returns.
- Accurately prepare basic federal income tax returns.
- Possess proficiency using the 10-key calculator.
- Understand and practice professional work habits expected in the accounting field, including confidentiality and accounting ethics.
- Be able to correctly complete accounting processes according to Generally Accepted Accounting Principles, using manually and computerized accounting software, prepare financial statements, and create various entry-level managerial reports.
- Effectively read and interpret financial statements.
- Understand the basic legal issues pertaining to the accounting field.
- Acquire proficiency using computer software, including MS Word, MS Excel, MS Access, and computerized accounting software.
- Be able to research business and accounting information using printed materials, electronic media, and the Internet.
- Demonstrate the ability to communicate orally and in writing at a level necessary for successful employment in the accounting field.
- Demonstrate critical thinking skills needed to prioritize, anticipate and analyze problems, and to evaluate and implement solutions.

- Possess an understanding and practice of human relations, diversity, and teamwork skills related to the accounting field.

Transferability: The AAAS degree is designed for students planning to enter their chosen career upon graduation. Often only selected credits are considered transferable to public or private baccalaureate institutions.

YEAR ONE

Quarter One

	Credits
ACCT& 201, Principles of Accounting I	5
BUS 112, Business Mathematics (M)	5
BUS& 101, Intro to Business	5
CMST& 220, Public Speaking (O)	5
Total Credits	20

Quarter Two

	Credits
ACCT& 202, Principles of Accounting II	5
BUS 136, Business Communications I	5
CS 110, Introduction to Computers and Applications	5
OT 125, Introduction to Word Processing	5
Total Credits	20

Quarter Three

	Credits
ACCT& 203, Principles of Accounting III	5
BUS 137, Business Communications II (W)	5
BUS 217, Computer Software Applications	5
OT 218, Desktop Calculator	5
Total Credits	20
Year One Total	60

YEAR TWO

Quarter One

	Credits
ACCT 204, Intermediate Accounting I	5
ACCT 216, Principles of Income Tax	5
BUS 157, Human Relations in Business (R)	5
BUS 181, Cooperative Work Experience I	2-5
BUS 182, Business Leadership Seminar I	3
Total Credits	20-23

Quarter Two

	Credits
ACCT 205, Intermediate Accounting II	5
ACCT 209, Cost Accounting	5
BUS 191, Cooperative Work Experience II	2-5
BUS 192, Business Leadership Seminar II (L)	3
Total Credits	15-18

Quarter Three

	Credits
ACCT 115, Integrated Computer Applications for Accounting	5
ACCT 175, Payroll Accounting	5
BUS 291, Cooperative Work Experience III	2-5
BUS 292, Business Leadership Seminar III (J)	3
Total Credits	15-18
Year Two Total	50-59
Grand Total	110-119

EPC: 505

The following courses meet the related instruction requirements of this certificate/degree (one course per category required):

(J) - BUS 292

(W) - BUS 137

(L) - BUS 192

(M) - BUS 112

(O) - CMST 102, CMST& 220

(R) - BUS 157

ADULT BASIC EDUCATION

Adult Basic Education

<http://wwcc.edu/abe>

Terri Trick 509.527.4348 terri.trick@wwcc.edu
Janet Danley- Clk 509.758.1703 janet.danley@wwcc.edu

Program available at/via: [Walla Walla] [Clarkston]

Department Overview: Adult Basic Education / GED is designed to enable those who have not completed high school to earn the General Education Development (GED). Adult Basic Education also serves those needing a review of basic skills before entering other college programs.

Adult Basic Education / GED courses serve adults (18 years or older) who need to upgrade their skills in reading, writing, and math. Students are administered a placement test upon entry. This test is a Washington State requirement and is for placement purposes only. Program of study is then determined individually. Instruction is offered via individual study, structured courses, learning communities, and computers. The program is provided in both English and Bilingual/Spanish to meet individual student needs.

Program Level Outcomes: ABE/GED Reading

- Determine the reading purpose.
- Select reading strategies appropriate to the purpose.
- Monitor comprehension and adjust reading strategies.
- Analyze the information and reflect on its underlying meaning.
- Integrate it with prior knowledge to address reading purpose.

ABE/GED Writing

- Determine the purpose for communicating
- Organize and present information to serve the purpose
- Pay attention to conventions of English language usage, including grammar, spelling, and sentence structure, to minimize barriers to reader's comprehension.
- Seek feedback and revise to enhance the effectiveness of the communication.

ABE/GED Math

- Understand, interpret, and work with pictures, numbers, and symbolic information.
- Apply knowledge of mathematical concepts and procedures to figure out how to answer a question, solve a problem, make a prediction, or carry out a task that has a mathematical dimension.
- Define and select data to be used in solving the problem.
- Determine the degree of precision required by the situation.
- Solve problems using appropriate quantitative procedures and verify that the results are reasonable.
- Communicate results using a variety of mathematical representations, including graphs, charts, tables and algebraic models.

Entrance Requirements: Students may register any time during the quarter and there is a \$25 fee per quarter.

Adult Basic Education / GED

<http://wwcc.edu/ged>

Terri Trick 509.527.4348 terri.trick@wwcc.edu
Janet Danley- Clk 509.758.1703 janet.danley@wwcc.edu

Program available at/via: [Walla Walla] [Clarkston]

Department Overview: Adult Basic Education / GED is designed to enable those who have not completed high school to earn the General Education Development (GED). Adult Basic Education also serves those needing a review of basic skills before entering other college programs.

Adult Basic Education / GED courses serve adults (18 years or older) who need to upgrade their skills in reading, writing, and math. Students are administered a placement test upon entry. This test is a Washington State requirement and is for placement purposes only. Program of study is then determined individually. Instruction is offered via individual study, structured courses, learning communities, and computers. The program is provided in both English and Bilingual/Spanish to meet individual student needs.

Program Level Outcomes: ABE/GED Reading

- Determine the reading purpose.
- Select reading strategies appropriate to the purpose.
- Monitor comprehension and adjust reading strategies.
- Analyze the information and reflect on its underlying meaning.
- Integrate it with prior knowledge to address reading purpose.

ABE/GED Writing

- Determine the purpose for communicating
- Organize and present information to serve the purpose
- Pay attention to conventions of English language usage, including grammar, spelling, and sentence structure, to minimize barriers to reader's comprehension.
- Seek feedback and revise to enhance the effectiveness of the communication.

ABE/GED Math

- Understand, interpret, and work with pictures, numbers, and symbolic information.
- Apply knowledge of mathematical concepts and procedures to figure out how to answer a question, solve a problem, make a prediction, or carry out a task that has a mathematical dimension.
- Define and select data to be used in solving the problem.
- Determine the degree of precision required by the situation.
- Solve problems using appropriate quantitative procedures and verify that the results are reasonable.

ADULT BASIC EDUCATION – AGRI-BUSINESS

- Communicate results using a variety of mathematical representations, including graphs, charts, tables and algebraic models.

Entrance Requirements: Students may register any time during the quarter and there is a \$25 fee per quarter.

Agri-Business

CERT, AAAS, AA

<http://wwcc.edu/agbusiness>

Debora Frazier

509.527.4689 debbie.frazier@wwcc.edu

Program available at/via: [Walla Walla] [Online (partial)]

Department Overview: Agri-Business combines knowledge and skills from the fields of general agriculture and business administration to prepare students for the management functions involved with the production and marketing of agricultural commodities. The Agri-Business curriculum is reviewed by an advisory board composed of local and regional industry members.

Program Level Outcomes:

- Provide students with the highest level of instruction by offering the latest concepts in Agriculture.
- To attract, retain, and graduate competent students into the Ag Science industry.
- Keep program on “cutting edge” of Agriculture by involving industry in curriculum development and verification of student learning outcomes.
- Articulate the Agriculture Science program horizontally with other related WWCC programs, and vertically, with regional high schools and universities.
- Educate and graduate students who possess the knowledge and skills to participate in the agriculture industry with confidence, or continue their education at the university level with the same confidence.

Degrees: Students may earn an Associate in Applied Arts and Sciences Degree in Agri-Business upon completion of the two-year program of study. The Agri-Business program also offers specialized degrees in Wine Marketing and Management or John Deere Dealer Management. One-year certificates are available upon completion of the first year of study in the AAAS Degree programs.

The Associate in Arts Degree is a transfer degree that prepares the student for continued education at a baccalaureate institution. These students will be able to complete their general education requirements before transferring, begin studies in Agri-Business, and take electives based upon their intended degree program. Many courses in the department provide direct transfer credit to regional colleges and universities.

Industry Description: Agriculture Business experts apply a wide range of knowledge of markets, products and laws to local, regional, national and international agricultural commerce.

Producing and marketing food and fiber products is a vital and important industry in the United States. The United States is the largest producer and exporter of agricultural products in the world. The agri-business sector employs a large percentage of

the U.S. labor force. These individuals assist the producer of food and fiber products in input procurement, marketing, financing, and management.

Entrance Requirements: It is recommended that the student contact the lead instructor regarding appropriate program placement. Students may enter the program fall, winter or spring quarter, however, due to course sequencing it is recommended to begin in the fall. A placement test offered by the Student Development Center must be completed prior to admittance to the program.

Other Information: The Agri-Business program is part of the Tech-Prep consortium in the State of Washington. Tech-prep credits from specific high school studies can be awarded for selected courses. Contact your local school counselor or WWCC for more information. Students considering transferring should consult with an adviser in the agriculture department prior to taking courses for transfer credit. Program scholarships are available each year to assist students. Contact a program advisor to obtain an application or for more information.

For additional information including regional employment data, completion rates, student characteristics, and employment see <http://www.wtb.wa.gov/etp>.

The Agriculture Center of Excellence is a flagship institution connecting education and industry to create a highly skilled and readily available workforce. The Center of Excellence addresses workforce training needs and education for the agricultural industry by supporting the community and technical college system, as well as collaborating with the K-12 system and four-year colleges/universities. Visit www.agcenterofexcellence.com for more information.

Degrees and Certificates

Agri-Business Wine Marketing & Management Certificate

This certificate is equivalent to year one of the AAAS Agri-Business Wine Marketing & Management degree.

Certificate available at/via: [Walla Walla]

Certificate Outcomes:

- Demonstrate knowledge of accounting basics.
- Demonstrate ability to use computer software to create and use written documents, including spreadsheets, graphical presentations and databases.
- Prepare and orally deliver a sales presentation to a prospect which includes appropriate techniques for opening, presenting product, handling objections and closing.
- Identify and apply management tools used to measure business performance.
- List parts of a business plan and explain the benefits of creating a plan.
- Discuss structure and characteristics of the food product, agricultural production, food processing and retailing; and their influence on food marketing.
- Explain process and influences on making laws in the U.S.

For the most current information see: www.wwcc.edu

AGRI-BUSINESS

YEAR ONE

Quarter One	Credits
AGRI 108, Computers in Agriculture	5
AGRI 201, Microeconomics in Agriculture	5
AGRI 191, Cooperative Work Experience	1
EV 107, Introduction to Viticulture and Enology	5
Total Credits	16

Quarter Two	Credits
AGRI 192, Cooperative Seminar (R)	2
AGRI 210, Agricultural Sales and Service	3
AGRI 221, Agricultural Marketing	5
AGRI 191, Cooperative Work Experience	1
EV 141, Introduction to Wine Marketing	3
EV 180, Wines of the World	1
Total Credits	15

Quarter Three	Credits
AGRI 211, Small Business Management *	5
AGRI 191, Cooperative Work Experience	1
EV 142, Consumer Direct Wine Sales and Marketing	3
MATH 065, Introductory Algebra (M)	5
Total Credits	14
Year One Total	45
Grand Total	45

EPC: 110E

* A student can complete either AGRI 211 or AGRI 220 (since these are offered on an alternate year basis) and receive a one-year certificate.

** Students may complete EV 193, Winery Operations Management for the certificate.

Students must complete related instruction requirements in the following categories to receive a certificate: Written Communications, Computation/Mathematics, Human Relations. Students must complete all six related instruction categories for the degree.

The following courses meet the related instruction requirements of this certificate/degree (one course per category required):

(M) - MATH 065, MATH 201

(R) - AGRI 192, PSYC 111

Associate in Applied Arts and Sciences in Agri-Business/Wine Marketing & Management

This technical degree is designed to serve the needs of the student who is new to the wine marketing industry or for persons who wish to focus their current marketing skills toward a career in the wine industry.

Degree available at/via: [Walla Walla]

Degree Outcomes:

- Demonstrate knowledge of accounting basics.
- Demonstrate ability to use computer software to create and use written documents, including spreadsheets, graphical presentations and databases.
- Prepare and orally deliver a sales presentation to a prospect which includes appropriate techniques for opening, presenting product, handling objections and closing.
- Identify and apply management tools used to measure business performance.
- List parts of a business plan and explain the benefits of creating a plan.
- Discuss structure and characteristics of the food product, agricultural production, food processing and retailing; and their influence on food marketing.

- Explain process and influences on making laws in the U.S.

Transferability: The AAAS Degree is designed for students planning to enter their chosen career upon graduation. Often only selected credits are considered transferable to public or private baccalaureate institutions.

YEAR ONE

Quarter One	Credits
AGRI 108, Computers in Agriculture	5
AGRI 201, Microeconomics in Agriculture	5
AGRI 191, Cooperative Work Experience	1
EV 107, Introduction to Viticulture and Enology	5
Total Credits	16

Quarter Two	Credits
AGRI 210, Agricultural Sales and Service	3
AGRI 221, Agricultural Marketing	5
AGRI 191, Cooperative Work Experience	1
EV 141, Introduction to Wine Marketing	3
EV 180, Wines of the World	1
PSYC& 100, General Psychology (R)	5
Total Credits	18

Quarter Three	Credits
AGRI 211, Small Business Management **	5
AGRI 191, Cooperative Work Experience	1
EV 142, Consumer Direct Wine Sales and Marketing	3
EV 243, Wine Marketing Programs *	3
MATH 065, Introductory Algebra (M)	5
Total Credits	17
Year One Total	51

YEAR TWO

Quarter One	Credits
ACCT& 201, Principles of Accounting I	5
CMST 102, Interpersonal Communication (O)	3
ECON& 202, Macroeconomics	5
AGRI 191, Cooperative Work Experience	1
Total Credits	14

Quarter Two	Credits
ACCT& 202, Principles of Accounting II	5
AGRI 191, Cooperative Work Experience	1
ELECT ENG1, ENGL 097, Basic Expository Writing (W)	5
EV 108, Wine Industry Marketplace (J)	3
EV 188, Food and Wine Pairing & Presentation for the Wine Professional *** 2	
EV 299, Leadership (L)	1
Total Credits	17

Quarter Three	Credits
AGRI 220, Agricultural Finance **	5
AGRI 222, Agricultural Policy	5
AGRI 191, Cooperative Work Experience	1
EV 193, Winery Operations Management	5
Total Credits	16
Year Two Total	47
Grand Total	98

EPC: 110D

* A student can complete either AGRI 211 or AGRI 220 (since these are offered on an alternate year basis) and receive the one-year certificate.

** Students may either complete EV 233, Financial Management for Vineyard Wineries or EV 243, Wine Marketing Programs. For the certificate, students may also complete EV 193, Winery Operations Management for this requirement.

*** Students may complete either AGRI 211 or AGRI 220 for the certificate. These courses are offered every-other year.

Students must complete related instruction requirements in the following categories to receive a certificate: Written Communications, Computation/Mathematics, Human Relations. Students must complete all six related instruction categories for the degree.

*** Students may complete either EV 188, Food and Wine Pairing or EV 189, Sensory Analysis of Wine to meet this requirement.

AGRI-BUSINESS

The following courses meet the related instruction requirements of this certificate/degree (one course per category required):

(J) - EV 108

(W) - ELECT ENG1, ENGL& 101

(L) - EV 299

(M) - MATH 065, MATH 201

(O) - CMST 102, CMST& 220

(R) - PSYC 111, PSYC& 100

Agri-Business Certificate

This certificate is equivalent to the first year of the AAAS Degree in Agri-Business.

Certificate available at/via: [Walla Walla]

Certificate Outcomes:

- Demonstrate knowledge of accounting basics.
- Demonstrate ability to use computer software to create and use written documents, including spreadsheets, graphical presentations and databases.
- Prepare and orally deliver a sales presentation to a prospect which includes appropriate techniques for opening, presenting product, handling objections and closing.
- Identify and apply management tools used to measure business performance.
- List parts of a business plan and explain the benefits of creating a plan.
- Discuss structure and characteristics of the food product, agricultural production, food processing and retailing; and their influence on food marketing.
- Demonstrate the ability to prepare graphs to describe business relationships such as the production process, cost, revenue and profit values.
- Illustrate and describe market theory, including effects of changes in demand and supply on the market price and equilibrium quantity and the rationing function of prices.
- Describe advantages and disadvantages of various forms of market structures.
- Describe the factors which affect consumer choice.
- Explain the process and rationality for enacting government regulations impacting businesses and the effect of regulations on market decisions.

YEAR ONE

Quarter One	Credits
AGPR 100, Orientation to Agriculture (J)	3
AGPR 299, Leadership (L)	1
AGRI 102, Farm Records and Analysis	5
AGRI 108, Computers in Agriculture	5
AGRI 201, Microeconomics in Agriculture	5
Total Credits	19
Quarter Two	Credits
AGPR 110, Introduction to Livestock Production	5
AGRI 210, Agricultural Sales and Service	3
AGRI 221, Agricultural Marketing	5
MATH 065, Introductory Algebra (M)	5
Total Credits	18

Quarter Three	Credits
AGPR 140, Agriculture Safety and Health	3
AGRI 103, Farm and Ranch Business Management	5
AGRI 211, Small Business Management *	5
WRITE 100, Applied Writing (W)	3
Total Credits	16

Quarter Four	Credits
AGRI 192, Cooperative Seminar (R)	2
AGRI 191, Cooperative Work Experience	10
Total Credits	12
Year One Total	65
Grand Total	65

EPC: 110C

* A student may complete either AGRI 211 or AGRI 220 (since these are offered on an alternate year basis) and receive a one-year certificate.

** Approved Electives for Agri-Business Degree include: any course with a prefix of AGRI, AGPR, CET, DT, EV, TRK, TURF, WELD or WMGT that is not required for degree.

*** Animal Science Electives: AGPR 111, AGPR 112, AGPR 115, AGPR 116, AGPR 196, AGPR 197, AGPR 198, AGPR 216

Crop Science Electives: AGPR 215, AGPR 105, AGPR 114, AGPR 158, AGPR 159, AGPR 160, AGPR 202, AGPR 215

**** Students may take either AGPR 113, Plant Anatomy and Morphology or AGPR 114, Plant Physiology.

The following courses meet the related instruction requirements of this certificate/degree (one course per category required):

(J) - AGPR 100

(W) - BUS 137, ENGL 097, ENGL& 101, WRITE 100

(L) - AGPR 299

(M) - MATH 065

(O) - CMST 102, CMST& 220, OCSUP 102

(R) - AGRI 192, BUS 157, OCSUP 101, PSYC 111, PSYC& 100

Associate in Applied Arts and Sciences Degree in Agri-Business

This technical degree provides the skills necessary for employment and preparation for advancement in the agri-business industry. Graduates of this program may find employment as farm managers, salesmen, commodity brokers, store managers, or consultants.

Degree available at/via: [Walla Walla]

Degree Outcomes:

- Demonstrate knowledge of accounting basics.
- Demonstrate ability to use computer software to create and use written documents, including spreadsheets, graphical presentations and databases.
- Prepare and orally deliver a sales presentation to a prospect which includes appropriate techniques for opening, presenting product, handling objections and closing.
- Identify and apply management tools used to measure business performance.
- List parts of a business plan and explain the benefits of creating a plan.
- Discuss structure and characteristics of the food product, agricultural production, food processing and retailing; and their influence on food marketing.
- Demonstrate the ability to prepare graphs to describe business relationships such as the production process, cost, revenue and profit values.

AGRI-BUSINESS

- Illustrate and describe market theory, including effects of changes in demand and supply on the market price and equilibrium quantity and the rationing function of prices.
- Describe advantages and disadvantages of various forms of market structures.
- Describe the factors which affect consumer choice.
- Explain the process and rationality for enacting government regulations impacting businesses and the effect of regulations on market decisions.

Transferability: The AAAS Degree is designed for students planning to enter their chosen career upon graduation. Often only selected credits are considered transferable to public or private baccalaureate institutions.

YEAR ONE

Quarter One	Credits
AGPR 100, Orientation to Agriculture (J)	3
AGPR 299, Leadership (L)	1
AGRI 102, Farm Records and Analysis	5
AGRI 108, Computers in Agriculture	5
AGRI 201, Microeconomics in Agriculture	5
Total Credits	19

Quarter Two	Credits
AGPR 110, Introduction to Livestock Production	5
AGRI 210, Agricultural Sales and Service	3
AGRI 221, Agricultural Marketing	5
MATH 065, Introductory Algebra (M)	5
Total Credits	18

Quarter Three	Credits
AGPR 140, Agriculture Safety and Health	3
AGRI 103, Farm and Ranch Business Management	5
AGRI 211, Small Business Management *	5
WRITE 100, Applied Writing (W)	3
Total Credits	16

Quarter Four	Credits
AGRI 192, Cooperative Seminar (R)	2
AGRI 191, Cooperative Work Experience	10
Total Credits	12
Year One Total	65

YEAR TWO

Quarter One	Credits
AGPR 113, Plant Anatomy and Morphology ****	3
AGPR 120, Agricultural Chemistry	5
AGPR 201, Basic Soil Science	5
Agriculture Elective**	5
Total Credits	18

Quarter Two	Credits
Agriculture Elective**	5
Animal Science Elective***	5
OCSUP 102, Oral Communication in the Workplace (O)	3
Total Credits	13

Quarter Three	Credits
AGRI 220, Agricultural Finance *	5
AGRI 222, Agricultural Policy	5
Crop Science Elective***	5
Total Credits	15
Year Two Total	46
Grand Total	111

EPC: 110

* A student may complete either AGRI 211 or AGRI 220 (since these are offered on an alternate year basis) and receive a one-year certificate.

** Approved Electives for Agri-Business Degree include: any course with a prefix of AGRI, AGPR, CET, DT, EV, TRK, TURF, WELD or WMGD that is not required for degree.

*** Animal Science Electives: AGPR 111, APGR 112, AGPR 115, AGPR 116, AGPR 196,

AGPR 197, AGPR 198, AGPR 216

Crop Science Electives: AGRI 215, AGPR 105, AGPR 114, AGPR 158, AGPR 159, AGPR 160, AGPR 202, AGPR 215

**** Students may take either AGPR 113, Plant Anatomy and Morphology or AGPR 114, Plant Physiology.

The following courses meet the related instruction requirements of this certificate/degree (one course per category required):

(J) - AGPR 100

(W) - BUS 137, ENGL 097, ENGL& 101, WRITE 100

(L) - AGPR 299

(M) - MATH 065

(O) - CMST 102, CMST& 220, OCSUP 102

(R) - AGRI 192, BUS 157, OCSUP 101, PSYC 111, PSYC& 100

Associate in Arts Degree (emphasis in Agri-Business)

The Associate in Arts Degree is a transfer degree that prepares the student for continued education at a baccalaureate institution. These students will be able to complete their general education requirements before transferring, begin studies in agri-business, and take electives based upon their intended degree program. Many courses in the department provide direct transfer credit to regional colleges and universities. The Agriculture Department at Walla Walla Community College has articulation agreements with several regional universities.

Degree available at/via: [Walla Walla]

Degree Outcomes:

- Demonstrate knowledge of accounting basics.
- Demonstrate ability to use computer software to create and use written documents, including spreadsheets, graphical presentations and databases.
- Prepare and orally deliver a sales presentation to a prospect which includes appropriate techniques for opening, presenting product, handling objections and closing.
- Identify and apply management tools used to measure business performance.
- List parts of a business plan and explain the benefits of creating a plan.
- Discuss structure and characteristics of the food product, agricultural production, food processing and retailing; and their influence on food marketing.
- Explain process and influences on making laws in the U.S.

Transferability: Students earning the Associate in Arts Degree at WWCC have satisfied basic science and core requirements and are granted junior standing at all of the public and most private baccalaureate institutions in Washington State. For transfer information at specific institution and/or programs consult with your advisor.

Other Information: This is a recommended degree sequence. Consult with department advisor, transfer center staff, and college degree guidelines, for specific courses required for the Associate in Arts (AA) Degree.

AGRICULTURE SCIENCE AND TECHNOLOGY

YEAR ONE

Quarter One	Credits
AGRI 108, Computers in Agriculture	5
AGRI 201, Microeconomics in Agriculture	5
CMST& 220, Public Speaking	5
Physical Education Elective*	1
ENGL& 101, English Composition I	5
Total Credits	21

Quarter Two	Credits
Agriculture Elective*	5
Lab Science Elective*	5
ENGL& 102, English Composition II	5
MATH 115, Finite Mathematics	5
Total Credits	20

Quarter Three	Credits
Agriculture Elective*	5
Physical Education Elective*	1
Literature Elective*	5
MATH& 148, Business Calculus	5
Total Credits	16
Year One Total	57

YEAR TWO

Quarter One	Credits
ACCT& 201, Principles of Accounting I	5
ECON& 202, Macroeconomics	5
Humanities Elective*	5
Social Science Elective**	5
Total Credits	20

Quarter Two	Credits
ACCT& 202, Principles of Accounting II	5
Agriculture Elective*	5
Humanities Elective*	5
MATH 201, Introduction to Statistics	5
Total Credits	20

Quarter Three	Credits
ACCT& 203, Principles of Accounting III	5
AGRI 222, Agricultural Policy	5
Physical Education Elective*	1
Natural Science*	5
Total Credits	16
Year Two Total	56
Grand Total	113

EPC: 001D

* Refer to Associate in Arts (AA) Guidelines for approved elective courses. At least one Diversity course is required.

** Social Science elective: Any PSYC, SOC, HIST, ANTH course.

Agriculture Science and Technology

CERT, AAAS, AA-DTA, AA

<http://wwcc.edu/agscience>

Jerry Kjack

509.527.4225 jerry.kjack@wwcc.edu

Program available at/via: [Walla Walla] [Online (partial)]

Department Overview: Agriculture Science combines the fields of biology and chemistry with a practical understanding of crop and livestock production and management. The primary objectives of the program are to offer students technical knowledge in the areas of soils and fertilizers, pests and control procedures, and crop and livestock production and management. These objectives are accomplished with lecture/discussion periods, lab exercises, and field trips to production enterprise areas. Some courses are available for distance learning for students. The Agriculture Science curriculum is reviewed by

an advisory committee composed of local and regional industry members and adheres to national and state skill standards.

Program Level Outcomes:

- Provide students with the highest level of instruction by offering the latest concepts in Agriculture.
- To attract, retain, and graduate competent students into the Ag Science industry.
- Keep program on "cutting edge" of Agriculture by involving industry in curriculum development and verification of student learning outcomes.
- Articulate the Agriculture Science program horizontally with other related WWCC programs, and vertically, with regional high schools and universities.
- Educate and graduate students who possess the knowledge and skills to participate in the Agriculture industry with confidence, or continue their education at the university level with the same confidence.

Degrees:

Students may earn an Associate in Applied Arts and Sciences Degree in Plant and Soil Science or Animal Science, upon completion of a two-year program of study. The Plant and Soil Science option focuses on crop production, soil fertility and management, and weed biology and identification. The Animal Science option focuses on livestock production, animal nutrition and health, and practical meat cutting. A Plant and Soil Science or Animal Science Certificate, are available upon completion of the first year of study.

For those students interested in attending a baccalaureate institution, WWCC offers a number of direct transfer degrees in Agriculture Science. This allows students to complete the first two-years at WWCC before transferring to a baccalaureate institution.

Industry Description: Production agriculture is an applied science industry requiring trained technicians and professionals with knowledge of biological and chemical principles. Persons employed in the agricultural science field need to apply this knowledge to the production of food and fiber at the primary producer, support services, or research and development level. As the agricultural science industry advances in the use of technology, there is a continued demand for trained individuals.

Entrance Requirements: It is recommended that the student contact the lead instructor regarding appropriate program placement and paying a priority list fee to determine specific quarter start in the program. Students may enter the program fall, winter or spring quarter, however, due to course sequencing it is recommended to begin in the fall. A placement test offered by the Student Development Center must be completed prior to admittance to the program.

Other Information:

The Agriculture Science program is part of the Tech-Prep consortium in the State of Washington. Tech-prep credits from specific high school studies can be awarded for selected courses. Contact your local school counselor or WWCC for more

For the most current information see: www.wwcc.edu

AGRICULTURE SCIENCE AND TECHNOLOGY

information. Students considering transferring should consult with an advisor in the agriculture department prior to taking courses for transfer credit. Program scholarships are available each year to assist students. Contact a program advisor to obtain an application or for more information.

For additional information including regional employment data, completion rates, student characteristics, and employment see <http://www.wtb.wa.gov/etp>.

The Agriculture Center of Excellence is a flagship institution connecting education and industry to create a highly skilled and readily available workforce. The Center of Excellence addresses workforce training needs and education for the agricultural industry by supporting the community and technical college system, as well as collaborating with the K-12 system and four-year colleges/universities. Visit www.agcenterofexcellence.com for more information.

Degrees and Certificates

Agriculture Science and Technology - Plant and Soil Science Certificate

This certificate is equivalent to the first year of the AAAS Degree in Agriculture Science and Technology - Plant and Soil Science.

Certificate available at/via: [Walla Walla]

Certificate Outcomes:

- Develop an integrated weed control program that will adequately control the weed population when given a certain crop and the weeds that are considered problems.
- Perform calculations to determine the amount of herbicide to add to the spray tank and the amount of chemical applied to the target area with 1% tolerance limits when given a sample problem.
- Recognize how the quality of crop products produced relates to the nutritional requirements of farm animals.
- Develop a comprehensive knowledge of plant anatomy, morphology and physiology. Utilize this knowledge to help diagnose plant production problems and develop management schemes to correct the problems.

YEAR ONE

Quarter One	Credits
AGPR 100, Orientation to Agriculture (J)	3
AGPR 113, Plant Anatomy and Morphology	3
AGPR 120, Agricultural Chemistry	5
AGRI 108, Computers in Agriculture	5
Total Credits	16

Quarter Two	Credits
AGPR 110, Introduction to Livestock Production	5
AGPR 114, Plant Physiology	5
Agriculture Elective*	5
MATH 065, Introductory Algebra (M)	5
Total Credits	20

Quarter Three	Credits
AGPR 105, Weed Biology and Identification	5
AGPR 215, Field Crop Production	5
AGRI 215, Plant Diseases and Insects	5
WRITE 100, Applied Writing (W)	3
Total Credits	18
Year One Total	54
Grand Total	54

EPC: 105E

* Approved Electives for Agri-Science and Technology Degree: Any course with a prefix of AGRI, AGPR, CET, DT, EV, TURF, WELD and WMGT may be used to meet the agriculture elective requirement.

The following courses meet the related instruction requirements of this certificate/degree (one course per category required):

(J) - AGPR 100

(W) - BUS 137, ENGL 097, ENGL& 101, WRITE 100,

(M) - MATH 065

Agriculture Science and Technology - Animal Science Certificate

This certificate is equivalent to the first year of the AAAS Degree in Agriculture Science and Technology - Animal Science.

Certificate available at/via: [Walla Walla]

Certificate Outcomes:

- Recognize and discuss the management procedures within specific production schemes for each species of farm animals (as studied in this program).
- Develop a working knowledge of animal anatomy and physiology (those animals studied in this program). Use this knowledge to help in diagnosing certain physical ailments and common health problems of farm animals.
- Develop a working knowledge of animal nutrition and health as it relates to animal feeds and ration requirements for common farm animals (cattle, sheep, hogs, horses).
- Identify the basic principles of animal development for the production of mean products for human consumption, to include food safety, nutritive value, inspection, and grading.

YEAR ONE

Quarter One	Credits
AGPR 100, Orientation to Agriculture (J)	3
AGPR 120, Agricultural Chemistry	5
AGRI 102, Farm Records and Analysis	5
AGRI 108, Computers in Agriculture	5
Total Credits	18

Quarter Two	Credits
AGPR 110, Introduction to Livestock Production	5
AGPR 299, Leadership (L)	1
Agriculture Elective*	5
WRITE 100, Applied Writing (W)	3
Total Credits	14

Quarter Three	Credits
AGPR 115, Preventative Veterinary Medical Care	5
AGPR 116, Meat Science I	5
AGPR 140, Agriculture Safety and Health	3
MATH 065, Introductory Algebra (M)	5
Total Credits	18
Year One Total	50
Grand Total	50

AGRICULTURE SCIENCE AND TECHNOLOGY

EPC: 105C

* Approved Electives for Agri-Science and Technology Degree: Any course with a prefix of AGRI, AGPR, CET, DT, EV, TURF, WELD and WMGT may be used to meet the agriculture elective requirement.

The following courses meet the related instruction requirements of this certificate/degree (one course per category required):

(J) - AGPR 100

(W) - BUS 137, ENGL 097, ENGL& 101, WRITE 100,

(L) - AGPR 299

(M) - MATH 065

Associate in Applied Arts and Sciences Degree in Agriculture Science and Technology - Animal Science

This technical degree prepares the student for a career in the agricultural animal science production industry. This program is also designed for the individual who is interested in improving their current animal husbandry skills and knowledge.

Degree available at/via: [Walla Walla]

Degree Outcomes:

- Recognize and discuss the management procedures within specific production schemes for each species of farm animals (as studied in this program).
- Develop a working knowledge of animal anatomy and physiology (those animals studied in this program). Use this knowledge to help in diagnosing certain physical ailments and common health problems of farm animals.
- Develop a working knowledge of animal nutrition and health as it relates to animal feeds and ration requirements for common farm animals (cattle, sheep, hogs, horses).
- Identify the basic principles of animal development for the production of mean products for human consumption, to include food safety, nutritive value, inspection, and grading.
- Develop a basic understanding of the factors involved in the marketing of farm animals for profit.

Transferability: The AAAS Degree is designed for students planning to enter their chosen career upon graduation. Often only selected credits are considered transferable to public or private baccalaureate institutions.

YEAR ONE

Quarter One	Credits
AGPR 100, Orientation to Agriculture (J)	3
AGPR 120, Agricultural Chemistry	5
AGRI 102, Farm Records and Analysis	5
AGRI 108, Computers in Agriculture	5
Total Credits	18

Quarter Two	Credits
AGPR 110, Introduction to Livestock Production	5
AGPR 299, Leadership (L)	1
Agriculture Elective*	5
WRITE 100, Applied Writing (W)	3
Total Credits	14

Quarter Three	Credits
AGPR 115, Preventative Veterinary Medical Care	5
AGPR 116, Meat Science I	5
AGPR 140, Agriculture Safety and Health	3
MATH 065, Introductory Algebra (M)	5
Total Credits	18

Quarter Four

AGRI 192, Cooperative Seminar (R)	2
AGRI 191, Cooperative Work Experience	10
Total Credits	12
Year One Total	62

YEAR TWO

Quarter One	Credits
AGPR 111, Animal Nutrition and Health	5
AGPR 201, Basic Soil Science	5
AGRI 201, Microeconomics in Agriculture	5
Total Credits	15

Quarter Two	Credits
AGPR 112, Feeds and Feeding	5
AGRI 221, Agricultural Marketing	5
CMST& 220, Public Speaking (O)	5
Total Credits	15

Quarter Three	Credits
AGRI 103, Farm and Ranch Business Management	5
AGRI 222, Agricultural Policy	5
Agriculture Elective*	5
Total Credits	15
Year Two Total	45
Grand Total	107

EPC: 105B

* Approved Electives for Agri-Science and Technology Degree: Any course with a prefix of AGRI, AGPR, CET, DT, EV, TURF, WELD and WMGT may be used to meet the agriculture elective requirement.

The following courses meet the related instruction requirements of this certificate/degree (one course per category required):

(J) - AGPR 100

(W) - BUS 137, ENGL 097, ENGL& 101, WRITE 100,

(L) - AGPR 299

(M) - MATH 065

(O) - CMST 102, CMST& 220, OCSUP 102

(R) - AGRI 192, BUS 157, OCSUP 101, PSYC 111, PSYC& 100

Associate in Applied Arts and Sciences Degree in Agriculture Science and Technology - Plant and Soil Science

This technical degree prepares the student for a career in agricultural crop production industry. This program is also designed for the individual who is interested in improving their current plant and soil science skills and knowledge.

Degree available at/via: [Walla Walla]

Degree Outcomes:

- Develop an integrated weed control program that will adequately control the weed population when given a certain crop and the weeds that are considered problems.
- Perform calculations to determine the amount of herbicide to add to the spray tank and the amount of chemical applied to the target area with 1% tolerance limits when given a sample problem.
- Recognize how the quality of crop products produced relates to the nutritional requirements of farm animals.
- Develop a soil analysis and fertility program for a designated crop to include a cost analysis.
- Place a chemical in its proper toxicity category and identify safety precautions necessary in its application and use when given a LD50 value of a certain pesticide product.

AGRICULTURE SCIENCE AND TECHNOLOGY

- Develop a comprehensive knowledge of plant anatomy, morphology and physiology. Utilize this knowledge to help diagnose plant production problems and develop management schemes to correct the problems.

Transferability: The AAAS Degree is designed for students planning to enter their chosen career upon graduation. Often only selected credits are considered transferable to public or private baccalaureate institutions.

YEAR ONE

Quarter One	Credits
AGPR 100, Orientation to Agriculture (J)	3
AGPR 113, Plant Anatomy and Morphology	3
AGPR 120, Agricultural Chemistry	5
AGRI 108, Computers in Agriculture	5
Total Credits	16

Quarter Two	Credits
AGPR 110, Introduction to Livestock Production	5
AGPR 114, Plant Physiology	5
Agriculture Elective*	5
MATH 065, Introductory Algebra (M)	5
Total Credits	20

Quarter Three	Credits
AGPR 105, Weed Biology and Identification	5
AGPR 215, Field Crop Production	5
AGRI 215, Plant Diseases and Insects	5
WRITE 100, Applied Writing (W)	3
Total Credits	18

Quarter Four	Credits
AGRI 192, Cooperative Seminar (R)	2
AGRI 191, Cooperative Work Experience	10
Total Credits	12
Year One Total	66

YEAR TWO

Quarter One	Credits
AGPR 201, Basic Soil Science	5
AGRI 102, Farm Records and Analysis	5
AGRI 201, Microeconomics in Agriculture	5
Total Credits	15

Quarter Two	Credits
AGPR 202, Soils Fertility and Management	5
AGPR 299, Leadership (L)	1
AGRI 221, Agricultural Marketing	5
CMST& 220, Public Speaking (O)	5
Total Credits	16

Quarter Three	Credits
AGPR 140, Agriculture Safety and Health	3
AGRI 222, Agricultural Policy	5
Agriculture Elective*	5
Total Credits	13
Year Two Total	44
Grand Total	110

EPC: 105A

* Approved Electives for Agri-Science and Technology Degree: Any course with a prefix of AGRI, AGPR, CET, DT, EV, TURF, WELD and WMGT may be used to meet the agriculture elective requirement.

The following courses meet the related instruction requirements of this certificate/degree (one course per category required):

(J) - AGPR 100

(W) - BUS 137, ENGL 097, ENGL& 101, WRITE 100,

(L) - AGPR 299

(M) - MATH 065

(O) - CMST 102, CMST& 220, OCSUP 102

(R) - AGRI 192, BUS 157, OCSUP 101, PSYC 111, PSYC& 100

Associate in Agriculture - Ag Food Systems Core - WSU-DTA/MRP

This degree is articulated with the Ag Food Systems Department at Washington State University for students interested in WSU's Ag Food Systems Core program.

Degree available at/via: [Walla Walla]

YEAR ONE

Quarter One	Credits
CHEM& 121, Introduction to Chemistry	5
ECON& 201, Microeconomics	5
Plant Science Elective**	3-5
Literature Elective	5
Total Credits	18-20

Quarter Two	Credits
CHEM& 122, Introduction to Organic Chemistry	5
Physical Education Elective	1
ENGL& 101, English Composition I	5
MATH 115, Finite Mathematics	5
Total Credits	16

Quarter Three	Credits
CHEM& 123, Introduction to Biochemistry	5
Physical Education Elective	1
MATH 201, Introduction to Statistics	5
PSYC& 100, General Psychology	5
Total Credits	16
Year One Total	50-52

YEAR TWO

Quarter One	Credits
AGPR 100, Orientation to Agriculture	3
AGPR 201, Basic Soil Science	5
BIOL 130, General Ecology	5
BIOL& 100, Survey of Biology	5
Total Credits	18

Quarter Two	Credits
BIOL& 213, Majors Plant	5
Humanities Elective	5
Physical Education Elective	1
ENGL& 102, English Composition II	5
Total Credits	16

Quarter Three	Credits
AGRI 222, Agricultural Policy	5
CMST& 220, Public Speaking	5
Animal Science Elective*	5
Total Credits	15
Year Two Total	49
Grand Total	99-101

EPC: 001Z

* A student may complete AGPR 110, 111, 112 or 116 to meet this elective requirement.

** A student may complete AGPR 113, 114, or 215 to meet this elective requirement.

AGRICULTURE SCIENCE AND TECHNOLOGY

Associate in Agriculture - Agriculture Food Systems/Ag Technology and Production Management - WSU DTA/MRP

This degree is articulated with the Ag Food Systems Department at Washington State University for students interested in WSU's Ag Food Production Management program.

Degree available at/via: [Walla Walla]

YEAR ONE

Quarter One	Credits
AGPR 100, Orientation to Agriculture	3
AGRI 201, Microeconomics in Agriculture	5
Choose 1: AGPR 113 or AGPR 114	3
Agriculture Elective	5
Physical Education Elective	1
Total Credits	17

Quarter Two	Credits
CMST& 220, Public Speaking	5
Agriculture Elective	5
Animal Science Elective*	5
ENGL& 101, English Composition I	5
Total Credits	20

Quarter Three	Credits
AGPR 105, Weed Biology and Identification	5
BIOL& 211, Majors Cellular ***	5
Physical Education Elective	1
MATH 201, Introduction to Statistics	5
Total Credits	16
Year One Total	53

YEAR TWO

Quarter One	Credits
AGPR 201, Basic Soil Science	5
BIOL 130, General Ecology	5
Social Science Elective**	5
WMGT 112, Irrigation Principles	5
Total Credits	20

Quarter Two	Credits
BIOL& 213, Majors Plant ****	5
Agriculture Elective	5
Literature Elective	5
Physical Education Elective	1
Total Credits	16

Quarter Three	Credits
AGPR 215, Field Crop Production *****	5
AGRI 222, Agricultural Policy	5
Humanities Elective	5
ENGL& 102, English Composition II	5
Total Credits	20
Year Two Total	56
Grand Total	109

EPC: 001Y

*A student may complete AGPR 110, 111, 112 or 116 to meet this elective requirement.

** Social Science Elective: Any PSYC, SOC, ANTH, HIST course.

*** Students may either take BIOL& 211, Majors Cellular or CHEM& 161, General Chemistry I with Lab.

**** Students may either take BIOL& 213, Majors Plant or CHEM& 162, General Chemistry II with Lab.

***** Students may either take AGPR 215, Field Crop Production or AGRI 215, Plant Diseases and Insects.

Associate in Agriculture - Ag Food Business Management WSU DTA/MRP

This degree is articulated with the Ag Food Systems Department at Washington State University for students interested in WSU's Ag Food System and Ag Food Business Management program.

Degree available at/via: [Walla Walla]

YEAR ONE

Quarter One	Credits
AGPR 100, Orientation to Agriculture	3
AGRI 201, Microeconomics in Agriculture	5
BIOL& 211, Majors Cellular ****	5
ENGL& 101, English Composition I	5
Total Credits	18

Quarter Two	Credits
AGRI 221, Agricultural Marketing	5
Humanities Elective	5
Literature Elective	5
MATH 115, Finite Mathematics	5
Total Credits	20

Quarter Three	Credits
AGRI 222, Agricultural Policy	5
BIOL 130, General Ecology *****	5
Physical Education Elective	1
MATH 201, Introduction to Statistics	5
Total Credits	16
Year One Total	54

YEAR TWO

Quarter One	Credits
ACCT& 201, Principles of Accounting I	5
AGPR 201, Basic Soil Science	5
Plant Science Elective**	3-5
Physical Education Elective	1
Social Science Elective***	5
Total Credits	19-21

Quarter Two	Credits
ACCT& 202, Principles of Accounting II	5
BIOL& 213, Majors Plant *****	5
CMST& 220, Public Speaking	5
Animal Science Elective*	5
Total Credits	20

Quarter Three	Credits
ACCT& 203, Principles of Accounting III	5
AGRI 211, Small Business Management	5
Physical Education Elective	1
ENGL& 102, English Composition II	5
Total Credits	16
Year Two Total	55-57
Grand Total	109-111

EPC: 001X

*A student may complete AGPR 110, 111, 112 or 116 to meet this elective requirement.

** Plant Science Elective: AGPR 113, 114, 215, or AGRI 215.

*** Social Science Elective: Any PSYC, SOC, ANTH, HIST course.

**** Students may either take BIOL& 211, Majors Cellular or CHEM& 161, General Chemistry I with Lab.

***** Students may either take BIOL 130, General Ecology or CHEM& 162, General Chemistry II with Lab.

***** Students may either take BIOL& 213, Majors Plant or CHEM& 163, General Chemistry III with Lab.

AGRICULTURE SCIENCE AND TECH. - ALLIED HEALTH AND SAFETY

Associate in Agriculture - Ag Food Systems/ Ag-Education WSU DTA/MRP

This degree is articulated with the Ag Food Systems Department at Washington State University for students interested in WSU's Ag Education program.

Degree available at/via: [Walla Walla]

YEAR ONE

Quarter One	Credits
AGPR 100, Orientation to Agriculture	3
AGRI 201, Microeconomics in Agriculture	5
BIOL& 211, Majors Cellular	5
Physical Education Elective	1
ENGL& 101, English Composition I	5
Total Credits	19

Quarter Two	Credits
AGRI 221, Agricultural Marketing	5
BIOL& 213, Majors Plant	5
Animal Science Elective*	5
MATH 115, Finite Mathematics	5
WELD 141, Welding Basics	4
Total Credits	24

Quarter Three	Credits
AGPR 158, Greenhouse Crop Production I	1-5
BIOL 130, General Ecology	5
Plant Science Elective	3-5
Physical Education Elective	1
PSYC& 100, General Psychology	5
Total Credits	15-21
Year One Total	58-64

YEAR TWO

Quarter One	Credits
AGPR 201, Basic Soil Science	5
CHEM& 121, Introduction to Chemistry ***	5
CMST& 220, Public Speaking	5
ENGL& 102, English Composition II	5
Total Credits	20

Quarter Two	Credits
CHEM& 122, Introduction to Organic Chemistry ****	5
Humanities Elective	5
Physical Education Elective	1
MATH 201, Introduction to Statistics	5
Total Credits	16

Quarter Three	Credits
AGPR 105, Weed Biology and Identification	5
AGRI 222, Agricultural Policy	5
CHEM& 123, Introduction to Biochemistry *****	5
Literature Elective	5
Total Credits	20
Year Two Total	56
Grand Total	114-120

EPC: 001W

* A student may complete AGPR 110, 111, 112 or 116 to meet this elective requirement.

** Plant Science Elective: AGPR 113, 114, 215, or AGRI 215.

*** Student may take either CHEM& 121, Introduction to Chemistry or CHEM& 161, General Chemistry I with Lab.

**** Student may take either CHEM& 122, Introduction to Organic Chemistry or CHEM& 162, General Chemistry II with Lab.

***** Student may take either CHEM& 123, Introduction to Biochemistry or CHEM& 163, General Chemistry III with Lab.

Alcohol and Chemical Dependency

<http://wwcc.edu/alliedhealth>

Sandra Graham 509.527.4462 sandra.graham@wwcc.edu

Bradley Mason 509.527.4579 bradley.mason@wwcc.edu

Program available at/via: [Walla Walla]

Department Overview: Alcohol and Chemical Dependency courses offered are applicable to initial certification and continuing education of Chemical Dependency Counselors.

Allied Health and Safety Education

CERT

<http://www.wwcc.edu/alliedhealth>

Sandra Graham 509.527.4462 sandra.graham@wwcc.edu

Bradley Mason 509.527.4579 bradley.mason@wwcc.edu

Program available at/via: [Walla Walla] [Clarkston]

Department Overview: The purpose of Allied Health and Safety Education (AHSE) is to create a learning environment to support a variety of educational, personal enrichment, and career development goals in the field of health and safety. The clientele served by AHSE comprise a wide age group at a variety of educational levels and differing learning outcomes that range from obtaining and maintaining job skills, training for new careers, and personal growth.

Degrees:

The Allied Health and Safety Education department provides a wide variety of public and health education programs which include: Medic First Aid, First Responder, Emergency Medical Technician (EMT and ILS), CPR for Healthcare Providers, Nursing Assistant, Fundamentals of Caregiving, Phlebotomy, Medical Assisting, Spanish Medical Interpreter, Chemical Dependency Counseling, Fire Science and distance learning program partnerships in Medical Laboratory Technology (Wenatchee Valley College) and Physical Therapy Assistant (Whatcom Community College).

The Nursing Assistant program provides training in basic nursing care under state and federal guidelines. The Phlebotomy Technician course is offered on an annual basis during spring quarter. The following is a list of courses offered to help students obtain necessary state requirements and/or provide enrichment for increased information: Nursing Assistant Training Program, Fundamentals of Caregiving-Basic, Fundamentals of Caregiving-Modified, Nurse Delegation, Introduction to Health Services, Phlebotomy, AIDS Education, AIDS/Bloodborne Pathogens Training, Chemical Dependency Counseling Education, OTEP Training, Medic First Aid, Medic First Aid Recertification, and CPR (Heartsaver, Healthcare Provider, Pediatric-Basic), CPR Instructor Certification and Recertification.

The Spanish Medical Interpreter Certificate may be completed in 2 quarters of full time study, consisting of 24.8 credits of programmatic and related instruction. Depending upon placement testing and bilingual language screening results

ALLIED HEALTH AND SAFETY

students may need to complete additional prerequisite coursework in English or Spanish in order to obtain the minimum level of oral, written or reading proficiency in both languages. All Spanish Medical Interpreter program applicants must complete a two-part written and oral Spanish language assessment test in addition to submitting an application for the Spanish Medical Interpreter program. Please contact the Allied Health department at 527-4589 to schedule an appointment to take this test.

The Allied Health and Safety Education Department also offer a variety of Healthcare Education training opportunities for professionals to include: Pharmacology, Healthy Lifestyles, Basic Arrhythmias, 12 Lead ECG, Physical Assessment, and continuing education conferences.

Industry Description: Because of the growing population and increased aging sector of our country, there is a demand for trained workers in a variety of health related occupations. The health care industry is experiencing shortages of qualified, competent healthcare workers. Health service jobs represent the fastest growth categories in the State of Washington.

Entrance Requirements: Most courses require a high school diploma or GED, and in some cases require an advanced level of certification or registration. Some areas do not require high school diploma or GED but have basic requirements such as reading, writing, and language proficiency requirements.

Other Information:

Funding is sometimes available through various agencies for the Nursing Assistant course.

Allied Health and Safety Education includes the following departments: Alcohol and Chemical Dependency (ALCDA), Cardio Pulmonary Resuscitation (CPR), Fire Science (FCA), Health Occupations (HO), Industrial First Aid (IFA), and Medical Assisting (MEDA).

Degrees and Certificates

Spanish Medical Interpreter Certificate

The Spanish Medical Interpreter Certificate may be completed in 2 quarters of full time study, consisting of 24.6 credits of programmatic and related instruction. Depending upon placement testing and bilingual language screening results students may need to complete additional prerequisite coursework in English, Spanish or computer skills in order to obtain the minimum level of communication skills and computer proficiency in both languages.

Students must have their high school diploma or GED before entering the program. All Spanish Medical Interpreter program applicants must complete a two-part written and oral Spanish language assessment test in addition to submitting an application for the Spanish Medical Interpreter program. Please contact the Allied Health department at 527-4589 to schedule an appointment to take this test.

Other Information: Students must have their high school diploma or GED before entering the program. Depending upon placement testing and bilingual language screening results students may need to complete additional prerequisite coursework in English, Spanish, or computer skills in order to obtain the minimum level of communication skills and computer proficiency in both languages.

All Spanish Medical Interpreter program applicants must complete a two-part written and oral Spanish language assessment test in addition to submitting an application for the Spanish Medical Interpreter program. Please contact the Allied Health department at 527-4589 to schedule an appointment to take this test.

YEAR ONE

Quarter One	Credits
CPR 051, Basic Life Support (BLS) for Healthcare Providers *	4
HO 110, HIV/AIDS Education*	4
HO 181, Fundamentals of Medical Interpreting I	7
OT 280, Medical Terminology *	5
Total Credits	12.8

Quarter Two	Credits
HO 174, Transcultural Competency for Health Professionals	2
HO 182, Fundamentals of Medical Interpreting II	10
Total Credits	12
Year One Total	24.8
Grand Total	24.8

EPC: 438Y

Students must have their high school diploma or GED before entering the program. Depending upon placement testing and bilingual language screening results students may need to complete additional prerequisite coursework in English, Spanish, or computer skills in order to obtain the minimum level of communication skills and computer proficiency in both languages. ??All Spanish Medical Interpreter program applicants must complete a two-part written and oral Spanish language assessment test in addition to submitting an application for the Spanish Medical Interpreter program. Please contact the Allied Health department at 527-4589 to schedule an appointment to take this test.

Emergency Medical Technician (EMT) Certificate

This course provides the student with the basic knowledge necessary to improve the quality of emergency care in a pre-hospital setting to victims of accidents or illness. Students who successfully complete the program will be eligible to take the state certification exam.

Quarter One	Credits
HO 130, Emergency Medical Technician (EMT)	10
Grand Total	10

EPC: 363W

Emergency Medical Responder Endorsement

This course provides the student with the basic skills necessary to provide initial emergency care in a pre-hospital setting to victims of accidents or illness. Emergency Medical Responders are initial caregivers in an emergency situation and have knowledge and skill level above a basic first aid and below the Emergency Medical Technician. Students who successfully complete the class are eligible to take the state certification exam.

ALLIED HEALTH AND SAFETY - ART

Quarter One

HO 132, Emergency Medical Responder	6
Grand Total	6

EPC: 363X

Nursing Assistant Certificate

The Nursing Assistant program provides training in basic nursing care under state and federal guidelines.

Quarter One

HO 100, Nursing Assistant	6
Grand Total	6

EPC: 329

Nursing Assistant/Advanced Endorsement

This endorsement is designed as an enrichment class for Certified Nursing Assistants. The course provides additional knowledge and critical components for the CNA desiring more advanced training.

Quarter One

HO 102, Nursing Assistant/Advanced	6
Grand Total	6

EPC: 329X

Phlebotomy Certificate

This endorsement is designed to prepare the student to collect, handle, and process blood specimen for analysis in clinical settings. The student takes a national certification exam at the conclusion of the instruction.

Quarter One

HO 106, Phlebotomy	9
Grand Total	9

EPC: 382

American Sign Language

Nancy Henry 509.758.3339 nkhenry@clearwire.net

Program available at/via: [Clarkston]

Department Overview: The American Sign Language department strives to provide students with basic sign language vocabulary and exposure to deaf culture. Learn to communicate in a conversation with deaf or hearing impaired individuals and recognize facial expressions.

Anthropology

<http://wwcc.edu/anthropology>

Jim Peitersen 509.527.4601 james.peitersen@wwcc.edu

Program available at/via: [Walla Walla]

Department Overview: Anthropology studies the origin as well as the physical, social and cultural development of humans. Anthropologists study the way of life, archaeological remains, language, or physical characteristics of people in various parts of the world. Cultural anthropologists compare the customs, values and social practices of people in different cultures.

Program Level Outcomes:

- The ability to analyze past and present society, diverse cultures and histories to better understand individual and group behavior and enhance self awareness.
- An understanding and working knowledge of the theories, concepts, ideas, terminology, and factual evidence in selected fields within the social sciences.
- Sensitivity in understanding diverse views and perspectives.
- An understanding of the historically and socially constructed nature of human differences.

Degrees: Students may earn an Associate in Arts AA-DTA degree (90 credits) which is designed for students planning to transfer to a baccalaureate institution with junior standing. Students pursuing this degree should meet with an academic advisor at WWCC and an advisor at their intended baccalaureate institution to determine an appropriate educational plan. (See AA-DTA in Degrees section of catalog)

Preparation for Success: A major in Anthropology is strengthened by studies in statistics, history, sociology, and humanities. The ability to utilize computers for research purposes is mandatory in most disciplines.

Art

<http://wwcc.edu/art>

Lisa Rasmussen 509.527.1873 lisa.rasmussen@wwcc.edu

Nanqi You 509.527.4583 nanqi@wwcc.edu

Program available at/via: [Walla Walla] [Clarkston]

Department Overview: The Art Department offers a wide range of two-dimensional and three-dimensional courses for students interested in the fine and applied arts. Students have the opportunity to experience a variety of media and perspectives on the visual arts. The curriculum is designed to be equally satisfying for individuals looking for personal enrichment as well as provide a solid foundation for individuals planning on a career in the arts. All students are welcome to enroll in art courses.

Program Level Outcomes:

- An aesthetic and intellectual comprehension of culturally and linguistically diverse works in literature, philosophy, visual and performing arts, including film and music.
- An understanding and working knowledge of terminology commonly used in the humanities.
- An appropriate level of creativity, discipline, and technique in the production of assigned work in the humanities.

Degrees: Students may earn an Associate in Arts AA-DTA degree (90 credits) which is designed for students planning to transfer to a baccalaureate institution with junior standing. Students pursuing this degree should meet with an academic advisor at WWCC and an advisor at their intended baccalaureate institution to determine an appropriate educational plan. (See AA-DTA in Degrees section of catalog)

ART - AUTO BODY REPAIR TECHNOLOGY

Preparation for Success: Art students begin with foundation courses in design, drawing, and art appreciation. Students expecting to work toward a BFA or BA with emphasis in art should work closely with their advisor and give careful attention to the requirements of the selected baccalaureate institution and should be working on a quality portfolio to present for evaluation after transferring. Studies in computer graphics will contribute to the success of a professional career in art and design.

Other Information: Postsecondary training is recommended for all artist specialties. Although formal training is not strictly required, it is very difficult to become skilled enough to make a living in the arts without it. Many colleges and universities offer programs leading to the bachelor's or master's degree in fine arts. Formal educational programs in art also provide training in computer techniques. Computers are used widely in the visual arts, and knowledge and training in computer graphics and other visual display software are critical elements of many jobs in these fields.

Astronomy

<http://wwcc.edu/astronomy>

Steve May 509.527.4278 steve.may@wwcc.edu
Frank Skorina 509.527.4578 frank.skorina@wwcc.edu

Program available at/via: [Walla Walla]

Department Overview:

Astronomy is the science dedicated to the study of the organization, behavior and evolution of matter and energy in the universe. Specific areas of study include the nature and formation of planets, stars and galaxies, as well as the significances of the grand scale structure of the entire universe.

Astronomy courses are intended for any student with an interest in the subject. All are taught with an emphasis on conceptual understanding, although laboratory exercises do involve some use of basic algebra.

Program Level Outcomes:

- An understanding of discipline specific terminology and methods.
- An ability to correctly use discipline specific tools and /or techniques.
- Critical thinking skills necessary in science including appropriate study techniques, problem solving skills and the use of data to assess the validity of claims.
- The ability to research, interpret and communicate concepts obtained from scientific literature.
- An understanding of the relationships between course concepts and society, including the impact of course specific technology.

Degrees: Astronomy degrees at the bachelor's level are generally offered by physics departments. Students interested in pursuing astronomy as a major, after transfer to a baccalaureate institution, should obtain an Associate in Science (AS) Degree - Option II, following the course sequence specified for physics majors.

Preparation for Success: Students interested in a major in Astronomy should take additional courses in physics, geology and mathematics.

Auto Body Repair Technology

CERT, AAAS

<http://wwcc.edu/autobody>

Daniel Norton 509.527.4569 daniel.norton@wwcc.edu

Program available at/via: [Walla Walla]

Department Overview: Auto Body Repair keeps pace with the fast-moving auto body/collision repair industry and covers all aspects of body repair and refinishing with an emphasis on the most up-to-date methods. WWCC uses the I-CAR curriculum, which is designed to provide students with hands-on work based learning. The program is also nationally certified by NATEF/ASE in four areas of instruction. The Auto Body program is designed to provide students with hands-on, work based learning. To facilitate this, the college acquires late model, damaged vehicles, providing a platform on which student may learn and develop skills. The Auto Body curriculum is reviewed by an advisory board composed of local and regional industry members.

Program Level Outcomes:

- Update Autobody Repair Technology program curriculum in accordance with current industry skill standards and I-CAR standards.
- Prepare graduates to enter the auto body industry with the knowledge and skills necessary to be successful.
- Articulate the Auto Body Technology program horizontally with other WWCC programs and vertically with regional high schools and tech centers.

Degrees: Students may earn an Associate in Applied Arts and Sciences Degree in Auto Body Repair Technology, upon completion of a two-year program of study. An Auto Body Repair Certificate, is available upon completion of the first year of study in the program.

Students who earn their AAAS in Auto Body Repair Technology may also earn a dual degree in Diesel Technology or Automotive Repair Technology after one additional year of instruction. Please speak with your instructor about the required and specific classes needed.

Industry Description: There is a high demand for skilled auto body repair technicians. Automotive manufacturers have made revolutionary changes in automobile designs. These changes have brought new concepts to the field of auto body repair, requiring proper training to restore damaged vehicles to their factory specifications in both body repair and painting. The technology of the automobile has changed faster in the past five years than it had in the previous two decades, ensuring that the future looks great for skilled people in the collision repair field. Auto manufacturers constantly refine and change their products in response to customers' demands and governmental regulations. This means all new designs, new products/ materials, advanced manufacturing processes, hi-tech systems, and safety features are being incorporated into each new automobile. Skilled technicians will be required to repair modern vehicles.

AUTOBODY REPAIR TECHNOLOGY

Entrance Requirements: It is recommended that the student contact the lead instructor regarding appropriate program placement. Students may enter the program fall, winter or spring quarter, however, due to course sequencing it is recommended to begin in the fall. A placement test and mechanical reasoning test offered by the Student Development Center must be completed prior to admittance to the program.

Other Information: For additional information including regional employment data, completion rates, student characteristics, and employment see <http://www.wtb.wa.gov/etp>.

Degrees and Certificates

Auto Body Repair Technology Certificate

This certificate is equivalent to the first year of the AAAS Degree in Auto Body Repair Technology.

Certificate available at/via: [Walla Walla]

Certificate Outcomes:

- Use body shop hand tools, common hand tools, and power tools.
- Explain vehicle structure and construction.
- Perform a collision damage analysis.
- Perform structural and non structural repairs.
- Establish corrosion protection.
- Remove and install movable and stationary glass.
- Measure structural damage and how to use various types of pulling equipment to repair the damage.
- Operate paint spray equipment.
- Mix and apply automotive finishes incorporating waterborne paint products.
- Perform wheel alignment using electronic alignment equipment.
- Perform welding procedures and use equipment, GMAW & RSTSW to I-CAR standards.
- Demonstrate plastic repairs using modern adhesives.
- Demonstrate skills in estimating vehicle damage.
- Demonstrate safe practices in the auto body lab.
- Demonstrate proficiency with the NATEF competencies in each of the four areas: electrical, structural, non-structural, and refinishing.

YEAR ONE

Quarter One	Credits
ABT 161, Auto Body Repair	21
OCSUP 101, Job Psychology: Workplace and Educational Success Skills (R) 3	
Total Credits	24
Quarter Two	Credits
ABT 162, Auto Body Repair II*	21
OCSUP 106, Applied Mathematics I (M)	5
Total Credits	26

Quarter Three	Credits
ABT 163, Auto Body Refinishing	21
WRITE 100, Applied Writing (W)	3
Total Credits	24
Year One Total	74
Grand Total	74

EPC: 709C

The following courses meet the related instruction requirements of this certificate/degree (one course per category required):

- (J) - AGPR 100, BUS 292, OCSUP 103, PSYC 140
 (W) - BUS 137, ENGL 097, ENGL& 101, WRITE 100
 (L) - ABT 299, BUS 192, OCSUP 299, POLS 125
 (M) - BUS 112, MATH 049, OCSUP 106
 (O) - CMST 102, CMST& 220, OCSUP 102
 (R) - BUS 157, OCSUP 101, PSYC 111, PSYC& 100

Associate in Applied Arts and Sciences Degree in Auto Body Repair Technology

This technical degree prepares the student with the knowledge necessary to enter the auto body industry.

Degree available at/via: [Walla Walla]

Degree Outcomes:

- Use body shop hand tools, common hand tools, and power tools.
- Explain vehicle structure and construction.
- Perform a collision damage analysis.
- Perform structural and non structural repairs.
- Establish corrosion protection.
- Remove and install movable and stationary glass.
- Measure structural damage and how to use various types of pulling equipment to repair the damage.
- Operate paint spray equipment.
- Mix and apply automotive finishes incorporating waterborne paint products.
- Perform wheel alignment using electronic alignment equipment.
- Perform welding procedures and use equipment, GMAW & RSTSW to I-CAR standards.
- Demonstrate plastic repairs using modern adhesives.
- Demonstrate skills in estimating vehicle damage.
- Demonstrate safe practices in the auto body lab.
- Demonstrate proficiency with the NATEF competencies in each of the four areas: electrical, structural, non-structural, and refinishing.

Transferability: The AAAS Degree is designed for students planning to enter their chosen career upon graduation. Often only selected credits are considered transferable to public or private baccalaureate institutions.

YEAR ONE

Quarter One	Credits
ABT 161, Auto Body Repair	21
OCSUP 101, Job Psychology: Workplace and Educational Success Skills (R) 3	
Total Credits	24

AUTO BODY REPAIR TECH. - AUTOMOTIVE REPAIR TECH.

Quarter Two

ABT 162, Auto Body Repair II*	21
OCSUP 106, Applied Mathematics I (M)	5
Total Credits	26

Quarter Three

ABT 163, Auto Body Refinishing	21
WRITE 100, Applied Writing (W)	3
Total Credits	24
Year One Total	74

YEAR TWO

Quarter One

ABT 264, Unibody Rebuilding	21
OCSUP 102, Oral Communication in the Workplace (O)	3
Total Credits	24

Quarter Two

ABT 265, Electrical Mechanical	21
OCSUP 103, Job Seeking Skills (J)	3
Total Credits	24

Quarter Three

ABT 299, Leadership (L)	1
ABT 266, Damage Estimating and Shop Operation	21
Total Credits	22
Year Two Total	70
Grand Total	144

EPC: 709

The following courses meet the related instruction requirements of this certificate/degree (one course per category required):

- (J) - AGPR 100, BUS 292, OCSUP 103, PSYC 140
 (W) - BUS 137, ENGL 097, ENGL& 101, WRITE 100
 (L) - ABT 299, BUS 192, OCSUP 299, POLS 125
 (M) - BUS 112, MATH 049, OCSUP 106
 (O) - CMST 102, CMST& 220, OCSUP 102
 (R) - BUS 157, OCSUP 101, PSYC 111, PSYC& 100

Automotive Repair Technology

CERT, AAAS, AA

<http://wwcc.edu/automechanics>

Michael Adams 509.527.4676 509.527.4676 michael.adams@wwcc.edu
 James Haun 509.527.4693 509.527.4693 james.haun@wwcc.edu

Program available at/via: [Walla Walla]

Department Overview: Automotive Repair Technology provides intensive career preparation through a combination of classroom instruction and hands-on application. The program is certified by the National Automotive Technicians Education Foundation (NATEF), and is led by Automotive Service Excellence (ASE) master certified instructors. Instructors provide students the fundamental knowledge and experience needed to become entry level technicians in the automotive industry. The Automotive Repair Technology curriculum is reviewed by an advisory board composed of local and regional industry members annually. The Automotive Repair Technology program maintains an active Skills USA student leadership organization and an Automotive Technology club.

Program Level Outcomes:

- Maintain NATEF/ASE standards through full implementation of related curriculum and student outcome measures.
- Improve marketability of students to employers as a result of successful completion of the total ASE/NATEF program of instruction.

- Maintain and enhance high School and university articulation agreements.
- Keep curriculum up-to-date with input from industry through the Automotive Repair Technology advisory committee.
- Secure automotive industry support for provision of equipment and training materials.

Degrees: Students may earn an Associate in Applied Arts and Sciences Degree in Automotive Repair Technology upon completion of the two-year program of study. An Automotive Repair Technology Certificate, is available upon completion of the first year of study in the program.

Students who earn their AAAS in Automotive Repair Technology may also earn a dual degree in Diesel Technology or Auto Body Repair Technology. Please speak with your instructor about the required and specific classes needed. ??Students wishing to transfer to Montana State University Northern (MSUN) located in Havre, MT to obtain a bachelor of science degree in automotive technology must successfully complete the Automotive Repair Technology AAAS degree prior to transferring to MSUN. Successful completion of specific support classes at WWCC are necessary for transfer to MSUN. See WWCC Automotive Repair Technology program director for more information.

Industry Description: The ability to diagnose the source of a problem quickly and accurately requires good reasoning ability and a thorough knowledge of automobiles. Automotive service technicians inspect, maintain, and repair automobiles and light trucks that have gasoline engines. There is a tremendous demand for well-trained Automotive Service Excellence (ASE) certified automotive technicians. The increasing sophistication of automotive technology now requires workers who can use computerized shop equipment and work with electronic components while maintaining their skills with traditional hand tools. Service technicians use a variety of tools in their work-power tools, such as pneumatic wrenches to remove bolts quickly; machine tools like lathes to service brakes; and grinding machines to rebuild cylinder heads; welding and flame-cutting equipment to remove and repair exhaust systems, and jacks and hoists to lift cars and engines.

Entrance Requirements: It is recommended that the student contact the program director/lead instructor regarding appropriate program placement and paying a priority list fee to determine specific quarter start in the program. Students may enter the program fall or winter, however, due to course sequencing it is recommended to begin in the fall. A placement test offered by the Student Development Center must be completed prior to admittance to the program. For more information, please contact Jim Haun 509.527.4693, james.haun@wwcc.edu

Other Information: For additional information including regional employment data, completion rates, student characteristics, and employment see <http://www.wtb.wa.gov/etp>

AUTOMOTIVE REPAIR TECHNOLOGY

Degrees and Certificates

(M) - BUS 112, MATH 049, OCSUP 106

(O) - CMST 102, CMST& 220, OCSUP 102

(R) - BUS 102, BUS 157, OCSUP 101, PSYC& 100

Automotive Repair Technology Certificate

The certificate is equivalent to the first year of the AAAS Degree in Automotive Repair Technology.

Certificate available at/via: [Walla Walla]

Certificate Outcomes:

- Demonstrate principles, operation, diagnosis and service of gasoline engines.
- Demonstrate principles, operation, diagnosis and service of automatic transaxles and transmissions
- Demonstrate principles, operation, diagnosis and service of manual drivetrain systems.
- Demonstrate principles, operation, diagnosis and service of suspension and steering systems.
- Demonstrate principles, operation, diagnosis and service of brake systems.
- Demonstrate principles, operation, diagnosis and service of electrical and electronic systems.
- Demonstrate principles, operation, diagnosis and service of engine performance systems.
- Demonstrate shop procedures and repair procedures with the correct tools and equipment in a safe environmentally friendly manner.
- Provide training to develop mathematical, oral and written communication skills to problem solve effectively in an automotive repair shop.
- Demonstrate principles, operation, diagnosis and service of climate control systems.

YEAR ONE

Quarter One	Credits
AMM 245, Brakes	13
AMM 145, Auto Related Industry	6
AMM 149, Hybrid and Alternative Fuel Vehicles	2
OCSUP 106, Applied Mathematics I (M)	5
Total Credits	26

Quarter Two	Credits
AMM 161, Electrical and Electronics	21
WRITE 100, Applied Writing (W)	3
Total Credits	24

Quarter Three	Credits
AMM 171, Air Conditioning and Heating	4
AMM 181, Suspension and Alignment	4
AMM 151, Engine Performance	13
OCSUP 101, Job Psychology: Workplace and Educational Success Skills (R) 3	
WELD 141, Welding Basics *	4
Total Credits	28
Year One Total	78
Grand Total	78

EPC: 712C

* Any welding course WELD 141, Welding Basics (4 credits) or above will satisfy the welding requirement.

The following courses meet the related instruction requirements of this certificate/degree (one course per category required):

(J) - OCSUP 103, PSYC 140

(W) - BUS 137, ENGL 097, ENGL& 101, WRITE 100

(L) - AMM 299

Associate in Applied Arts and Sciences Degree in Automotive Repair Technology

To be eligible to receive the Associate Degree in Applied Arts and Sciences in Automotive Repair Technology, the student must successfully complete 1750 hours of training and the appropriate 18 credits of related instruction courses. This schedule is a typical sequence of instruction for students starting Fall Quarter.

Degree available at/via: [Walla Walla]

Degree Outcomes:

- Demonstrate principles, operation, diagnosis and service of gasoline engines.
- Demonstrate principles, operation, diagnosis and service of automatic transaxles and transmissions
- Demonstrate principles, operation, diagnosis and service of manual drivetrain systems.
- Demonstrate principles, operation, diagnosis and service of suspension and steering systems.
- Demonstrate principles, operation, diagnosis and service of brake systems.
- Demonstrate principles, operation, diagnosis and service of electrical and electronic systems.
- Demonstrate principles, operation, diagnosis and service of engine performance systems.
- Demonstrate shop procedures and repair procedures with the correct tools and equipment in a safe environmentally friendly manner.
- Provide training to develop mathematical, oral and written communication skills to problem solve effectively in an automotive repair shop.
- Demonstrate principles, operation, diagnosis and service of climate control systems.

YEAR ONE

Quarter One	Credits
AMM 245, Brakes	13
AMM 145, Auto Related Industry	6
AMM 149, Hybrid and Alternative Fuel Vehicles	2
OCSUP 106, Applied Mathematics I (M)	5
Total Credits	26

Quarter Two	Credits
AMM 161, Electrical and Electronics	21
WRITE 100, Applied Writing (W)	3
Total Credits	24

Quarter Three	Credits
AMM 171, Air Conditioning and Heating	4
AMM 181, Suspension and Alignment	4
AMM 151, Engine Performance	13
OCSUP 101, Job Psychology: Workplace and Educational Success Skills (R) 3	
WELD 141, Welding Basics *	4
Total Credits	28
Year One Total	78

AUTOMOTIVE REPAIR TECHNOLOGY - BIOLOGY

YEAR TWO

Quarter One		Credits
AMM 210, Engine Rebuild	21	
OCSUP 102, Oral Communication in the Workplace (O)	3	
Total Credits	24	
Quarter Two		Credits
AMM 224, Automatic Transmission/Transaxles	13	
AMM 225, Manual Drive Train and Axles	8	
OCSUP 103, Job Seeking Skills (J)	3	
Total Credits	24	
Quarter Three		Credits
AMM 299, Leadership (L)	1	
AMM 152, Engine Performance II	13	
AMM 232, Air Conditioning and Heating II	4	
AMM 242, Suspension and Alignment II	4	
Total Credits	22	
Year Two Total	70	
Grand Total	148	

EPC: 712

* Any welding course WELD 141, Welding Basics (4 credits) or above will satisfy the welding requirement.

The following courses meet the related instruction requirements of this certificate/degree (one course per category required):

(J) - OCSUP 103, PSYC 140

(W) - BUS 137, ENGL 097, ENGL& 101, WRITE 100

(L) - AMM 299

(M) - BUS 112, MATH 049, OCSUP 106

(O) - CMST 102, CMST& 220, OCSUP 102

(R) - BUS 102, BUS 157, OCSUP 101, PSYC& 100

Biological Sciences

AS

<http://wwcc.edu/biology>

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Program available at/via: [Walla Walla] [Clarkston]

Department Overview: Biological Sciences is the study of all living things-how they reproduce, grow, and evolve and how they relate to each other and to their environment. Students develop an understanding of scientific facts and principles relating to life and life processes from molecules to ecosystems.

Program Level Outcomes:

- An understanding of discipline specific terminology and methods.
- An ability to correctly use discipline specific tools and /or techniques.
- Critical thinking skills necessary in science including appropriate study techniques, problem solving skills and the use of data to assess the validity of claims.
- The ability to research, interpret and communicate concepts obtained from scientific literature.
- An understanding of the relationships between course concepts and society, including the impact of course specific technology.

Degrees: Students may earn an Associate in Science Degree - Option I (90 credits), or an Associate in Biology-DTA/MRP (90 credits). These degrees are applicable to students planning to prepare for upper division Bachelor's degree majors in Biology. Please consult with an advisor at WWCC and your intended transfer institution for the most appropriate degree program.

Preparation for Success: In addition to required chemistry and biology courses, students interested in a major in Biological Science should take courses in mathematics, physics and computer science. Computer courses are essential, as employers prefer job applicants who are able to apply computer skills to modeling and simulation tasks and to operate computerized laboratory equipment. Those interested in studying the environment also should take courses in environmental studies and become familiar with current legislation and regulations.

Degrees

Associate in Science Degree - Option I (Biology)

Recommended two-year schedule (Option I). For other degree information, students should check with their advisors, transfer center staff, and college degree guidelines. Students should also note that it is extremely important to begin sequential courses in the fall since those courses are typically offered one quarter per year.

Transferability: For transfer information at specific institution and/or programs consult with your advisor.

YEAR ONE

Quarter One	Credits
CHEM& 161, General Chemistry I with Lab	5
Physical Education Elective	1
MATH& 141, Precalculus I or approved elective	5
ENGL& 101, English Composition I	5
Total Credits	16

Quarter Two	Credits
CHEM& 162, General Chemistry II with Lab	5
MATH& 142, Precalculus II or approved elective	5
Social Science Elective	5
Total Credits	15

Quarter Three	Credits
BIOL& 211, Majors Cellular	5
CHEM& 163, General Chemistry III with Lab	5
Physical Education Elective	1
Humanities or Social Science Elective	5
Total Credits	16
Year One Total	47

YEAR TWO

Quarter One	Credits
Humanities Elective	5
Science Elective (PHYS& 121 or 221 Recommended)	5
MATH& 151, Calculus I	5
Total Credits	15

Quarter Two	Credits
BIOL& 213, Majors Plant	5
Science Elective (PHYS 122 or 202 Recommended)	5
MATH& 152, Calculus II	5
Total Credits	15

For the most current information see: www.wwcc.edu

BIOLOGY - BUSINESS ADMINISTRATION

Quarter Three

	Credits
BIOL& 212, Majors Animal	5
Physical Education Elective	1
MATH& 153, Calculus III or MATH 201, Statistics*	5
Science Elective (PHYS 123 or 203 Recommended)	2-5
Total Credits	13-16
Year Two Total	43-46
Grand Total	90-93

EPC: 004A

Business Administration

CERT, AAAS, AA-DTA

<http://wwcc.edu/business>

Dan Biagi

509.527.4235 daniel.biagi@wwcc.edu

Program available at/via: [Walla Walla] [Clarkston] [Online (partial)]

Department Overview: The Business Administration curriculum is designed for students who wish to gain the technology and skills necessary for employment and advancement in the business management environment. Students will be prepared to own their own business, work in a leadership role for others or transfer to a four-year institution. Business Administration curriculum is reviewed by an advisory board composed of local and regional industry members.

Program Level Outcomes:

- Program completers will demonstrate technical competency in core ability and related instruction curriculum components.
- Students who have declared a program major will complete that program of study.
- Student and employer satisfaction will reflect a high degree of self-esteem, self-confidence, and the potential to grow within that job or business.
- Students completing the AAAS degree will become employed in a living wage job.

Degrees: Students may earn an Associate in Applied Arts and Sciences Degree in Business and Management upon completion of the two-year program of study. A Business and Management one-year certificate is available upon completion of the first year of study in the AAAS Degree program.

There is also an Associate in Business - DTA Degree for students wishing to pursue a business degree at a Washington public baccalaureate institution.

Industry Description: The nation's businesses are a part of an economic system that contributes to our society's standard of living and quality of life. Businesses provide the necessities of life such as food, clothing, housing, and medical care. Excelling in the day-to-day business processes that drive organizational success is integral for business managers. Business and management skills are critical to the survival of companies. Managers in today's highly competitive industries must have knowledge and skills in accounting, marketing, resource allocation, technology, retailing, and many more elements that are vital to a company's success.

Entrance Requirements: Students may begin their study in these programs in fall, winter or spring quarters. However, due to course

sequencing and course prerequisites, it is preferable to begin in the fall quarter. A placement test offered by the Student Development Center must be completed prior to admittance to the program.

Other Information:

Students transferring into the Business Administration Department from another institution should have their transcripts evaluated by an advisor at WWCC to determine which courses apply toward the business degree(s). Before entering the program all students need to secure an advisor within the Business Administration Department and become familiar with the degree requirements.

For additional information including regional employment data, completion rates, student characteristics, and employment see <http://www.wtb.wa.gov/etp>.

Degrees and Certificates

Business and Management Certificate

Certificate Outcomes:

- Performs basic computations and approaches practical problems by choosing appropriately from a variety of mathematical techniques.
- Develop and implement appropriate marketing strategies.
- Apply concepts, methods, processes and functions of management to business operations.
- Demonstrate the ability to communicate clearly and concisely in personal and business communication.
- Understand buying and promotion techniques necessary for proper retail management.
- Establish and maintain effective working relationships in multicultural settings.
- Problem Solving — recognizes problems and devises and implements plan of action.
- Participates as a Member of a Team & contributes to group effort.

YEAR ONE

Quarter One	Credits
ACCT& 201, Principles of Accounting I	5
BUS 112, Business Mathematics (M)	5
BUS 210, Marketing	5
BUS& 101, Intro to Business	5
Total Credits	20

Quarter Two	Credits
BUS 136, Business Communications I	5
BUS 182, Business Leadership Seminar I	3
BUS 215, Advertising	5
CS 110, Introduction to Computers and Applications	5
BUS 181, Cooperative Work Experience I	2
Total Credits	20

Quarter Three	Credits
BUS 137, Business Communications II (W)	5
BUS 157, Human Relations in Business (R)	5
BUS 189, Principles of Management	5
BUS 197, Electronic Commerce: A Business Perspective	5
Total Credits	20
Year One Total	60
Grand Total	60

For the most current information see: www.wwcc.edu

BUSINESS ADMINISTRATION - CPR

EPC: 502C

The following courses meet the related instruction requirements of this certificate/degree (one course per category required):

(W) - BUS 137

(M) - BUS 112

(R) - BUS 157

Associate in Applied Arts and Sciences Degree in Business and Management

This technical degree provides the skills necessary for employment and preparation for advancement in the business management environment.

Degree available at/via: [Walla Walla]

Degree Outcomes:

- Demonstrate technical knowledge to perform general office skills proficiently.
- Demonstrate an ability to use appropriate software to complete business related tasks and requirements.
- Perform duties related to specialty content of study—administrative office emphasis.
- Project ethical work habits to model professional behavior in the workplace.
- Develop critical-thinking and problem-solving abilities.
- Function effectively as a team member by applying positive interpersonal interactions.

Transferability: The AAAS Degree is designed for students planning to enter their chosen career upon graduation. Often only selected credits are considered transferable to public or private baccalaureate institutions.

YEAR ONE

Quarter One	Credits
ACCT& 201, Principles of Accounting I	5
BUS 210, Marketing	5
CS 110, Introduction to Computers and Applications	5
Total Credits	15

Quarter Two	Credits
BUS 136, Business Communications I	5
BUS 215, Advertising	5
BUS& 101, Intro to Business	5
Total Credits	15

Quarter Three	Credits
BUS 137, Business Communications II (W)	5
BUS 189, Principles of Management	5
BUS 217, Computer Software Applications	5
Total Credits	15
Year One Total	45

YEAR TWO

Quarter One	Credits
BUS 102, Customer Service	5
BUS 112, Business Mathematics (M)	5
BUS 181, Cooperative Work Experience I	2-5
BUS 182, Business Leadership Seminar I	3
BUS 187, Principles of Selling	5
Total Credits	20-23

Quarter Two	Credits
BUS 191, Cooperative Work Experience II	2-5
BUS 192, Business Leadership Seminar II (L)	3
BUS 287, Retailing	5
CMST& 220, Public Speaking (O)	5
ECON& 201, Microeconomics	5
Total Credits	20-23

Quarter Three	Credits
BUS 157, Human Relations in Business (R)	5
BUS 197, Electronic Commerce: A Business Perspective	5
BUS 291, Cooperative Work Experience III	2-5
BUS 292, Business Leadership Seminar III (J)	3
Total Credits	15-18
Year Two Total	55-64
Grand Total	100-109

EPC: 502

The following courses meet the related instruction requirements of this certificate/degree (one course per category required):

(J) - BUS 292

(W) - BUS 137

(L) - BUS 192

(M) - BUS 112

(O) - CMST 102, CMST& 220

(R) - BUS 157

Cardio-Pulmonary Resuscitation (CPR)

<http://www.wvcc.edu/alliedhealth>

Program available at/via: [Walla Walla] [Clarkston]

Department Overview: The purpose of Allied Health and Safety Education (AHSE) is to create a learning environment to support a variety of educational, personal enrichment, and career development goals in the field of health and safety. The clientele served by AHSE comprise a wide age group at a variety of educational levels and differing learning outcomes that range from obtaining and maintaining job skills, training for new careers, and personal growth.

Degrees: The courses in Allied Health and Safety Education cover a wide range of interest. The pre-hospital offerings include CPR, First Aid, First Responder, EMT-B Initial Training, EMT-Intermediate, and EMT/OTEP continuing education.

The Nursing Assistant program provides training in basic nursing care under state and federal guidelines. The Phlebotomy Technician course is offered on an annual basis during spring quarter. The following is a list of courses offered to help students obtain necessary state requirements and/or provide enrichment for increased information: Nursing Assistant Training Program, Fundamentals of Caregiving-Basic, Fundamentals of Caregiving-Modified, Nurse Delegation, Introduction to Health Services, Phlebotomy, AIDS Education, AIDS/Bloodborne Pathogens Training, Chemical Dependency Counseling Education, OTEP Training, Medic First Aid, Medic First Aid Recertification, CPR (Heartsaver, Healthcare Provider, Pediatric-Basic), CPR Instructor Certification and Recertification, and Flagger.

The Allied Health and Safety Education Department also offer a variety of Healthcare Education training opportunities for professional to include: Pharmacology, Blood Drawing Techniques for Health Professionals, Basic Arrhythmias, 12 Lead ECG, Physical Assessment, and continuing education conferences.

CPR - CARPENTRY

Industry Description: Because of the growing population and increased aging sector of our country, there is a demand for trained workers in a variety of health related occupations. The health care industry is experiencing shortages of qualified, competent healthcare workers. Health service jobs represent the fastest growth categories in the State of Washington.

Entrance Requirements: Most courses require a high school diploma or GED, and in some cases require an advanced level of certification or registration. Some areas do not require high school diploma or GED but have basic requirements such as reading, writing, and language proficiency requirements.

Carpentry

CERT, AAAS

<http://wwcc.edu/carpentry>

Program available at/via: [Walla Walla]

Department Overview:

The program has been suspended for the 2012-2013 year for budgetary reasons.

Each year the Carpentry program builds a residential home with the support of the WWCC Foundation. This hands-on training allows students to participate in the "foundation-to-finish" experiences necessary to build a new home while completing the required carpentry coursework and related instruction for the AAAS Degree. Students will graduate from the Carpentry program with the knowledge and experience necessary to begin employment in the construction industry. Carpentry curriculum is reviewed by an advisory board composed of local and regional industry members.

Program Level Outcomes:

- Provide students with marketable technical and interpersonal skills in the trade, resulting in career placement.
- Provide training in environmental and work place safety that meets appropriate industry standards.
- Educate and graduate students who possess the knowledge and skills necessary to be successful in the construction industry.
- Continue to keep the Carpentry curriculum current with industry practices and standards based on input from the advisory committee.
- Provide students with the opportunity to complete a state-of-the-art home with all the latest Green Building standards and International Building Codes met.

Degrees: Students may earn an Associate in Applied Arts and Sciences Degree in Carpentry upon completion of the two-year program of study. This degree will prepare students to take the journeyman carpenter examination. A Carpentry Certificate, is available upon completion of the first year of study in the program.

Industry Description: Carpenters are involved in many different kinds of construction activity, from the building of highways

and bridges, to the installation of kitchen cabinets. Carpenters construct, erect, install, and repair structures and fixtures made from wood and other materials. Depending on the type of work and the employer, carpenters may specialize in one or two activities or may be required to know how to perform many different tasks. Small home builders and remodeling companies may require carpenters to learn about all aspects of building a house-framing walls and partitions, putting in doors and windows, building stairs, installing cabinets and molding, and many other tasks. Large construction contractors or specialty contractors, however, may require their carpenters to perform only a few regular tasks, such as framing walls, constructing wooden forms for pouring concrete, or erecting scaffolding.

Entrance Requirements: It is recommended that students in the Carpentry program contact the lead instructor regarding appropriate program placement and paying a priority list fee to determine specific quarter start in the program. Students may enter the program fall, winter or spring quarter, however, due to course sequencing it is recommended to begin in the fall. A placement test offered by the Student Development Center must be completed prior to admittance to the program.

Other Information:

All construction work expected of carpenters is completed by students. Electricians, plumbers, and heating/air conditioning technicians and concrete flat work sub-contractors are hired to assist in meeting strict building codes.

For additional program information including regional employment data, completion rates, student characteristics, and employment see <http://www.wtb.wa.gov/etp>.

Degrees and Certificates

Carpentry Certificate

This certificate is equivalent to the first year of the AAAS Degree in Carpentry.

Certificate available at/via: [Walla Walla]

Certificate Outcomes:

- Demonstrate a safe work environment.
- Operate hand and power tools/equipment used in carpentry.
- Follow plans, specifications and codes used in carpentry.
- Demonstrate wall and ceiling framing.
- Apply exterior finishes and windows.
- Install interior trim.
- Layout and install floor systems.
- Perform tile prep work.
- Set trusses and construct roofing systems.
- Insert insulation and hang drywall.
- Develop concrete form and layout.
- Apply paint to both the interior and exterior.

CARPENTRY

- Demonstrate green building practices.
- Perform wall and ceiling layout and estimates.
- Install doors.
- Layout and install tile.
- Demonstrate concrete pouring and stemwalls.
- Communicate effectively using construction language.
- Demonstrate the ability to problem solve.

YEAR ONE

Quarter One	Credits
CARP 181, Introduction to Carpentry	18
IFA 022, Medic First Aid Basic	4
OCSUP 106, Applied Mathematics I (M)	5
Total Credits	23.4

Quarter Two	Credits
CARP 182, On-Site Work: Exterior	18
WRITE 100, Applied Writing (W)	3
Total Credits	21

Quarter Three	Credits
CARP 183, On-Site Work: Interior Finish	18
OCSUP 103, Job Seeking Skills (J)	3
Total Credits	21

Year One Total 65.4

Grand Total 65.4

EPC: 745C

* CARP 191, Cooperative Work Experience may be substituted for CARP 284, 285 or 286 with instructor permission.

The following courses meet the related instruction requirements of this certificate/degree (one course per category required):

(J) - OCSUP 103

(W) - ENGL 097, ENGL& 101, WRITE 100,

(L) - CARP 299, OCSUP 299

(M) - BUS 112, MATH 049, OCSUP 106

(O) - CMST 102, CMST& 220, OCSUP 102

(R) - OCSUP 101, PSYC& 100

Associate in Applied Arts and Sciences Degree in Carpentry

This technical degree prepares the student for an entry-level position in the carpentry industry. Completion of this two-year program will enhance the student's ability to pass the Journeyman Carpenter Examination.

Degree available at/via: [Walla Walla]

Degree Outcomes:

- Demonstrate a safe work environment.
- Operate hand and power tools/equipment used in carpentry.
- Follow plans, specifications and codes used in carpentry.
- Demonstrate wall and ceiling framing.
- Apply exterior finishes and windows.
- Install interior trim.
- Layout and install floor systems.
- Perform tile prep work.
- Set trusses and construct roofing systems.
- Insert insulation and hang drywall.

- Develop concrete form and layout.
- Apply paint to both the interior and exterior.
- Demonstrate green building practices.
- Perform wall and ceiling layout and estimates.
- Install doors.
- Layout and install tile.
- Demonstrate concrete pouring and stemwalls.
- Communicate effectively using construction language.
- Demonstrate the ability to problem solve.

Transferability: The AAAS Degree is designed for students planning to enter their chosen career upon graduation. Often only selected credits are considered transferable to public or private baccalaureate institutions.

YEAR ONE

Quarter One	Credits
CARP 181, Introduction to Carpentry	18
IFA 022, Medic First Aid Basic	4
OCSUP 106, Applied Mathematics I (M)	5
Total Credits	23.4

Quarter Two	Credits
CARP 182, On-Site Work: Exterior	18
WRITE 100, Applied Writing (W)	3
Total Credits	21

Quarter Three	Credits
CARP 183, On-Site Work: Interior Finish	18
OCSUP 103, Job Seeking Skills (J)	3
Total Credits	21

Year One Total 65.4

YEAR TWO

Quarter One	Credits
CARP 284, Advanced Work in Layout*	18
OCSUP 102, Oral Communication in the Workplace (O)	3
Total Credits	21

Quarter Two	Credits
CARP 285, Advanced Blueprint Reading II*	18
OCSUP 101, Job Psychology: Workplace and Educational Success Skills (R) 3	
Total Credits	21

Quarter Three	Credits
CARP 299, Leadership (L)	1
CARP 286, Advanced On-Site Work*	18
Total Credits	19

Year Two Total 61

Grand Total 126.4

EPC: 745

* CARP 191, Cooperative Work Experience may be substituted for CARP 284, 285 or 286 with instructor permission.

The following courses meet the related instruction requirements of this certificate/degree (one course per category required):

(J) - OCSUP 103

(W) - ENGL 097, ENGL& 101, WRITE 100,

(L) - CARP 299, OCSUP 299

(M) - BUS 112, MATH 049, OCSUP 106

(O) - CMST 102, CMST& 220, OCSUP 102

(R) - OCSUP 101, PSYC& 100

CHEMISTRY - CIVIL ENGINEERING

Chemistry

AS

<http://wwcc.edu/chemistry>

Ruth Russo 509.524.5232 ruth.russo@wwcc.edu
Sara Egbert- Clk 5509.751.4050 sara.egbert@wwcc.edu

Program available at/via: [Walla Walla] [Clarkston]

Department Overview: Chemistry provides much of the common vocabulary, facts, and tools necessary for success in any area of science. Ultimately, most of the phenomena in the biological, geological, physical, environmental, and medical sciences can be expressed in terms of the chemical and physical behavior of atoms and molecules. Because of chemistry's key role, one or two years of chemistry are essential for students planning careers in the sciences.

Program Level Outcomes:

- An understanding of discipline specific terminology and methods.
- An ability to correctly use discipline specific tools and /or techniques.
- Critical thinking skills necessary in science including appropriate study techniques, problem solving skills and the use of data to assess the validity of claims.
- The ability to research, interpret and communicate concepts obtained from scientific literature.
- An understanding of the relationships between course concepts and society, including the impact of course specific technology.

Degrees: Students may earn an Associate in Science Degree - Option I (90 credits) which is designed to prepare students for upper division study in Chemistry. Please consult with an advisor at WWCC and your intended transfer institution to determine an appropriate educational plan.

Preparation for Success: Majors in chemistry are well prepared to pursue careers in a wide variety of allied fields as well as in chemistry. Students interested in a major in Chemistry should take courses in science and mathematics.

Degrees

Associate in Science Degree - Option I (Chemistry)

Recommended two-year schedule (Option I). For other degree information, students should check with their advisors, transfer center staff, and college degree guidelines. Students should also note that it is extremely important to begin sequential courses in the fall since those courses are typically offered one quarter per year.

Transferability: For transfer information at specific institution and/or programs consult with your advisor.

YEAR ONE

Quarter One	Credits
CHEM& 161, General Chemistry I with Lab	5
Physical Education Elective	1
MATH& 141, Precalculus I or approved elective	5
ENGL& 101, English Composition I	5
Total Credits	16

Quarter Two	Credits
CHEM& 162, General Chemistry II with Lab	5
Elective (contact transfer institution)	2
MATH& 142, Precalculus II or approved elective	5
Total Credits	12

Quarter Three	Credits
CHEM& 163, General Chemistry III with Lab	5
Physical Education Elective	1
Humanities or Social Science Elective	5
Social Science Elective	5
Total Credits	16
Year One Total	44

YEAR TWO

Quarter One	Credits
Humanities Elective	5
PHYS 121, General Physics I or PHYS 201, Eng Physics	5
MATH& 151, Calculus I	5
Total Credits	15

Quarter Two	Credits
PHYS 122, General Physics II or PHYS 202, Eng Physics	5
Lab Science Elective	5
MATH& 152, Calculus II	5
Total Credits	15

Quarter Three	Credits
Physical Education Elective	1
MATH& 153, Calculus III or MATH 201, Statistics	5
PHYS 123, General Physics III or PHYS 203, Eng Physics	5
Science or Math Elective	5
Total Credits	16
Year Two Total	46
Grand Total	90

EPC: 004F

Civil Engineering Technology

CERT, AS, AAAS

<http://wwcc.edu/civilengineering>

Ronald Rooks 509.527.3655 ron.rooks@wwcc.edu

Program available at/via: [Walla Walla]

Department Overview: Civil Engineering Technology educates students in the design and development of projects that pertain to the practice of civil engineering. Students gain a sound knowledge of the fundamental principles of civil engineering technology including an emphasis on social, ethical, safety and health related issues, enabling them to either enter the work force or continue their education in engineering. Civil Engineering Technology curriculum is reviewed by an advisory board composed of local and regional industry members.

Program Level Outcomes:

- Provide a sound knowledge of the fundamental principles of civil engineering technology so that they may either enter the work force or continue their education in engineering.

CIVIL ENGINEERING TECHNOLOGY

- Develop critical thinking and problem solving skills that can be applied to a wide range of problems, both technical and non-technical.
- Provide the skills necessary for the practice of civil engineering technology.
- Provide a well-balanced educational experience that will foster communication skills, appreciation of social values, and an understanding of the social implications of technology.
- Remain technically current and responsive to the changing needs of society.

Degrees: Students may earn an Associate in Applied Arts and Sciences Degree in Civil Engineering Technology. One-year certificate options include Surveying and Engineering Graphics. These options allow students the freedom to pursue careers after either one or two years of training.

Students may also earn an Associate in Science Degree-Option II (Engineering) (90 credits) which is designed to prepare students for upper division study in engineering. Please consult with an advisor at WWCC and your intended transfer institution to determine an appropriate education plan.

Industry Description: Civil engineering technicians help civil engineers to plan and build highways, buildings, bridges, dams, wastewater treatment systems, and other structures, and to do related research. Some monitor quality, estimate construction costs or specify materials for construction. Others may even prepare drawings or perform land-surveying duties. Technicians may set up and monitor instruments used to study traffic conditions. Civil engineering encompasses many specialties. The major specialties. The major ones include structural, water resources, environmental, construction, transportation, and geotechnical engineering. Due to an aging infrastructure and civil engineering's involvement in relatively all aspects of daily living, the demand for Civil Engineering Technicians is prominent. Cities, counties, state and federal agencies, special districts, and private consultants hire civil engineers and civil engineering technicians and technologists.

Entrance Requirements: Students may begin their study in these programs in fall, winter or spring quarters. A placement test offered by the Student Development Center must be completed prior to admittance to the program.

Other Information: For additional information including regional employment data, completion rates, student characteristics, and employment see <http://www.wtb.wa.gov/etp>.

Degrees and Certificates

Engineering Graphics Certificate - TAC/ABET

Certificate Outcomes:

- Appropriate mastery of the knowledge, techniques, skills and modern tools of their disciplines.
- Ability to apply current knowledge and adapt to emerging applications of mathematics, science, engineering and technology.

- Ability to conduct, analyze and interpret experiments, and apply experimental results to improve processes.
- Ability to apply creativity in the design of systems, components, or processes appropriate to program educational objectives.
- Ability to function effectively on teams.
- Ability to identify, analyze and solve technical problems.
- Ability to communicate effectively.
- Recognition of the need for, and an ability to engage in lifelong learning.
- Ability to understand professional, ethical and social responsibilities.
- A respect for diversity and a knowledge of contemporary professional, societal and global issues.
- A commitment to quality, timeliness and continuous improvement.
- Utilize graphic techniques to produce engineering documents.
- Conduct standardized field and laboratory testing on civil engineering materials.
- Utilize modern surveying methods for land measurement and/or construction layout.
- Determine forces and stresses in elementary structural systems.
- Estimate material quantities for technical projects.
- Employ productivity software to solve technical problems.

YEAR ONE

Quarter One	Credits
CET 103, Engineering Concepts and Problems	5
CS 110, Introduction to Computers and Applications	5
ENGR& 111, Engineering Graphics I	4
WRITE 100, Applied Writing	3
Total Credits	17
Quarter Two	Credits
CET 151, Computer Aided Drafting and Design	3
CET 242, Properties of Materials	4
CMST& 220, Public Speaking	5
CET Elective	3
PSYC& 100, General Psychology (R)	5
Total Credits	20
Quarter Three	Credits
CET 100, Estimating	3
CET 160, Elementary Surveying	6
OCSUP 108, Applied Mathematics II or MATH& 142, Pre-Calculus II or MATH& 151, Calculus I	5
OCSUP 103, Job Seeking Skills	3
Total Credits	17
Year One Total	54
Grand Total	54

EPC: 612C

The following courses meet the related instruction requirements of this certificate/degree (one course per category required):

(J) - OCSUP 103

(W) - ENGL& 101, WRITE 100

(R) - OCSUP 101, PSYC 111, PSYC& 100

CIVIL ENGINEERING TECHNOLOGY

Associate in Applied Arts and Sciences Degree in Civil Engineering Technology

This technical degree prepares the student for immediate employment in the civil technology industry. It may be utilized by individuals planning to enter their chosen career upon graduation or for the individual who is interested in improving current skills and knowledge.

Degree available at/via: [Walla Walla]

Degree Outcomes:

- Appropriate mastery of the knowledge, techniques, skills and modern tools of their disciplines.
- Ability to apply current knowledge and adapt to emerging applications of mathematics, science, engineering and technology.
- Ability to conduct, analyze and interpret experiments, and apply experimental results to improve processes.
- Ability to apply creativity in the design of systems, components, or processes appropriate to program educational objectives.
- Ability to function effectively on teams.
- Ability to identify, analyze and solve technical problems.
- Ability to communicate effectively.
- Recognize the need for, and ability to engage in lifelong learning.
- Ability to understand professional, ethical and social responsibilities.
- A respect for diversity and a knowledge of contemporary professional, societal and global issues.
- A commitment to quality, timeliness and continuous improvement.
- Utilize graphic techniques to produce engineering documents.
- Conduct standardized field and laboratory testing on civil engineering materials.
- Utilize modern surveying methods for land measurement and/or construction layout.
- Estimate material quantities for technical projects.
- Employ productivity software to solve technical problems.

Transferability: The AAAS Degree is designed for students planning to enter their chosen career upon graduation. Often only selected credits are considered transferable to public or private baccalaureate institutions. An articulation agreement between WWCC and WSU gives students who complete this degree junior transfer status to the Ag Food Systems - Technology option.

YEAR ONE

Quarter One	Credits
CET 103, Engineering Concepts and Problems	5
CS 110, Introduction to Computers and Applications *	5
ENGR& 111, Engineering Graphics I *	4
WRITE 100, Applied Writing	3
Total Credits	17

Quarter Two	Credits
CET 151, Computer Aided Drafting and Design *	3
CET 242, Properties of Materials *	4
CMST& 220, Public Speaking	5
CET Elective **	3
PSYC& 100, General Psychology (R)	5
Total Credits	20

Quarter Three	Credits
CET 100, Estimating	3
CET 160, Elementary Surveying *	6
OCSUP 108, (M)***	5
OCSUP 103, Job Seeking Skills	3
Total Credits	17
Year One Total	54

YEAR TWO

Quarter One	Credits
CET 152, Advanced CADD Problems	3
CET 161, Advanced Surveying *	6
CET 220, Engineering Mechanics - Statics	5
CET 223, Hydraulics	5
Total Credits	19

Quarter Two	Credits
CET 166, Introduction to Hydrology	5
CET 222, Engineering Mechanics - Strength of Materials	5
CET 224, Soil Mechanics for Construction	4
CET 263, Transportation and Highway Engineering	4
Total Credits	18

Quarter Three	Credits
CET 201, Engineering Construction Management *	4
CET 202, Construction Inspection	3
CET 221, Engineering Design Fundamentals *	5
CET 226, Concrete and Asphalt Pavements	3
CET 299, Leadership (L)	1
Total Credits	16
Year Two Total	53
Grand Total	107

EPC: 612

* A CET elective may be substituted for this course with prior instructor approval.

** Any Civil Engineering Technology (CET), mathematics (OCSUP 107, MATH 095 or higher, computer science, or physics course not required for the degree may be used for the elective requirement.

*** Based on placement test results students may need prerequisite courses before enrolling in one of these math courses.

The following courses meet the related instruction requirements of this certificate/degree (one course per category required):

(J) - AGPR 100, BUS 292, OCSUP 103, PSYC 140

(W) - ENGL& 101, WRITE 100

(L) - CET 299, CLS 180, WMGT 292

(M) - MATH& 1442, MATH& 151, OCSUP 108

(O) - CMST 102, OCSUP 102, CMST& 220

(R) - OCSUP 101, PSYC 111, PSYC& 100

Surveying Certificate

This certificate prepares the student for employment at the Technician II level with most city, county, state or federal agencies.

Certificate available at/via: [Walla Walla]

Certificate Outcomes:

- Solve problems using AutoCad.
- Make dimension drawings, topographical maps, and plats using ANSI standards.
- Use GPS receivers.
- Set up and use transits, theodolites and levels.

CIVIL ENGINEERING TECHNOLOGY - COMMERCIAL TRUCK DRIVING

- Compute slope and alignment, and stake the layout of most utility systems.
- Compute slope and alignment, and stake the layout of most roadway systems.
- Assist field crews in gathering data used in topographical maps and plats.

Transferability: Transferability of credits to baccalaureate institutions in Washington State is course specific.

YEAR ONE

Quarter One	Credits
CET Elective*	3
ENGR& 111, Engineering Graphics 1	4
WRITE 100, Applied Writing (W)	3
CS 110 Introduction to Computers and Applications.	5
Total Credits	15

Quarter Two	Credits
CET 100, Estimating	3
CET 160, Elementary Surveying	6
CET Elective*	3
OCSUP 108, Applied Mathematics II (M)	5
Total Credits	17

Quarter Three	Credits
CET 103, Engineering Concepts and Problems	5
CET 151, Computer Aided Drafting and Design	3
CET 161, Advanced Surveying	6
OCSUP 103, Job Seeking Skills (J)	3
Total Credits	17
Year One Total	49

EPC: 603C

*Any Civil Engineering Technology (CET) course not required for the certificate may be used for the elective requirement.

** Based on placement test results students may need prerequisite courses before enrolling in one of these math courses.

The following courses meet the related instruction requirements of this certificate/degree (one course per category required):

(W) - ENGL& 101, WRITE 100,

(M) - MATH& 142, MATH& 151, OCSUP 108

(R) - AGPR 100, BUS 292, OCSUP 103, PSYC 140

Associate in Science Degree - Option II (Engineering)

This technical degree prepares the student for an entry-level position in the civil engineering industry or as preparation for transfer to a public or private baccalaureate institution.

Degree Outcomes:

- Solve problems using Autocad.
- Make dimension drawings using ANSI standards.
- Use GPS receivers.
- Set up and use transits, theodolites and levels.
- Calculate pipe sizes for storm systems.
- Use CPM and P.E.R.T. scheduling and planning techniques.
- Design a PCC pavement and an ACP pavement.
- Perform traffic studies and submit reports.

Transferability: For transfer information at specific institution and/or programs consult with your advisor.

YEAR ONE

Quarter One	Credits
CHEM& 161, General Chemistry I with Lab	5
Physical Education Elective	1
MATH& 141, Precalculus I or approved elective	5
ENGL& 101, English Composition I	5
Total Credits	16

Quarter Two	Credits
MATH& 142, Precalculus II or approved elective	5
Science or Math or Computer Science Elective	5
Social Science Elective, recommended ECON& 202, Macroeconomics	5
Total Credits	15

Quarter Three	Credits
Approved Elective, Recommended ENGR&*	5
Approved Elective, Recommended ENGR&*	2-5
Physical Education Elective	1
Science or Math Elective	5
Total Credits	13-16
Year One Total	44-47

YEAR TWO

Quarter One	Credits
Physical Education Elective	1
Humanities Elective	5
MATH& 151, Calculus I	5
PHYS 201, Physics for Science and Engineering I	5
Total Credits	16

Quarter Two	Credits
Humanities or Social Science Elective	5
MATH& 152, Calculus II	5
PHYS 202, Physics for Science and Engineering II	5
Total Credits	15

Quarter Three	Credits
Approved Elective, Recommended ENGR&*	5
MATH& 153, Calculus III or MATH 201, Statistics	5
PHYS 203, Physics for Science and Engineering III	5
Total Credits	15
Year Two Total	46
Grand Total	90-93

EPC: 004E

* Approved Electives: MATH 220, 238, &254, CHEM& 162, 163, BIOL& 211, ENGR& 214, 225, CS 131, 141 AND CMST& 220. Please consult your WWCC advisor for other approved electives for your major.

College Experience

Program available at/via: [Walla Walla] [Clarkston]

Department Overview: Introduces students to valuable information and strategies that will help them make the adjustment to college.

Commercial Truck Driving

CERT

<http://wwcc.edu/truckdriving>

Steven Harvey

509.527.3681 steven.harvey@wwcc.edu

Program available at/via: [Walla Walla]

Department Overview: Commercial Truck Driving offers short-term courses that provide students the potential for immediate employment in a living wage job upon successful completion. The Federal Motor Carrier Safety Administration (FMCSA) requires specialized training in the areas of driver qualification, hours of

COMMERCIAL TRUCK DRIVING

service, driver wellness, and whistleblower protection for entry-level drivers who are subject to the commercial drivers license requirements (49 CFR Part 380). The Commercial Truck Driving program provides the mandatory training for the Washington State Commercial Truck Driving License requirements for both new and renewing drivers. Students learn to maneuver large vehicles on crowded streets and in highway traffic, as well as learn to inspect trucks and freight for compliance with regulations. The Commercial Truck Driving curriculum is reviewed by an advisory board composed of local and regional industry members.

Steve Harvey Office Hours:

3pm to 4 pm Monday - Friday

(Walla Walla Campus)

Program Level Outcomes:

- Implement competency-based education, skill standards, and program certification.
- Create and maintain a marketing plan related to student recruitment.
- Update facilities with consideration for function and appearance.
- Maintain up-to-date curriculum that meets or exceeds the Washington State requirement for a Class A drivers license.

Degrees: WWCC offers a Truck Driver Training Certificate and a Advanced Truck Driver Training Certificate.

In addition to receiving a certificate, Flagger training is also offered, which aids in receiving a Hazmat endorsement. If planning to work in a city, county, state department of transportation, or federal job, most of them require flagger and first aid training.

The Commercial Truck Driving program also offers a passenger and school bus endorsement.

Industry Description: Truck drivers are a constant presence on the nation's highways and interstates, delivering three out of every four tons of goods shipped in the country. Firms of all kinds rely on trucks for pickup and delivery of goods because no other form of transportation can deliver goods door to door. Even if goods travel in part by ship, train, or airplane, trucks carry nearly all goods at some point in their journey from producer to consumer. This trend, combined with increased pay and benefit packages provided by motor carrier employers has lead to the strong demand for commercial truck drivers.

Entrance Requirements: Students interested in receiving a Certificate must have: (1) valid CDL permit preferably from Washington State or Oregon, (2) DOT Physical form completed, (3) DMV five year history with no DWI, negligent, reckless, or hit and run infractions, and (4) drug and alcohol testing. Students may enter the program fall, winter or spring quarter.

Other Information: For additional information including regional employment data, completion rates, student characteristics, and employment see <http://www.wtb.wa.gov/etp>.

Degrees and Certificates

Truck Driver Training Certificate

This certificate will prepare the student to take the Washington State Commercial Drivers License test. It is designed for immediate employment or may be utilized by individual who is interested in improving current skills and knowledge.

Certificate available at/via: [Walla Walla]

Certificate Outcomes:

- Pass the required Commercial Drivers license knowledge, combination, and air brake tests at the DMV.
- Pass pre-trip inspection, skills test, driving test and obtain Commercial Drivers license.
- Perform a vehicle inspection in an accurate systematic sequence to ensure safety of operation.
- Demonstrate ability to plan trips and routes including managing loads and weight distribution to ensure safety of operation.
- Communicate effectively with peers, customers and supervisors.
- Complete appropriate paper work correctly.
- Problem-solve road and traffic conditions to ensure safety of operation.

YEAR ONE

Quarter One	Credits
TRK 110, Truck Driver Training	12
TRK 120, Truck Driver Training - Lab	10
Total Credits	22
Year One Total	22
Grand Total	22

EPC: 715C

Advanced Truck Driver Training Certificate

This certificate will prepare the student to take the Washington State Commercial Drivers License test. It is designed for immediate employment or may be utilized by individual who is interested in improving current skills and knowledge.

Certificate available at/via: [Walla Walla]

Certificate Outcomes:

- Pass the required Commerical Drivers license knowledge, combination, and air brake tests at the DMV.
- Pass pre-trip inspection, skills test, driving test and obtain Commercial Drivers License.
- Perform a vehicle inspection in an accurate systematic sequence to ensure safety of operation.
- Demonstrate ability to plan trips and routes including managing loads and weight distribution to ensure safety of operation.
- Communicate effectively with peers, customers and supervisors.
- Complete appropriate paper work correctly.

COMMERCIAL TRUCK DRIVING - COMPUTER SCIENCE

YEAR ONE

Quarter One

	Credits
TRK 191, Cooperative Work Experience	18
TRK 192, Cooperative Seminar	2
Total Credits	20
Year One Total	20
Grand Total	20

EPC: 715

Communication Studies

<http://wwcc.edu/speech>

Nanqi You 509.527.4583 nanqi@wwcc.edu

Program available at/via: [Walla Walla] [Clarkston]

Department Overview: The Communication Studies Department offers courses designed to increase students' knowledge and understanding of the principles of public speaking as well as guided practice in making speeches, oral presentations, group discussions, and interpersonal communication techniques.

Program Level Outcomes:

- Skills in research, grammar, punctuation consistent with qualitative expectations across the curriculum.
- Critical thinking skills in written and oral argumentation, exposition, and expression.
- Attitudes and skills appropriate to receiving and sending messages openly, critically, and responsively.
- To help students develop and perfect writing skills.
- Effective listening skills.

Degrees: Students may earn an Associate in Arts AA-DTA degree (90 credits) which is designed for students planning to transfer to a baccalaureate institution with junior standing. Students pursuing this degree should meet with an academic advisor at WWCC and an advisor at their intended baccalaureate institution to determine an appropriate educational plan. (See AA-DTA in Degrees section of catalog).

Preparation for Success: Students interested in a major in Public Relations should consider taking courses in writing skills, business and marketing. Students should also have strong computer skills.

Other Information: The Communication Studies Department supports students' efforts to fulfill degree requirements by offering a required course in public speaking. Other courses appealing to multiple levels of interest, skill, and experience are under development. Course offerings provide the basis for transfer, occupations, and life-long learning.

Computer Science

CERT, AAAS

<http://wwcc.edu/computer>

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Program available at/via: [Walla Walla] [Clarkston] [Online (partial)]

Department Overview: Computer Science endeavors to create an understanding of computer operating systems, programming, digital design for the web, and computer applications and hardware allowing the student to solve computer-related problems. Courses are taught in lecture, lab, and cooperative (on-the-job) training formats. Courses are developed by the Computer Science Program Advisory Board, which consists of experts working in local and regional computer-related businesses and senior faculty.

Program Level Outcomes:

- Graduates successfully completing the program are employable in their degree area, at a living wage job with benefits.
- Program completers are encouraged to pursue bachelor level programs in computer science.
- Program maintains advanced certificate, degree and endorsements that are current with latest industry standards.

Degrees:

Students may earn an Associate in Applied Arts and Sciences Degree in each of three key areas of Computer Science: Informatics in Digital Design, Informatics in Software Design, or Informatics in Networking.

Students may also earn an Associate in Science Degree-Option II (90 credits) which is designed to prepare students for upper division study in computer science. Please consult with an advisor at WWCC and your intended transfer institution to determine an appropriate education plan.

Industry Description: Computer Science is the application of computing equipment and methods to the solution of human and business problems. Occupations related to Computer Science have represented the nation's fastest growing areas of job opportunity in the past ten years and are projected to continue for the next ten years.

Entrance Requirements: Students may enter the program fall, winter or spring quarter, however, due to course sequencing, it is recommended students begin in the fall. A placement test offered by the Student Development Center must be completed prior to admittance to the program.

Other Information: For additional information including regional employment data, completion rates, student characteristics, and employment see <http://www.wtb.wa.gov/etp>.

COMPUTER SCIENCE

Degrees and Certificates

Informatics in Networking Certificate

This certificate provides students with a working knowledge of computer networks, including network hardware and popular network operating systems.

Certificate available at/via: [Walla Walla] [Online (partial)]

Certificate Outcomes:

- Demonstrate the ability to critically and logically think and organize to solve computer science related problems and processes as they relate to networking in industry.
- Demonstrate the ability to communicate effectively in oral and written form.
- Demonstrate the ability to work effectively in a team setting.
- Demonstrate knowledge of software and hardware related to networking requirements and certifications in industry.
- Demonstrate knowledge and application of ethical and privacy issues relating to the computer science field.
- Demonstrate knowledge and application of customer service skills.

YEAR ONE

Quarter One	Credits
CMST 102, Interpersonal Communication (O)	3
CS 110, Introduction to Computers and Applications	5
CS 115, Introduction to Computer & Information Technology	5
CS 120, Networking Using Internet Technologies	5
Total Credits	18

Quarter Two	Credits
BUS 112, Business Mathematics (M)	5
BUS 137, Business Communications II (W)	5
CS 121, Problem Solving with Programming	5
CS 125, Operating Systems	5
Total Credits	20

Quarter Three	Credits
BUS 102, Customer Service (R)	5
CS 130, PC Support and Maintenance I	5
CS 220, Digital Imaging Foundations	5
Total Credits	15
Year One Total	53
Grand Total	53

EPC: 527C

The following courses meet the related instruction requirements of this certificate/degree (one course per category required):

(W) - BUS 137, ENGL& 101

(L) - ELECT CS3

(M) - BUS 112, MATH 095

(O) - CMST 102, CMST& 220, OCSUP 102

(R) - BUS 102, PSYC 111, PSYC& 100

Associate in Applied Arts and Sciences Degree Informatics in Networking

This technical degree provides students with a working knowledge of computer networks, including network hardware and popular network operating systems. Successful completion will prepare students for the Certified Cisco Network Associate exam (CCNA). Additional credits will be necessary to prepare for the Certified Cisco Network Professional (CCNP) certification examination.

Degree available at/via: [Walla Walla] [Online (partial)]

Degree Outcomes:

- Demonstrate the ability to critically and logically think and organize to solve computer science related problems and processes as they relate to networking in industry.
- Demonstrate the ability to communicate effectively in oral and written form.
- Demonstrate the ability to work effectively in a team setting.
- Demonstrate knowledge of software and hardware related to networking requirements and certifications in industry.
- Demonstrate knowledge and application of ethical and privacy issues relating to the computer science field.
- Demonstrate knowledge and application of customer service skills.

Transferability: The AAAS Degree is designed for students planning to enter their chosen career upon graduation. Often only selected credits are considered transferable to public or private baccalaureate institutions.

YEAR ONE

Quarter One	Credits
CMST 102, Interpersonal Communication (O)	3
CS 110, Introduction to Computers and Applications	5
CS 115, Introduction to Computer & Information Technology	5
CS 120, Networking Using Internet Technologies	5
Total Credits	18

Quarter Two	Credits
BUS 112, Business Mathematics (M)	5
BUS 137, Business Communications II (W)	5
CS 121, Problem Solving with Programming	5
CS 125, Operating Systems	5
Total Credits	20

Quarter Three	Credits
BUS 102, Customer Service (R)	5
CS 130, PC Support and Maintenance I	5
CS 220, Digital Imaging Foundations	5
Total Credits	15
Year One Total	53

YEAR TWO

Quarter One	Credits
CS 260, Unix/Linux Operating Systems	5
CS 265, CCNA 1	5
CS 275, Windows Client	5
CS 290, Systems Analysis and Design (Critical Thinking)	5
Total Credits	20

Quarter Two	Credits
CS 266, CCNA 2	5
CS 267, CCNA 3	5
CS 276, Windows Server	5
CS 277, Fund of Network Security	5
Total Credits	20

COMPUTER SCIENCE

Quarter Three

	Credits
CS 268, CCNA 4	5
CS 278, Windows Server Infrastructure	5
CS 280, Novell SUSE Server	5
CS 291, Cooperative Work Experience	2
ELECT CS3, CS 292, Cooperative Seminar II (L)	3
Total Credits	20
Year Two Total	60
Grand Total	113

EPC: 527

The following courses meet the related instruction requirements of this certificate/degree (one course per category required):

(W) - BUS 137, ENGL& 101

(L) - ELECT CS3

(M) - BUS 112, MATH 095

(O) - CMST 102, CMST& 220, OCSUP 102

(R) - BUS 102, PSYC 111, PSYC& 100

Informatics in Digital Design Certificate

This certificate provides the basic knowledge in the fields of digital publishing for the web.

Certificate available at/via: [Walla Walla] [Online (partial)]

Certificate Outcomes:

- Demonstrate the ability to critically and logically think and organize to solve computer science related problems and processes as they relate to entry-level digital design in industry.
- Demonstrate the ability to communicate effectively in oral and written form.
- Demonstrate the ability to work effectively in a team setting.
- Demonstrate knowledge of software and hardware related to entry-level digital design applications.
- Demonstrate knowledge and application of ethical and privacy issues relating to the computer science field.
- Demonstrate knowledge and application of customer service skills.

YEAR ONE

Quarter One

	Credits
CS 110, Introduction to Computers and Applications	5
CS 115, Introduction to Computer & Information Technology	5
CS 223, Computer Layout and Design (Photoshop)	5
Total Credits	15

Quarter Two

	Credits
BUS 112, Business Mathematics (M)	5
BUS 137, Business Communications II (W)	5
CS 224, Computer Illustration (Illustrator)	5
CS 227, Website Design and Construction 1	5
Total Credits	20

Quarter Three

	Credits
BUS 102, Customer Service (R)	5
CS 220, Digital Imaging Foundations	5
CS 221, Introduction to Digital Audio / Video	5
CS 222, Desktop Publishing (InDesign)	5
Total Credits	20
Year One Total	55
Grand Total	55

EPC: 507C

The following courses meet the related instruction requirements of this certificate/degree (one course per category required):

(W) - BUS 137

(M) - BUS 112

(R) - BUS 102

Associate in Applied Arts and Sciences Degree Informatics in Digital Design

This technical degree prepares the student for entry-level employment in the fields of digital design for the web.

Degree available at/via: [Walla Walla] [Online (partial)]

Degree Outcomes:

- Demonstrate the ability to critically and logically think and organize to solve computer science related problems and processes as they relate to digital design in industry.
- Demonstrate the ability to communicate effectively in oral and written form.
- Demonstrate the ability to work effectively in a team setting.
- Demonstrate knowledge of software and hardware related to digital design applications.
- Demonstrate knowledge and application of ethical and privacy issues relating to the computer science field.
- Demonstrate knowledge and application of customer service skills.

Transferability: The AAAS Degree is designed for students planning to enter their chosen career upon graduation. Often only selected credits are considered transferable to public or private baccalaureate institutions.

YEAR ONE

Quarter One

	Credits
CMST 102, Interpersonal Communication (O)	3
CS 110, Introduction to Computers and Applications	5
CS 115, Introduction to Computer & Information Technology	5
CS 120, Networking Using Internet Technologies	5
Total Credits	18

Quarter Two

	Credits
BUS 112, Business Mathematics (M)	5
CS 121, Problem Solving with Programming	5
CS 125, Operating Systems	5
Total Credits	15

Quarter Three

	Credits
BUS 102, Customer Service (R)	5
BUS 137, Business Communications II (W)	5
CS 130, PC Support and Maintenance I	5
CS 220, Digital Imaging Foundations	5
Total Credits	20
Year One Total	53

YEAR TWO

Quarter One

	Credits
CS 223, Computer Layout and Design (Photoshop)	5
CS 225, Digital Design From A Gaming Perspective	5
CS 290, Systems Analysis and Design (Critical Thinking)	5
Total Credits	15

COMPUTER SCIENCE

Quarter Two

	Credits
CS 141, Computer Science I JAVA	5
CS 221, Introduction to Digital Audio / Video	5
CS 224, Computer Illustration (Illustrator)	5
CS 227, Website Design and Construction 1	5
Total Credits	20

Quarter Three

	Credits
CS 222, Desktop Publishing (InDesign)	5
CS 228, Website Design and Construction II	5
CS 229, Dynamic Website Design Cold Fusion	5
CS 291, Cooperative Work Experience II	2
ELECT CS3, CS 292, Cooperative Seminar II (J)	3
Total Credits	20
Year Two Total	55
Grand Total	108

EPC: 507

The following courses meet the related instruction requirements of this certificate/degree (one course per category required):

(J) - ELECT CS3

(W) - BUS 137, ENGL& 101

(M) - BUS 112

(O) - CMST 102, CMST& 220

(R) - BUS 102, PSYC& 100

Informatics in Software Design Certificate

This technical degree prepares the student for entry-level employment in the fields of programming, database design and application software support.

**Certificate available at/via: [Walla Walla] [Clarkston]
[Online (partial)]**

Certificate Outcomes:

- Demonstrate the ability to critically and logically think and organize to solve computer science related problems and processes as they relate to entry-level software design.
- Demonstrate the ability to communicate effectively in oral and written form.
- Demonstrate the ability to work effectively in a team setting.
- Demonstrate knowledge of software and hardware related to entry-level software design requirements and certifications.
- Demonstrate knowledge and application of ethical and privacy issues relating to the computer science field.
- Demonstrate knowledge and application of customer service skills.

YEAR ONE

Quarter One

	Credits
CS 115, Introduction to Computer & Information Technology	5
CS 230, Visual Basic Programming	5
CS 235, Introduction to Database Design and Theory	5
CS 240, Application Integration using VBA	5
Total Credits	20

Quarter Two

	Credits
CS 121, Problem Solving with Programming	5
CS 231, Application Development	5
MATH 065, Introductory Algebra (M)	5
Total Credits	15

Quarter Three

	Credits
CS 131, Computer Science I C++	5
CS 291, Cooperative Work Experience II	2
ELECT CS3, CS 292, Cooperative Seminar II (J)	3
PSYC& 100, General Psychology (R)	5
Total Credits	15
Year One Total	50
Grand Total	50

EPC: 501C

The following courses meet the related instruction requirements of this certificate/degree (one course per category required):

(J) - ELECT CS3

(M) - BUS 112, MATH 065

(R) - BUS 102, PSYC& 100

Associate in Applied Arts and Sciences Informatics in Software Design

This technical degree provides students an understanding of computer operating systems, programming, databases, computer applications and hardware in order to solve computer related problems for a variety of business applications. Through the use of portfolio-based design, students will acquire the skills to begin immediate employment involving technical responsibility for a business' computer related needs.

**Degree available at/via: [Walla Walla] [Clarkston]
[Online (partial)]**

Degree Outcomes:

- Demonstrate the ability to critically think and organize to solve computer science related problems and processes as they relate to software design.
- Demonstrate the ability to communicate effectively in oral and written form.
- Demonstrate the ability to work effectively in a team setting.
- Demonstrate knowledge of software and hardware related to software design requirements and certifications.
- Demonstrate knowledge and application of ethical and privacy issues relating to the computer science field.
- Demonstrate knowledge and application of customer service skills.

YEAR ONE

Quarter One

	Credits
CMST 102, Interpersonal Communication (O)	3
CS 110, Introduction to Computers and Applications	5
CS 115, Introduction to Computer & Information Technology	5
CS 120, Networking Using Internet Technologies	5
Total Credits	18

Quarter Two

	Credits
BUS 112, Business Mathematics (M)	5
CS 121, Problem Solving with Programming	5
CS 125, Operating Systems	5
Total Credits	15

Quarter Three

	Credits
BUS 102, Customer Service (R)	5
BUS 137, Business Communications II (W)	5
CS 130, PC Support and Maintenance I	5
CS 220, Digital Imaging Foundations	5
Total Credits	20
Year One Total	53

COMPUTER SCIENCE - COSMETOLOGY

YEAR TWO

Quarter One

	Credits
CS 230, Visual Basic Programming	5
CS 235, Introduction to Database Design and Theory	5
CS 240, Application Integration using VBA	5
CS 290, Systems Analysis and Design (Critical Thinking)	5
Total Credits	20

Quarter Two

	Credits
CS 141, Computer Science I JAVA	5
CS 231, Application Development	5
CS 245, Advanced Database Development	5
Total Credits	15

Quarter Three

	Credits
CS 241, Programming II (JAVA/C++)	5
CS 242, Advanced Software Development	5
CS 246, SQL and Relational Database Programming	5
CS 291, Cooperative Work Experience II	2
ELECT CS3, CS 292, Cooperative Seminar II (J)	3
Total Credits	20

Year Two Total 55

Grand Total 108

EPC: 501

The following courses meet the related instruction requirements of this certificate/degree (one course per category required):

(J) - ELECT CS3

(W) - BUS 137

(M) - BUS 112

(O) - CMST 102, CMST& 220

(R) - BUS 102

Cosmetology

AAAS

<http://wwcc.edu/cosmetology>

Janice Howell

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Program available at/via: [Walla Walla]

Department Overview: The Cosmetology program provides the theory and practical application necessary to obtain a Washington State Cosmetologist License or a Washington State Cosmetology Instructor License. The primary objective of the program is to prepare students for employment in all areas of beauty culture. Instruction and practice in the cosmetology course include training for shampooing, scalp and hair analysis, haircutting and trimming, trimming and removal of facial hair, thermal styling, wet and dry styling, skin care, temporary removal of superfluous hair, first aid, permanent waving, chemical relaxing, hair coloring, bleaching, rinses, make-up application, manicuring, pedicuring, and the styling of artificial hair. The Cosmetology curriculum is guided by the Washington State Cosmetology license requirements and reviewed by an advisory board composed of local and regional industry members.

Program Level Outcomes:

- To market, recruit, and retain students in the Cosmetology program.
- Involve cosmetology professionals in curriculum development and learning outcomes.
- Provide instruction with current skills (techniques and styles) used in the cosmetology profession in order to prepare students for employment.

- Certify the program using industry skill standards.
- Graduate students who demonstrate the knowledge and skills to obtain a cosmetology license and succeed in the industry.

Degrees: Students may earn an Associate in Applied Arts and Sciences Degree in Cosmetology upon completion of the two-year program of study. This degree prepares students to take the Washington State Board of Cosmetology Licensing Test. Individuals that have a current Washington State Cosmetology License and at least one-year of current work experience in a salon may enter the Instructor-Trainee program.

Industry Description: Cosmetologists, also called hairstylists, provide beauty services, such as shampooing, cutting, coloring, and styling hair. They may advise clients on how to care for their hair, straighten hair or give it a permanent wave, or lighten or darken hair color.

Cosmetology is an exciting people-oriented profession. It is a time-honored yet changing career with excellent career possibilities. The future for cosmetologists includes specialization, travel, teaching, employment as a workshop technician, sales of cosmetic supplies and materials, and management opportunities. Cosmetology can be a rewarding profession for the individual who is hardworking, creative and who enjoys working with people.

Entrance Requirements:

- Students must have a high school diploma or GED before entering the Cosmetology program. Exception: Running Start students may enroll in cosmetology as long as all other requirements are met.
- Completion of the Placement Tests offered by WWCC's Student Development Center.
- Mathematics Competence: Eligible to enter BUS 112.
- Reading Skills: College Level Reading.
- Writing: Eligible for Write 100.
- Students shall contact one of the Cosmetology instructors regarding appropriate program placement and paying a priority list fee to determine specific quarter start in the program.
- Students may enter the program fall, winter, or spring quarter, depending on space availability.

Physical Requirements:

- Normal visual acuity (with or without correction)
- Physical dexterity, i.e. to grasp small objects and perform hand, finger manipulations.
- Must be able to work for extended periods of time with arms at shoulder level.
- Must be able to work for extended periods of time standing.
- Students are advised to consult their physicians as to possible health problems (i.e., allergies, asthma, dermatitis, etc.) before enrolling.

Other Information: For additional information including regional employment data, completion rates, student characteristics, and employment see <http://www.wtb.wa.gov/etp>.

For the most current information see: www.wwcc.edu

COSMETOLOGY - CRIMINAL JUSTICE

Degrees

Associate in Applied Arts and Sciences Degree in Cosmetology

This technical degree prepares the student for employment in all areas of the cosmetology industry.

Degree available at/via: [Walla Walla]

Degree Outcomes:

- Apply cosmetology theory and technical skills, at entry level standards in a professional manner.
- Demonstrate trouble shooting and problem solving in various cosmetology work - related situations.
- Apply effective listening and speaking skills to educate cosmetology clients on individual beauty requirements.
- Show professionalism and sensitivity towards others.
- Practice safe and sanitary procedures in compliance with state regulations.
- Demonstrate efficient time management skills when working in cosmetology salons.
- Demonstrate marketing strategies to cosmetology customers.

Transferability: The AAAS Degree is designed for students planning to enter their chosen career upon graduation. Often only selected credits are considered transferable to public or private baccalaureate institutions.

Other Information: COSM 281, Cadet Instructor Training is available quarterly. Contact the Cosmetology faculty for additional details.

YEAR ONE

Quarter One Credits

BUS 112, Business Mathematics (M)	5
COSM 111, Principles and Procedures of Cosmetology I	11
COSM 112, Practical Application I	11
IFA 022, Medic First Aid Basic	4
Total Credits	27.4

Quarter Two Credits

COSM 121, Principles and Procedures of Cosmetology II	11
COSM 122, Practical Application II	11
WRITE 100, Applied Writing (W)	3
Total Credits	25

Quarter Three Credits

COSM 131, Intermediate Principles and Procedures I	11
COSM 132, Practical Application III	11
OCSUP 102, Oral Communication in the Workplace (O)	3
Total Credits	25

Quarter Four Credits

COSM 299, Leadership (L)	1
COSM 270, Practical Application VI	11
Total Credits	12
Year One Total	89.4

YEAR TWO

Quarter One Credits

COSM 241, Intermediate Principles and Procedures II	11
COSM 242, Practical Application IV	11
OCSUP 103, Job Seeking Skills (J)	3
Total Credits	25

Quarter Two

COSM 251, Advanced Principles and Procedures I	11
COSM 252, Practical Application V	11
HO 110, HIV/AIDS Education	4 - .7
OCSUP 101, Job Psychology: Workplace and Educational Success Skills (R)	3
Total Credits	25.4-25.7

Year Two Total . . . 50.4-50.7

Grand Total . . . 139.8-140.1

EPC: 823

The following courses meet the related instruction requirements of this certificate/degree (one course per category required):

(J) - AGPR 100, OCSUP 103, PSYC 140

(W) - BUS 137, ENGL 097, ENGL& 101, WRITE 100

(L) - COSM 299

(M) - BUS 112

(O) - CMST 102, CMST& 220, OCSUP 102

(R) - BUS 157, OCSUP 101, PSYC 111, PSYC& 100

Criminal Justice

AA-DTA

<http://wwcc.edu/criminaljustice>

Jim Peitersen

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Program available at/via: [Walla Walla] [Online (partial)]

Department Overview: The Criminal Justice department provides the theoretical and methodological roots of contemporary criminology inquiry as well as applied course work in Criminal Justice. This department is designed to provide an academic foundation in particular specializations for career advancement and/or transfer to baccalaureate institutions.

Program Level Outcomes:

- The ability to analyze past and present society, diverse cultures and histories to better understand individual and group behavior and enhance self awareness.
- An understanding and working knowledge of the theories, concepts, ideas, terminology, and factual evidence in selected fields within the social sciences.
- Sensitivity in understanding diverse views and perspectives.
- An understanding of the historically and socially constructed nature of human differences.

Degrees: Students may earn an Associate in Arts (AA) Degree, which is designed for students planning to transfer to a baccalaureate institution with junior standing. Students pursuing this degree should plan their programs at WWCC in accordance with the requirements of the institution to which they plan to transfer.

To earn the Associate in Arts (AA) Degree, a student must complete at least 93 credit hours in college transfer courses numbered 100 or above with a minimum college-level gpa of 2.0, and include a minimum of 63 credit hours in general education courses. Courses cross-listed in two subject areas can be counted for credit in only one area.

Industry Description: Criminal Justice is the study of the causes, effects and command of crime. Similar to other developing fields, criminal justice is a broad field, drawing from many disciplines, including psychology, corrections, sociology, and chemistry.

CRIMINAL JUSTICE - CULINARY

Entrance Requirements: Students may begin their study in these programs in fall, winter, or spring quarters. A placement test offered by the Student Development Center must be completed prior to admittance to the program.

Other Information: For additional information including regional employment data, completion rates, student characteristics, and employment see <http://www.wtb.wa.gov/etp>.

Degrees

Associate of Arts Degree (with emphasis in Criminal Justice)

Students may earn an Associate of Arts Degree with an emphasis in Criminal Justice after completion of the two-year program.

Degree available at/via: [Walla Walla]

Other Information: Requirements: CJ 101, SOC 101, SOC 205 and 25 credits in any CJ (Criminal Justice) or SOC 204. Recommended CJ courses and sequencing suggestions listed above.

YEAR ONE

Quarter One	Credits
CJ& 101, Introduction to Criminal Justice **	5
Physical Education Elective	1
ENGL& 101, English Composition I	5
SOC& 101, Introduction to Sociology **	5
Total Credits	16
Quarter Two	Credits
Lab Science Elective	5
ENGL& 102, English Composition II	5
PSYC 160, Psychology of Criminal Behavior	5
Total Credits	15
Quarter Three	Credits
CMST& 220, Public Speaking	5
Physical Education Elective	1
PHIL 131, Introduction to Ethics	5
SOC 204, Drugs and Society	5
Total Credits	16
Year One Total	47

YEAR TWO

Quarter One	Credits
CHEM& 110, Chemical Concepts with Lab	5
CJ& 112, Criminology	5
Literature Elective	5
Physical Education Elective	1
Total Credits	16
Quarter Two	Credits
CJ& 110, Criminal Law *	3
MATH 201, Statistics or higher Math***	5
Lab Science Elective	5
Total Credits	13
Quarter Three	Credits
CJ 202, Crime and Delinquency	5
Humanities Elective	5
SOC 205, Racial and Ethnic Relations **	5
Total Credits	15
Year Two Total	44
Grand Total	91

EPC: 001J

Requirements: CJ 101, SOC 101, SOC 205 and 25 credits in any CJ (Criminal Justice) or SOC 204. Recommended CJ courses and sequencing suggestions listed above.

* POLS 204, Constitutional Law may be taken in place of CJ 103, Introduction to Criminal Law.

These courses in the sequence are recommendations only. This degree will follow the requirements of the Associate in Arts-DTA.

** Requirements: CJ 101, SOC 101, SOC 205 and 25 credits in any CJ (Criminal Justice), SOC 204, PSY 160, or PSCI 204. Recommended CJ courses and sequencing suggestions listed above.

*** Recommended. Other quantitative skills courses may be taken in place of MATH 201, Statistics or Higher Math.

SOC 205, Racial and Ethnic Relations meets the AA degree Diversity requirement. Students have to take at least one diversity course to receive their AA. For a complete list of diversity courses please check the AA planning guide.

Culinary

CERT, AAAS

<http://www.wbcc.edu/culinaryarts>

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Program available at/via: [Walla Walla]

Department Overview:

The Culinary Arts program is designed to prepare students for success in the food service and hospitality industry. It provides opportunities to learn the basic skills in product knowledge, food production, service and management while incorporating extensive hands-on instruction and internship opportunities.

The Wine Country Culinary Institute at WBCC is accredited by the American Culinary Federation and operates in a state of the art facility on our main campus, as well as, a satellite commercial kitchen at the Center for Enology and Viticulture. Our commitment to Culinary Arts teaching and learning is evident in both our facilities and curriculum. We are a student centered program with an active Culinary Arts Club and opportunities to participate in structured labs, classroom and hands-on learning environments.

Program Level Outcomes:

- Prepare students to enter the workforce with the skills and knowledge to make a valuable contribution to their employer in a short amount of time.
- Encourage, support and provide opportunities for professional life-long learning in the hospitality industry.
- Provide in-service and skill upgrade opportunities for program graduates and industry personnel to maintain current knowledge of trends in changing industry requirements and technology.
- Collaborate with industry partners in an ongoing basis. These partners include: farmers, production personnel, distribution personnel, hotels, restaurants, clubs, wineries and service personnel.

Degrees: Students may earn an Associate in Applied Arts and Sciences Degree in Culinary Arts upon completion of the two-year program of study. A Culinary Arts Certificate, is available upon completion of the first year of study in the program.

Industry Description: The food service and hospitality industry provide the largest segment of private employers in the country and offers varied career opportunities for those with a passion for cooking. The culinary arts segment of the industry provides

CULINARY

opportunities for careers as a cook, chef, restaurant manager, food and beverage director, baker, pastry chef or caterer.

Entrance Requirements:

Step 1:

If you have never attended Walla Walla Community College, you must first apply to the college. This can be done by visiting our website at www.wwcc.edu. You can either apply online or download an application and mail it to the Office of Admissions and Records, 500 Tausick Way, Walla Walla, WA 99362. If you have general questions regarding the program, please contact Chef Dan Thiessen at dan.thiessen@wwcc.edu or 509-524-4800.

Step 2:

Schedule a personal interview with the Director of Culinary Arts. Chef Dan Thiessen can be reached at 509.524.4800.

Step 3:

Visit the WWCC Business Services office and pay a \$100.00 deposit to be added to our priority entrance list. This non-refundable deposit will be applied to your tuition when you enroll.

Step 4:

Have official transcripts from all colleges you have attended sent to the Office of Admissions and Records. Once you have had transcripts sent, complete a Transcript Evaluation Request form, marked for Culinary Arts, and mail to the Office of Admissions and Records. These forms are available on our website.

Step 5:

If you have not had prior college experience you will be required to take placement tests at the Student Development Center. The placement test schedule is available on our website. If you have any questions regarding testing, please call 509-527-4267.

Step 6:

Research financial aid and scholarship resources by visiting WWCC's financial aid website at <http://www.wwcc.edu/CMS/index.php?id=1069>. Students at Walla Walla Community College whose applications have been received by the federal processor, and who have a completed, accurate Financial Aid File, will be given first priority consideration for financial aid funds.

Other Information: For additional information including regional employment data, completion rates, student characteristics, and employment see <http://www.wtb.wa.gov/etp>.

Degrees and Certificates

Culinary Arts Certificate

Certificate Outcomes:

- Perform the essential principles of a professional work ethic in the field of Culinary Arts.
- Display a useful and positive attitude while working as part of a team.
- Demonstrate knowledge of basic cooking methods and their applications.
- Develop a basic understanding of food ingredients, supplies and cost considerations within a commercial foodservice operation.
- Operate and maintain kitchen equipment.
- Demonstrate basic use of hand tools and knives.
- Develop a basic understanding of both nutritional value and sustainability in food selection.
- Demonstrate a professional level of safety, sanitation and organization in the workplace.
- Communicate effectively.
- Think logically and critically.
- Evaluate and process quantitative and symbolic data.
- Develop awareness of the time sensitive nature of all things culinary.
- Articulate the role of food in its relationship to personal identity and the understanding of others in a multicultural world.

YEAR ONE

Quarter One	Credits
BUS 112, Business Mathematics (M)	5
CA 110, ServSafe	3
CA 111, Storeroom Operations	3
CA 112, Introduction to the Culinary Arts	10
IFA 022, Medic First Aid Basic	4
Total Credits	21.4
Quarter Two	Credits
CA 120, Culinary Arts Methods	9
CA 121, American Regional Cuisine	4
CA 122, Food, Farmers and Culture	4
OCSUP 103, Job Seeking Skills (J)	3
WRITE 100, Applied Writing (W)	3
Total Credits	23
Quarter Three	Credits
CA 130, Introduction to Baking	6
CA 131, Advanced Baking and Pastry	5
CA 132, Plated Desserts	2
CA 133, Food and Wine/Beverage	4
OCSUP 102, Oral Communication in the Workplace (O)	3
Total Credits	20
Year One Total	64.4
Grand Total	64.4

EPC: 850C

The following courses meet the related instruction requirements of this certificate/degree (one course per category required):

(J) - OCSUP 103, PSYC 140

(W) - BUS 137, ENGL 097, ENGL& 101, WRITE 100

(M) - BUS 112, MATH 049, OCSUP 106

(O) - CMST 102, CMST& 220, OCSUP 102

For the most current information see: www.wwcc.edu

CULINARY - DANCE

Associate in Applied Arts and Sciences Degree in Culinary Arts

This technical degree prepares the student for success in the food service and hospitality industries. It can be utilized by individuals planning to enter their chosen career upon graduation or for the individual who is interested in improving current skills and knowledge.

Degree available at/via: [Walla Walla]

Degree Outcomes:

- Perform the essential principles of a professional work ethic in the field of Culinary Arts.
- Maintain a useful and positive attitude while working as part of a team.
- Demonstrate knowledge of advanced cooking methods and their applications.
- Articulate an understanding of food ingredients, supplies and cost considerations within a commercial foodservice operation.
- Operate and maintain kitchen equipment.
- Demonstrate proficiency in the use of hand tools and knives.
- Articulate an understanding of both nutritional value and sustainability in food selection.
- Demonstrate a professional level of safety, sanitation and organization in the workplace.
- Communicate effectively.
- Think logically and critically.
- Evaluate and process quantitative and symbolic data.
- Accept the time sensitive nature of all things culinary.
- Articulate the role of food in its relationship to personal identity and the understanding of others in a multicultural world.

Transferability: The AAAS Degree is designed for students planning to enter their chosen career upon graduation. Often only selected credits are considered transferable to public or private baccalaureate institutions.

YEAR ONE

Quarter One	Credits
BUS 112, Business Mathematics (M)	5
CA 110, ServSafe	3
CA 111, Storeroom Operations	3
CA 112, Introduction to the Culinary Arts	10
IFA 022, Medic First Aid Basic	4
Total Credits	21.4

Quarter Two	Credits
CA 120, Culinary Arts Methods	9
CA 121, American Regional Cuisine	4
CA 122, Food, Farmers and Culture	4
OCSUP 103, Job Seeking Skills (J)	3
WRITE 100, Applied Writing (W)	3
Total Credits	23

Quarter Three	Credits
CA 130, Introduction to Baking	6
CA 131, Advanced Baking and Pastry	5
CA 132, Plated Desserts	2
CA 133, Food and Wine/Beverage	4
OCSUP 102, Oral Communication in the Workplace (O)	3
Total Credits	20

Year One Total 64.4

YEAR TWO

Quarter Four	Credits
CA 240, French and Mediterranean Cooking	4
CA 241, Asian Cooking	4
CA 242, Nutritional Cooking	4
CA 243, Food and Beverage Management	3
Total Credits	15

Quarter Five	Credits
CA 250, Garde Manger	9
CA 251, Latin American Cooking	3
CA 252, Culinary Trends and Concepts	3
Total Credits	15

Quarter Six	Credits
CA 260, Menu Development	3
CA 261, A la Carte Cooking	8
CA 262, Service Management	4
Total Credits	15

Quarter Seven	Credits
CA 192, Cooperative Seminar I (R)	2
CA 292, Cooperative Seminar II (L)	2
CA 191, Cooperative Work Experience I*	15
Total Credits	19
Year Two Total	64
Grand Total	128.4

EPC: 850

* Students are required to complete 15 credits/450 hours of cooperative work experience. Can be acquired while employed within the industry, or accrued hours of event support for on-premise events. Students may take more credits if approved by the instructor.

The following courses meet the related instruction requirements of this certificate/degree (one course per category required):

(J) - OCSUP 103, PSYC 140

(W) - BUS 137, ENGL 097, ENGL& 101, WRITE 100

(L) - CA 292, OCSUP 299

(M) - BUS 112, MATH 049, OCSUP 106

(O) - CMST 102, CMST& 220, OCSUP 102

(R) - BUS 157, CA 192, OCSUP 101, PSYC& 100

Dance

<http://wwcc.edu/dance>

Sylvia Bushman 509.527.4307

Kathy Halfacre 509.527.4307

Department Overview: The Dance Department includes a wide range of activity courses that emphasize dance techniques and styles for students at beginning through experienced levels. In addition, the program provides a progression of studies in dance that includes choreography and dance for production.

Program Level Outcomes:

- An understanding of the methods and practices that lead to lifetime wellness.
- The ability to develop a personalized wellness plan.
- An understanding of the positive and negative consequences of choices as they relate to lifetime fitness.

Degrees: Students may earn an Associate in Arts (AA) Degree, which is designed for students planning to transfer to a baccalaureate institution with junior standing. Students pursuing this degree should plan their programs at Walla Walla Community

For the most current information see: www.wwcc.edu

DANCE - DIESEL TECHNOLOGY

College in accordance with the requirements of the institution to which they plan to transfer.

To earn the Associate in Arts (AA) Degree, a student must complete at least 90 credit hours in college transfer courses numbered 100 or above with a minimum college-level grade point average of 2.0, and include a minimum of 63 credit hours in general education courses. Courses cross-listed in two subject areas can be counted for credit in only one area.

Preparation for Success: Because of the strenuous and time-consuming training required, some dancers view formal education as secondary. However, a broad, general education including music, literature, history, and the visual arts is helpful in the interpretation of dramatic episodes, ideas, and feelings. Dancers sometimes conduct research to learn more about the part they are playing.

Diesel Technology

CERT, AAAS

<http://wwcc.edu/dieselequipment>

David Bailey 509.529.2600 david.bailey@wwcc.edu

Richard Hellie 509.524.5200 richard.hellie@wwcc.edu

Program available at/via: [Walla Walla]

Department Overview: Diesel Technology provides a hands-on, work-based training experience and the classroom curriculum required for careers in diagnosing and repairing heavy-duty trucks, heavy equipment, medium-duty vehicles, agricultural equipment, logging equipment, forklifts, and mining equipment. Diesel Technology integrates the many components necessary to prepare students with the technical knowledge and mechanical skills required to service, repair, and test various types of machinery. An extensive curriculum prepares students to apply knowledge and skills to a wide range of diesel powered equipment applications. Diesel Technology curriculum is reviewed by an advisory board composed of local and regional industry members.

Program Level Outcomes:

- Provide students with the highest level of instruction in offering both current and non-current technology concepts in medium/heavy duty mechanics.
- To attract, retain and graduate students with competent entry-level mechanical skills.
- Articulate the diesel technology program with other related WWCC programs that lead to dual degrees.
- Articulate with willing universities that have Diesel Technology Bachelor's programs.
- Articulate with regional high schools and skill centers for easy transfer of credits to the WWCC diesel technology program.
- Update Diesel Technology curriculum to keep up with current diesel industry standards.
- Track student learning competencies using the skill manager system.

- Graduate students who possess entry-level knowledge and skills that will instill confidence as they participate in the diesel mechanics industry, or continue their education at the university level.

Degrees: Students may earn an Associate in Applied Arts and Sciences Degree in Diesel Equipment Mechanics upon completion of a two-year program of study. A Diesel Technology Certificate is available upon completion of the first year of study in the program.

Students who earn their AAAS in Diesel Equipment Mechanics may also earn a dual degree in Automotive Repair Technology. Please speak with your instructor about the required and specific classes needed.

Industry Description: Diesel service technicians and mechanics, also known as bus and truck mechanics and diesel engine specialists, repair and maintain the diesel engines that power transportation equipment such as heavy trucks, buses, bulldozers, cranes, road graders, farm tractors, and combines. Diesel maintenance is becoming increasingly complex, as more electronic components are used to control the operation of an engine. Technicians who work for organizations that maintain their own vehicles spend most of their time doing preventive maintenance to ensure that equipment will operate safely.

Entrance Requirements: It is recommended that the student contact the lead instructor regarding appropriate program placement and paying a priority list fee to determine specific quarter start in the program. Students may enter the program fall, winter or spring quarter, however, due to course sequencing it is recommended to begin in the fall. A placement test and mechanical reasoning test offered by the Student Development Center must be completed prior to admittance to the program.

Other Information: Students under the age of 18 and/or without a high school diploma or GED require instructor permission to enroll in Diesel Technology courses. A high school diploma or GED is required to receive a degree in Diesel Equipment Mechanics.

For additional information including regional employment data, completion rates, student characteristics, and employment see <http://www.wtb.wa.gov/etp>.

Degrees and Certificates

Diesel Technology Certificate

This certificate is equivalent to the first year of the AAAS Degree in Diesel Equipment Mechanics.

Certificate available at/via: [Walla Walla]

YEAR ONE

Quarter One	Credits
DT 181, Engines I	14
DT 151, Shop Fundamentals/Forklift Training	9
OCSUP 106, Applied Mathematics I (M)	5
Total Credits	28

DIESEL TECHNOLOGY - DRAMA

Quarter Two	Credits
DT 162, Machinery Repair I	10
DT 180, Suspension and Alignment	5
DT 185, Drive Trains	5
WELD 141, Welding Basics *	4
WRITE 100, Applied Writing (W)	3
Total Credits	27

Quarter Three	Credits
DT 163, Machinery Repair II	8
DT 187, Heating and Air Conditioning	5
DT 183, Electronics I	5
ELECT DT3, DT 299, Leadership (L)	1
DT 189, Preventive Maintenance	5
Total Credits	24
Year One Total	79
Grand Total	79

EPC: 775C

* Any welding course 141 or above will satisfy the welding requirement.

** DT 191, Cooperative Work Experience may be taken over several quarters. A minimum of 360 hours (12 credits) actual on-the-job mechanical experience is required. Students must have at least 800 hours of actual shop experience to meet the requirements for graduation. At least 600 hours must be on-campus shop experience. Students may also elect to substitute 6 credits of TRK 101 for DT 191. TRK 101 will be taken for 11-12 credits but only 6 credits will be applied to DT 191.

*** DT 186 Advanced Mechanics and DT 268 Equipment Repair III may be substituted for Cooperative Work Experience with instructor permission.

The following courses meet the related instruction requirements of this certificate/degree (one course per category required):

(J) - AGPR 100, OCSUP 103, PSYC 140

(W) - BUS 137, ENGL 097, ENGL& 101, WRITE 100

(L) - CLS 180, ELECT DT3

(M) - BUS 112, MATH 049, OCSUP 106

(O) - CMST 102, CMST& 220, OCSUP 102

(R) - DT 192

Associate in Applied Arts and Sciences Degree in Diesel Equipment Mechanics

This technical degree prepares the student with the wide range of knowledge and skills applicable to diesel powered equipment applications and will be ready to join the diesel mechanics industry. This program is also designed to aid the individual who is interested in improving their diesel mechanics skills.

Degree available at/via: [Walla Walla]

Transferability: The AAAS Degree is designed for students planning to enter their chosen career upon graduation. Often only selected credits are considered transferable to public or private baccalaureate institutions.

YEAR ONE

Quarter One	Credits
DT 181, Engines I	14
DT 151, Shop Fundamentals/Forklift Training	9
OCSUP 106, Applied Mathematics I (M)	5
Total Credits	28

Quarter Two	Credits
DT 162, Machinery Repair I	10
DT 180, Suspension and Alignment	5
DT 185, Drive Trains	5
WELD 141, Welding Basics *	4
WRITE 100, Applied Writing (W)	3
Total Credits	27

Quarter Three	Credits
DT 163, Machinery Repair II	8
DT 187, Heating and Air Conditioning	5
DT 183, Electronics I	5
ELECT DT3, DT 299, Leadership (L)	1
DT 189, Preventive Maintenance	5
Total Credits	24
Year One Total	79

YEAR TWO

Quarter One	Credits
DT 266, Advanced Equipment Repair I	10
DT 284, Hydraulics	5
DT 280, Brakes and Air Systems	5
OCSUP 102, Oral Communication in the Workplace (O)	3
Total Credits	23

Quarter Two	Credits
DT 267, Advanced Equipment Repair II	10
DT 283, Electronics II	5
DT 281, Engines Advanced	5
OCSUP 103, Job Seeking Skills (J)	3
Total Credits	23

Quarter Three	Credits
DT 192, Cooperative Seminar (R)	2
DT 191, Cooperative Work Experience**	12-15
Total Credits	14-17
Year Two Total	60-63
Grand Total	139-142

EPC: 125

* Any welding course 141 or above will satisfy the welding requirement.

** DT 191, Cooperative Work Experience may be taken over several quarters. A minimum of 360 hours (12 credits) actual on-the-job mechanical experience is required. Students must have at least 800 hours of actual shop experience to meet the requirements for graduation. At least 600 hours must be on-campus shop experience. Students may also elect to substitute 6 credits of TRK 101 for DT 191. TRK 101 will be taken for 11-12 credits but only 6 credits will be applied to DT 191.

*** DT 186 Advanced Mechanics and DT 268 Equipment Repair III may be substituted for Cooperative Work Experience with instructor permission.

The following courses meet the related instruction requirements of this certificate/degree (one course per category required):

(J) - AGPR 100, OCSUP 103, PSYC 140

(W) - BUS 137, ENGL 097, ENGL& 101, WRITE 100

(L) - CLS 180, ELECT DT3

(M) - BUS 112, MATH 049, OCSUP 106

(O) - CMST 102, CMST& 220, OCSUP 102

(R) - DT 192

Drama

<http://www.wbcc.edu/theatrearts>

Kevin Loomer

509.527.4317 kevin.loomer@wbcc.edu

Program available at/via: [Walla Walla]

Department Overview: The Theatre Arts Department offers a wide range of theatre courses and production opportunities. Through the study of the theatrical arts (acting, directing, stagecraft, design, and playwriting) students experience the power and value of theatre as a form of cultural development, societal reflection, and communication. Theatrical experience helps students gain a deeper understanding of themselves and human behavior by developing creative and critical thinking skills in a teamwork environment.

DRAMA - EARL CHILDHOOD EDUCATION

Program Level Outcomes:

- An aesthetic and intellectual comprehension of culturally and linguistically diverse works in literature, philosophy, visual and performing arts, including film and music.
- An understanding and working knowledge of terminology commonly used in the humanities.
- An appropriate level of creativity, discipline, and technique in the production of assigned work in the humanities.

Degrees: Students may earn an Associate in Arts AA-DTA degree (90 credits) which is designed for students planning to transfer to a baccalaureate institution with junior standing. Students pursuing this degree should meet with an academic advisor at WWCC and an advisor at their intended baccalaureate institution to determine an appropriate educational plan. (See AA-DTA in Degrees section of catalog).

Preparation for Success: Most people studying for a bachelor's degree in Theatre Arts take courses in radio and television broadcasting, communications, film, theater, and dramatic literature. Many continue their academic training and earn a Master of Fine Arts (MFA) degree. Students planning to major in Theatre Arts at a four-year college or university should take as many Theatre Arts courses as possible, especially Intro to Theatre, Acting, and courses in dramatic literature.

Other Information: Students are encouraged to take supporting course work in music, dance, history, literature, speech, and composition.

The Theatre Arts department cooperates with the other Performing and Fine Arts departments and the WWCC Foundation on a wide range of performance opportunities. These are both co- and extra-curricular programs, including the WWCC Foundation musical, the WWCC gallery shows, the China Pavilion drama season, touring theater, children's drama workshop, musical recitals and concerts, and music performances in downtown Walla Walla.

The Theatre Arts Department also supports students' efforts to fulfill degree requirements by offering a wide array of courses appealing to multiple levels of interest, skill, and experience. Course offerings provide the basis for transfer, occupations, and life-long learning.

Early Childhood Education

CERT, AAS-T, AAAS

<http://wwcc.edu/earlychildhood>

Samantha Bowen 509.524.5142 samantha.bowen@wwcc.edu

Program available at/via: [Walla Walla] [Clarkston] [Online (partial)]

Department Overview: Early Childhood Education prepares students to enter the childcare and early learning field as highly skilled caregivers or early learning professionals who can immediately contribute to the development and growth of a child. The Early Childhood Education curriculum promotes high quality learning and play in early care and educational settings.

Opportunities for the ongoing professional development of caregivers is also included. Students have the opportunity to apply newly acquired skills and knowledge through participation in cooperative work experiences. Certified teachers may apply specific courses towards continuing education credits. In an effort to accommodate currently employed students, Early Childhood Education courses are generally offered in late afternoon or evenings. Program curriculum is reviewed by an advisory board composed of local and regional early learning professionals.

Program Level Outcomes:

- Provide students with the highest level of instruction in the knowledge and skills required in the field of early childhood education.
- Attract, retain and graduate competent students into the early childhood education profession.
- Keep programs current with industry standards by involving community stakeholders in curriculum development and verification of student outcomes.
- Articulate the Early Childhood Education program with regional high schools and universities.
- Educate and graduate students who possess the knowledge and skills required to succeed in early childhood careers or studies at the university level.

Degrees: Students may earn an Associate in Applied Arts and Sciences Degree in Early Childhood Education upon completion of the two-year program of study. This degree allows graduates to enter the workforce. A Certificate in Early Childhood Education is available upon completion of one year of the program.

An Associate in Applied Science-Transfer (AAS-T) degree in Early Childhood Education is also offered for students planning to transfer to a four-year college or university.

Students may earn an Associate of Arts in Elementary Education (DTA) upon completion of a two year program. This degree transfers to four-year university programs in Elementary Education. This degree also allows students to work as education paraprofessionals in the K-12 school system.

Industry Description: As the number of parents working outside the home increases, the need for quality childcare continues to grow both locally and nationally. Education and training has been identified as one of the key factors to decrease the current rate of staff turnover in childcare settings. Early childhood educators work with children from birth to age eight in childcare and early learning settings.

Paraprofessionals are assistants in classroom settings who provide instructional support for pre-K-12 classroom teachers. By providing students with individualized instruction, teacher assistants tutor and assist children in learning course materials. Teacher assistants also supervise students in the cafeteria and playground. They record grades, set up equipment, and help prepare materials for instruction. Teacher assistants are also called teacher aides, instructional aides, paraeducators or paraprofessionals. The federal legislation No Child Left Behind requires newly hired paraprofessionals to complete two years of college, obtain an Associate Degree, or to pass a rigorous test.

EARLY CHILDHOOD EDUCATION

Certified teachers in the K-12 school system are required to hold a Bachelors Degree, complete a state-approved teacher preparation program at a regionally accredited college/university, and pass a basic skills test and a test for each endorsement. A teacher is responsible for implementing required curriculum in the classroom, assessing student progress, managing classroom discipline, communicating with parents, working cooperatively with other professionals and adhering to all school district policies.

Entrance Requirements: Students may begin their study in the ECE programs in any quarter. A placement test offered by the Student Development Center must be completed prior to admission to the program.

WSP criminal background check is required to enroll in the program. READ 088 is the minimum level recommended to enroll in ECE courses above 100 level and is required at degree completion. Some courses require permission of the faculty advisor to enroll.

Other Information: Early Childhood Education coursework is typically offered in late afternoon, evenings and on weekends to accommodate students who are working. WAOL courses are available every quarter.

WWCC Childcare Resource and Referral Office is also a part of this department. For information on childcare placement, please call 509.529.5744.

For additional information including regional employment data, completion rates, student characteristics, and employment see <http://www.wtb.wa.gov/etp>.

Degrees

AAS-T in Early Childhood Education

This is a dual-purpose degree that is intended to prepare students for employment in Early Childhood Education programs such as Head Start, childcare or preschool settings, and for transfer to specific baccalaureate degree programs. These include: Evergreen State College, University of Phoenix (BSM), Seattle Pacific University (Professional Studies Degree), and Washington State University (Human Development). It is strongly recommended that students contact the baccalaureate granting institution early in their Associate in Applied Science-T in Early Childhood Education about additional requirements and procedures for admission. Students must earn a cumulative grade point average of at least a 2.0. Please note that higher GPA's and course grades are often required.

Degree available at/via: [Walla Walla]

Transferability: This degree transfers to Evergreen State College, University of Phoenix (BSM), Seattle Pacific University (Professional Studies Degree), and Washington State University (Human Development).

EPC: 402T

Early Childhood Education Certificate

This certificate is equivalent to one year of the AAAS in Early Childhood Education.

Certificate available at/via: [Walla Walla]

Certificate Outcomes:

- Demonstrate competency in assisting the teacher in caring for children in early learning settings to include supporting cognitive, physical and social-emotional development of the child.
- Demonstrate appropriate professional and ethical behavior in early childhood settings.
- Demonstrate ability to communicate effectively with adults and children.

YEAR ONE

Quarter One	Credits
ECE 175, Observation and Recording Behavior	3
ECE 232, Childrens Art and Literature for Educators	4
ECE 255, Children at Risk	3
ECE 144, Early Childhood Education Seminar*	1
ELECT ENG1, ENGL 097, Basic Expository Writing (W)	5
Total Credits	16

Quarter Two	Credits
ECE 231, Curriculum Development	3
ECE 234, Child Nutrition, Health and Safety	3
ECE 236, Music and Movement	4
ECE 191, Cooperative Work Experience**	3
OCSUP 101, Job Psychology: Workplace and Educational Success Skills (R) 3	
Total Credits	16

Quarter Three	Credits
ECE 139, Teaching Young Children I ***	3
ECE 150, Math & Science for Early Childhood	4
ECE 160, Instructional Strategies Special Needs Children	3
ECE 240, Programs for Infants and Toddlers	3
MATH 065, Introductory Algebra (M)	5
Total Credits	18
Year One Total	50
Grand Total	50

EPC: 402C

* A maximum of 2 credits of ECE 144, Early Childhood Education Seminar is allowed. ECE 148, Intro To Childcare may be substituted for 2 credits of ECE 144, Seminar. ECE 144 may be taken any quarter.

** Students must complete at least one quarter of ECE 191, Cooperative Work Experience I or ECE 291, Cooperative Work Experience II before enrolling in practicum course.

3 credits of ECE 191, Cooperative Work Experience are required for the certificate

*** A minimum of 3 credits ECE 139, Teaching Young Children I or ECE 239, Teaching Young Children II is required to complete a certificate.

The following courses meet the related instruction requirements of this certificate/degree (one course per category required):

(W) - ELECT ENG1, ENGL& 101

(M) - MATH 065

(R) - BUS 157, OCSUP 101, PSYC 111, PSYC& 100

Associate in Applied Arts and Sciences Degree in Early Childhood Education

This technical degree prepares the student for immediate careers as early childhood educators, paraeducators, preschool teachers, and child care professionals. It can be utilized by individuals planning to enter their chosen career upon graduation or for the individual who is interested in improving current skills and knowledge.

EARLY CHILDHOOD EDUCATION - ECONOMICS

Degree available at/via: [Walla Walla] [Clarkston]

Degree Outcomes:

- Demonstrate competency in assisting the teacher in caring for children in early learning settings to include supporting cognitive, physical and social-emotional development of the child.
- Plan and implement developmentally appropriate curriculum in the early learning setting.
- Demonstrate appropriate professional and ethical behavior in early childhood settings.
- Demonstrate knowledge of strategies to promote, facilitate and extend learning for all children.
- Explain and apply child development principles.
- Demonstrate ability to communicate effectively with adults and children.

Transferability: The AAAS Degree is designed for students planning to enter their chosen career upon graduation. Often only selected credits are considered transferable to public or private baccalaureate institutions.

YEAR ONE

Quarter One	Credits
ECE 175, Observation and Recording Behavior	3
ECE 232, Childrens Art and Literature for Educators	4
ECE 255, Children at Risk	3
ECE 144, Early Childhood Education Seminar*	1
ELECT ENG1, ENGL 097, Basic Expository Writing (W)	5
Total Credits	16

Quarter Two	Credits
ECE 231, Curriculum Development	3
ECE 234, Child Nutrition, Health and Safety	3
ECE 236, Music and Movement	4
ECE 191, Cooperative Work Experience**	3
OCSUP 101, Job Psychology: Workplace and Educational Success Skills (R) 3	
Total Credits	16

Quarter Three	Credits
ECE 139, Teaching Young Children I ***	3
ECE 150, Math & Science for Early Childhood	4
ECE 160, Instructional Strategies Special Needs Children	3
ECE 240, Programs for Infants and Toddlers	3
MATH 065, Introductory Algebra (M)	5
Total Credits	18
Year One Total	50

YEAR TWO

Quarter One	Credits
ECE 101, Introduction to Early Childhood Education	3
ECE 136, Environments for Young Children	3
ECE 170, Guiding Behavior of Young Children	3
ECE 299, Leadership (L)	1
EDUC& 114, Child Development	3
Total Credits	13

Quarter Two	Credits
ECE 219, Child, Family and Community Relationships	3
ECE 242, Growth, Development and Guidance for School Agers	3
ECE 261, Current Issues and Trends in Education	3
ECE 291, Cooperative Work Experience II****	3
OCSUP 103, Job Seeking Skills (J)	3
Total Credits	15

Quarter Three	Credits
ECE 137, Language Development and Literacy	3
ECE 239, Teaching Young Children II ***	3
ECE 275, Administration of Early Learning Programs	3
EDUC& 203, Exceptional Child	3

ECE 144, Early Childhood Education Seminar*	1
OCSUP 102, Oral Communication in the Workplace (O)	3
Total Credits	16
Year Two Total	44
Grand Total	94

EPC: 402

A certificate is available upon completion of the first three quarters of the AAAS.

* A maximum of 4 credits of ECE 144, Early Childhood Education Seminar is allowed. ECE 148, Intro To Childcare may be substituted for 2 credits of ECE 144, Seminar. ECE 144 may be taken any quarter.

** Students must complete at least one quarter of ECE 191, Cooperative Work Experience I or ECE 291, Cooperative Work Experience II before enrolling in practicum course.

*** A minimum of 3 credits ECE 139, Teaching Young Children I or ECE 239, Teaching Young Children II is required to complete a certificate.

**** 3 credits of ECE 191, Cooperative Work Experience are required for the certificate and 6 credits of ECE 191/291, Cooperative Work Experience are required for the degree.

The following courses meet the related instruction requirements of this certificate/degree (one course per category required):

(J) - OCSUP 103, PSYC 140

(W) - ELECT ENG1, ENGL& 101

(L) - ECE 299, OCSUP 299

(M) - MATH 065

(O) - CMST 102, CMST& 220, OCSUP 102

(R) - BUS 157, OCSUP 101, PSYC 111, PSYC& 100

Early Childhood Parenting Education

<http://www.wbcc.edu/parenteducation>

Samantha Bowen 509.524.5142 samantha.bowen@wbcc.edu

Program available at/via: [Walla Walla]

Department Overview: Parenting Education courses are offered to promote the development of knowledge and skills for strong and healthy families. Courses are offered for parents and their toddlers or preschool age children. Courses include topics based on participant interest and need and are offered both on campus and at off-campus locations. Curriculum is research based and is developed and maintained with input from the Early Childhood Education advisory board composed of local and regional educators and parents.

For Estimated Program Cost, view the Paying for College page and click on Cost.

Other Information: For additional information including regional employment data, completion rates, student characteristics, and employment see <http://www.wtb.wa.gov/etp>.

Economics

<http://wbcc.edu/economics>

Debora Frazier 509.527.4689 debby.frazier@wbcc.edu

Program available at/via: [Walla Walla] [Clarkston] [Online (partial)]

Department Overview: Economics is the study of how people and society make choices and exchange with others based on these choices. The study of economics provides insights into practical problems and solutions such as, unemployment,

ECONOMICS - ENERGY SYSTEMS TECHNOLOGY

business cycles, inflation, business decisions and consumer choice. Economics looks at the consumer behavior, business behavior and the workings of markets. The study of economics is required for many undergraduate degrees.

Program Level Outcomes:

- The ability to analyze past and present society, diverse cultures and histories to better understand individual and group behavior and enhance self awareness.
- An understanding and working knowledge of the theories, concepts, ideas, terminology, and factual evidence in selected fields within the social sciences.
- Sensitivity in understanding diverse views and perspectives.
- An understanding of the historically and socially constructed nature of human differences.

Degrees: Students may earn an Associate in Arts AA-DTA degree (90 credits) which is designed for students planning to transfer to a baccalaureate institution with junior standing. Students pursuing this degree should meet with an academic advisor at WWCC and an advisor at their intended baccalaureate institution to determine an appropriate educational plan. (See AA-DTA in Degrees section of catalog).

Preparation for Success: A major in Economics is strengthened by studies in mathematics and computer programming. The ability to utilize computers for research purposes is mandatory in most disciplines.

Education

AA-DTA

<http://www.wwcc.edu/education>

Samantha Bowen 509.524.5142 samantha.bowen@wwcc.edu

Program available at/via: [Walla Walla] [Online (partial)]

Department Overview: The Education Department offers a variety of courses that prepare students for transfer to a baccalaureate program at a four-year university and to obtain a Washington State Teaching Certificate. A two-year associate degree in Elementary Education or Math Education will also prepare students to enter the workforce as paraprofessionals, working alongside certificated teachers. The Education curriculum provides a foundation in the history of education in the United States as well as an understanding of legal, ethical and philosophical issues applied to educational settings. Opportunities for the ongoing professional development of teachers are also included. Students have the opportunity to apply newly acquired skills and knowledge through participation in a classroom setting. Certified teachers may apply specific courses towards continuing education credits. Program curriculum is reviewed by an advisory board composed of local and regional education professionals.

Degrees

Associate in Elementary Education - DTA/MRP

This degree is applicable to students planning to prepare for an upper division elementary education major. Students must earn a "C" or above in all courses required for this degree. Please note that minimum grade point averages are established by each institution and higher gpa's are often required. It is strongly recommended that students contact the baccalaureate granting education school early in their Associate in Elementary Education - DTA program to be advised about additional requirements (e.g., gpa) and procedures for admission. Students must take the WEST-B in order to apply to teacher preparation programs in Washington State.

Degree available at/via: [Walla Walla]

Associate in Math Education - DTA/MRP

This degree is for students planning to major in secondary math education at a baccalaureate institution. It is a statewide transfer agreement for secondary math education majors between the community colleges and public baccalaureate institutions in the state of Washington.

This Direct Transfer Agreement (DTA) will fulfill the general education requirements at the public Washington state baccalaureate institutions.

Students must earn a cumulative grade point average of at least a 2.0. Please note that higher GPA's are often required for admission to math education programs. It is strongly recommended that students contact the baccalaureate granting education school early in their Associate in Math Education - DTA program to be advised about additional requirements and procedures for admission. Students must take the WEST in order to apply to teacher preparation programs in Washington State.

Degree available at/via: [Walla Walla]

Energy Systems Technology -Electrical

CERT, AAAS

Brian Evensen 509.527.4492 brian.evensen@wwcc.edu
Michael Houdak 509.527.4252 michael.houdak@wwcc.edu

Department Overview: The electrical courses provide students with an understanding of electrical safety, basic DC AC electrical theory, electronic theory, generator and motor theory, motor controls, programmable logic controllers, and national electrical code associated with the residential, commercial and industrial industries. These courses are offered in a lecture with demonstration and lab application formats.

Program Level Outcomes:

- Ensure a safe work environment and meet safety standards
- Demonstrate a strong foundation in Electrical Machinery
- Install, Troubleshoot and Repair Electrical Systems

ENERGY SYSTEMS TECHNOLOGY -ELECTRICAL

- Maintain tools, equipment, and inventory
- Interact and communicate with coworkers, suppliers, customers, and contractors
- Adhere to policies and standards
- Conduct training and participate in continuous learning

Degrees: The Associate in Applied Arts and Sciences Degree in Electrical Technology is awarded for successful completion of a two-year program of study. Students may also earn a one-year certificate by successfully completing course requirements.

Industry Description: The use of electricity and electronics in our community and throughout the world is an ever-increasing technology that affects every aspect of our lives. From the homeowner who needs to replace a receptacle, to the journeyman electrician working on an industrial power-supply require a foundation understanding of electrical principles. Today's electrical and electronic industry demands a high degree of technology to install, operate, maintain and upgrade equipment and systems.

Entrance Requirements: Students contemplating entering an electrical training course should complete placement testing offered by Walla Walla Community College, and meet with an advisor in the electrical training area. A high school diploma or GED is recommended for entry into this program and is required if students pursue an AAAS degree.

Preparation for Success: By completing the following courses prior to entering the Electrical Technology program, student will be well prepared for courses within the degree.

- OCSUP 106, Applied Mathematics
- WRITE 100, Applied Writing
- CS 110, Introduction to Computers and Applications

Other Information: Technicians for the Electrical Industry should:

- Be able to work in confined spaces
- Be able to work in adverse weather conditions
- Have the ability to lift 75 lbs.
- Be able to work standing for long hours
- Have no criminal history
- Be able to pass a drug test
- Have a valid drivers license, travel will be involved
- Have a clean driving record
- Be able to follow exact instructions
- Be able to work in and promote a safe environment
- Be able to work under minimal supervision
- Be able to work with people in a team-oriented environment
- Be prepared to work with electrical hazards
- Have an aptitude for mechanical and electrical troubleshooting
- Be prepared for possible relocation

Degrees and Certificates

Energy Systems Technology - Electrical Certificate

Certificate available at/via: [Walla Walla]

Certificate Outcomes:

- Demonstrate knowledge of electrical safety, theory, vocabulary, and calculations of series, parallel, and combination circuits involving Direct and Alternating Current.
- Demonstrate basic knowledge of, capacitors, resistive-inductive-capacitive reactance circuits, single and three-phase transformers, DC generators and motors, Three-Phase Alternators, Single and three-phase Motors.
- Ability to read schematics, wire and test various types of electrical circuits.
- Demonstrate or describe proper safety procedures for working with rotating machinery, moving heavy objects, pressurized vessels and systems, chemicals, ladders and energy; electrical, heat, cold, fluid.
- Explain solid state components and devices.
- Ability to read and interpret the National Electrical Code (NEC), Uniform Mechanical Code (UMC) and blueprints.

YEAR ONE

Quarter One	Credits
EST 100, Refrigeration and Air Conditioning Basics I	5
EST 131, Principles of Electricity Theory	5
EST 144, Industrial Safety in the Workplace	3
WRITE 100, Applied Writing (W)	3
Total Credits	16

Quarter Two	Credits
ENGR& 111, Engineering Graphics I	4
EST 132, Principles of Electricity AC Application	5
OCSUP 103, Job Seeking Skills (J)	3
OCSUP 107, Introduction to Technical Mathematics (M)*	4
Total Credits	16

Quarter Three	Credits
EST 133, Introduction to Controls	6
EST 134, Electrical Raceways	3
EST 150, Electric Motor and Controls	6
EST 159, Hydraulics and Pneumatics	3
Total Credits	18
Year One Total	50
Grand Total	50

EPC: 784C

** Students are required to complete OCSUP 107, Introduction to Technical Math or MATH& 142, Precalculus II. Students scoring below 54 on the Compass Mathematics Exam will enroll in OCSUP 106 fall quarter.*

The following courses meet the related instruction requirements of this certificate/degree (one course per category required):

(J) - OCSUP 103, PSYC 140

(W) - ENGL& 101, ENGL& 102, WRITE 100,

(M) - MATH& 142, OCSUP 107

ENERGY SYSTEMS TECH. - REFRIGERATION & AIR CONDITIONING

Associate in Applied Arts and Sciences Degree in Energy Systems Technology - Electrical

This technical degree prepares the student to enter into a cooperative training experience, often resulting in long-term employment with the training entity. This degree is designed as a pre-apprenticeship preparation.

Degree available at/via: [Walla Walla]

Degree Outcomes:

- Demonstrate knowledge of electrical safety, theory, vocabulary, and calculations of series, parallel, and combination circuits involving Direct and Alternating Current.
- Demonstrate basic knowledge of, capacitors, resistive-inductive-capacitive reactance circuits, single and three-phase transformers, DC generators and motors, Three-Phase Alternators, Single and three-phase Motors.
- Ability to read schematics, wire and test various types of electrical circuits.
- Demonstrate or describe proper safety procedures for working with rotating machinery, moving heavy objects, pressurized vessels and systems, chemicals, ladders and energy; electrical, heat, cold, fluid.
- Explain solid state components and devices.
- Demonstrate understanding of programmable logic controls (PLC) and direct digital controls (DDC)
- Ability to read and interpret the National Electrical Code (NEC), Uniform Mechanical Code (UMC) and blueprints.

Transferability: The AAAS Degree is designed for students planning to enter their chosen career upon graduation. Often only selected credits are considered transferable to public or private baccalaureate institutions.

YEAR ONE

Quarter One	Credits
EST 100, Refrigeration and Air Conditioning Basics I	5
EST 131, Principles of Electricity Theory	5
EST 144, Industrial Safety in the Workplace **	3
WRITE 100, Applied Writing (W)	3
Total Credits	16
Quarter Two	Credits
ENGR& 111, Engineering Graphics I	4
EST 132, Principles of Electricity AC Application	5
OCSUP 103, Job Seeking Skills (J)	3
OCSUP 107, Introduction to Technical Mathematics (M)*	4
Total Credits	16
Quarter Three	Credits
EST 133, Introduction to Controls	6
EST 134, Electrical Raceways	3
EST 150, Electric Motor and Controls	6
EST 159, Hydraulics and Pneumatics	3
Total Credits	18
Quarter Four	Credits
EST 191, Cooperative Work Experience****	10 - 15
EST 292, Cooperative Seminar II (L)	2
Total Credits	12-17
Year One Total	62-67

YEAR TWO

Quarter One	Credits
CS 110, Introduction to Computers and Applications	5
EST 240, Intro to Basic Electronics	5
EST 252, Principles of Power Generation and Distribution	5
OCSUP 102, Oral Communication in the Workplace (O)	3
Total Credits	18
Quarter Two	Credits
EST 250, Introduction to PLC and DDC Control	5
EST 260, Introduction to the National Electrical Code	2
OCSUP 101, Job Psychology: Workplace and Educational Success Skills (R) 3	
WMGT 221, Pump Applications	3
Total Credits	13
Quarter Three	Credits
TRK 101, CDL Training***	12
Total Credits	12
Year Two Total	43
Grand Total	105-110

EPC: 784

* Students are required to complete either OCSUP 107, Intro to Technical Math or MATH& 142, Precalculus II. Students scoring below 54 on the Compass Mathematics Exam will enroll in OCSUP 106 fall quarter.

** EST 144, Industrial Safety will include OSHA 1026 Training and Medic First Aid Training.

*** TRK 101, CDL Training is optional for the degree.

**** EST 191, Cooperative Work Experience and EST 192, Cooperative Seminar are available after the second quarter and can be completed during summer quarter of the first year or during the second year.

The following courses meet the related instruction requirements of this certificate/degree (one course per category required):

(J) - OCSUP 103, PSYC 140

(W) - ENGL& 101, ENGL& 102, WRITE 100

(L) - EST 292, OCSUP 299

(M) - MATH& 142, OCSUP 107

(O) - CMST 102, CMST& 220, OCSUP 102

(R) - OCSUP 101, PSYC 111, PSYC& 100

Energy Systems Technology - Refrigeration & Air Conditioning

CERT, AAAS

<http://wwcc.edu/energy>

Michael Houdak 509.527.4252 509.527.4252 michael.houdak@wwcc.edu

Program available at/via: [Walla Walla]

Department Overview: Energy Systems Technology works to meet the emerging technologies of the expanding electrical and heating, air conditioning and refrigeration industries. Students learn the environmental, safety and energy principles of as they relate to equipment, components and the environment. The first year of the programs is a certificate program that emphasizes foundational theory and principles of basics of energy generation, conversion and consumption. The second year curriculum is driven the core competencies to more advanced training within one of two specialty fields: Refrigeration and Air Conditioning or Electrical.

The Refrigeration and Air Conditioning is a Nationally Accredited program through the HVAC Excellence. Students leave the program with skills based on national competency standards necessary to begin entry level employment in the industry. Degree

ENERGY SYSTEMS TECH. - REFRIGERATION & AIR CONDITIONING

completers receive 1337 electrical trainee hours toward the WA 06A Electrical Specialty. The Electrical degree is designed as a pre-apprenticeship preparation, and degree completers will receive 1408 electrical trainee hours toward the WA 07 Electrical Specialty. Energy Systems Technology curriculum is reviewed by an advisory board composed of local and regional industry members.

Program Level Outcomes:

- Provide students with marketable technical and interpersonal skills in the trade, resulting in career placement.
- Provide relevant training through hands-on and field experience to prepare the students for industry.
- Develop students' analytical thinking and problem-solving abilities through instructional labs, projects, and testing.
- Provide training in environmental and work place safety that meets appropriate industry standards.

Degrees: Students may earn an Associate in Applied Arts and Sciences Degree in the following areas: Refrigeration and Air Conditioning, and Electrical. One-year certificates are also available for each of the above listed AAAS degrees.

Students may earn an Associate in Applied Arts and Sciences degree in Wind Turbine Technology. A one-year certificate is also available in Wind Turbine Technology.

Industry Description: Energy Systems Technology encompasses these subspecialty areas of study: Refrigeration and Air Conditioning, and Electrical. Refrigeration and Air Conditioning Technicians are involved in the design, fabrication, installation, maintenance repair, and replacement of heating, ventilation cooling, refrigeration components and equipment, will handle indoor environmental air quality and systems energy efficiency.

Electrical technicians often work with installation, testing, operation, design, and maintenance of electrical equipment in residential, commercial and high voltage industrial electrical wiring, as well as DC and AC motor controls and electrical distribution systems.

Visit the Wind Energy Technology webpage for an industry description for wind energy.

Entrance Requirements: Students (Electrical or RAC) are required to obtain Washington State LNI Electrical trainee card the first quarter of enrollment (this may be waived if out of state). Students also take a Mechanical Aptitude Test and a reading, writing and math placement test prior to entering the program. These are offered by the Student Development Center.

It is recommended that the student contact the lead instructor regarding appropriate program placement and paying a priority list fee to determine specific quarter start in the program. Students may enter the program fall, winter or spring quarter, however, due to course sequencing it is recommended to begin in the fall. A placement test offered by the Student Development Center must be completed prior to admittance to the program.

Other Information: For additional information including regional employment data, completion rates, student characteristics, and employment see <http://www.wtb.wa.gov/etp>.

Degrees and Certificates

Energy Systems Technology - Refrigeration & Air Conditioning Certificate

This certificate is equivalent to the first year of the AAAS Degree in Energy Systems Technology - Refrigeration and Air Conditioning.

Certificate available at/via: [Walla Walla]

Certificate Outcomes:

- Demonstrate basic knowledge of electrical safety, theory, interpreting electrical wiring diagrams, knowledge of electrical components, fundamentals of motors and capacitors, knowledge of NEC, electrical troubleshooting and problem solving, knowledge of electrical tools and instruments.
- Demonstrate basic knowledge of fundamentals and theory of Air Conditioning system, safety, relative codes, refrigerants and refrigeration oils, system components, electrical, recovery, recycling, reclaiming, leak detection and testing, evacuation and charging, troubleshooting, problem solving air conditioning, and knowledge and use of tools and instruments for air conditioning.
- Demonstrate basic knowledge of electric heat theory and application, safety, system components, installation and service, thermostats, air flow, troubleshooting and problem solving, and use of tools and instrument for electric heat.
- Demonstrate knowledge of gas and oil heat combustion theory and heating fuels, safety, knowledge of different heating system component, installation and service, gas piping, venting, electrical, gas heat troubleshooting and service and use of related tools and instruments.
- Demonstrate a basic knowledge of heat pump theory, electrical and mechanical components, meet core competencies set by the national accreditation standards, heat pump troubleshooting and problem solving, and knowledge of tools and instruments required for work with heat pumps.
- Demonstrate a basic knowledge of core competencies of theory, electrical and mechanical for light commercial, and industrial refrigeration, troubleshoot and problem solve light commercial refrigeration

YEAR ONE

Quarter One	Credits
EST 100, Refrigeration and Air Conditioning Basics I	5
EST 131, Principles of Electricity Theory	5
EST 144, Industrial Safety in the Workplace **	3
OCSUP 106, Applied Mathematics I (M)	5
Total Credits	18

Quarter Two	Credits
ENGR& 111, Engineering Graphics I	4
EST 101, Refrigeration and Air Conditioning Basics II	5
EST 110, Refrigeration and Air Conditioning Mechanical Equipment . . .	6
EST 132, Principles of Electricity AC Application	5
WRITE 100, Applied Writing (W)	3
Total Credits	23

ENERGY SYSTEMS TECH. - REFRIGERATION & AIR CONDITIONING

Quarter Three

	Credits
EST 120, Air Conditioning Systems	6
EST 133, Introduction to Controls	6
EST 150, Electric Motor and Controls	6
EST 200, Ductwork Design and Fabrication	3
EST 292, Cooperative Seminar II	2
Total Credits	23

Quarter Four

	Credits
EST 191, Cooperative Work Experience*	12
EST 192, Cooperative Seminar (R)*	2
Total Credits	14
Year One Total	78
Grand Total	78

EPC: 703C

* EST 191 and EST 192 are available after the second quarter and can be completed during summer quarter of the first year or during the second year.

** EST 144, Industrial Safety will include OSHA 1026 Training and MedicFirst Aid Training.

The following courses meet the related instruction requirements of this certificate/degree (one course per category required):

(J) - OCSUP 103, PSYC 140

(W) - ENGL& 101, WRITE 100

(L) - OCSUP 299

(M) - MATH 050, OCSUP 106

(O) - CMST 102, CMST& 220, OCSUP 102

(R) - EST 192, OCSUP 101, PSYC 111, PSYC& 100

Associate in Applied Arts and Sciences Degree in Energy Systems Technology - Refrigeration and Air Conditioning

This technical degree prepares the student for success in the refrigeration and air conditioning industry. It can be utilized by individuals planning to enter their chosen career upon graduation or for the individual who is interested in improving current skills and knowledge.

Degree available at/via: [Walla Walla]

Degree Outcomes:

- Demonstrate basic knowledge of electrical safety, theory, interpreting electrical wiring diagrams, knowledge of electrical components, fundamentals of motors and capacitors, knowledge of NEC, electrical troubleshooting and problem solving, knowledge of electrical tools and instruments.
- Demonstrate basic knowledge of fundamentals and theory of Air Conditioning system, safety, relative codes, refrigerants and refrigeration oils, system components, electrical, recovery, recycling, reclaiming, leak detection and testing, evacuation and charging, troubleshooting, problem solving air conditioning, and knowledge and use of tools and instruments for air conditioning.
- Demonstrate basic knowledge of electric heat theory and application, safety, system components, installation and service, thermostats, air flow, troubleshooting and problem solving, and use of tools and instrument for electric heat.
- Demonstrate knowledge of gas and oil heat combustion theory and heating fuels, safety, knowledge of different heating system component, installation and service, gas piping, venting, electrical, gas heat troubleshooting and service and use of related tools and instruments.
- Demonstrate a basic knowledge of heat pump theory, electrical

and mechanical components, meet core competencies set by the national accreditation standards, heat pump troubleshooting and problem solving, and knowledge of tools and instruments required for work with heat pumps.

- Demonstrate a basic knowledge of core competencies of theory, electrical and mechanical for light commercial, and industrial refrigeration, troubleshoot and problem solve light commercial refrigeration

Transferability: The AAAS Degree is designed for students planning to enter their chosen career upon graduation. Often only selected credits are considered transferable to public or private baccalaureate institutions.

YEAR ONE

Quarter One

	Credits
EST 100, Refrigeration and Air Conditioning Basics I	5
EST 131, Principles of Electricity Theory	5
EST 144, Industrial Safety in the Workplace **	3
OCSUP 106, Applied Mathematics I (M)	5
Total Credits	18

Quarter Two

	Credits
ENGR& 111, Engineering Graphics I	4
EST 101, Refrigeration and Air Conditioning Basics II	5
EST 110, Refrigeration and Air Conditioning Mechanical Equipment	6
EST 132, Principles of Electricity AC Application	5
WRITE 100, Applied Writing (W)	3
Total Credits	23

Quarter Three

	Credits
EST 120, Air Conditioning Systems	6
EST 133, Introduction to Controls	6
EST 150, Electric Motor and Controls	6
EST 200, Ductwork Design and Fabrication	3
EST 292, Cooperative Seminar II	2
Total Credits	23

Quarter Four

	Credits
EST 191, Cooperative Work Experience*	12
EST 192, Cooperative Seminar (R)*	2
Total Credits	14
Year One Total	78

YEAR TWO

Quarter One

	Credits
EST 220, Ammonia Refrigeration Systems	3
EST 240, Intro to Basic Electronics	5
EST 264, Heating Systems and Heat Pumps	7
OCSUP 102, Oral Communication in the Workplace (O)	3
Total Credits	18

Quarter Two

	Credits
EST 250, Introduction to PLC and DDC Control	5
EST 260, Introduction to the National Electrical Code	2
EST 265, Commercial Refrigeration Equipment	8
OCSUP 103, Job Seeking Skills (J)	3
WMGT 221, Pump Applications	3
Total Credits	21
Year Two Total	39
Grand Total	117

EPC: 703

* EST 191 and EST 192 are available after the second quarter and can be completed during summer quarter of the first year or during the second year.

** EST 144, Industrial Safety will include OSHA 1026 Training and MedicFirst Aid Training.

ENERGY SYSTEMS TECHNOLOGY - WIND ENERGY

The following courses meet the related instruction requirements of this certificate/degree (one course per category required):

(J) - OCSUP 103, PSYC 140

(W) - ENGL& 101, WRITE 100

(L) - OCSUP 299

(M) - MATH 050, OCSUP 106

(O) - CMST 102, CMST& 220, OCSUP 102

(R) - EST 192, OCSUP 101, PSYC 111, PSYC& 100

Energy Systems Technology - Wind Energy

CERT, AAAS

<http://www.wwcc.edu/wind>

James Bradshaw

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Program available at/via: [Walla Walla]

Department Overview: The Wind Turbine Technology program provides entry level training for wind energy and wind turbine generator technicians with emphasis on the emerging wind energy industry. The two-year technical training focuses on safety, power generation, distribution, electrical theory and control mechanisms, mechanical systems, along with crane rigging, bolt torque, and general education components. Wind Turbine Technicians play a key role in ensuring quality, safety and service involving the operation and maintenance of wind turbine units, performing mechanical and electrical troubleshooting, as well as repair and preventative maintenance. Work may include basic circuits, electrical motors and their controls, electronic controls, programmable logic controllers and variable frequency drives. Wind Turbine Technicians install and maintain, repair and replace malfunctioning parts and equipment, transmissions and drives, programmable logic controllers, motors, and breakers.

Program Level Outcomes:

- Ensure a safe work environment and meet safety standards.
- Demonstrate a strong foundation in Electrical, Mechanical, and Hydraulic Systems
- Troubleshoot and repair wind turbines.
- Maintain wind turbines (reliability and optimization).
- Maintain tools, equipment, and inventory.
- Interact and communicate with coworkers, suppliers, customers, and contractors
- Adhere to policies and standards
- Conduct training and participate in continuous learning.

Degrees: Students may earn an Associate in Applied Arts and Sciences degree in Wind Energy Technology. A one-year certificate is also available in Wind Energy Technology.

Industry Description: Wind Energy is one of the fastest growing industries in the world. The sharp rise in energy consumption along with the concern about dependency on foreign oil, the high price of gasoline and the increasing interest in sustainable resources have fueled the renewable energy industry, of which wind generation is a growing entity. As the wind energy industry

continues to grow the need for employees to service the wind turbines will increase. In recent years wind farms are cropping up all over southeastern Washington with plans for more.

Entrance Requirements:

Students are admitted into the program based on the completion of the below criteria. The evaluation of each student will be made by the Admission/Progression Committee.

- Prior academic success
- Application, resume, and essay
- Completion of placement tests offered by WWCCs Student Development Center

* English: eligible to enter ENGL 077 or WRITE 100

* Math: eligible to enter OCSUP 106

- Successful completion of EST 103, CS 110, WRITE 100, and OCSUP 106/MATH 50 or appropriate placement into OCSUP 107
- Successfully demonstrating the ability to climb a 300 foot ladder
- Successfully passing the mechanical aptitude test
- Successfully passing driving background check

Preparation for Success: By completing the following courses prior to entering the Wind Energy Technology program, student will be well prepared for courses within the degree.

- OCSUP 106, Applied Mathematics
- WRITE 100, Applied Writing
- CS 110, Introduction to Computers and Applications

Other Information: Technicians for the Wind Energy Industry should:

- Be able to pass Basic Mechanical aptitude test
- Be able to climb 280 foot ladders and work at this elevation
- Be able to work in confined spaces
- Be able to work in adverse weather conditions
- Have the ability to lift 75 lbs.
- Be able to work standing for long hours
- Have no criminal history
- Be able to pass a drug test
- Have a valid drivers license, travel will be involved
- Have a clean driving record
- Be able to follow exact instructions
- Be able to work in and promote a safe environment
- Be able to work under minimal supervision
- Be able to work with people in a team-oriented environment
- Be prepared to work with electrical hazards
- Have an aptitude for mechanical and electrical troubleshooting
- Be prepared for possible relocation

ENERGY SYSTEMS TECH. - WIND ENERGY - ENGLISH

Degrees

Associate in Applied Arts and Sciences in Wind Energy Technology

Two year technical training emphasizes power generation, distribution, electrical theory and control mechanisms, safety and general education components.

YEAR ONE

Quarter One	Credits
CS 110, Introduction to Computers and Applications	5
EST 103, Introduction to Wind Energy	3
OCSUP 103, Job Seeking Skills (J)	3
WRITE 100, Applied Writing (W)	3
Total Credits	14

Quarter Two	Credits
EST 115, Industrial Mechanics/Maintenance - Wind Machines	5
EST 131, Principles of Electricity Theory	5
EST 144, Industrial Safety in the Workplace *	3
OCSUP 107, Introduction to Technical Mathematics (M)**	4
Total Credits	17

Quarter Three	Credits
EST 132, Principles of Electricity AC Application	5
EST 150, Electric Motor and Controls	6
EST 159, Hydraulics and Pneumatics	3
EST 165, Crane Rigging and Material Handling	3
EST 175, Tower Rescue and Climbing Competency	1.2
Total Credits	18.2

Quarter Four	Credits
EST 191, Wind Cooperative Work Experience***	12
EST 292, Cooperative Seminar II (L)	2
Total Credits	14
Year One Total	63.2

YEAR TWO

Quarter One	Credits
CS 115, Introduction to Computer & Information Technology	5
EST 133, Introduction to Controls	6
EST 240, Intro to Basic Electronics	5
EST 252, Principles of Power Generation and Distribution	5
Total Credits	21

Quarter Two	Credits
EST 250, Introduction to PLC and DDC Control	5
EST 270, Principles of Business Management	5
OCSUP 101, Job Psychology: Workplace and Educational Success Skills (R) 3	
OCSUP 102, Oral Communication in the Workplace (O)	3
Total Credits	16
Year Two Total	37
Grand Total	100.2

EPC: 177W

* EST 144, Industrial Safety includes Medic First Aid Training and OSHA 1926 Training.

** Students are required to complete OCSUP 107, Intro to Technical Math. Based on placement test scores, students may have to enroll in OCSUP 106 fall quarter, but it is not required for students who test above OCSUP 106. Students may take MATH 050 in place of OCSUP 106.

*** EST 191 and EST 192 are available during summer quarter of the first year or spring quarter second year. This will require an agreement with local Wind Turbine Owners/Operators.

The following courses meet the related instruction requirements of this certificate/degree (one course per category required):

(J) - OCSUP 103, PSYC 140

(W) - ENGL& 101, WRITE 100,

(L) - EST 292, OCSUP 299

(M) - OCSUP 107

(O) - CMST 102, CMST& 220, OCSUP 102

(R) - OCSUP 101, PSYC 111, PSYC& 100

Wind Energy Technology Certificate

The Wind Energy Technology Certificate is equivalent to the first three quarters of the AAAS degree.

YEAR ONE

Quarter One	Credits
CS 110, Introduction to Computers and Applications	5
EST 103, Introduction to Wind Energy	3
OCSUP 103, Job Seeking Skills (J)	3
WRITE 100, Applied Writing (W)	3
Total Credits	14

Quarter Two	Credits
EST 115, Industrial Mechanics/Maintenance - Wind Machines	5
EST 131, Principles of Electricity Theory	5
EST 144, Industrial Safety in the Workplace **	3
OCSUP 107, Introduction to Technical Mathematics (M)*	4
Total Credits	17

Quarter Three	Credits
EST 132, Principles of Electricity AC Application	5
EST 150, Electric Motor and Controls	6
EST 159, Hydraulics and Pneumatics	3
EST 165, Crane Rigging and Material Handling	3
EST 175, Tower Rescue and Climbing Competency	1.2
Total Credits	18.2

Year One Total 49.2

Grand Total 49.2

EPC: 177D

* Students are required to complete OCSUP 107, Introduction to Technical Math. Based on placement test scores, students may have to enroll in OCSUP 106 fall quarter, but it is not required for students who test above OCSUP 106. Students may take MATH 050 in place of OCSUP 106.

** EST 144, Industrial Safety in the Workplace includes Medic First Aid Training and OSHA 1926 Training.

The following courses meet the related instruction requirements of this certificate/degree (one course per category required):

(J) - OCSUP 103, PSYC 140

(W) - ENGL& 101, WRITE 100,

(M) - OCSUP 107

English

<http://wwcc.edu/english>

Linda Andrews	509.527.4641	linda.andrews@wwcc.edu
Jennifer Boyden	509.524.5154	jennifer.boyden@wwcc.edu
Michael Kiefel	509.527.4640	michael.kiefel@wwcc.edu
Brad Lafran	509.527.3682	russell.lafran@wwcc.edu
Nanqi You	509.527.4583	nanqi@wwcc.edu
Virginia McConnell- Clk	509.758.1709	virginia.mcconnell@wwcc.edu

Program available at/via: [Walla Walla] [Clarkston] [Online (partial)]

Department Overview: English courses at WWCC help students better understand and appreciate the English language. Courses in English assist students in presenting their thoughts in an organized manner and improve their decision-making, problem-solving, and critical thinking. College level courses specifically focus on the development of structural and stylistic writing skills with concentration on a variety of essay techniques and on writing an academic research paper. The college offers three courses in creative writing. WWCC offers a full spectrum of English courses that prepare students for college level courses, including vocabulary development, grammar, spelling, and fundamentals in writing sentences and paragraphs.

ENGLISH - ENOLOGY AND VITICULTURE

Program Level Outcomes:

- An aesthetic and intellectual comprehension of culturally and linguistically diverse works in literature, philosophy, visual and performing arts, including film and music.
- An understanding and working knowledge of terminology commonly used in the humanities.
- An appropriate level of creativity, discipline, and technique in the production of assigned work in the humanities.

Degrees: Students may earn an Associate in Arts AA-DTA degree (90 credits) which is designed for students planning to transfer to a baccalaureate institution with junior standing. Students pursuing this degree should meet with an academic advisor at WWCC and an advisor at their intended baccalaureate institution to determine an appropriate educational plan. (See AA-DTA in Degrees section of catalog).

Entrance Requirements: Students must take a placement test to determine enrollment level.

Preparation for Success: In order to succeed in English writing courses, students should take the course recommended by their writing assessment, available in the Student Development Center. Taking the proper course is very important, since writing is best learned in sequence, from the properly composed sentence to the well-researched essay and the imaginative, and structurally sound creative piece. Word-processing skills are essential to the successful English major.

Other Information: All new and re-entering students complete an English writing assessment at Walla Walla Community College. The writing assessment may include a writing sample. As a result of this assessment, students will be enrolled in the most appropriate English course.

The Center for Academic Success is a great place for students to work one-on-one with a tutor to review their writing in any course at the College.

English as a Second Language

<http://wwcc.edu/esl>

Janet Danley- Clk 509.758.1703 janet.danley@wwcc.edu

Program available at/via: [Walla Walla] [Clarkston]

Department Overview: Courses in English as a Second Language are offered to limited English proficient (LEP) students. Students are assessed at entry and placed at one of 5 levels. Progress is determined by CASAS post assessment. Instruction is centered on the Washington Adult Learning Standards basic skill areas "listening, speaking, reading, writing," as well as computer literacy. Instruction is in English and incorporates a variety of teaching techniques. Teachers and students work together in a communicative classroom setting with emphasis given to community, civic, personal, and workplace topics.

Program Level Outcomes:

ESL Reading

- Determine the reading purpose.
- Select reading strategies appropriate to the purpose.

- Monitor comprehension and adjust reading strategies.
- Analyze the information and reflect on its underlying meaning.
- Integrate it with prior knowledge to address reading purpose.

ESL Writing

- Determine the purpose for communicating.
- Organize and present information to serve the purpose.
- Pay attention to conventions of English language usage, including grammar, spelling, and sentence structure, to minimize barriers to readers comprehension
- Seek feedback and revise to enhance the effectiveness of the communication.

ESL Speaking

- Determine the purpose of communicating.
- Organize and relay information to effectively serve the purpose, context, and listener.
- Pay attention to conventions of oral English communication, including grammar, word choice, register, pace, and gesture in order to minimize barriers to listeners comprehension.
- Use multiple strategies to monitor the effectiveness of the communication.

ESL Listening

- Attend to oral information.
- Clarify purpose for listening and use listening strategies appropriate to that purpose.
- Monitor comprehension, adjusting strategies to overcome barriers to comprehension.
- Integrate information from listening with prior knowledge to address the listening purpose.

Entrance Requirements: Students are placed by CASAS in Levels I through V. Registration takes place in room 203, Transitional Studies Reception. Students may register any time during the quarter. There is a \$25 fee per quarter.

Enology and Viticulture

CERT, AAAS

<http://wwcc.edu/wine>

Wanda Williams 509.524.5170 wanda.williams@wwcc.edu

Program available at/via: [Walla Walla]

Department Overview:

The Center for Enology and Viticulture provides students with hands-on experience in winemaking, viticulture practices, and wine sales. To this end, the Institute has developed several acres of teaching vineyards where students actively participate in vineyard management and the growing of quality wine grapes used to support the teaching winery. In addition to the teaching vineyard, the Institute has created a state-of-the-art commercial teaching winery at COLLEGE CELLARS where students are responsible for winemaking and wine-related chemistry.

ENOLOGY AND VITICULTURE

Courses in wine marketing are available and students have ample opportunity to promote College Cellars of Walla Walla wine at various wine industry events. Many courses are tailored to meet the specific needs of the wine industry in the Pacific Northwest. Flexibility of the course scheduling allows for seasonal instruction and participation in short courses and seminars. The Enology and Viticulture curriculum is reviewed by an advisory board composed of local and regional industry members.

Degrees: Students may earn an Associate in Applied Arts and Sciences Degree in Enology and Viticulture upon completion of the two-year program of study. A Viticulture Certificate, which is dedicated to the science of wine farming, is also awarded. An Fermentation Certificate, which is dedicated to the science of wine making, is awarded upon completion of the second year of the program.

Students may also choose to earn an Associate in Applied Arts and Sciences Degree in Wine Marketing and Management through the Agri-Business program.

Students planning to pursue a baccalaureate degree in this area should meet with an enology & viticulture advisor at WWCC and an advisor at their intended transfer institution to determine an appropriate education plan.

Industry Description: Wine production in the state of Washington has rapidly grown to become an \$8.6 billion industry, with more than 40,000 acres of vineyards, 740+ bonded wineries, and a new licensed and bonded winery emerging every month. In the Walla Walla Valley alone, there are nearly 1500 acres planted in vineyards, while the number of bonded wineries in the area has grown from 8 to 170+ in only seventeen years. The Walla Walla Institute for Enology and Viticulture was established to: 1) facilitate alliances with vintners and viticulturists in the Walla Walla Valley and throughout Washington State, 2) promote the economic development of the wine industry, and 3) provide education and training for those with an interest in the industry.

Entrance Requirements: Students must be at least 21 years of age to enroll in the Enology and Viticulture program.

Due to course sequencing, students must begin the program in the fall. The Student Development Center offers a placement test and student orientation; both of which must be completed prior to beginning the program in fall quarter. Prospective students must submit a resume and essay to the Institute for Enology and Viticulture, and may also be required to interview with one of the Institute's instructors. Students must complete special admissions requirements to be admitted and enrolled in the Enology & Viticulture program. After acceptance to the program, students will be required to make a deposit.

Students must be physically able to safely perform the tasks required in the vineyard and winery, which will include pruning, lifting, climbing, bending, stretching, twisting, crawling and moving, lifting, carrying, pushing and pulling items weighing up to 50 lbs. Ability to taste, smell, and check for optical clarity of wine. Ability to visually inspect and sort wine grapes - checking for diseases and insects - during the growing season through harvest.

Click here to download the Enology & Viticulture Program Admission Guidelines

Other Information: The Institute also offers short courses in sensory evaluation, barrel making, wine yeasts, wine appreciation, wine consumer education, health and wine awareness, and hospitality training.

For additional information including regional employment data, completion rates, student characteristics, and employment see <http://www.wtb.wa.gov/etp>.

Degrees and Certificates

Fermentation Science Certificate

This certificate is equivalent to the second year of the AAAS Degree in Enology and Viticulture, which is dedicated to the science of wine making. Students must complete related instruction requirements in the following categories to receive a certificate: Written Communications, Computation/Mathematics, Human Relations. Students must complete the Viticulture Science Certificate before completing the Fermentation Science Certificate.

Certificate available at/via: [Walla Walla]

Certificate Outcomes:

- Perform basic wine sensory evaluations.
- Clean winery and wine equipment.
- Monitor red and white wine fermentation.
- Chemically analyze wine.
- Perform post-fermentation cellar operations.
- Blend and age wines.
- Bottle and label wines.

YEAR ONE

Quarter One	Credits
ELECT CMST1, CMST& 220, Public Speaking (O)**	3 - 5
EV 286, Winemaking Practicum	3
ENGL& 101, English Composition I (W)	5
EV 203, Science of Winemaking I	3
Total Credits	14-16

Quarter Two	Credits
EV Elective Offering(s)*	5
EV 287, Winemaking Practicum II	1
ELECT PSYC1, PSYC& 100, General Psychology (R)	3 - 5
EV 108, Wine Industry Marketplace (J)	3
EV 204, Science of Winemaking II	5
Total Credits	17-19

Quarter Three	Credits
EV Elective Offering(s)*	5
EV 288, Winemaking Practicum III	1
EV 193, Winery Operations Management	5
EV 205, Science of Winemaking III	5
Total Credits	16
Year One Total	47-51
Grand Total	47-51

EPC: 121E

Students must complete related instruction requirements in the following categories to receive a certificate: Written Communications, Computation/Mathematics, Human Relations. Students must complete the Viticulture Science Certificate before completing the Fermentation Science Certificate.

ENOLOGY AND VITICULTURE

*EV elective offerings: AGPR 105, Weed Biology and Identification; CUL 210, Wine with Food; and/or any EV class 100 level or higher that is not already listed as part of the required EV program curriculum can be taken to fulfill the elective requirements. Up to two credits of EV 180 can be counted for elective credits. A total of ten elective credits must be met for degree completion.

** Students must complete related instruction requirements in the following categories to receive a certificate: Written Communications, Computation/Mathematics, Human Relations. Students must complete all six related instruction categories for the degree.

Prerequisite: Students must complete the Viticulture Science Certificate before completing the Fermentation Science Certificate.

The following courses meet the related instruction requirements of this certificate/degree (one course per category required):

(J) - EV 108

(W) - ENGL& 101

(O) - CMST 102, ELECT CMST1, OCSUP 102

(R) - BUS 102, BUS 157, ELECT PSYC1, OCSUP 101, PSYC 111

Viticulture Science Certificate

This certificate is equivalent to the first year of the AAAS Degree in Enology and Viticulture, which is dedicated to the science of wine making. Students must complete related instruction requirements in the following categories to receive a certificate: Written Communications, Computation/Mathematics, Human Relations. Students must complete the Viticulture Science Certificate before completing the Fermentation Science Certificate.

Certificate Outcomes:

- Plan and equip a new vineyard, propagate grape vines, and provide post-planting care.
- Maintain the vineyard from the point of dormancy through the harvest.
- Recognize symptoms of vine disease and insect infestation as well as identify potential remedies.
- Produce an assortment of wine styles.
- Clean winery and wine equipment.

YEAR ONE

Quarter One Credits

AGPR 120, Agricultural Chemistry	5
AGPR 201, Basic Soil Science	5
EV 196, Viticulture Practicum I	1
EV 107, Introduction to Viticulture and Enology	5
WMGT 112C, Hydraulics and Soil	1
WMGT 112D, Plant Water Use	1
Total Credits	18

Quarter Two Credits

AGPR 114, Plant Physiology	5
AGPR 202, Soils Fertility and Management	5
EV 197, Viticulture Practicum II	1
EV 101, Establishing a Vinifera Vineyard	4
EV 299, Leadership	1
WMGT 220, Drip Irrigation	3
Total Credits	19

Quarter Three Credits

AGRI 211, Small Business Management	5
AGRI 215, Plant Diseases and Insects	5
EV 198, Viticulture Practicum III	1
EV 102, Maintaining a Vinifera Vineyard	5
MATH 065, Introductory Algebra (M)	5
Total Credits	21
Year One Total	58
Grand Total	58

* EV elective offerings: AGPR 105, Weed Biology and Identification; CUL 210, Wine with Food; and/or any EV class 100 level or higher that is not already listed as part of the required EV program curriculum can be taken to fulfill the elective requirements. Up to two credits of EV 180 can be counted for elective credits. A total of ten elective credits must be met for degree completion.

** Students must complete related instruction requirements in the following categories to receive a certificate: Written Communications, Computation/Mathematics, Human Relations. Students must complete all six related instruction categories for the degree.

Prerequisite: Students must complete the Viticulture Science Certificate before completing the Fermentation Science Certificate.

The following courses meet the related instruction requirements of this certificate/degree (one course per category required):

(M) - MATH 065

Associate in Applied Arts and Sciences Degree in Enology & Viticulture

This technical degree prepares the student for a variety of careers in vineyards (vineyard workers, crew leaders, managers, viticulturists) to wineries (winemakers, cellar workers, lab technicians, retail sales representatives).

Degree available at/via: [Walla Walla]

Degree Outcomes:

- Plan and equip a new vineyard, propagate grape vines, and provide post-planting care.
- Maintain the vineyard from the point of dormancy through the harvest.
- Recognize symptoms of vine disease and insect infestation as well as identify potential remedies.
- Produce an assortment of wine styles.
- Perform basic wine sensory evaluations.
- Clean winery and wine equipment.
- Monitor red and white wine fermentation.
- Chemically analyze wine.
- Perform post-fermentation cellar operations.
- Blend and age wines.
- Bottle and label wines.

Transferability: The AAAS Degree is designed primarily for students planning to enter their chosen career upon graduation. Only selected credits are considered transferable to public or private baccalaureate institutions in Washington State. However, students interested in studying Enology and Viticulture and continuing to a four-year institution may be able to adjust their coursework to facilitate this transfer.

YEAR ONE

Quarter One Credits

AGPR 120, Agricultural Chemistry ***	5
AGPR 201, Basic Soil Science	5
EV 196, Viticulture Practicum I	1
EV 107, Introduction to Viticulture and Enology	5
WMGT 112C, Hydraulics and Soil	1
WMGT 112D, Plant Water Use	1
Total Credits	18

ENOLOGY AND VITICULTURE - FARRIER SCIENCE

Quarter Two

Credits

AGPR 114, Plant Physiology	5
AGPR 202, Soils Fertility and Management	5
EV 197, Viticulture Practicum II	1
EV 101, Establishing a Vinifera Vineyard	4
EV 299, Leadership (L)	1
WMGT 220, Drip Irrigation	3
Total Credits	19

Quarter Three

Credits

AGRI 211, Small Business Management	5
AGRI 215, Plant Diseases and Insects	5
EV 198, Viticulture Practicum III	1
EV 102, Maintaining a Vinifera Vineyard	5
MATH 065, Introductory Algebra (M)*	5
Total Credits	21
Year One Total	58

YEAR TWO

Quarter One

Credits

ELECT CMST1, CMST& 220, Public Speaking (O)	3 - 5
EV 286, Winemaking Practicum I	3
ENGL& 101, English Composition I (W)	5
EV 203, Science of Winemaking I	3
Total Credits	14-16

Quarter Two

Credits

EV Elective Offering(s)**	5
EV 287, Winemaking Practicum II	1
ELECT PSYC1, PSYC& 100, General Psychology (R)	3 - 5
EV 108, Wine Industry Marketplace (J)	3
EV 204, Science of Winemaking II	5
Total Credits	17-19

Quarter Three

Credits

EV Elective Offering(s)**	5
EV 288, Winemaking Practicum III	1
EV 193, Winery Operations Management	5
EV 205, Science of Winemaking III	5
Total Credits	16
Year Two Total	47-51
Grand Total	105-109

EPC: 121

*Students must complete related instruction requirements in the following categories to receive a certificate: Written Communications, Computation/Mathematics, Human Relations. Students must complete all six related instruction categories for the degree.

Prerequisite: Students must complete the Viticulture Science Certificate before completing the Fermentation Science Certificate.

** EV elective offerings: AGPR 105, Weed Biology and Identification; CA 133, Food and Wine/Beverage; and/or any EV class 100 level or higher that is not already listed as part of the required EV program curriculum can be taken to fulfill the elective requirements. Up to two credits of EV 180 can be counted for elective credits. A total of ten elective credits must be met for degree completion.

*** Students may take either AGPR 120, Agricultural Chemistry or CHEM& 110, Chemical Concepts with Lab.

The following courses meet the related instruction requirements of this certificate/degree (one course per category required):

(J) - EV 108

(W) - ENGL& 101

(L) - EV 299

(M) - MATH 065

(O) - CMST 102, ELECT CMST1, OCSUP 102

(R) - BUS 102, BUS 157, ELECT PSYC1, OCSUP 101, PSYC 111

Environmental Studies

<http://www.wvcc.edu/environmentalstudies>

Program available at/via: [Walla Walla]

Department Overview: Environmental Sciences studies the physical makeup and history of the Earth to protect the environment. Students develop an understanding of the properties of underground and surface waters, how to locate water and energy resources, and environmental assessment procedures.

Program Level Outcomes:

- An understanding of discipline specific terminology and methods.
- An ability to correctly use discipline specific tools and /or techniques.
- Critical thinking skills necessary in science including appropriate study techniques, problem solving skills and the use of data to assess the validity of claims.
- The ability to research, interpret and communicate concepts obtained from scientific literature.
- An understanding of the relationships between course concepts and society, including the impact of course specific technology.

Farrier Science

CERT, AAAS

<http://www.wvcc.edu/farrier>

Jeffrey Engler

509.527.4291 jeffrey.engler@wvcc.edu

Program available at/via: [Walla Walla]

Department Overview: Farrier Science prepares students as professional, trained farriers able to work on most types of horses. A combination of classroom and lab coursework focuses on equine anatomy as it pertains to farrier science, conformation fault analysis, disease, leg and hoof lameness and corresponding therapeutic measures. Upon program completion the farrier will have gained sufficient knowledge of the anatomy of the horse's leg and the practiced experience to retain true gaits of horses, improve or correct faulty gaits, alleviate disorders of the feet, and provide relief for the injured limb or hoof. Techniques are practiced on local, privately owned horses, providing students the chance to work with horse owners in a business setting. The Farrier Science curriculum complies with standards set by the American Farriers' Association and is reviewed by an advisory board composed of local and regional industry members.

Program Level Outcomes:

- Implement competency-based education, skill standards, and program certification.
- Create and maintain a marketing plan related to student recruitment.
- Update facilities with consideration for function and appearance.

FARRIER SCIENCE

Degrees: Students may earn an Associate in Applied Arts and Sciences Degree in Farrier Science upon completion of the two-year program of study. This degree prepares students to take the American Farriers Association (AFA) Certified Farrier Examination. A Farrier Science Certificate is available upon completion of the first year of the program. This certificate prepares students to take the American Farriers Association Intern Test.

Industry Description: Farriers are trained in the art and science of trimming and shoeing horses of all breeds. They trim the hoof to remove extra growth and to align the bone structure of the leg so it meets the ground squarely. The process that farriers use involves removing the old shoe, cleaning out the dead exfoliating material, and then using nippers to remove excess hoof wall growth. The foot is then made flat using the rasp. Horse shoes are shaped to fit the hoof and nailed on. Due to popularity and diverse uses of horses, there is a steady demand for qualified farriers throughout the world.

Entrance Requirements: It is recommended that the student contact the lead instructor regarding appropriate program placement and paying a priority list fee to determine specific quarter start in the program. Students may enter the program fall, winter or spring quarter, however, due to course sequencing it is recommended to begin in the fall. A placement test offered by the Student Development Center must be completed prior to admittance to the program.

Other Information: For additional information including regional employment data, completion rates, student characteristics, and employment see <http://www.wtb.wa.gov/etp>.

Degrees and Certificates

Farrier Science Certificate

This certificate is equivalent to the first year of the AAAS Degree in Farrier Science.

Certificate available at/via: [Walla Walla]

Certificate Outcomes:

- Competently do a basic horseshoeing job.
- Apply basic remedial shoes.
- Trim a horse's hooves.
- Make and apply therapeutic shoes.
- Apply hand made shoes with clips.

YEAR ONE

Quarter One	Credits
ART 115, Drawing for Farrier Science	1
FRR 194, Basic Shoeing	18
OCSUP 106, Applied Mathematics I (M)	5
Total Credits	24

Quarter Two	Credits
BIOL 170, Applied Equine Biology	3
FRR 195, Intermediate Shoeing	18
WRITE 100, Applied Writing (W)	3
Total Credits	24

Quarter Three	Credits
FRR 197, Advanced Shoeing	18
FRR 162, Small Business Management for Farriers	2
FRR 299, Leadership (L)	1
OCSUP 101, Job Psychology: Workplace and Educational Success Skills (R) 3	
Total Credits	24
Year One Total	72
Grand Total	72

EPC: 120C

The following courses meet the related instruction requirements of this certificate/degree (one course per category required):

- (J) - AGPR 100, OCSUP 103
- (W) - BUS 137, ENGL 097, WRITE 100
- (L) - FRR 299, OCSUP 299
- (M) - BUS 112, MATH 049, OCSUP 106
- (O) - CMST 102, CMST& 220, OCSUP 102
- (R) - BUS 157, OCSUP 101, PSYC 111, PSYC& 100

Associate in Applied Arts and Sciences Degree in Farrier Science

This technical degree prepares the student for immediate employment in the farrier industry. It may be utilized by individuals planning to enter their chosen career upon graduation or for the individual who is interested in improving current skills and knowledge.

Degree available at/via: [Walla Walla]

Degree Outcomes:

- Competently do a basic horseshoeing job.
- Apply basic remedial shoes.
- Trim a horse's hooves.
- Make and apply therapeutic shoes.
- Apply hand made shoes with clips.

Transferability: The AAAS Degree is designed for students planning to enter their chosen career upon graduation. Often only selected credits are considered transferable to public or private baccalaureate institutions.

YEAR ONE

Quarter One	Credits
ART 115, Drawing for Farrier Science	1
FRR 194, Basic Shoeing	18
OCSUP 106, Applied Mathematics I (M)	5
Total Credits	24

Quarter Two	Credits
BIOL 170, Applied Equine Biology	3
FRR 195, Intermediate Shoeing	18
WRITE 100, Applied Writing (W)	3
Total Credits	24

Quarter Three	Credits
FRR 197, Advanced Shoeing	18
FRR 162, Small Business Management for Farriers	2
FRR 299, Leadership (L)	1
OCSUP 101, Job Psychology: Workplace and Educational Success Skills (R) 3	
Total Credits	24
Year One Total	72

FARRIER SCIENCE - FIRE SCIENCE

YEAR TWO

Quarter One

	Credits
FRR 245, Advanced Hoof Preparation and Shoeing	16
OCSUP 102, Oral Communication in the Workplace (O)	3
Total Credits	19

Quarter Two

	Credits
FRR 255, Advanced Forging - Homemade Shoe Unit	16
OCSUP 103, Job Seeking Skills (J)	3
Total Credits	19

Quarter Three

	Credits
FRR 283, Therapeutic Shoeing	16
Total Credits	16
Year Two Total	54
Grand Total	126

EPC: 120

The following courses meet the related instruction requirements of this certificate/degree (one course per category required):

(J) - AGPR 100, OCSUP 103

(W) - BUS 137, ENGL 097, WRITE 100

(L) - FRR 299, OCSUP 299

(M) - BUS 112, MATH 049, OCSUP 106

(O) - CMST 102, CMST& 220, OCSUP 102

(R) - BUS 157, OCSUP 101, PSYC 111, PSYC& 100

Fire Science

CERT, AAAS

<http://wwcc.edu/fire>

Bradley Mason

509.527.4579 bradley.mason@wwcc.edu

Program available at/via: [Walla Walla] [Online (partial)]

Department Overview: Fire Science provides students with the fundamental knowledge and skills required to function as an entry-level firefighter. EMT training is included as an essential component of the curriculum. The program is designed on a two-year rotational basis, with each new group of students beginning the program on even numbered years. Fire Science courses are taught through a combination of lecture and cooperative training. Many students volunteer with local fire departments to gain more hands-on practice of their skills. WWCC works closely with local fire departments, the EMS system, and the state association in order to offer a quality program, and curriculum is reviewed by an advisory board composed of these local, state and regional industry members.

Program Level Outcomes:

- Support Fire Service Agencies in providing quality service to their communities through training and education.
- Ensure that all Walla Walla Community College Fire Science education courses reflect current industry standards.
- Promote a culture of health, safety, and welfare for all Fire Service personnel and the public they serve. Ensure "everyone goes home" as our overriding philosophy of fire training and education.
- Promote collaboration and sharing of training resources between agencies on a local and regional basis to more efficiently deliver fire training and education.
- Design curriculum which promotes articulation between degree levels and educational insitutions.

Degrees: Students may earn an Associate in Applied Arts and Sciences Degree in Fire Science upon completion of the two-year program of study. A Fire Science Certificate is available upon completion of the first year of the program. The first year prepares the student to take the Washington State Firefighter 1 Certificate Examination.

Industry Description: Every year, fires and other emergencies take thousands of lives and destroy property worth billions of dollars. Firefighters help protect the public against these dangers by rapidly responding to a variety of emergencies. They must be prepared to respond rapidly, regardless of the weather or hour. Firefighters have assumed a range of responsibilities, including emergency medical services; they rescue victims and provide emergency medical attention as needed, ventilate smoke-filled areas, and attempt to salvage the contents of buildings. They are frequently the first emergency personnel at the scene of a traffic accident or medical emergency and may be called upon to put out a fire, treat injuries, or perform other vital functions. Most calls to which firefighters respond involve medical emergencies, and about half of all fire departments provide ambulance service for victims. Firefighters receive training in emergency medical procedures, and many fire departments require them to be certified as emergency medical technicians (EMT). Firefighters work in a variety of settings, including urban and suburban areas, airports, chemical plants, other industrial sites, and rural areas like grasslands and forests. In addition, some firefighters work in hazardous materials units that are trained for the control, prevention, and cleanup of oil spills and other hazardous materials incidents.

Entrance Requirements: Students may begin their study in the Fire Science program in fall quarter of every even numbered year. Students who miss the fall enrollment period may take the EMT and general educational courses at any time and then take the fire related courses when the program begins again. A placement test offered by the Student Development Center must be completed prior to admittance to the program. Due to the nature of the work, students wishing to enroll in the Fire Science program must submit to a Washington State criminal background check.

Other Information: Students are encouraged to apply for positions in the sleeper program, in which lodging is provided in exchange for taking calls.

For additional information including regional employment data, completion rates, student characteristics, and employment see <http://www.wtb.wa.gov/etp>.

FIRE SCIENCE

Degrees and Certificates

Fire Science Certificate

This certificate is equivalent to the first year of the AAAS Degree in Fire Science.

Certificate available at/via: [Walla Walla] [Online (partial)]

Certificate Outcomes:

- Perform duties and responsibilities of a pump operator.
- Demonstrate knowledge of personal protective equipment, search and rescue techniques, health and safety, fire behavior, incident command systems, ladders and ventilation, and hazardous materials.
- Predict the behavior and potential harm of the material.
- Prepare to take the test for Level I firefighter conducted by the State Fire Protection Bureau.
- Describe and use a systematic approach to the examination of a fire scene.
- Understand sprinkler system operation, maintenance, and inspection.
- Describe strategic and tactical considerations associated with building construction types, materials, and components.
- Apply basic firefighting skills to a wildland/urban interface environment.
- Demonstrate the ability to deliver a public safety education lesson to a target audience using a prepared lesson plan and the four step method of instruction.

YEAR ONE

Quarter One	Credits
CMST& 220, Public Speaking (O)	5
FCA 100, Introduction to Firefighting (J)	4
WRITE 100, Applied Writing *	3
Total Credits	12
Quarter Two	Credits
FCA 111, Fundamentals of Firefighting	5
FCA 137, Fire Protection Systems	3
FCA 170, Hazmat Operations	3.0
MATH& 107, Math in Society (M)	5
Total Credits	16
Quarter Three	Credits
FCA 115, Advanced Firefighting	8
FCA 177, Wildland Fire Management	3
HO 130, Emergency Medical Technician - Basic (EMT-B) Program	10
Total Credits	21
Year One Total	49
Grand Total	49

EPC: 828C

*A student may substitute ENGL& 102, English Composition II for WRITE 100, Applied Writing.

The following courses meet the related instruction requirements of this certificate/degree (one course per category required):

(J) - FCA 100

(W) - ENGL& 101, ENGL& 102

(L) - FCA 299

(M) - MATH& 107

(O) - CMST 102, CMST& 220

(R) - PSYC& 100

Associate in Applied Arts and Sciences Degree in Fire Science

This technical degree provides the student the fundamental knowledge and skills required to function in a fire service setting as an entry-level firefighter.

Degree available at/via: [Walla Walla] [Online (partial)]

Degree Outcomes:

- Perform duties and responsibilities of a pump operator.
- Demonstrate knowledge of personal protective equipment, search and rescue techniques, health and safety, fire behavior, incident command systems, ladders and ventilation, and hazardous materials.
- Predict the behavior and potential harm of the material.
- Prepare to take the test for Level I firefighter conducted by the State Fire Protection Bureau.
- Describe and use a systematic approach to the examination of a fire scene.
- Understand sprinkler system operation, maintenance, and inspection.
- Describe strategic and tactical considerations associated with building construction types, materials, and components.
- Apply basic firefighting skills to a wildland/urban interface environment.
- Demonstrate the ability to deliver a public safety education lesson to a target audience using a prepared lesson plan and the four step method of instruction.

Transferability: The AAAS Degree is designed for students planning to enter their chosen career upon graduation. Often only selected credits are considered transferable to public or private baccalaureate institutions.

YEAR ONE

Quarter One	Credits
CMST& 220, Public Speaking (O)	5
FCA 100, Introduction to Firefighting (J)	4
WRITE 100, Applied Writing *	3
Total Credits	12
Quarter Two	Credits
FCA 111, Fundamentals of Firefighting	5
FCA 137, Fire Protection Systems	3
FCA 170, Hazmat Operations	3.0
MATH& 107, Math in Society (M)	5
Total Credits	16
Quarter Three	Credits
FCA 115, Advanced Firefighting	8
FCA 177, Wildland Fire Management	3
HO 130, Emergency Medical Technician - Basic (EMT-B) Program	10
Total Credits	21
Year One Total	49

YEAR TWO

Quarter One	Credits
CHEM& 110, Chemical Concepts with Lab	5
ENGL& 101, English Composition I (W)	5
FCA 105, Hydraulics	3
FCA 152, Building Construction	3
Total Credits	16

FIRE SCIENCE - GEOGRAPHY

Quarter Two

	Credits
CS 110, Introduction to Computers and Applications	5
FCA 120, Fire Investigation	3
FCA 190, Uniform Fire Codes and Inspections	4
PSYC& 100, General Psychology (R)	5
Total Credits	17

Quarter Three

	Credits
FCA 285, Public Safety Educator I	2
FCA 160, Fire Tactics I	3
FCA 299, Leadership (L)	3
SOC& 101, Introduction to Sociology	5
Total Credits	13
Year Two Total	46
Grand Total	95

EPC: 828

*A student may substitute ENGL& 102, English Composition II for WRITE 100, Applied Writing.

The following courses meet the related instruction requirements of this certificate/degree (one course per category required):

(J) - FCA 100

(W) - ENGL& 101, ENGL& 102

(L) - FCA 299

(M) - MATH& 107

(O) - CMST 102, CMST& 220

(R) - PSYC& 100

French

<http://www.wvcc.edu/french>

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Program available at/via: [Walla Walla]

Department Overview: The study of a modern language is a way of expanding one's horizons while developing specific linguistic skills that will enhance career, academic, and travel opportunities. One of the many benefits derived from modern-language study is the ability to transcend linguistic and cultural parochialism. To understand the uniqueness of one's own language and civilization, knowledge of another culture is essential. Language study is the key that unlocks the mysteries surrounding a foreign people. Through language, one is able to explore their literature, art, history, and philosophy-in short, their way of life.

Program Level Outcomes:

- An aesthetic and intellectual comprehension of culturally and linguistically diverse works in literature, philosophy, visual and performing arts, including film and music.
- An understanding and working knowledge of terminology commonly used in the humanities.
- An appropriate level of creativity, discipline, and technique in the production of assigned work in the humanities.

Degrees: Students may earn an Associate in Arts AA-DTA degree (90 credits) which is designed for students planning to transfer to a baccalaureate institution with junior standing. Students pursuing this degree should meet with an academic advisor at WVCC and an advisor at their intended baccalaureate institution to determine an appropriate educational plan. (See AA-DTA in Degrees section of catalog).

Entrance Requirements: There is no prerequisite for FREN& 121. The series of French courses numbered FREN& 122 and above are a set of sequentially designed courses and must be taken in order (unless the student has received written permission to deviate from that order from the French instructor).

Preparation for Success: Students can prepare for these careers by taking a broad range of courses that include English writing and comprehension, foreign languages, and basic computer proficiency. Other helpful pursuits include spending time abroad, engaging in comparable forms of direct contact with foreign cultures, and reading extensively on a variety of subjects in English and at least one other language. Beyond high school, there are many educational options. Although a bachelor's degree is often required, interpreters and translators note that it is acceptable to major in something other than a language. However, specialized training in how to do the work is generally required.

Other Information: Baccalaureate institutions vary considerably in their language requirements, especially schools within universities and college. Transfer students are advised to check requirements carefully when they plan their schedules.

Geography

<http://www.wvcc.edu/geography>

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Program available at/via: [Walla Walla]

Department Overview: Geography is an integrative discipline that unites the physical and social sciences in the study of people, places and the environment. Geography studies the where-and-why factors that shape our world and our lives in spatial terms.

Program Level Outcomes:

- An understanding of discipline specific terminology and methods.
- An ability to correctly use discipline specific tools and /or techniques.
- Critical thinking skills necessary in science including appropriate study techniques, problem solving skills and the use of data to assess the validity of claims.
- The ability to research, interpret and communicate concepts obtained from scientific literature.
- An understanding of the relationships between course concepts and society, including the impact of course specific technology.

Degrees: Students may earn an Associate in Arts AA-DTA degree (90 credits) which is designed for students planning to transfer to a baccalaureate institution with junior standing. Students pursuing this degree should meet with an academic advisor at WVCC and an advisor at their intended baccalaureate institution to determine an appropriate educational plan. (See AA-DTA in Degrees section of catalog).

GEOGRAPHY - GEOLOGY

Preparation for Success: A major in Geography is strengthened by studies in mathematics. The ability to utilize computers for research purposes is mandatory in most disciplines. Most geographers will also need to be familiar with GIS technology.

Geology

AS

<http://wwcc.edu/geology>

Steve May

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Program available at/via: [Walla Walla]

Department Overview: Geology is the study of the materials, processes, and evolutionary development of the Earth. Geologic understanding of the Earth is obtained by geoscientists working in a range of disciplines. Examples of the areas of study are: Mineralogy - the study of Earth's naturally occurring minerals; Petrology - the study of rocks; Paleontology - the study of the history of life on Earth; Seismology - the study of Earthquakes; Volcanology - the study of volcanoes; Environmental Geology - the study of the interactions between humans and the geologic world; and Petroleum Geology - the study of fossil fuel resources and their development.

The geology courses offered will serve students interested in pursuing geology as a major, as well as general students taking the courses to fulfill the Natural Sciences requirement for graduation with an AA or AS degree.

Program Level Outcomes:

- An understanding of discipline specific terminology and methods.
- An ability to correctly use discipline specific tools and /or techniques.
- Critical thinking skills necessary in science including appropriate study techniques, problem solving skills and the use of data to assess the validity of claims.
- The ability to research, interpret and communicate concepts obtained from scientific literature.
- An understanding of the relationships between course concepts and society, including the impact of course specific technology.

Degrees: Students may earn an Associate in Science Degree - Option I (90 credits) which is designed to prepare students for upper division study in geology. Please consult with an advisor at WWCC and your intended transfer institution to determine an appropriate education plan.

Preparation for Success: Students interested in a major in Geology should take additional courses in chemistry, physics and mathematics. Students considering Environmental Geology should also take courses in environmental science, biology and ecology.

Degrees

Associate in Science Degree - Option I (Geology)

Recommended two-year schedule (Option I). For other degree information, students should check with their advisors, transfer center staff, and college degree guidelines. Students should also note that it is extremely important to begin sequential courses in the fall since those courses are typically offered one quarter per year.

Transferability: For transfer information at specific institution and/or programs consult with your advisor.

YEAR ONE

Quarter One	Credits
CHEM& 161, General Chemistry I with Lab	5
Physical Education Elective	1
MATH& 141, Precalculus I or approved elective	5
GEOL& 101, Introduction to Physical Geology	5
Total Credits	16

Quarter Two	Credits
CHEM& 162, General Chemistry II with Lab	5
MATH& 142, Precalculus II or approved elective	5
ENGL& 101, English Composition I	5
Total Credits	15

Quarter Three	Credits
CHEM& 163, General Chemistry III with Lab	5
Physical Education Elective	1
Humanities or Social Science Elective	5
Social Science Elective	5
Total Credits	16
Year One Total	47

YEAR TWO

Quarter One	Credits
Humanities Elective	5
PHYS 121, General Physics I or PHYS 201, Eng Physics	5
MATH& 151, Calculus I	5
Total Credits	15

Quarter Two	Credits
PHYS 122, General Physics II or PHYS 202, Eng Physics	5
GEOL& 103, Historical Geology	5
MATH& 152, Calculus II	5
Total Credits	15

Quarter Three	Credits
Approved Elective	2
Physical Education Elective	1
MATH& 153, Calculus III or MATH 201, Statistics	5
PHYS 123, General Physics III or PHYS 203, Eng Physics	5
Total Credits	13
Year Two Total	43
Grand Total	90

EPC: 004G

HEALTH SCIENCE EDUCATION - HISTORY

Health Science Education

Rebecca Manderscheid 509.527.4240 rebecca.manderscheid@wwcc.edu

Program available at/via: [Walla Walla] [Clarkston]

Department Overview: Walla Walla Community College's Health Science Cluster is an overview of medical career related programs and education courses offered at one or both WWCC campuses. Detailed information about each program is available at their individual web page.

The Health Science Cluster includes the following programs / courses:

- Nursing
- Medical Assisting
- Allied Health and Safety
- Nursing Assistant
- Spanish Medical Interpreter
- Phlebotomy
- Health Occupations Courses
- Industrial First Aid
- Emergency Medical Technician
- Cardiopulmonary Resuscitation
- Medical Laboratory Technician (in partnership with WVC)
- Alcohol and Chemical Dependency
- Fire Science
- Medical Administrative Assistant
- Medical Billing and Coding Clerk
- Medical Transcriptionist

Degrees: Degrees

- Associate Degree Nursing
- Medical Administrative Assistant

Certificates

- Medical Assisting
- Medical Transcriptionist
- Medical Billing and Coding Clerk

Short Term Certificates

- Phlebotomy
- Emergency Medical Technician-Basic
- Spanish Medical Interpreter

Industry Description: Because of the growing population and increased aging sector of our country, there is a demand for trained workers in a variety of health related occupations. The health care industry is experiencing shortages of qualified, competent healthcare workers. Health services jobs are listed as some of the most in-demand jobs with high future growth nationally, in the State of Washington, and in our local region.

Entrance Requirements: Most courses require a high school diploma or GED, and in some cases require an advanced level of certification or registration. Some areas do not require high school diploma or GED but have basic requirements such as reading, writing, and language proficiency requirements. Placement testing is required for all new WWCC students and specific healthcare programs may require additional placement tests. Nursing, Nursing Assistant, Phlebotomy, EMT-B, and Medical Assisting require a separate application for entry. Applications are available for download at program web pages, or they may be picked up in the Health Science Building Administrative lobby area.

Other Information: Many Programs are in high demand and waitlists may be expected, so please plan accordingly. Students should contact individual programs early and expect to follow separate application procedures. Information about applying can be found on each individual department website (see links above).

High School Completion

<http://www.wwcc.edu/highschool>

Gary Benefiel

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Program available at/via: [Walla Walla]

Department Overview: The High School Completion program is offered for individuals 18 years or older and for those whose high school class has graduated. The purpose is re-entry into the educational system for individuals who desire a high school diploma.

Degrees: Each student will be assessed and advised of program options based upon individual student needs and goals.

History

<http://wwcc.edu/history>

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James Bower- Clk

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Program available at/via: [Walla Walla] [Clarkston]

Department Overview: History is the study of past human experiences. Only by learning about that past can we come to know the fullness of humankind's ideas and actions, tragedies, and triumphs. But, while we learn of the past, we are also learning about the present. The History department at WWCC provides courses to meet general education needs in the first two years of a college career in American history and World history. In addition to these introductory courses specialty courses are offered in a number of different areas. These courses have no academic prerequisites and are open to all interested persons.

Program Level Outcomes:

- The ability to analyze past and present society, diverse cultures and histories to better understand individual and group behavior and enhance self awareness.

HISTORY- INDUSTRIAL FIRST AID

- An understanding and working knowledge of the theories, concepts, ideas, terminology, and factual evidence in selected fields within the social sciences.
- Sensitivity in understanding diverse views and perspectives.
- An understanding of the historically and socially constructed nature of human differences.

Degrees: Students may earn an Associate in Arts AA-DTA degree (90 credits) which is designed for students planning to transfer to a baccalaureate institution with junior standing. Students pursuing this degree should meet with an academic advisor at WWCC and an advisor at their intended baccalaureate institution to determine an appropriate educational plan. (See AA-DTA in Degrees section of catalog).

Preparation for Success: History is a study that emphasizes interpreting past human experiences through evidence such as written record and cultural materials. As such it is a useful to take additional courses in the social sciences and humanities. Strong research and writing skills are required for success in this discipline.

Humanities

<http://wwcc.edu/humanities>

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Program available at/via: [Walla Walla] [Clarkston]

Department Overview: Humanities courses (those with a HUM designation) focus on a blend of topics in art, philosophy, history, religion, music, theatre, film, literature, and architecture. Many of these topics are also found in specialized courses (literature, philosophy, music, art, and theatre) but courses with the HUM designation always involve more than one of these topics and often include material in cultural studies.

Program Level Outcomes:

- Demonstrates a comprehension of culturally diverse works in the humanities.
- Demonstrates an understanding and working knowledge of terminology commonly used in the humanities.
- Demonstrates an appropriate level of creativity, discipline, and technique in the production of assigned work in the humanities.

Degrees: Students may earn an Associate in Arts AA-DTA degree (90 credits) which is designed for students planning to transfer to a baccalaureate institution with junior standing. Students pursuing this degree should meet with an academic advisor at WWCC and an advisor at their intended baccalaureate institution to determine an appropriate educational plan. (See AA-DTA in Degrees section of catalog).

Industrial First Aid

<http://wwcc.edu/alliedhealth>

Brad Mason

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Department Overview: The purpose of Allied Health and Safety Education (AHSE) is to create a learning environment to support a variety of educational, personal enrichment, and career development goals in the field of health and safety. The clientele served by AHSE comprise a wide age group at a variety of educational levels and differing learning outcomes that range from obtaining and maintaining job skills, training for new careers, and personal growth.

Degrees: The Allied Health and Safety Education department provides a wide variety of public and health education programs which include: Medic First Aid, First Responder, Emergency Medical Technician (EMT-B and ILS), CPR for Healthcare Providers, Nursing Assistant, Fundamentals of Caregiving, Phlebotomy, Medical Assisting, Chemical Dependency Counseling, Fire Science and distance learning program partnerships in Medical Laboratory Technology (Wenatchee Valley College) and Physical Therapy Assistant (Whatcom Community College).

The Nursing Assistant program provides training in basic nursing care under state and federal guidelines. The Phlebotomy Technician course is offered on an annual basis during spring quarter. The following is a list of courses offered to help students obtain necessary state requirements and/or provide enrichment for increased information: Nursing Assistant Training Program, Fundamentals of Caregiving-Basic, Fundamentals of Caregiving-Modified, Nurse Delegation, Introduction to Health Services, Phlebotomy, AIDS Education, AIDS/Bloodborne Pathogens Training, Chemical Dependency Counseling Education, OTEP Training, Medic First Aid, Medic First Aid Recertification, and CPR (Heartsaver, Healthcare Provider, Pediatric-Basic), CPR Instructor Certification and Recertification.

The Allied Health and Safety Education Department also offer a variety of Healthcare Education training opportunities for professional to include: Pharmacology, Basic Arrhythmias, 12 Lead ECG, Physical Assessment, and continuing education conferences.

Industry Description: Because of the growing population and increased aging sector of our country, there is a demand for trained workers in a variety of health related occupations. The health care industry is experiencing shortages of qualified, competent health care workers. Health service jobs represent the fastest growth categories in the State of Washington.

Entrance Requirements: Most courses require a high school diploma or GED, and in some cases require an advanced level of certification or registration. Some areas do not require high school diploma or GED but have basic requirements such as reading, writing, and language proficiency requirements.

JOHN DEERE DEALERSHIP MANAGEMENT

John Deere Dealership Management

AAAS

<http://wwcc.edu/johndeeremanagement>

Debora Frazier

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Program available at/via: [Walla Walla]

Department Overview: The John Deere Dealership Management program is designed to enhance the competence and professionalism of new employees at John Deere dealerships. In cooperation with John Deere dealers, this program provides students an opportunity to develop an understanding of agribusiness topics such as sales, marketing, management, and finance; agricultural science topics such as soil science and crop production; and mechanical information about John Deere products. Students gain knowledge through classroom lectures and discussions, and laboratory and shop experiences. Further development of skills occurs through cooperative training at sponsoring dealerships. Some distance delivery courses are available. The curriculum was designed and is maintained with input from an advisory committee of local and regional dealership employees and John Deere personnel.

Program Level Outcomes:

- Implement competency-based education, skill standards, and program certification.
- Create and maintain a marketing plan related to student recruitment.
- Update facilities with consideration for function and appearance.

Degrees: Students may earn an Associate in Applied Arts and Sciences Degree in John Deere Dealership Management upon completion of the first two years of this four-year degree path program.

Industry Description: The John Deere Company is a worldwide leader in machinery manufacturing. It envisions the need for highly trained technicians to repair and maintain the world's most sophisticated farm machinery. The John Deere Company has been innovative in the training and recruitment of prospective employees due to the need for trained Management, Marketing, Sales, and Service Technician personnel to work in dealerships in the United States and throughout the world. In an effort to meet this demand, partnerships have been developed with educational institutions.

Entrance Requirements: Students can enter this program during any quarter. Since considerable time is spent at the dealership, the program requires the student to have a sponsoring dealer. The main responsibility of the dealership is to provide training-related employment for the student during work experience quarters. If necessary, students can request assistance in locating a sponsoring dealer. A placement test offered by the Student Development Center must be completed prior to admittance to the program.

Degrees

Associate in Applied Arts and Sciences Degree in John Deere Dealership Management

This technical degree allows the student to earn an Associate in Applied Arts and Sciences Degree, and then transfer to Washington State University to complete a Bachelor of Science Degree. John Deere Dealership Management students receive an education in Management and Technology along with specialized, paid on-the-job internships in technical and business management duties at a participating dealership.

Degree available at/via: [Walla Walla]

Degree Outcomes:

- Use Service Advisor electronic parts and technical manuals.
- Perform basic engine diagnostic procedures and tune up.
- Make proper ballasting adjustments to a tractor depending on type of implement, field conditions, and customer needs.
- Set up and summarize daily and annual records and prepare financial statements for financial analysis and credit applications.
- Show knowledge of field crop culture, production management, pest management, diseases, marketing and use of agronomic crops important to the economy of the Pacific Northwest.
- Identify and apply management tools used to measure business performance.
- Use Microsoft Office software.
- Explain proper maintenance procedures on hydraulic systems.
- Prepare and orally deliver a sales presentation to a prospect which includes appropriate techniques for opening, presenting product, handling objections and closing.
- Troubleshoot row crop planters, grain drill planters, and monitoring systems.
- Adjust various types of harvesting equipment for maximum productivity.

Transferability: The AAAS Degree is designed for students planning to enter their chosen career upon graduation. Often only selected credits are considered transferable to public or private baccalaureate institutions. An articulation agreement between WWCC and WSU gives students who complete this degree junior transfer status for completion of the Bachelor of Science Degree in Agriculture.

YEAR ONE

Quarter One	Credits
AGPR 201, Basic Soil Science	5
AGPR 299, Leadership (L)	1
BIOL& 100, Survey of Biology ^^^	5
ENGL& 101, English Composition I (W)*	5
JDAS 101, John Deere Fundamentals and Orientation	1
JDAS 110, John Deere Theory of Engine Operations	2
JDAS 135, John Deere Tractor Performance	1
Total Credits	20

For the most current information see: www.wwcc.edu

J.D. DEALERSHIP MANAGEMENT - J.D. TECHNOLOGY

Quarter Two

JDAS 190, Cooperative Work Experience I	16
Total Credits	16

Quarter Three

AGRI 211, Small Business Management ****	5
CMST& 220, Public Speaking (O)	5
JDAS 115, John Deere Electrical	3
MATH 201, Introduction to Statistics (M)	5
PSYC& 100, General Psychology (R)	5
Total Credits	23

Quarter Four

JDAS 191, Cooperative Work Experience II**	16
Total Credits	16
Year One Total	75

YEAR TWO

Quarter One

AGPR 100, Orientation to Agriculture (J)	3
AGRI 201, Microeconomics in Agriculture	5
Animal Science or Water Management Elective****	5
Humanities Elective	5
Social Science Elective^	5
JDAS 205, John Deere Hydraulics	3
Total Credits	26

Quarter Two

AGRI 210, Agricultural Sales and Service	3
AGRI 221, Agricultural Marketing	5
ECON& 202, Macroeconomics	5
Humanities Elective	5
JDAS 290, JD Co-op**	3
Total Credits	21

Quarter Three

AGPR 140, Agriculture Safety and Health ***	3
AGPR 215, Field Crop Production ^^	5
AGRI 222, Agricultural Policy	5
JDAS 221, Ag Management Solutions	2
JDAS 230, John Deere Harvesting Equipment	2
Total Credits	17
Year Two Total	64
Grand Total	139

EPC: 110B

While the student is attending WWCC, they may elect to also take courses through WSU's distance education program. This will allow the student to earn required upper division courses at WSU and meet some of the general education requirements. If the student has not completed these credits before attending WSU's campus they may extend the length of time required to complete his/her degree. The distance education courses through WSU include: GenEd 110, GenEd 111, Soils 360 and ENG 402.

* Depending upon placement test results, the student may need to take lower level math and/or English courses before enrolling in required courses. This will extend the amount of time needed to complete this degree.

** JDAS 290 is listed during Winter Quarter but the work experience will take place in two separate periods for a total of 4 weeks. The first period (3 weeks in length) will begin at the end of Fall Quarter. The second work experience (one week in length) will take place during Spring Break.

*** AGPR 140, Agriculture Safety and Health or EST 144, Industrial Safety in the Workplace will meet the safety requirement.

**** Animal Science or Water Management Elective: Students may take either AGPR 110, 111, 112, 116, 216, or WMGT 112.

***** Students may either take AGRI 211, Small Business Management or AGRI 220, Agricultural Finance.

^ Social Science Elective: Students may take any PSYC/HIST/SOC/ANTH course that fulfills AA degree requirements.

^^ Students may take either AGPR 215, Field Crop Production or AGRI 215, Plant Diseases and Insects.

^^^ Students may either take BIOL& 100, Survey of Biology or BIOL& 211, Majors Cellular.

The following courses meet the related instruction requirements of this certificate/degree (one course per category required):

(J) - AGPR 100

(W) - ENGL& 101

(L) - AGPR 299

(M) - MATH 201

(O) - CMST& 220

(R) - PSYC& 100

John Deere Technology

AAAS

<http://wwcc.edu/johndeere>

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Program available at/via: [Walla Walla]

Department Overview: The John Deere Tech program is an educational experience designed to upgrade the technical competence and professional skills of incoming John Deere employees and enhance the skills of existing John Deere personnel. The program consists of classroom lecture and laboratory experiences on actual John Deere products and includes a unique paid cooperative work experience for students at a John Deere dealership. The curriculum was designed in partnership with the John Deere Corporation and is maintained with input from an advisory committee of local and regional dealership employees and John Deere personnel.

Program Level Outcomes:

- Implement competency-based education, skill standards, and program certification.
- Create and maintain a marketing plan related to student recruitment.
- Update facilities with consideration for function and appearance.

Degrees: Students may earn an Associate in Applied Arts and Sciences Degree in John Deere Technology upon completion of the two-year program of study.

Industry Description: The John Deere Company is a worldwide leader in machinery manufacturing. It envisions the need for highly trained technicians to repair and maintain the world's most sophisticated farm machinery. The John Deere Company has been innovative in the training and recruitment of prospective employees due to the need for trained Management, Marketing, Sales, and Service Technician personnel to work in dealerships in the United States and throughout the world. In an effort to meet this demand, partnerships have been developed with educational institutions.

JOHN DEERE TECHNOLOGY

Entrance Requirements: Students can enter this program during the fall quarter each year or winter quarters of every even numbered year. Since considerable time is spent at the dealership, the program requires the student to have a sponsoring dealer. The main responsibility of the dealership is to provide training-related employment for the student during work experience quarters. If necessary, students can request assistance in locating a sponsoring dealer. A placement test and a mechanical reasoning test offered by the Student Development Center must be completed prior to admittance to the program.

Degrees

Associate in Applied Arts and Sciences Degree in John Deere Technology

This technical degree is a two-year mechanics program designed to upgrade the technical competence and professional level of the incoming dealer technician. The degree involves classroom lecture and laboratory experiences with John Deere products on the campus and a unique paid work experience for students at a John Deere sponsoring dealership.

Degree available at/via: [Walla Walla]

Degree Outcomes:

- Use Service Advisor electronic parts and technical manuals.
- Perform basic engine diagnostic procedure and tune up.
- Diagnose electrical problems.
- Diagnose and safely repair air conditioning systems.
- Repair and adjust John Deere fuel systems.
- Rebuild John Deere gas and diesel engines.
- Make proper ballasting adjustments to a tractor depending on type of implement and field.
- Repair various hydraulic components by using a technical manual.
- Disassemble, assemble, and test all types of John Deere agricultural power train components.
- Build, repair, and diagnose circuits in each application.
- Troubleshoot row crop planters, grain drill planters, and monitoring systems.
- Adjust various types of harvesting equipment for maximum productivity.
- Repair various hydraulic controlled transmissions, hydraulic valves, and controllers.

Transferability: The AAAS Degree is designed for students planning to enter their chosen career upon graduation. Often only selected credits are considered transferable to public or private baccalaureate institutions.

YEAR ONE

Quarter One	Credits
AGPR 140, Agriculture Safety and Health *	3
JD 101, John Deere Fundamentals and Orientation	3
JD 102, Forklift Safety Training and Certification	1
JD 110, John Deere Theory of Engine Operations	3
JD 130, John Deere Engine Repair	6

JD 135, John Deere Tractor Performance	3
OCSUP 102, Oral Communication in the Workplace (O)	3
Total Credits	22

Quarter Two	Credits
JD 190, Cooperative Work Experience I	16
JD 192, Cooperative Seminar I (R)	2
Total Credits	18

Quarter Three	Credits
JD 115, John Deere Electrical	8
JD 120, John Deere Heating and Air Conditioning	4
JD 125, John Deere Diesel and Gasoline Fuel Systems	4
MATH 049, Mathematics I (M)	5
Total Credits	21

Quarter Four	Credits
JD 191, Cooperative Work Experience II	16
JD 193, Cooperative Seminar II (L)	2
Total Credits	18
Year One Total	79

YEAR TWO

Quarter One	Credits
JD 205, John Deere Hydraulics	9
JD 210, John Deere Power Train	9
WELD 141, Welding Basics	4
WRITE 100, Applied Writing (W)	3
Total Credits	25

Quarter Two	Credits
JD 290, Cooperative Work Experience III	16
Total Credits	16

Quarter Three	Credits
AGPR 100, Orientation to Agriculture (J)	3
JD 215, John Deere Cab/Chassis Electrical and Electronics	4
JD 221, Ag Management Solutions	2
JD 225, John Deere Planting Equipment	3
JD 230, John Deere Harvesting Equipment	4
JD 235, John Deere Advanced Hydraulics II	4
JD 240, John Deere Advanced Power Training II	4
Total Credits	24
Year Two Total	65
Grand Total	144

EPC: 125J

* AGPR 140, Agriculture Safety and Health or EST 144, Industrial Safety in the Workplace will meet the safety requirement.

The following courses meet the related instruction requirements of this certificate/degree (one course per category required):

(J) - AGPR 100, OCSUP 103, PSYC 140

(W) - BUS 137, ENGL 097, ENGL& 101, WRITE 100

(L) - JD 193

(M) - MATH 049, OCSUP 106

(O) - CMST 102, CMST& 220, OCSUP 102

(R) - JD 192

MATHEMATICS - MEDICAL ASSISTING

Mathematics

<http://wwcc.edu/math>

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Program available at/via: [Walla Walla] [Clarkston] [Online (partial)]

Department Overview:

Mathematics is important in virtually every field of study. The purpose of the mathematics department is to offer courses to a wide variety of students. The courses offered in the math department are meant to satisfy the needs of both majors and non-majors in mathematics. They provide basic instruction for students interested in a broad educational experience.

The general student will find preparatory courses in introductory algebra, intermediate algebra, pre-calculus and traditional mathematics courses such as finite mathematics, calculus, and statistics. The department strives to offer learning experiences that reflect the latest current teaching methodologies and implements current technological innovations and tools.

Program Level Outcomes:

- The ability to analyze problems to determine what mathematical principles apply.
- Logical reasoning and mathematical principles to solve problems.
- An ability to interpret information and reasoning expressed mathematically (symbols, tables, graphs, formulas, etc.).
- The ability to communicate mathematical information effectively.
- Mathematical skills in critical thinking and reasoning.

Degrees: Students may earn an Associate in Arts degree (90 credits) or an Associate in Math Education (for students planning to teach high school math) which are both designed to prepare students for upper division study in math. Please consult with an advisor at WWCC and your intended transfer institution to determine an appropriate education plan.

Entrance Requirements: Students must take a placement test to determine enrollment level.

Preparation for Success: High school students interested in a major in Mathematics should take four years of high school mathematics including a year of mathematics their senior year. Those planning to take a math course in college should also take a full year of mathematics as a senior. Taking four years of math is highly recommended for all high school students.

Other Information: The Tutoring and Learning Center is a great place for students to work one-on-one with a tutor to review their math in any course at the College. Students can also work on math, whether or not they need help. It is a comfortable and supportive atmosphere for students to come together and study, in groups or individually.

Medical Assisting

CERT

<http://www.wwcc.edu/medicalassisting>

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Program available at/via: [Walla Walla] [Clarkston] [Online (partial)]

Department Overview: The Medical Assisting program prepares students for a career as a Medical Assistant. The program combines instruction in core courses directed toward all healthcare providers with courses specific to Medical Assisting. Completion of the Medical Assisting program will provide the student with the necessary knowledge and skills to succeed in an entry level position in Medical Assisting. Medical Assisting courses will combine cognitive learning and practice of psychomotor skills in classroom and laboratory settings. Clinical training through internships in local outpatient clinics and physician offices will allow students to observe and practice skills gained in the classroom and laboratory in actual healthcare settings.

Medical Assistants are skilled professionals who have specific training to work in a physician's office or a clinic. Medical Assistants perform administrative functions and basic clerical skills, including writing business letters, compilation and filing of patient records, medical insurance coding and processing third party reimbursement, transcription, reception, and preparing requisitions. Additionally, Medical Assistants are trained in many clinical skills, including obtaining vital signs, sterile technique, assisting physicians with diagnostic testing, minor surgical procedures and physical examinations, administering medications orally and via injection, laboratory procedures, phlebotomy, and processing/sterilization of medical equipment by autoclaving or other methods of disinfection.

Program Level Outcomes:

- The Medical Assisting graduate will be able to apply the fundamental knowledge base acquired in medical assisting courses to safely, efficiently, and accurately perform clinical and administrative competencies.
- The Medical Assisting student will use knowledge gained in interrelationship and social science courses to assist him/her in being able to communicate with patients and other members of their healthcare team with sensitivity to cultural, legal and ethical implications.
- The Medical Assisting student will integrate knowledge gained in medical assisting courses to prepare for and assist with medical emergencies.
- The Medical Assisting student will use technology skills, including computer hardware and software, in the performance of clinical and administrative competencies.

MEDICAL ASSISTING

- The Medical Assisting student will employ appropriate medical terminology to communicate professionally and accurately in the clinic setting, both verbally and in their documentation.
- The Medical Assisting student will demonstrate professionalism in all of their courses and as they relate to the practice of medical assisting on their personal, institutional, local, state, and national levels.
- The Medical Assisting student will be prepared to enter the profession competently, as entry-level medical assistants in the cognitive (knowledge), psychomotor (skills), and affective (behavior) learning domains.

Degrees: The Medical Assisting Program may be completed in four quarters of full time study, consisting of 62.5 credits of programmatic and related instruction. These courses will combine cognitive learning and practice of psychomotor skills in classroom and laboratory settings. Clinical training through internships in local outpatient clinics and physician offices will allow students to observe and practice skills gained in the classroom and laboratory in actual healthcare settings.

Entrance Requirements: Depending upon placement testing, students may need to complete additional prerequisite coursework in computer and keyboarding skills. Students must have a high school diploma or GED prior to entering the program.

Degrees and Certificates

Medical Assisting Certificate

The Medical Assisting Program may be completed in four quarters of full time study, consisting of 61.5 credits of programmatic and related instruction. These courses will combine cognitive learning and practice of psychomotor skills in classroom and laboratory settings. Clinical training through internships in local outpatient clinics and physician offices will allow students to observe and practice skills gained in the classroom and laboratory in actual healthcare settings.

Certificate available at/via: [Walla Walla] [Clarkston]

Certificate Outcomes:

- The Medical Assisting graduate will be able to apply the fundamental knowledge base acquired in medical assisting courses to safely, efficiently and accurately perform clinical and administrative competencies.
- The Medical Assisting student will use knowledge gained in interrelationship and social science courses to assist him/her in being able to communicate with patients and other members of their healthcare team with sensitivity to cultural, legal and ethical implications.
- The Medical Assisting student will integrate knowledge gained in medical assisting courses to prepare for and assist with medical emergencies.
- The Medical Assisting student will use technology skills, including computer hardware and software, in the performance of clinical and administrative competencies.

- The Medical Assisting student will employ appropriate medical terminology to communicate professionally and accurately in the clinic setting, both verbally and in their documentation.
- The Medical Assisting student will demonstrate professionalism in all of their courses and as they relate to the practice of medical assisting on their personal, institutional, local, state and national levels.
- The Medical Assisting student will be prepared to enter the profession competently, as entry-level medical assistants in the cognitive (knowledge), psychomotor (skills), and affective (behavior) learning domains.

Other Information: Students must complete CS 100, Introduction to Microcomputers and OT 025 Keyboarding prior to entering the program.

YEAR ONE

Quarter One	Credits
MEDA 105, Health Occupations Mathematics (M)**	5
MEDA 110, Human Body Structure and Function in Health and Disease I	5
OT 280, Medical Terminology	5
WRITE 100, Applied Writing (W)	3
Total Credits	18

Quarter Two	Credits
CPR 051, Basic Life Support (BLS) for Healthcare Providers	4
HO 110, HIV/AIDS Education	7
HO 172, Pharmacology	2
HO 174, Transcultural Competency for Health Professionals	2
IFA 022, Medic First Aid Basic	4
MEDA 114, Therapeutic Relationships (R)	2
MEDA 120, Human Body Structure and Function in Health and Disease II	5
MEDA 140, Medical Law and Ethics	2
Total Credits	14.5

Quarter Three	Credits
MEDA 125, Clinical Procedures	10
MEDA 144, Medical Office Administrative Procedures *	5
MEDA 145, Office Emergencies for Medical Assistants	1
MEDA 149, Medical Insurance Procedures for Medical Assisting	5
Total Credits	21

Quarter Four	Credits
MEDA 191, Medical Assisting Practicum	7
MEDA 192, Medical Assisting Seminar (L)	2
Total Credits	9
Year One Total	62.5
Grand Total	62.5

EPC: 381

Students must demonstrate computer and keyboarding skills through placement testing or complete CS 100, Introduction to Microcomputers and OT 025 Keyboarding prior to entering the program.

** It is recommended students take MATH 050, Mathematics II before taking MEDA 105, Health Occupations Mathematics.

The following courses meet the related instruction requirements of this certificate/degree (one course per category required):

(W) - ENGL& 101, WRITE 100

(L) - MEDA 192

(M) - MEDA 105

(R) - MEDA 114

MUSIC - NURSING

Music

<http://wwcc.edu/music>

Jesse Burgess 509.527.1869 jesse.burgess@wwcc.edu
Thomas Simon 509.527.4690 thomas.simon@wwcc.edu

Program available at/via: [Walla Walla]

Department Overview: The Music department provides instruction in music appreciation and history, music theory, individual instrumental and vocal instruction, and solo and ensemble instrumental and vocal performance. These courses are designed for students who wish to develop a greater appreciation for music as well as those who plan to pursue a music degree at a four-year institution.

Program Level Outcomes:

- An aesthetic and intellectual comprehension of culturally and linguistically diverse works in literature, philosophy, visual and performing arts, including film and music.
- An understanding and working knowledge of terminology commonly used in the humanities.
- An appropriate level of creativity, discipline, and technique in the production of assigned work in the humanities.

Degrees: Students may earn an Associate in Arts AA-DTA degree (90 credits) which is designed for students planning to transfer to a baccalaureate institution with junior standing. Students pursuing this degree should meet with an academic advisor at WWCC and an advisor at their intended baccalaureate institution to determine an appropriate educational plan. (See AA-DTA in Degrees section of catalog).

Entrance Requirements: All students are welcome to enroll in music courses. Auditions may be required for some performance ensembles.

Preparation for Success: The WWCC Music Department offers a curriculum designed to meet the needs of students interested in majoring in music at a four-year institution, including first and second year music theory, music appreciation and history, individual instrumental and vocal instruction, and solo and ensemble instrumental and vocal performance.

Nursing

CERT, ADN

<http://wwcc.edu/nursing>

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Program available at/via:

[Walla Walla] [Clarkston]

Department Overview: The Nursing program at WWCC is approved by the Washington State Nursing Care Quality Assurance Commission: 310 Israel Rd., Tumwater, WA 98501, phone (360) 236-4700, (www.doh.wa.gov). The Nursing program is also accredited by the National League for Nursing Accrediting Commission (NLNAC): 61 Broadway, 33rd Floor, New York, NY 10006, phone (212) 363-5555 ext. 153, (www.nlnac.org).

Program Level Outcomes:

- Seventy percent or more of students who enter the program will earn at least one award, either PN or ADN, within four years of admission.
- Graduates will achieve a pass rate on the NCLEX examination at or above the national mean pass rate for first time takers.
- Ninety percent of the Nursing graduates will be employed in nursing and/or enrolled in a bachelor's degree program six months after graduation.
- Graduates will rate overall program satisfaction greater than or equal to 2.5 on a 1-4 point scale.
- All graduates will meet the WWCC Competencies for the Associate Degree in Nursing which are Critical Thinking, Caring, and Professional Behaviors.

Degrees: The Nursing program encompasses two professional levels of nursing: Practical Nursing and Associate Degree Nursing. The college also has an NA (Nursing Assistant) program (see Allied Health). Graduates, upon successful completion of the licensing examination, may practice at the designated level.

The Practical Nurse is able to recognize and meet the basic needs of the client while providing nursing care under the direction and supervision of a registered nurse or licensed physician in routine nursing situations. Students who complete the first year courses and additional coursework in the summer quarter are eligible to take the National Council Licensure Examination (NCLEX) for Practical Nursing. If successful, they are licensed as practical nurses (LPN).

The Associate Degree Nurse (ADN) utilizes the nursing process to provide and/or supervise client care while maintaining

NURSING

responsibility and accountability for the quality of nursing care provided in complex and varied situations. Graduates who complete the ADN program are eligible to take the National Council Licensure Examination (NCLEX) for Registered Nursing. If successful, they are licensed as Registered Nurses (RN).

Students planning to pursue a baccalaureate degree in Nursing should consult with a pre-nursing advisor at WWCC and an advisor at their intended transfer institution to determine an appropriate education plan. WSU offers Bachelors and Masters degrees in nursing onsite at WWCC. For more information call or email Linda Miller at 509.372.7202 or millerl@tricity.wsu.edu.

Industry Description: Nursing is the largest health care profession, nationally, regionally and locally. Employment for RNs will grow faster than all occupations through 2012. There will always be a need for nurses in hospitals, but an increasing number of nurses will be employed in home health, long-term care, and ambulatory care settings.

Other Information: The Nursing program strongly encourages students to complete as many of the nursing support courses as possible before entrance into the Nursing program. These courses provide points toward admission. For additional information including regional employment data, completion rates, student characteristics, and employment see <http://www.wtb.wa.gov/etp>.

Certificates and Degrees

Practical Nursing Certificate

The Practical Nurse is able to recognize and meet the basic needs of the client while providing nursing care under the direction and supervision of a registered nurse or licensed physician in routine nursing situations. Students who complete the first year ADN courses and additional coursework in the summer quarter are eligible to take the National Council Licensure Examination for Practical Nursing (NCLEX-PN). If successful, they are licensed as practical nurses (LPN).

Certificate available at/via: [Walla Walla] [Clarkston]

Certificate Outcomes:

- Demonstrate critical thinking in the use of the nursing process.
- Demonstrate use of management/leadership principles in the delivery of client care.
- Perform interventions in a safe and effective manner.
- Use therapeutic communication.
- Demonstrate professional behaviors.

Program requirements for admission: Students may prepare for nursing admission by meeting the minimum program requirements outlined below. Students are responsible to submit high school and/or college transcripts to WWCC's Office of Admissions along with a Transcript Evaluation Request form. GPA requirements: 2.0 for all college level classes with the exception of MATH 095, which requires a C- grade or better.

Prerequisites: The following competencies and/or course MUST be completed prior to the April 15 application deadline.* Applicants who have not completed the Chemistry, Math, Biology and English competency levels will not be admitted during the first round of application review and admissions.

Chemistry: Completion of a five credit college level introductory chemistry course with a lab. Grade must be 2.0 or better.

Mathematics: Completion of MATH 095 (Intermediate Algebra) with a C- grade or better or eligible to enter MATH 201 (Introduction to Statistics).

Please Note: Beginning in 2014, the Nursing Program will require Math 201 (*introduction to Statistics*) as a pre-requisite.

Biology: Eligible to enter Biology 251 (Human Anatomy & Physiology I), or completion of Biology 160 General Biology w/ Lab (grade must be 2.0 or better).

English: Eligible to enter English 101 (Composition) based on:

- Placement tests offered by WWCC's Student Development Center, or
- Completion of prerequisite college coursework.

It is highly recommended that as many as possible of the pre-requisite courses listed below be completed prior to the application deadline in order to achieve the highest possible points toward admission. A Nursing Assistant course and proof of passing the State Exam must be submitted prior to entering the Nursing program. Courses MUST be completed by the following timeline.

Prior To Entering The Nursing Program:	Credits
BIOL& 251, Human A & P I	5
BIOL& 252, Human A & P II	5
BIOL& 260, Microbiology	5
ENGL& 101, English Composition I	5

Before The End Of First Year (Support Courses):	Credits
PSYC& 100, General Psychology (by the end of fall quarter)	5
PSYC& 200, Lifespan Psychology (by the end of winter quarter)	5
NUTR& 101, Nutrition (by the end of spring quarter)	5
Total Credits	35

YEAR ONE

Quarter One	Credits
NURS 100, Fundamentals of Nursing	6
NURS 110, Fundamentals Practicum	4
NURS 196, Professional Development I	1
Total Credits	11

Quarter Two	Credits
NURS 101, Beginning Nursing Concepts I	6
NURS 111, Practicum I	4
Total Credits	10

Quarter Three	Credits
NURS 102, Beginning Nursing Concepts II	6
NURS 112, Practicum II	4
NURS 197, Professional Development II	1
Total Credits	11

Quarter Four	Credits
NURS 103, Practical Nursing* or NURS 104, LPN to ADN Transition**	6
NURS 113, Practicum* or NURS 114, Practicum: LPN to ADN Transition**	6
Total Credits	12
Year One Total	44
Grand Total	79

EPC: 326

For the most current information see: www.wwcc.edu

NURSING

*Practical Nursing Certificate requires completion of summer quarter. The Associate Degree Nursing degree does not require summer quarter.

**LPN Advanced Placement students who have been out of school for more than 2 years are required to enroll in NURS 104 and 114 (Summer Quarter). Courses are pass/fail.

Associate Degree Nursing

This degree utilizes the nursing process to provide and/or supervise client care while maintaining responsibility and accountability for the quality of nursing care provided in complex and varied situations. Graduates who complete the ADN program are eligible to take the National Council Licensure Examination (NCLEX-RN) for Registered Nursing. If successful, they are licensed as registered nurses (RN).

Degree available at/via: [Walla Walla] [Clarkston]

Degree Outcomes:

- Demonstrate critical thinking in the use of the nursing process.
- Demonstrate use of management/leadership principles in the delivery of client care.
- Perform interventions in a safe and effective manner.
- Use therapeutic communication.
- Demonstrate professional behaviors.

Transferability: WWCC has adapted the Washington State Articulation Plan to increase educational mobility for nurses interested in transferring to a baccalaureate institution in the State of Washington.

Program requirements for admission: Students may prepare for nursing admission by meeting the minimum program requirements outlined below. Students are responsible to submit high school and/or college transcripts to WWCC's Office of Admissions along with a Transcript Evaluation Request form. GPA requirements: 2.0 for all college level classes with the exception of MATH 095, which requires a C- grade or better.

Prerequisites: The following competencies and/or course MUST be completed prior to the April 15 application deadline.* Applicants who have not completed the Chemistry, Math, Biology and English competency levels will not be admitted during the first round of application review and admissions.

Chemistry: Completion of a five credit college level introductory chemistry course with a lab. Grade must be 2.0 or better.

Mathematics: Completion of MATH 095 (Intermediate Algebra) with a C- grade or better or eligible to enter MATH 201 (Introduction to Statistics).

Please Note: Beginning in 2014, the Nursing Program will require Math 201 (*introduction to Statistics*) as a pre-requisite.

Biology: Eligible to enter Biology 251 (Human Anatomy & Physiology I), or completion of Biology 160 General Biology w/ Lab (grade must be 2.0 or better).

English: Eligible to enter English 101 (Composition) based on:

- Placement tests offered by WWCC's Student Development Center, or
- Completion of prerequisite college coursework.

It is highly recommended that as many as possible of the pre-requisite courses listed below be completed prior to the application deadline in order to achieve the highest possible points toward admission. A Nursing Assistant course and proof of passing the State Exam must be submitted prior to entering the Nursing program. Courses MUST be completed by the following timeline.

Prior To Entering The Nursing Program: Credits

BIOL& 251, Human A & P I	5
BIOL& 252, Human A & P II	5
BIOL& 260, Microbiology	5
ENGL& 101, English Composition I	5

Before The End Of First Year (Support Courses): Credits

PSYC& 100, General Psychology (by the end of fall quarter)	5
PSYC& 200, Lifespan Psychology (by the end of winter quarter)	5
NUTR& 101, Nutrition (by the end of spring quarter)	5

Before The End Of Winter Quarter, Second Year (Support Course): Credits

CMST 102, Interpersonal Comm, or	3
CMST& 220, Public Speaking, or CMST 201, Intercultural Comm	
Total Credits	38

The following Associate Degree Nursing courses must be completed (except summer quarter) after being admitted into the Nursing Program:

YEAR ONE

Quarter One Credits

NURS 100, Fundamentals of Nursing	6
NURS 110, Fundamentals Practicum	4
NURS 196, Professional Development I	1
Total Credits	11

Quarter Two Credits

NURS 101, Beginning Nursing Concepts I	6
NURS 111, Practicum I	4
Total Credits	10

Quarter Three Credits

NURS 102, Beginning Nursing Concepts II	6
NURS 112, Practicum II	4
NURS 197, Professional Development II	1
Total Credits	11

Year One Total. 32

Quarter Four (Practical Nurse quarter – OPTIONAL) Credits

NURS 103, Practical Nursing, or NURS 104, LPN to ADN Transition	6
NURS 113, Practicum, or NURS 114, Practicum: LPN to ADN Transition	6
Total Credits	12

YEAR TWO

Quarter One Credits

NURS 200, Advanced Nursing Concepts I	7
NURS 210, Practicum III	6
Total Credits	13

Quarter Two Credits

NURS 201, Advanced Nursing Concepts II	6
NURS 211, Practicum IV	6
NURS 232, Professional Development III	1
Total Credits	13

Quarter Three Credits

NURS 202, Advanced Nursing Concepts III	7
NURS 212, Practicum V	6
Total Credits	13

Year Two Total. 39

TOTAL Nursing Credits. 71

TOTAL PROGRAM CREDITS*. 109

* Includes support courses (38 cr). Does not include optional year one quarter four.

EPC: 323

For the most current information see: www.wwcc.edu

NURSING - NUTRITION

Associate In Applied Science – T (AAS-T) Nursing

Program Requirements for Admission

Students may prepare for nursing admission by meeting the minimum program requirements outlined below. Students are responsible to submit high school and/or college transcripts to WWCC's Office of Admissions along with a Transcript Evaluation Request form. GPA requirements: 2.0 for all college level classes with exception of Math 201, which requires a C grade or better.

Pre-requisites: The following competencies and/or courses **MUST** be completed prior to the April 15 application deadline. Applicants who have not completed the Chemistry, Math, Biology and English competency levels will not be admitted during the first round of application review and admissions.

Chemistry: Completion of a five credit college level introductory chemistry course with a lab. Grade must be 2.0 or better.

Mathematics: Completion of Math 201, Introduction to Statistics, with a grade of C or better

Biology: Eligible to enter Biology 251 (Human Anatomy & Physiology I), or completion of Biology 160 General Biology w/ Lab (grade must be 2.0 or better).

English: Eligible to enter English 101 (Composition) based on:

- Placement Tests offered by WWCC's Student Development Center, or
- Completion of pre-requisite college coursework.

It is highly recommended that as many as possible of the pre-requisite courses listed below be completed prior to the application deadline in order to achieve the highest possible points toward admission. A Nursing Assistant course and proof of passing the State Exam must be submitted prior to entering the Nursing program. Courses **MUST** be completed by the following timeline:

Prior To Entering The Nursing Program:	Credits
BIOL& 251, Human A & P I.	5
BIOL& 252, Human A & P II	5
BIOL& 260, Microbiology	5
CHEM&110, Chemical Concepts w/ Lab	or
CHEM&121, Intro to Chemistry	5
ENGL& 101, English Composition	5
MATH 201, Introduction to Statistics	5

Before The End Of First Year (Support Courses)	Credit
PSYC& 100, General Psychology	5
(by the end of fall quarter)	
PSYC& 200, Lifespan Psychology	5
(by the end of winter quarter)	
NUTR& 101, Nutrition	5
(by the end of spring quarter)	

Before The End Of Winter Quarter, Second Year (Support Course):	Credit
CMST 102, Interpersonal Comm or	
CMST& 220, Public Speaking or	
CMST 201, Intercultural Comm	3
TOTAL CREDITS:	48

The following Nursing courses must be completed (except summer quarter) after being admitted into the Nursing Program:

YEAR ONE

Fall Quarter	Credits
NURS 100, Fundamentals of Nursing.	6
NURS 110, Fundamentals Practicum	4
NURS 196, Professional Development I	1
Total	11

Winter Quarter

NURS 101, Beginning Nursing Concepts I.	6
NURS 111, Practicum I	4
Total	10

Spring Quarter

NURS 102, Beginning Nursing Concepts II	6
NURS 112, Practicum II.	4
NURS 197, Professional Development II	1
Total	11
Year One Credits	32

SUMMER QUARTER

(PRACTICAL NURSE QUARTER-OPTIONAL)

NURS 103, Practical Nursing or	
NURS 104, LPN to ADN Transition	6
NURS 113, Practicum or	
NURS 114, Practicum: LPN to ADN Transition.	6
Total	12

YEAR TWO

Fall Quarter	Credits
NURS 200, Advanced Nursing Concepts I	7
NURS 210, Practicum III	6
Total	13

Winter Quarter

NURS 201, Advanced Nursing Concepts II.	6
NURS 211, Practicum IV	6
NURS 232, Professional Development III.	1
Total	13

Spring Quarter

NURS 202, Advanced Nursing Concepts III	7
NURS 212, Practicum V.	6
Total	13
Year Two Credits	39
TOTAL Nursing Credits	71
TOTAL PROGRAM CREDITS*	119

*Includes support courses (48 cr). Does not include optional summer quarter.

Nutrition

<http://wwcc.edu/nutrition>

Jill Emigh

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Program available at/via: [Walla Walla] [Clarkston]

Department Overview: Nutrition currently offers a course designed to develop understanding of the importance of the science of nutrition and dietary recommendations to maintenance of a healthy life. Students will learn the principles of nutrition as they apply to macro-nutrients and metabolic pathways. Application of vitamins, minerals, and special nutritional requirements at different stages of the life cycle, as well as current issues in nutrition will be considered.

Program Level Outcomes:

- An understanding of discipline specific terminology and methods.

NUTRITION - OCEANOGRAPHY

- An ability to correctly use discipline specific tools and /or techniques.
- Critical thinking skills necessary in science including appropriate study techniques, problem solving skills and the use of data to assess the validity of claims.
- The ability to research, interpret and communicate concepts obtained from scientific literature.
- An understanding of the relationships between course concepts and society, including the impact of course specific technology.

Degrees: Students may earn an Associate in Arts AA-DTA degree (90 credits) which is designed for students planning to transfer to a baccalaureate institution with junior standing. Students pursuing this degree should meet with an academic advisor at WWCC and an advisor at their intended baccalaureate institution to determine an appropriate educational plan. (See AA-DTA in Degrees section of catalog).

Preparation for Success: Students interested in nutrition or in becoming a registered dietitian should take courses in chemistry for health sciences, anatomy and physiology. Additional coursework in general education, humanities and social sciences will be required at the transfer institution. Students need to meet with department advisors at the intended baccalaureate institution to determine appropriate educational plan.

Occupational Support

<http://wwcc.edu/ocsup>

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Jennifer Leber 509.527.4247 jennifer.leber@wwcc.edu
Chad Miltenberger- Clk 509758.1711 chad.miltenberger@wwcc.edu

Program available at/via: [Walla Walla] [Clarkston] [Online (partial)]

Department Overview: Occupational Support courses are designed to improve students' opportunities in obtaining, maintaining, and advancing in their areas of employment. This series of courses include: communications, mathematics, human relations, leadership, and career planning. Courses are offered as related instruction to support students completing degree and certificate training programs.

Degrees: To meet the completion requirements of the AAAS degree, students are required to complete a minimum of 16 credit hours of related instruction. The Occupational Support courses are included in the related instruction requirements. Students may elect to take identified optional courses or advanced courses of instruction with advisor approval.

Industry Description: The demand for professional-technical graduates who meet both institutional and national standard certification requirements is increasing steadily as employers strive to compete in the ever-changing marketplace. Research confirms that individuals completing training programs and the related national certification training receive higher rates of compensation, experience reduced chances of layoff, and advance in their chosen career field at a higher rate. Occupational

Support courses include: applied math, job seeking skills, job psychology, communications, and leadership.

Entrance Requirements: A placement test offered by the Student Development Center must be completed prior to enrolling in OCSUP courses.

Oceanography

<http://www.wwcc.edu/oceanography>

Steve May 509.527.4278 steve.may@wwcc.edu

Program available at/via: [Walla Walla]

Department Overview: Oceanography is the study of the world's oceans and coastal waters. More specifically it is the study of motion and circulation of the ocean waters; the physical and chemical properties of the oceans; and how these properties affect coastal areas, climate, and weather.

Program Level Outcomes:

- An understanding of discipline specific terminology and methods.
- An ability to correctly use discipline specific tools and /or techniques.
- Critical thinking skills necessary in science including appropriate study techniques, problem solving skills and the use of data to assess the validity of claims.
- The ability to research, interpret and communicate concepts obtained from scientific literature.
- An understanding of the relationships between course concepts and society, including the impact of course specific technology.

Degrees: Students may earn an Associate in Arts AA-DTA degree (90 credits) which is designed for students planning to transfer to a baccalaureate institution with junior standing. Students pursuing this degree should meet with an academic advisor at WWCC and an advisor at their intended baccalaureate institution to determine an appropriate educational plan. (See AA-DTA in Degrees section of catalog).

Preparation for Success: Students interested in a major in Oceanography should take courses in natural sciences, with an emphasis on biology, chemistry and geology. The ability to utilize computers is also essential.

OFFICE TECHNOLOGY

Office Technology

CERT, AAAS

<http://wwcc.edu/office>

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Program available at/via: [Walla Walla] [Clarkston] [Online (partial)]

Department Overview: Office Technology provides training that integrates career related subject knowledge with computer applications pertinent to today's automated office. Today's office worker encounters an interesting mixture of work, realizes regularly increasing responsibility, and often finds opportunity for advancement. Part-time and full-time employment opportunities are available in a variety of office settings and locations. Taught through a combination of lecture, lab and cooperative training opportunities, Office Technology curriculum is reviewed by an advisory board composed of local and regional industry members.

Program Level Outcomes:

- Program graduates will demonstrate technical competency in core ability and related instruction curriculum components.
- Students who have declared a program major will complete that program of study.
- Student and employer satisfaction will reflect a high degree of self-esteem, self-confidence, and the potential to grow within that job or business.
- Students completing the AAAS degree will become employed in a living wage job, with benefits.

Degrees: Students may earn an Associate in Applied Arts and Sciences Degree in each of four key areas of office technology: Administrative Office Professional, Financial Administrative Assistant, Legal Administrative Assistant or Medical Administrative Assistant. Certificates in: Office Assistant, Legal Administrative Assistant, Medical Billing and Coding and Medical Transcription are also available.

Industry Description: As the reliance on technology continues to expand in offices across the nation, the role of the office professional continues to evolve. Office automation and organizational restructuring have led secretaries and administrative assistants to assume a wider range of responsibilities once reserved for managerial and professional staff. Secretaries and administrative assistants are responsible for a variety of administrative and clerical duties necessary to run an organization efficiently. They serve as an information manager for an office, plan and schedule meetings and appointments, organize and maintain paper and electronic files, manage projects, conduct research, and provide information by using the telephone, postal mail, and e-mail. Medical assistants perform many administrative duties, including answering telephones, greeting patients, updating and filing patients' medical records,

filling out insurance forms, handling correspondence, scheduling appointments, arranging for hospital admission and laboratory services, and handling billing and bookkeeping.

Entrance Requirements: Students may begin their study in these programs in fall, winter or spring quarters. However, due to course sequencing and course prerequisites, it is preferable to begin in the fall quarter. A placement test offered by the Student Development Center must be completed prior to admittance to the program.

Other Information: For additional information including regional employment data, completion rates, student characteristics, and employment see <http://www.wtb.wa.gov/etp>.

Degrees and Certificates

Legal Administrative Assistant Certificate

This certificate provides the basic skills for employment in a legal administrative environment. The coursework is also appropriate for individuals interested in improving their current skills and knowledge in the legal office setting.

Certificate available at/via: [Walla Walla] [Clarkston]

YEAR ONE

Quarter One	Credits
CS 110, Introduction to Computers and Applications	5
OT 122, Records Management	5
OT 125, Introduction to Word Processing	5
Total Credits	15

Quarter Two	Credits
BUS 136, Business Communications I	5
BUS 157, Human Relations in Business (R)	5
BUS 217, Computer Software Applications	5
BUS& 201, Business Law I	5
Total Credits	20

Quarter Three	Credits
BUS 112, Business Mathematics (M)	5
OT 126, Intermediate Word Processing	5
OT 161, Practical Accounting	5
OT 228, Legal Terminology	5
Total Credits	20
Year One Total	55

YEAR TWO

Quarter One	Credits
BUS 181, Cooperative Work Experience I	2-5
BUS 182, Business Leadership Seminar I	3
OT 229, Legal Document Processing	5
Total Credits	10-13
Year Two Total	10-13
Grand Total	65-68

EPC: 577C

The following courses meet the related instruction requirements of this certificate/degree (one course per category required):

(M) - BUS 112

(R) - BUS 157

OFFICE TECHNOLOGY

Associate in Applied Arts and Sciences Degree in Legal Administrative Assistant

This technical degree prepares the student for immediate employment in a legal administrative environment. The coursework is also appropriate for individuals interested in improving their current skills and knowledge in the legal office setting.

Degree available at/via: [Walla Walla] [Clarkston]

Degree Outcomes:

- Demonstrate technical knowledge to perform general office skills proficiently.
- Demonstrate an ability to use appropriate software to complete business related tasks and requirements.
- Perform duties related to specialty content of study, i.e. legal emphasis.
- Project ethical work habits to model professional behavior in the workplace.
- Develop critical-thinking and problem-solving abilities.
- Function effectively as a team member by applying positive interpersonal interactions.

Transferability: The AAAS Degree is designed for students planning to enter their chosen career upon graduation. Often only selected credits are considered transferable to public or private baccalaureate institutions.

YEAR ONE

Quarter One	Credits
BUS 136, Business Communications I	5
OT 122, Records Management	5
OT 125, Introduction to Word Processing	5
OT 218, Desktop Calculator	5
Total Credits	20

Quarter Two	Credits
ACCT& 201, Principles of Accounting I *	5
CS 110, Introduction to Computers and Applications	5
OT 126, Intermediate Word Processing	5
Total Credits	15

Quarter Three	Credits
BUS 112, Business Mathematics (M)	5
BUS 137, Business Communications II (W)	5
BUS 217, Computer Software Applications	5
CMST 102, Interpersonal Communication (O)	3
OT 222, Records Management II	5
Total Credits	23
Year One Total	58

YEAR TWO

Quarter One	Credits
BUS 157, Human Relations in Business (R)	5
BUS 181, Cooperative Work Experience I	2 - 5
BUS 182, Business Leadership Seminar I	3
BUS& 201, Business Law I	5
OT 228, Legal Terminology	5
Total Credits	20-23

Quarter Two	Credits
BUS 191, Cooperative Work Experience II	2 - 5
BUS 192, Business Leadership Seminar II (L)	3
OT 115, Medical Transcription I	5
OT 229, Legal Document Processing	5
Total Credits	15-18

Quarter Three	Credits
BUS 291, Cooperative Work Experience III	2 - 5
BUS 292, Business Leadership Seminar III (J)	3
OT 127, Word Processing Applications	5
OT 200, Office Simulation	5
Total Credits	15-18
Year Two Total	50-59
Grand Total	108-117

EPC: 577

* ACCT& 201, Principles of Accounting or OT 161, Practical Accounting meet the accounting requirement for this degree.

The following courses meet the related instruction requirements of this certificate/degree (one course per category required):

(J) - BUS 292

(W) - BUS 137

(L) - BUS 192

(M) - BUS 112

(O) - CMST 102, CMST& 220

(R) - BUS 157

Medical Transcription Certificate

This certificate provides the basic skills for employment in a medical administrative environment. The coursework is also appropriate for individuals interested in improving their current skills and knowledge in the medical office setting.

Certificate available at/via: [Walla Walla] [Clarkston]

Certificate Outcomes:

- Demonstrate technical knowledge to perform general office skills proficiently.
- Demonstrate an ability to use appropriate software to complete business related tasks and requirements.
- Perform duties related to specialty content of study as a medical transcriptionist.
- Project ethical work habits to model professional behavior in the workplace.
- Develop critical-thinking and problem-solving abilities.
- Function effectively as a team member by applying positive interpersonal interactions.

YEAR ONE

Quarter One	Credits
BUS 136, Business Communications I	5
OT 125, Introduction to Word Processing	5
OT 231, Medical Office Procedures	5
OT 280, Medical Terminology	5
Total Credits	20

Quarter Two	Credits
BIOL 119, Human Anatomy for Medical Office Professionals	5
BUS 157, Human Relations in Business (R)	5
CS 110, Introduction to Computers and Applications	5
OT 116, Medical Transcription II	5
Total Credits	20

Quarter Three	Credits
BUS 112, Business Mathematics (M)	5
BUS 181, Cooperative Work Experience I	2 - 5
BUS 182, Business Leadership Seminar I (L)	3
OT 115, Medical Transcription I	5
OT 126, Intermediate Word Processing	5
Total Credits	20-23
Year One Total	60-63
Grand Total	60-63

OFFICE TECHNOLOGY

EPC: 565E

The following courses meet the related instruction requirements of this certificate/degree (one course per category required):

(L) - BUS 182

(M) - BUS 112

(R) - BUS 157

Medical Billing and Coding Certificate

This certificate provides the basic skills for employment in a medical administrative environment. The coursework is also appropriate for individuals interested in improving their current skills and knowledge in the medical office setting.

Certificate available at/via: [Walla Walla] [Clarkston]

Certificate Outcomes:

- Demonstrate technical knowledge to perform general office skills proficiently.
- Demonstrate an ability to use appropriate software to complete business related tasks and requirements.
- Perform duties related to specialty content of study as a medical billing and coding specialist.
- Project ethical work habits to model professional behavior in the workplace.
- Develop critical-thinking and problem-solving abilities.
- Function effectively as a team member by applying positive interpersonal interactions.

YEAR ONE

Quarter One	Credits
BUS 136, Business Communications I	5
BUS 157, Human Relations in Business (R)	5
OT 125, Introduction to Word Processing	5
OT 231, Medical Office Procedures	5
OT 280, Medical Terminology	5
Total Credits	25

Quarter Two	Credits
BUS 112, Business Mathematics (M)	5
CS 110, Introduction to Computers and Applications	5
OT 122, Records Management	5
OT 126, Intermediate Word Processing	5
OT 234, Medical Coding	5
Total Credits	25

Quarter Three	Credits
ACCT& 201, Principles of Accounting I	5
BIOL 119, Human Anatomy for Medical Office Professionals	5
BUS 181, Cooperative Work Experience I	2-5
BUS 182, Business Leadership Seminar I (L)	3
OT 232, Medical Insurance Procedures	5
Total Credits	20-23
Year One Total	70-73
Grand Total	70-73

EPC: 565C

The following courses meet the related instruction requirements of this certificate/degree (one course per category required):

(L) - BUS 182

(M) - BUS 112

(R) - BUS 157

Associate in Applied Arts and Sciences Degree in Medical Administrative Assistant

This technical degree prepares the student for immediate employment in a medical administrative environment. The coursework is also appropriate for individuals interested in improving their current skills and knowledge in the medical office setting.

Degree available at/via: [Walla Walla] [Clarkston]

Degree Outcomes:

- Demonstrate technical knowledge to perform general office skills proficiently.
- Demonstrate an ability to use appropriate software to complete business related tasks and requirements.
- Perform duties related to specialty content of study, i.e. medical emphasis.
- Project ethical work habits to model professional behavior in the workplace.
- Develop critical-thinking and problem-solving abilities.
- Function effectively as a team member by applying positive interpersonal interactions.

Transferability: The AAAS Degree is designed for students planning to enter their chosen career upon graduation. Often only selected credits are considered transferable to public or private baccalaureate institutions.

YEAR ONE

Quarter One	Credits
BUS 136, Business Communications I	5
BUS 157, Human Relations in Business (R)	5
OT 122, Records Management	5
OT 125, Introduction to Word Processing	5
Total Credits	20

Quarter Two	Credits
BUS 112, Business Mathematics (M)	5
CMST 102, Interpersonal Communication (O)	3
CS 110, Introduction to Computers and Applications	5
OT 126, Intermediate Word Processing	5
Total Credits	18

Quarter Three	Credits
BUS 137, Business Communications II (W)	5
OT 127, Word Processing Applications	5
OT 222, Records Management II	5
OT 281, Medical Terminology II	5.0
Total Credits	20
Year One Total	58

YEAR TWO

Quarter One	Credits
ACCT& 201, Principles of Accounting I *	5
BUS 181, Cooperative Work Experience I	2-5
BUS 182, Business Leadership Seminar I	3
OT 231, Medical Office Procedures	5
OT 280, Medical Terminology	5
Total Credits	20-23

Quarter Two	Credits
BUS 191, Cooperative Work Experience II	2-5
BUS 192, Business Leadership Seminar II (L)	3
OT 115, Medical Transcription I	5
OT 232, Medical Insurance Procedures	5
OT 234, Medical Coding	5
Total Credits	20-23

OFFICE TECHNOLOGY

Quarter Three

	Credits
BUS 291, Cooperative Work Experience III	2-5
BUS 292, Business Leadership Seminar III (J)	3
OT 200, Office Simulation	5
OT 218, Desktop Calculator	5
Total Credits	15-18
Year Two Total	55-64
Grand Total	113-122

EPC: 565

* ACCT& 201, Principles of Accounting or OT 161, Practical Accounting meet the accounting requirement for this degree.

The following courses meet the related instruction requirements of this certificate/degree (one course per category required):

(J) - BUS 292

(W) - BUS 137

(L) - BUS 192

(M) - BUS 112

(O) - CMST 102, CMST& 220

(R) - BUS 157

Office Assistant Certificate

An Office Assistant will assist in the clerical operation of the office by transcribing and keying letters, reports, and other business correspondence. Other duties may include records management, office machine calculations, basic bookkeeping, and word processing. An Office Assistant must display good communication and interpersonal skills.

Certificate available at/via: [Walla Walla] [Clarkston]

Certificate Outcomes:

- Demonstrate technical knowledge to perform general office skills proficiently.
- Demonstrate an ability to use appropriate software to complete business related tasks and requirements.
- Perform duties related to specialty content of study as an office assistant.
- Project ethical work habits to model professional behavior in the workplace.
- Develop critical-thinking and problem-solving abilities.
- Function effectively as a team member by applying positive interpersonal interactions.

YEAR ONE

Quarter One	Credits
BUS 136, Business Communications I	5
CS 110, Introduction to Computers and Applications	5
OT 122, Records Management	5
OT 125, Introduction to Word Processing	5
Total Credits	20

Quarter Two	Credits
BUS 112, Business Mathematics (M)	5
BUS 137, Business Communications II (W)	5
OT 126, Intermediate Word Processing	5
Total Credits	15

Quarter Three	Credits
BUS 217, Computer Software Applications	5
OT 127, Word Processing Applications	5
OT 200, Office Simulation	5
OT 222, Records Management II	5
Total Credits	20
Year One Total	55

YEAR TWO

Quarter One	Credits
ACCT& 201, Principles of Accounting I *	5
BUS 157, Human Relations in Business (R)	5
BUS 181, Cooperative Work Experience I	2-5
BUS 182, Business Leadership Seminar I	3
OT 218, Desktop Calculator	5
Total Credits	20-23
Year Two Total	20-23
Grand Total	75-78

EPC: 559C

The following courses meet the related instruction requirements of this certificate/degree (one course per category required):

(W) - BUS 137

(M) - BUS 112

(R) - BUS 157

Associate in Applied Arts and Sciences Degree in Administrative Office Professional

This technical degree prepares students for employment in an executive administrative environment. The coursework is also appropriate for individuals interested in improving their current skills and knowledge in the business setting.

Degree available at/via: [Walla Walla] [Clarkston]

Degree Outcomes:

- Demonstrate technical knowledge to perform general office skills proficiently.
- Demonstrate an ability to use appropriate software to complete business related tasks and requirements.
- Perform duties related to specialty content of study, i.e., executive, legal, medical, financial emphasis.
- Project ethical work habits to model professional behavior in the workplace.
- Develop critical-thinking and problem-solving abilities.
- Function effectively as a team member by applying positive interpersonal interactions.

Transferability: The AAAS Degree is designed for students planning to enter their chosen career upon graduation. Often only selected credits are considered transferable to public or private baccalaureate institutions.

YEAR ONE

Quarter One	Credits
BUS 136, Business Communications I	5
OT 122, Records Management	5
OT 125, Introduction to Word Processing	5
OT 218, Desktop Calculator	5
Total Credits	20

Quarter Two	Credits
ACCT& 201, Principles of Accounting I *	5
BUS& 101, Intro to Business	5
CS 110, Introduction to Computers and Applications	5
OT 126, Intermediate Word Processing	5
Total Credits	20

Quarter Three	Credits
BUS 112, Business Mathematics (M)	5
BUS 137, Business Communications II (W)	5
BUS 217, Computer Software Applications	5
OT 222, Records Management II	5
Total Credits	20
Year One Total	60

OFFICE TECHNOLOGY - OUTDOOR POWER EQUIPMENT

YEAR TWO

Quarter One	Credits
BUS 157, Human Relations in Business (R)	5
BUS 182, Business Leadership Seminar I	3
BUS& 201, Business Law I	5
CMST 102, Interpersonal Communication (O)	3
BUS 181, Cooperative Work Experience I	2
Total Credits	18
Quarter Two	Credits
BUS 102, Customer Service	5
BUS 192, Business Leadership Seminar II (J)	3
BUS 191, Cooperative Work Experience II	2
OT 117, Executive Transcription I	5
Total Credits	15
Quarter Three	Credits
BUS 292, Business Leadership Seminar III (L)	3
CS 222, Desktop Publishing (InDesign)	5
BUS 291, Cooperative Work Experience III	2
OT 127, Word Processing Applications	5
OT 200, Office Simulation	5
Total Credits	20
Year Two Total	53
Grand Total	113

EPC: 547

* ACCT& 201, Principles of Accounting or OT 161, Practical Accounting meet the accounting requirement for this degree.

The following courses meet the related instruction requirements of this certificate/degree (one course per category required):

(J) - BUS 192

(W) - BUS 137

(L) - BUS 292

(M) - BUS 112

(O) - CMST 102, CMST& 220

(R) - BUS 157, PSYC& 100

Associate in Applied Arts and Sciences Degree in Financial Administrative Assistant

This technical degree prepares the student for immediate employment in a financial office environment. The coursework is also appropriate for individuals interested in improving their current skills and knowledge in the financial office setting.

Degree available at/via: [Walla Walla] [Clarkston]

Degree Outcomes:

- Demonstrate technical knowledge to perform general office skills proficiently.
- Demonstrate an ability to use appropriate software to complete business related tasks and requirements.
- Perform duties related to specialty content of study, financial emphasis.
- Project ethical work habits to model professional behavior in the workplace.
- Develop critical-thinking and problem-solving abilities.
- Function effectively as a team member by applying positive interpersonal interactions.

Transferability: The AAAS Degree is designed for students planning to enter their chosen career upon graduation. Often only selected credits are considered transferable to public or private baccalaureate institutions.

YEAR ONE

Quarter One	Credits
BUS 112, Business Mathematics (M)	5
BUS 136, Business Communications I	5
OT 122, Records Management	5
OT 125, Introduction to Word Processing	5
Total Credits	20
Quarter Two	Credits
ACCT& 201, Principles of Accounting I *	5
CS 110, Introduction to Computers and Applications	5
OT 126, Intermediate Word Processing	5
Total Credits	15
Quarter Three	Credits
ACCT& 202, Principles of Accounting II	5
BUS 137, Business Communications II (W)	5
BUS 217, Computer Software Applications	5
OT 222, Records Management II	5
Total Credits	20
Year One Total	55

YEAR TWO

Quarter One	Credits
BUS 157, Human Relations in Business (R)	5
BUS 181, Cooperative Work Experience I	2-5
BUS 182, Business Leadership Seminar I	3
BUS& 201, Business Law I	5
OT 218, Desktop Calculator	5
Total Credits	20-23
Quarter Two	Credits
BUS 102, Customer Service	5
BUS 191, Cooperative Work Experience II	2-5
BUS 192, Business Leadership Seminar II (L)	3
CMST 102, Interpersonal Communication (O)	3
Total Credits	13-16
Quarter Three	Credits
ACCT 115, Integrated Computer Applications for Accounting	5
ACCT 175, Payroll Accounting	5
BUS 291, Cooperative Work Experience III	2-5
BUS 292, Business Leadership Seminar III (J)	3
OT 200, Office Simulation	5
Total Credits	20-23
Year Two Total	53-62
Grand Total	108-117

EPC: 267

* ACCT& 201, Principles of Accounting or OT 161, Practical Accounting meet the accounting requirement for this degree.

The following courses meet the related instruction requirements of this certificate/degree (one course per category required):

(J) - BUS 292

(W) - BUS 137

(L) - BUS 192

(M) - BUS 112

(O) - CMST 102, CMST& 220

(R) - BUS 157

Outdoor Power Equipment

CERT, AAAS

<http://wwcc.edu/turfequipment>

George Klein

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Program available at/via: [Walla Walla] [Online (full)]

Department Overview: The Outdoor Power Equipment Technician Program provides intensive career preparation through interactive web-based classroom instruction with

For the most current information see: www.wwcc.edu

OUTDOOR POWER EQUIPMENT

live shop, hands-on application either on-campus or off-campus, with the off-campus students learning in on-the-job environments. The program is certified by the national Equipment and Engine Training Council (EETC) and is led by an EETC certified instructor. Students prepare technical knowledge and mechanical skills necessary to service, troubleshoot and repair today's sophisticated recreational, residential and commercial outdoor power equipment using the competencies and national testing provided by the EETC. Training materials and equipment are provided through cooperative agreements with regional dealerships, national manufacturers, and the local community. Curriculum is reviewed by the Outdoor Power and Turf Equipment Technician advisory board which is composed of local and regional industry members.

Program Level Outcomes:

- Implement competency-based education and skill standards.
- Provide students with marketable, technical and interpersonal skills in the trade resulting in career placement.
- Prepare students in acquiring appropriate licenses, certifications and degrees upon exiting Walla Walla Community College.
- Provide relevant training through hands-on and field experience to prepare the students for living wage jobs.
- Develop analytical thinking and problem-solving abilities through instructional labs, projects and testing.
- Provide training in environmental and work place safety that meets appropriate industry standards.
- Develop partnerships and/or relationships with manufacturers and distributors to provide a place to upgrade professional technicians along with updated skill standards.

Degrees: After completion of four college quarters, students may receive a Certificate as an Outdoor Power Equipment Technician.

Two additional quarters can lead to a AAAS degree as an Outdoor Power and Turf Equipment technician.

After completing any one of the seven core classes and passing its corresponding test a student will receive an EETC certification certificate and a set of arm patches from the EETC.

Industry Description: The growth and expansion of the home and recreation industries nationwide have created a growing need for qualified technicians to service, manage and sell equipment specific to this industry. Opportunities abound for technicians in various settings including golf courses, landscaping businesses, parks and recreation departments, rental outfits, dealerships, consumer equipment, and motorcycle dealers.

Entrance Requirements: Depending upon placement testing, students may need to complete additional computer classes as a prerequisite to entering the program. It is recommended that the student contact the lead instructor regarding appropriate program placement to determine specific quarter start in the

program. While students may enter the program fall, winter or spring quarter, due to course sequencing it is recommended to begin in the fall. A placement test and mechanical reasoning test offered by the Student Development Center must be completed prior to admittance to the program.

Other Information: For additional information including regional employment data, completion rates, student characteristics, and employment, see <http://www.wtb.wa.gov/etp>.

Degrees and Certificates

Outdoor Power Equipment Certificate

Students may earn a Certificate as an Outdoor Power and Turf Equipment Technician upon completion of four quarters of course instruction. This certificate is taught via web-based learning and either an on or off campus lab. This certificate allows students to acquire the master competencies to complete five EETC Certification Tests.

Certificate available at/via: [Walla Walla] [Online]

Certificate Outcomes:

- Paint and protect equipment using appropriate equipment, materials, and techniques.
- Explain the theory and diagnosis of electrical systems, testing, and rebuilding.
- Disassemble, diagnose, and repair transmissions, differentials, and drive axles.
- Demonstrate proper safety, handling, usage, and disposal of common chemicals used in the shop.
- Demonstrate the ability to find and use reference material in multiple forms such as CD, internet, and operator's and technical manuals.
- Recognize and accurately identify the effects of abrasive damage, operator error, and other failures that lead to machine failure.
- Explain to customers the cause of failure, alternatives, and ways to prevent this type of damage from occurring in the future.

YEAR ONE

Quarter One	Credits
TST 154, Basic 4-Stroke Engine Principles	10
TST 151, Shop Fundamentals	5
TURF 101, Turf Equipment Operations I	3
Total Credits	18
Quarter Two	Credits
TST 156, Electrical Principles	10
OCSUP 106, Applied Mathematics I (M)	5
TST 159, Generator Fundamentals	5
WELD 141, Welding Basics	4
Total Credits	24
Quarter Three	Credits
TST 158, Power Trains	10
TST 157, Hydraulics	10
OCSUP 103, Job Seeking Skills (J)	3
TST 125, Paints and Painting *	3
Total Credits	26
Year One Total	68

OUTDOOR POWER EQUIPMENT

YEAR TWO

Quarter One	Credits
TST 155, Basic 2-Stroke Engine Principles	10
OCSUP 102, Oral Communication in the Workplace (O)	3
TST 299, Leadership (L)	1
Total Credits	14
Year Two Total	14
Grand Total	82

EPC: 126C

Depending on placement testing, a student may be required to complete CS 110, Introduction to Computers and Applications for 5 credits.

*TST 125, Paints and Painting is optional for the certificate. Students may substitute ABT 163, Auto Body Refinishing for 3 credits.

The following courses meet the related instruction requirements of this certificate/degree (one course per category required):

(J) - AGPR 100, OCSUP 103, PSYC 140

(L) - CLS 180, TST 299

(M) - BUS 112, MATH 049, OCSUP 106

(O) - CMST 102, CMST& 220, OCSUP 102

Associate in Applied Arts and Sciences Degree in Outdoor Power and Turf Equipment Technician

This technical degree prepares the student for immediate employment in the turf equipment service industry. The degree is six quarters (two years) in length and includes the five EETC certifications obtained in the certificate, and two additional EETC certifications. The final two quarters of the degree are offered on campus only.

Degree Outcomes:

- Paint and protect equipment using appropriate equipment, materials, and techniques.
- Explain the theory and diagnosis of electrical systems, testing, and rebuilding.
- Disassemble, diagnose, and repair transmissions, differentials, and drive axles.
- Operate and observe engine operation and perform necessary repairs and adjustments.
- Adjust, sharpen, grind, and rebuild reel and rotary mowing units.
- Demonstrate proper safety, handling, usage, and disposal of common chemicals used in the shop.
- Demonstrate the ability to find and use reference material in multiple forms such as CD, internet, and operator's and technical manuals.
- Display a working knowledge of how internal combustion gas and diesel engines function, their components, and service requirements.
- Recognize and accurately identify the effects of abrasive damage, operator error, and other failures that lead to machine failure.
- Explain to customers the cause of failure, alternatives, and ways to prevent this type of damage from occurring in the future.

Transferability: The AAAS Degree is designed for students planning to enter their chosen career upon graduation. Often only selected credits are considered transferable to public or private baccalaureate institutions.

YEAR ONE

Quarter One	Credits
TST 154, Basic 4-Stroke Engine Principles	10
TST 151, Shop Fundamentals	5
TURF 101, Turf Equipment Operations I	3
Total Credits	18

Quarter Two	Credits
TST 156, Electrical Principles	10
OCSUP 106, Applied Mathematics I (M)	5
TST 159, Generator Fundamentals	5
WELD 141, Welding Basics	4
Total Credits	24

Quarter Three	Credits
TST 158, Power Trains	10
TST 125, Paints and Painting	3
TST 157, Hydraulics	10
OCSUP 103, Job Seeking Skills (J)	3
Total Credits	26
Year One Total	68

YEAR TWO

Quarter One	Credits
TST 155, Basic 2-Stroke Engine Principles	10
OCSUP 102, Oral Communication in the Workplace (O)	3
TST 299, Leadership (L)	1
Total Credits	14

Quarter Two	Credits
TST 256, Reels and Mowing Systems	17
WRITE 100, Applied Writing (W)	3
Total Credits	20

Quarter Three	Credits
BUS 102, Customer Service (R)	5
TST 255, Compact Diesel Engines	17
Total Credits	22
Year Two Total	56
Grand Total	124

EPC: 126

The following courses meet the related instruction requirements of this certificate/degree (one course per category required):

(J) - AGPR 100, OCSUP 103, PSYC 140

(W) - BUS 137, ENGL& 101, WRITE 100

(L) - CLS 180, OCSUP 299, TST 299

(M) - BUS 112, MATH 049, OCSUP 106

(O) - CMST 102, CMST& 220, OCSUP 102

(R) - BUS 102, OCSUP 101, PSYC 111, PSYC& 100

PHILOSOPHY - PHYSICS

Philosophy

<http://wwcc.edu/philosophy>

James Bower- CLK 509.758.1771 james.bower@wwcc.edu

Program available at/via: [Walla Walla] [Clarkston]

Department Overview: Philosophy courses ask fundamental questions about how we can improve our thinking, our moral and political values, and our understanding of life. Philosophy courses examine great ideas from the past as well as contemporary thinkers.

Program Level Outcomes:

- Demonstrates a comprehension of culturally diverse works in literature and philosophy.
- Demonstrates an understanding and working knowledge of terminology commonly used in the humanities.
- Demonstrates an appropriate level of creativity, discipline, and technique in the production of assigned work in the humanities.

Degrees: Students may earn an Associate in Arts AA-DTA degree (90 credits) which is designed for students planning to transfer to a baccalaureate institution with junior standing. Students pursuing this degree should meet with an academic advisor at WWCC and an advisor at their intended baccalaureate institution to determine an appropriate educational plan. (See AA-DTA in Degrees section of catalog).

Preparation for Success: Students who plan to major in Philosophy at the four year college or university should take all of the Philosophy courses offered at WWCC, including Symbolic Logic. The great majority of schools require at least two years of a language other than English for a B.A. in Philosophy.

Physical Education and Recreation

<http://wwcc.edu/pe>

Michael Levens 509.527.4315 michael.levens@wwcc.edu

Tim Toon 509.527.4307 tim.toon@wwcc.edu

Program available at/via: [Walla Walla] [Clarkston] [Online (partial)]

Department Overview: "Recent studies reported by the U.S. Surgeon General and the Centers for Disease Control and Prevention confirm that physical activity reduces the risk of developing some of the leading causes of illness and death, including heart disease, high blood pressure, and diabetes for all ages. Many students, however, are not getting enough physical activity; and are not learning to be responsible for their own health." (National Association for Sport & Physical Education)

The Physical Education department at WWCC offers a variety of courses that expose the student to leisure activity skills and fitness activities that educate students how to be responsible for their own health.

Program Level Outcomes:

- An understanding of the methods and practices that lead to lifetime wellness.
- The ability to develop a personalized wellness plan.
- An understanding of the positive and negative consequences of choices as they relate to lifetime fitness.

Degrees: Students may earn an Associate in Arts AA-DTA degree (90 credits) which is designed for students planning to transfer to a baccalaureate institution with junior standing. Students pursuing this degree should meet with an academic advisor at WWCC and an advisor at their intended baccalaureate institution to determine an appropriate educational plan. (See AA-DTA in Degrees section of catalog).

Preparation for Success: Students interested in fitness careers should be outgoing, good at motivating people, and sensitive to the needs of others. Excellent health and physical fitness are important due to the physical nature of the job. Those who wish to be personal trainers in a large commercial fitness center should have strong sales skills.

Physics

AS

<http://wwcc.edu/physics>

Steve May 509.527.4278 steve.may@wwcc.edu

Frank Skorina 509.527.4578 frank.skorina@wwcc.edu

Program available at/via: [Walla Walla] [Clarkston]

Department Overview: The ultimate goal in the science of Physics is the understanding of materials, structures and behaviors of everything from the grand scale of the entire universe down to the smallest, most fundamental bit of matter. It is referred to as the most fundamental of the sciences. More specifically, it includes, but is not limited to, the study of mechanics, gravitation, oscillations, fluids, thermodynamics, waves, optics, electricity, magnetism, relativity, quantum physics, and nuclear physics.

Program Level Outcomes:

- An understanding of discipline specific terminology and methods.
- An ability to correctly use discipline specific tools and /or techniques.
- Critical thinking skills necessary in science including appropriate study techniques, problem solving skills and the use of data to assess the validity of claims.
- The ability to research, interpret and communicate concepts obtained from scientific literature.
- An understanding of the relationships between course concepts and society, including the impact of course specific technology.

Degrees: Students may earn an Associate in Science Degree - Option II (90 credits) which is designed to prepare students for upper division study in physics. Please consult with an advisor at WWCC and your intended transfer institution to determine an appropriate education plan.

PHYSICS - POLITICAL SCIENCE

Preparation for Success: Students interested in a major in Physics should take additional courses in mathematics, computer programming and chemistry. Physics' degrees are often combined with other sciences, such as astronomy, biology and geology; so courses in those areas are also recommended.

Other Information:

Introductory physics courses are offered that fulfill the needs of three different groups of students. All physics course fulfill the Natural Sciences requirement for graduation with an AA or AS degree.

Student's interested in pursuing a major in physics, engineering, or other physical sciences should enroll in the 3-quarter sequence PHYS 221, 222, 223, a calculus-based series.

The other 3-quarter sequence, PHYS 114, 115, 116, an algebra-based series, is appropriate for students interested in pursuing degrees in life sciences, pre-professional programs (i.e. medicine, dentistry, etc.), or any student with a desire to learn about the laws of physics through a problem-solving course.

For the student interested in a general survey of the science of physics, PHYS 110, a one-quarter, conceptual course is offered.

Humanities Elective	5
MATH& 151, Calculus I	5
PHYS 201, Physics for Science and Engineering I	5
Total Credits	16

Quarter Two	Credits
Humanities or Social Science Elective	5
MATH& 152, Calculus II	5
PHYS 202, Physics for Science and Engineering II	5
Total Credits	15

Quarter Three	Credits
Approved Elective	5
MATH& 153, Calculus III or MATH 201, Statistics	5
PHYS 203, Physics for Science and Engineering III	5
Total Credits	15
Year Two Total	46
Grand Total	90

EPC: 004P

Political Science

<http://wwcc.edu/politicalscience>

Jim Peitersen

509.527.4601 james.peitersen@wwcc.edu

Program available at/via: [Walla Walla] [Online (partial)]

Department Overview: Political science as a discipline encompasses a broad range of subfields that attempt to describe and explain the political process, politics, and relationships among governments. The general areas of study in political science include American government and politics, political theory, public administration, public law, comparative politics, and international relations.

Program Level Outcomes:

- The ability to analyze past and present society, diverse cultures and histories to better understand individual and group behavior and enhance self awareness.
- An understanding and working knowledge of the theories, concepts, ideas, terminology, and factual evidence in selected fields within the social sciences.
- Sensitivity in understanding diverse views and perspectives.
- An understanding of the historically and socially constructed nature of human differences.

Degrees: Students may earn an Associate in Arts AA-DTA degree (90 credits) which is designed for students planning to transfer to a baccalaureate institution with junior standing. Students pursuing this degree should meet with an academic advisor at WWCC and an advisor at their intended baccalaureate institution to determine an appropriate educational plan. (See AA-DTA in Degrees section of catalog).

Preparation for Success: A major in Political Science is strengthened by studies in statistics and history. The ability to utilize computers for research purposes is mandatory in most disciplines.

Degrees

Associate in Science Degree - Option II (Physics)

Recommended two-year schedule (Option II). For other degree information, students should check with their advisors, transfer center staff, and college degree guidelines. Students should also note that it is extremely important to begin sequential courses in the fall since those courses are typically offered one quarter per year.

Transferability: For transfer information at specific institutions and/or programs consult with your advisor.

YEAR ONE

Quarter One	Credits
CHEM& 161, General Chemistry I with Lab	5
Physical Education Elective	1
MATH& 141, Precalculus I or approved elective	5
ENGL& 101, English Composition I	5
Total Credits	16

Quarter Two	Credits
MATH& 142, Precalculus II or approved elective	5
Science Elective (CHEM& 162, General Chemistry II Recommended) . . .	5
Social Science Elective	5
Total Credits	15

Quarter Three	Credits
CS 131, Computer Programming or CS 121, Problem Solving with Programming	5
Approved Elective	2
Physical Education Elective	1
Science Elective (CHEM& 163, General Chemistry III Recommended) . . .	5
Total Credits	13
Year One Total	44

YEAR TWO

Quarter One	Credits
Physical Education Elective	1

PROFESSIONAL GOLF MANAGEMENT

Professional Golf Management

CERT, AAAS

<http://wwcc.edu/golf>

Mike Rostollan 509.529.5678 mike.rostollan@wwcc.edu

Program available at/via: [Walla Walla]

Department Overview: Professional Golf Management provides students with expert instruction in golf shop operations, facility management, tournament administration, rules of golf, turf science, golf car fleet management and golf instruction. The program is an accredited USGA member training facility and staffed by certified Class A PGA Golf Professionals. Upon completion of the course content and a two-quarter cooperative training internship at an approved golf facility, the student is uniquely prepared for a variety of career paths in field of professional golf management. The program was developed in cooperation with regional golf professionals representing a wide variety of golf facilities; curriculum is maintained with oversight by an advisory committee comprised of local and regional industry members.

Program Level Outcomes:

- Develop marketable technical and interpersonal skills in the golf industry, resulting in career placement.
- Acquire appropriate licenses, certificates, and degrees upon exiting Walla Walla Community College.
- Provide relevant training through hands-on and field experience to prepare the students for the demands of the golf industry.
- Develop analytical thinking and problem-solving abilities through golf specific instructional labs, projects, and testing.
- Provide training in environmental and work place safety that meets or exceeds industry standards.

Degrees: Students may earn an Associate in Applied Arts and Sciences Degree in Professional Golf Management upon completion of the course content and a two-quarter cooperative training internship at an approved golf facility. A Professional Golf Management Certificate is available upon completion of the first year of the program.

Industry Description: The demand for professional golf managers and teachers has increased steadily with golf's ever expanding popularity. Professional golf managers work as club professionals, equipment manufacturer representatives, general managers, and golf instructors or coaches. Utilizing their knowledge of their sport, physiology, and corrective techniques, professional golf instructors work with golfers of all experience levels to improve their game. They determine the type and level of difficulty of exercises, prescribe specific drills, and evaluate the golfer's games.

Entrance Requirements: Students are required to have a golf background, letters of recommendation and instructor permission before entering the program. A placement test offered by the Student Development Center must be completed prior to admittance to the program.

Other Information: For additional information including regional employment data, completion rates, student characteristics, and employment see <http://www.wtb.wa.gov/etp>.

Degrees and Certificates

Professional Golf Management Certificate

This certificate is equivalent to the first year of the AAAS Degree in Professional Golf Management.

Certificate available at/via: [Walla Walla]

Certificate Outcomes:

- Perform tasks essential to golf shop operations.
- Develop organization and maintenance plans for golf car fleets.
- Demonstrate abilities in tournament administration.
- Promote golf lessons and develop instructional programs.
- Exhibit skills in practice facility management.
- Interpret and apply the rules of golf.
- Work closely with golf course maintenance staff.

YEAR ONE

Quarter One	Credits
BUS 112, Business Mathematics (M)	5
OCSUP 103, Job Seeking Skills (J)	3
PGM 101, Golf Management I	5
PGM 111, Introductory Golf Instruction	3
PGM 121, Rules of Golf I	3
TURF 101, Turf Equipment Operations I	3
Total Credits	22

Quarter Two	Credits
ACCT& 201, Principles of Accounting I	5
CS 110, Introduction to Computers and Applications *	5
PGM 102, Golf Management II	5
PGM 112, Intermediate Golf Instruction	3
PGM 131, Golf Car Fleet Management	3
WMGT 110, Lawn and Turf Irrigation	3
Total Credits	24

Quarter Three	Credits
PGM 191, Cooperative Work Experience	18
PGM 192, Cooperative Seminar (R)	2
Total Credits	20
Year One Total	66
Grand Total	66

EPC: 176C

* Students may take either CS 110, Intro to Computers and Applications or CS 115, Intro to Computer and Information Technology.

The following courses meet the related instruction requirements of this certificate/degree (one course per category required):

(J) - AGPR 100, BUS 292, OCSUP 103, PSYC 140

(M) - BUS 112, MATH 050, OCSUP 106

(R) - PGM 192

Associate in Applied Arts and Sciences Degree in Professional Golf Management

This technical degree prepares students for careers as club professionals, equipment manufacturer representatives, general managers, and golf instructors or coaches.

PROFESSIONAL GOLF MANAGEMENT - PSYCHOLOGY

Degree available at/via: [Walla Walla]

Degree Outcomes:

- Perform tasks essential to golf shop operations.
- Develop organization and maintenance plans for golf car fleets.
- Demonstrate abilities in tournament administration.
- Promote golf lessons and develop instructional programs.
- Exhibit skills in practice facility management.
- Identify basic principles of a food and beverage department.
- Interpret and apply the rules of golf.
- Manage key areas of golf merchandising concerns.
- Work closely with golf course maintenance staff.
- Understand fundamental practices in general management.

Transferability: The AAAS Degree is designed for students planning to enter their chosen career upon graduation. Often only selected credits are considered transferable to public or private baccalaureate institutions.

YEAR ONE

Quarter One	Credits
BUS 112, Business Mathematics (M)	5
OCSUP 103, Job Seeking Skills (J)	3
PGM 101, Golf Management I	5
PGM 111, Introductory Golf Instruction	3
PGM 121, Rules of Golf I	3
TURF 101, Turf Equipment Operations I	3
Total Credits	22

Quarter Two	Credits
ACCT& 201, Principles of Accounting I	5
CS 110, Introduction to Computers and Applications *	5
PGM 102, Golf Management II	5
PGM 112, Intermediate Golf Instruction	3
PGM 131, Golf Car Fleet Management	3
Total Credits	21

Quarter Three	Credits
PGM 191, Cooperative Work Experience	18
PGM 192, Cooperative Seminar (R)	2
Total Credits	20

Quarter Four	Credits
PGM 291, Cooperative Work Experience II	18
PGM 292, Cooperative Seminar II (L)	2
Total Credits	20
Year One Total	83

YEAR TWO

Quarter One	Credits
CMST& 220, Public Speaking (O)	5
PGM 201, Golf Management III	5
PGM 211, Corrective Golf Lessons	3
PGM 221, Rules of Golf II	2
TURF 122, Turf Maintenance Practices	3
WRITE 100, Applied Writing (W)	3
Total Credits	21

Quarter Two	Credits
ACCT& 202, Principles of Accounting II	5
PGM 202, Golf Management IV	5
PGM 212, Teaching the Advanced Player	2
TURF 211, Turf Management	5
Total Credits	17
Year Two Total	38
Grand Total	121

* Students may take either CS 110, Intro to Computers and Applications or CS 115, Intro to Computer and Information Technology.

The following courses meet the related instruction requirements of this certificate/degree (one course per category required):

(J) - AGPR 100, BUS 292, OCSUP 103, PSYC 140

(W) - BUS 137, ENGL 097, ENGL& 101, WRITE 100

(L) - CLS 180, PGM 292, PGM 299

(M) - BUS 112, MATH 050, OCSUP 106

(O) - CMST 102, CMST& 220, OCSUP 102

(R) - PGM 192

Psychology

<http://wwcc.edu/psychology>

Cami Eastep	509.527.3686	camie.eastep@wwcc.edu
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Cindy Stevenson-mc Clure	509.527.4332	cindy.stevenson@wwcc.edu

Program available at/via: [Walla Walla] [Clarkston] [Online (partial)]

Department Overview: Psychology is the scientific study of individual human behavior and mental processes. As a discipline, psychology uses scientific research methodology to understand the physiological, cognitive, and social processes that influence behavior. Scientific research methods assist psychologists in evaluating behavioral data and solving human problems such as those associated with development over the life span, brain functioning, learning, memory, psychopathology, and personality.

Program Level Outcomes:

- The ability to analyze past and present society, diverse cultures and histories to better understand individual and group behavior and enhance self awareness.
- An understanding and working knowledge of the theories, concepts, ideas, terminology, and factual evidence in selected fields within the social sciences.
- Sensitivity in understanding diverse views and perspectives.
- An understanding of the historically and socially constructed nature of human differences.

Degrees: Students may earn an Associate in Arts AA-DTA degree (90 credits) which is designed for students planning to transfer to a baccalaureate institution with junior standing. Students pursuing this degree should meet with an academic advisor at WWCC and an advisor at their intended baccalaureate institution to determine an appropriate educational plan. (See AA-DTA in Degrees section of catalog).

Preparation for Success: A major in Psychology is strengthened by studies in research and statistics, as well as courses in anatomy and physiology.

Other Information: Courses in psychology are valuable across a wide range of academic and vocational disciplines and professions. Successful completion of General Psychology (PSYC 100) and Lifespan (PSYC 200) are prerequisites for the Nursing program. Other program and transfer colleges may also require successful completion of a psychology course.

QUEST - SPANISH

Quest Program

<http://www.wwcc.edu/quest>

Department Overview: Classes are intended to provide learning opportunities in a variety of subjects.

Industry Description: Quest is a program that offers classes for students in the third stage of learning.

Reading

<http://www.wwcc.edu/reading>

Program available at/via: [Walla Walla] [Clarkston]

Department Overview: College preparation courses provide an environment that assists students in learning and practicing skills that lead to academic and occupational success. Courses included are in the areas of reading, writing, mathematics and study skills. Students who complete college preparation courses normally experience higher skill achievement and greater earning power.

The number of quarters required to complete the college preparation coursework is dependent upon the individuals' entrance examination scores. A student is typically co-enrolled in an AAAS or AA Degree.

Science

<http://www.wwcc.edu/science>

Jill Emigh

509.527.4558 jill.emigh@wwcc.edu

Department Overview: Science courses provide an environment that assists students in learning and practicing skills that lead to academic and occupational success. Courses include thinking and learning strategies to prepare students to succeed in college-level science courses. Students who complete Science courses normally experience higher skill achievement.

Program Level Outcomes:

- To offer a variety of introductory science classes which fulfill the necessary Natural Science graduation requirements for all AA transfer students.
- To assist non-science majors in becoming more scientifically literate.
- To provide science majors with the foundation knowledge they will need in order to successfully continue on to upper level courses at a transfer institution.
- To offer comprehensive sequences of lower division science classes in a variety of disciplines which provide science majors with a solid one or two years of preparation in their chosen field comparable to what they would receive in the first two years as a resident student at a transfer institution.
- To provide pre-professional (nursing, dentistry, optometry, physical therapy, etc.) students with the first two years of course work necessary for entrance in most Allied Health related programs.

Sociology

<http://www.wwcc.edu/sociology>

Susan Palmer

509.527.4545 susan.palmer@wwcc.edu

Program available at/via: [Walla Walla] [Clarkston] [Online (partial)]

Department Overview: Most of us have a basic idea about how houses or transportation systems are built, but little knowledge, beyond common sense, about how societies are constructed. Sociology systematically examines the architecture of our social world and our everyday interactions.

Sociology provides a framework to understand how societies, and social life in general, are created, maintained, and changed. Students of sociology gain an appreciation of why it is that we do things one way, while other cultures do things differently. Topics and issues in Sociology include: family, gender, race and ethnicity, human ecology, community, religion, government, globalization, social problems, social deviance, social welfare, social change and social stratification.

Program Level Outcomes:

- The ability to analyze past and present society, diverse cultures and histories to better understand individual and group behavior and enhance self awareness.
- An understanding and working knowledge of the theories, concepts, ideas, terminology, and factual evidence in selected fields within the social sciences.
- Sensitivity in understanding diverse views and perspectives.
- An understanding of the historically and socially constructed nature of human differences.

Degrees: Students may earn an Associate in Arts AA-DTA degree (90 credits) which is designed for students planning to transfer to a baccalaureate institution with junior standing. Students pursuing this degree should meet with an academic advisor at WWCC and an advisor at their intended baccalaureate institution to determine an appropriate educational plan. (See AA-DTA in Degrees section of catalog).

Preparation for Success: A major in Sociology is strengthened by studies in history, research and statistics.

Spanish

<http://www.wwcc.edu/spanish>

Jeff Adams

509.527.4644 jeff.adams@wwcc.edu

Program available at/via: [Walla Walla] [Clarkston]

Department Overview: The study of a modern language is a way of expanding one's horizons while developing specific linguistic skills that will enhance career, academic, and travel opportunities. One of the many benefits derived from modern-language study is the ability to transcend linguistic and cultural parochialism. To understand the uniqueness of one's own language and civilization, knowledge of another culture is essential. Language study is the key that unlocks the mysteries surrounding a foreign people. Through language, one is able to explore their literature, art, history, and philosophy-in short, their way of life.

SPANISH - TURF MANAGEMENT

Program Level Outcomes:

- An aesthetic and intellectual comprehension of culturally and linguistically diverse works in literature, philosophy, visual and performing arts, including film and music.
- An understanding and working knowledge of terminology commonly used in the humanities.
- An appropriate level of creativity, discipline, and technique in the production of assigned work in the humanities.

Degrees: Students may earn an Associate in Arts AA-DTA degree (90 credits) which is designed for students planning to transfer to a baccalaureate institution with junior standing. Students pursuing this degree should meet with an academic advisor at WWCC and an advisor at their intended baccalaureate institution to determine an appropriate educational plan. (See AA-DTA in Degrees section of catalog).

Preparation for Success: Students seeking a modern language major should take a broad range of courses that include writing and comprehension, both in English and in at least one other modern language. Competence in word-processing is very important. Other helpful pursuits include spending time abroad, engaging in comparable forms of direct contact with non-English speaking cultures, and reading extensively on a variety of subjects in English and at least one other language.

Turf Management

CERT, AAAS

<http://wwcc.edu/turfmanagement>

William Griffith 509.527.4269 bill.griffith@wwcc.edu

Program available at/via: [Walla Walla] [Online (full)]

Department Overview: Turf Management focuses on equipment operation and maintenance, irrigation system installation, repair and maintenance, and turf grass application, installation, and management. Two quarters of internship work experience combine classroom instruction with field experience to provide direct application of coursework. Many courses are offered via distance learning. Graduates of this program may find employment as assistant golf course superintendents, assistant sports turf managers, landscape maintenance and construction crew supervisors, parks department grounds keepers, and school district groundskeepers. The Turf Management curriculum is reviewed by an advisory board composed of local and regional industry members.

Program Level Outcomes:

- To provide a variety of courses in order to prepare students' for careers in turf management.
- To provide students with a variety of courses that allow them to for transfer to WSU four year Turf Management Program with academic skills needed to succeed in upper division work.
- Provide relevant training through hands-on and field experience to prepare the students for industry.
- To encourage students to explore and develop critical thinking and creative thinking.
- To help students develop and perfect communication skills.

- To assist students in understanding, and using the concepts of each course.
- To develop increased environmental awareness and appreciation.
- To help students develop and perfect the most efficient use of natural resources.

Degrees: Students may earn an Associate in Applied Arts and Sciences Degree in Turf Management upon completion of the two-year program of study. A Turf Management Certificate is available upon completion of the first year of the program.

Industry Description: The turf management industry has shown a steady growth rate in job opportunities for trained turf professionals. The turf management sector employs individuals as groundskeepers, golf course maintenance supervisors, parks grounds supervisors, sports field supervisors, turf landscape technicians, turf grass specialists, and sod farm managers.

Entrance Requirements: It is recommended that the student contact the lead instructor regarding appropriate program placement and paying a priority list fee to determine specific quarter start in the program. Students may enter the program fall, winter or spring quarter, however, due to course sequencing it is recommended to begin in the fall. A placement test and mechanical reasoning test offered by the Student Development Center must be completed prior to admittance to the program.

Other Information: All courses are offered on campus or through Distance Learning. For more information on Distance Learning please contact the Turf Management program.

For additional information including regional employment data, completion rates, student characteristics, and employment see <http://www.wtb.wa.gov/etp>.

Degrees and Certificates

Turf Management Certificate

This certificate is equivalent to the first three quarters of the AAAS Degree in Turf Management.

Certificate available at/via: [Walla Walla] [Online (full)]

Certificate Outcomes:

- Operate and maintain a variety of mower units, top dressers, aerification units, trimmers, and miscellaneous turf equipment.
- Calibrate a variety of sprayers.
- Demonstrate proper watering techniques and the ability to assess plant water use, knowledge of the nutritional needs of plants, fertilizer selection, and use.
- Perform various functions related to the care and maintenance of golf courses, including material and equipment selection.
- Demonstrate knowledge of turf grass cultivars and seed selection.
- Demonstrate knowledge of construction methods used for decks, patios and walkways.

For the most current information see: www.wwcc.edu

TURF MANAGEMENT

- Demonstrate knowledge of tree pruning and tree removal principles and the ability to prune.
- Demonstrate knowledge of safety and first aid of pesticides and proper pesticide handling.

YEAR ONE

Quarter One	Credits
AGPR 113, Plant Anatomy and Morphology	3
AGPR 201, Basic Soil Science	5
OCSUP 103, Job Seeking Skills (J)	3
TURF 101, Turf Equipment Operations I	3
TURF 122, Turf Maintenance Practices	3
WMGT 112, Irrigation Principles	5
Total Credits	22

Quarter Two	Credits
AGPR 202, Soils Fertility and Management	5
OCSUP 106, Applied Mathematics I (M)	5
TURF 102, Turf Equipment Operations II	3
TURF 215, Turf Diseases and Insects	3
WMGT 110, Lawn and Turf Irrigation	3
WRITE 100, Applied Writing (W)	3
Total Credits	22

Quarter Three	Credits
TURF 191, Cooperative Work Experience	16 - 25
TURF 192, Cooperative Seminar (R)	2
Total Credits	18-27

Quarter Four	Credits
TURF 291, Cooperative Work Experience II	16 - 25
TURF 292, Cooperative Seminar II (L)	2
Total Credits	18-27
Year One Total	80-98
Grand Total	80-98

EPC: 160C

The following courses meet the related instruction requirements of this certificate/degree (one course per category required):

(J) - OCSUP 103

(W) - BUS 137, ENGL 097, ENGL& 101, WRITE 100,

(L) - TURF 292

(M) - BUS 112, MATH 049, OCSUP 106, OCSUP 108

(O) - CMST 102, CMST& 220, OCSUP 102

(R) - TURF 192

Associate in Applied Arts and Sciences Degree in Turf Management

This technical degree prepares the student with the practical knowledge and experience necessary join the turf maintenance industry in a number of entry-level or mid-level positions, and will have obtained the technical advantage with which the individual may moving quickly to mid-management positions within the industry.

Degree available at/via: [Walla Walla] [Online]

Degree Outcomes:

- Operate and maintain a variety of mower units, top dressers, aerification units, trimmers, and miscellaneous turf equipment.
- Calibrate a variety of sprayers.
- Demonstrate proper watering techniques and the ability to assess plant water use, knowledge of the nutritional needs of plants, fertilizer selection, and use.
- Perform various functions related to the care and maintenance of golf courses, including material and equipment selection.

- Demonstrate knowledge of turf grass cultivars and seed selection.
- Demonstrate knowledge of construction methods used for decks, patios and walkways.
- Demonstrate knowledge of tree pruning and tree removal principles and the ability to prune.
- Demonstrate knowledge of safety and first aid of pesticides and proper pesticide handling.

Transferability: The AAAS Degree is designed for students planning to enter their chosen career upon graduation. Often only selected credits are considered transferable to public or private baccalaureate institutions.

Other Information: Courses in Spanish, Agri-Business, Agricultural Science, Civil Engineering Technology, Computer Science, Outdoor Power Equipment, and/or Water Management may be recommended to fulfill a student's areas of focus for the Turf Management Degree.

YEAR ONE

Quarter One	Credits
AGPR 113, Plant Anatomy and Morphology	3
AGPR 201, Basic Soil Science	5
OCSUP 103, Job Seeking Skills (J)	3
TURF 101, Turf Equipment Operations I	3
TURF 122, Turf Maintenance Practices	3
WMGT 112, Irrigation Principles	5
Total Credits	22

Quarter Two	Credits
AGPR 202, Soils Fertility and Management	5
OCSUP 106, Applied Mathematics I (M)	5
TURF 102, Turf Equipment Operations II	3
TURF 215, Turf Diseases and Insects	3
WMGT 110, Lawn and Turf Irrigation	3
WRITE 100, Applied Writing (W)	3
Total Credits	22

Quarter Three	Credits
TURF 191, Cooperative Work Experience	16 - 25
TURF 192, Cooperative Seminar (R)	2
Total Credits	18-27

Quarter Four	Credits
TURF 291, Cooperative Work Experience II	16 - 25
TURF 292, Cooperative Seminar II (L)	2
Total Credits	18-27
Year One Total	80-98

YEAR TWO

Quarter One	Credits
AGPR 140, Agriculture Safety and Health	3
CMST& 220, Public Speaking (O)	5
TURF 201, Turf Physiology	6
TURF 221, Landscape Maintenance and Construction	5
TURF 252, Turf Equipment Maintenance and Repair	3
Total Credits	22

Quarter Two	Credits
AGPR 105, Weed Biology and Identification	5
TURF 211, Turf Management	5
TURF 231, Pesticide Licensing	3
WMGT 225, Irrigation Design	6
Total Credits	19
Year Two Total	41
Grand Total	121-139

EPC: 160

The following courses meet the related instruction requirements of this certificate/degree (one course per category required):

For the most current information see: www.wcc.edu

TURF MANAGEMENT - WATER MANAGEMENT

(J) - OCSUP 103

(W) - BUS 137, ENGL 097, ENGL& 101, WRITE 100,

(L) - TURF 292

(M) - BUS 112, MATH 049, OCSUP 106, OCSUP 108

(O) - CMST 102, CMST& 220, OCSUP 102

(R) - TURF 192

Water Management

CERT, AAAS

<http://wwcc.edu/water>

Gerald Anhorn 509.524.4809 gerald.anhorn@wwcc.edu

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Program available at/via: [Walla Walla] [Online (partial)]

Department Overview: The Water Management program offers several degree tracks for students which include Irrigation Technology and Water Resources Technology.

Irrigation Technology provides practical, cooperative learning experience in both the agriculture and the turf industries. The study of irrigation principles and practices, water and energy conservation, pumps, and fluid hydraulics, troubleshooting, and installation prepare students for industry challenges. Graduates of the Irrigation Technology program are highly recruited to design, sell, install, operate, maintain, manage, and/or service turf, landscape, and agricultural irrigation systems.

Water Resources Technicians are skilled in planning, developing, managing and evaluating programs designed to protect and regulate natural habitats and natural resources. Technicians will have the skills necessary to analyze soil, plant, and water relationships; as well as understand water relationships to environment, economic, and sociological impacts to communities.

Students in the program have the unique opportunity to participate in a paid work experience in spring and summer quarters of the program. Some courses are offered via distance delivery.

The Water Management curriculum is reviewed annually by an advisory board composed of local and regional industry members.

Program Level Outcomes:

- Provide the irrigation and water resources technology industries with highly trained, fully employable, skilled technicians.
- Develop relationships and/or partnerships with existing irrigation and water resources organizations and institutions in the continuing education of industry practitioners.
- Provide industry work experience during the educational process, giving students exposure to the actual application of irrigation principles and practices.
- Provide campus labs, classrooms, equipment and general facilities utilizing cutting edge technologies and practices.
- Provide highly trained instructors who have significant field experiences as successful practitioners in this industry.

Degrees: Students may earn an Associate in Applied Arts and Sciences Degree in Irrigation Technology upon completion of the two-year program of study. The Irrigation Technology degree

prepares graduates for highly skilled entry-level positions within the industry and/or transferability to Washington State University. This provides students the flexibility to pursue a technical field of study with an option to continue their education and earn a Bachelor of Science degree. A Irrigation Technology Certificate is available upon completion of the first year of the program.

Students may earn an Associate in Applied Arts and Sciences Degree in Water Resources Technology upon completion of the two-year program of study.

Industry Description: Water is a resource that impacts our lives on a daily basis. Due to water shortages, today and in the future, management of this precious resource is critical. With heightened emphasis on environmental concerns, the demand on water supplies requires that old, inefficient practices and systems be updated or replaced. This notion is creating a demand for a broad range of irrigation and hydrological expertise. Knowledge of water management and policy is important in the agriculture, turf maintenance, and municipal landscape industries. The water management industry is experiencing a period of rapid technological advancement in labor saving and water conserving irrigation systems. It is also having to manage a finite resource. Highly skilled technicians are required to design, install, operate and maintain these new technologies. Graduates of this program have been highly recruited, and job placement is exceptional.

Entrance Requirements: It is recommended that the student contact the lead instructor regarding appropriate program placement and paying a priority list fee to determine specific quarter start in the program. Students may enter the program fall, winter or spring quarter, however, due to course sequencing it is recommended to begin in the fall. A placement test and mechanical reasoning test offered by the Student Development Center must be completed prior to admittance to the program.

Other Information: For additional information including regional employment data, completion rates, student characteristics, and employment see <http://www.wtb.wa.gov/etp>.

Degrees and Certificates

Irrigation Technology Certificate

This certificate is equivalent to the first year of the AAAS Degree in Water Management.

Certificate available at/via: [Walla Walla]

Certificate Outcomes:

- Distinguish between types of irrigation equipment and their applications.
- Install properly designed lawn systems.
- Identify mechanical components of valves, center pivots and pumps.
- Generate IRRICAD and Eagle Point designs.
- Design basic drip systems.
- Analyze irrigation pumps and controls in relation to a complete irrigation system.
- Perform soil moisture measurements and water scheduling.
- Assess and design fish screens.

For the most current information see: www.wwcc.edu

WATER MANAGEMENT

- Develop an understanding of water related cultural perspectives, views and opinions.
- Understand watershed processes and how they relate to the natural environment.
- Gain insight into western water law and policies which affect the use and non-use of water.
- Develop an awareness and understanding of fundamental elements of leadership, interpersonal communication, teamwork and collaborative problem solving.

YEAR ONE

Quarter One		Credits
ENGR& 111, Engineering Graphics I	4	
EST 131, Principles of Electricity Theory *	5	
WMGT 100, Orientation to Irrigation	3	
WMGT 112, Irrigation Principles	5	
WMGT 135, Cultures of Water **	5	
WRITE 100, Applied Writing (W)	3	
Total Credits		25
Quarter Two		Credits
OCSUP 107, Introduction to Technical Mathematics (M)****	4	
WMGT 110, Lawn and Turf Irrigation	3	
WMGT 141, Irrigation Troubleshooting	7	
WMGT 143, Turf and Landscape Troubleshooting	3	
WMGT 230, Water and Energy Conservation ***	3	
Total Credits		20
Quarter Three		Credits
WMGT 191, Cooperative Work Experience****	16	
WMGT 192, Cooperative Seminar (R)	2	
Total Credits		18
Year One Total		63
Grand Total		63

EPC: 130C

* Students may substitute EST 132, Principles of Electricity AC Application for EST 131, Principles of Electricity Theory.

** WMGT 135, Cultures of Water is offered even years and WMGT 204, Water Policy is offered odd years. Students completing the one-year certificate may use either course.

*** WMGT 230, Water and Energy Conservation is offered even years and WMGT 220, Drip Irrigation is offered odd years. Students completing the one-year certificate may use either course.

**** AGPR 101, Introduction to Environmental Studies may be substituted for 5 credits of Cooperative Work Experience.

***** Students are required to complete OCSUP 107, Intro to Technical Math or MATH& 141, Precalculus I. Depending on placement test results students may need to complete OCSUP 106, Applied Math I fall quarter.

The following courses meet the related instruction requirements of this certificate/degree (one course per category required):

(W) - BUS 137, ENGL 097, ENGL& 101, WRITE 100,

(M) - MATH& 142, OCSUP 107

(R) - BUS 157, OCSUP 101, PSYC 111, PSYC& 100, WMGT 192

Associate in Applied Arts and Sciences Degree in Water Resources Technology

This technical degree prepares the student for immediate employment in the water resources industry.

Degree available at/via: [Walla Walla] [Online (partial)]

Degree Outcomes:

- Distinguish between types of irrigation equipment and their applications.
- Install properly designed lawn systems.
- Identify mechanical components of valves, center pivots

and pumps.

- Design basic drip systems.
- Analyze irrigation pumps and controls in relation to a complete irrigation system.
- Perform soil moisture measurements and water scheduling.
- Assess and design fish screens.
- Develop an understanding of water related cultural perspectives, views and opinions.
- Understand watershed processes and how they relate to the natural environment.
- Gain insight into western water law and policies which affect the use and non-use of water.
- Develop an awareness and understanding of fundamental elements of leadership, interpersonal communication, teamwork and collaborative problem solving.

Transferability: The AAAS Degree is designed for students planning to enter their chosen career upon graduation. Often only selected credits are considered transferable to public or private baccalaureate institutions.

YEAR ONE

Quarter One		Credits
AGPR 113, Plant Anatomy and Morphology	3	
WMGT 112, Irrigation Principles	5	
WMGT 135, Cultures of Water (R)**	5	
WMGT 139, Watershed Management	5	
Total Credits		18
Quarter Two		Credits
CET 250, Introduction to GIS	3	
WMGT Elective*	3	
ENGR& 111, Engineering Graphics I	4	
OCSUP 107, Introduction to Technical Mathematics (M)****	4	
WMGT 230, Water and Energy Conservation ***	3	
Total Credits		17
Quarter Three		Credits
CET 160, Elementary Surveying	6	
CET 251, Advanced GIS	3	
NR 200, Field Botany *****	5	
Total Credits		14
Quarter Four		Credits
WMGT 191, Cooperative Work Experience	10	
WMGT 292, Cooperative Seminar II (L)	2	
Total Credits		12
Year One Total		61

YEAR TWO

Quarter One		Credits
AGPR 201, Basic Soil Science	5	
CET 223, Hydraulics	5	
OCSUP 103, Job Seeking Skills (J)	3	
WMGT 204, Water Policy **	5	
Total Credits		18
Quarter Two		Credits
CET 166, Introduction to Hydrology	5	
WMGT 220, Drip Irrigation ***	3	
WMGT 221, Pump Applications	3	
WMGT 225, Irrigation Design	6	
Total Credits		17
Year Two Total		35
Grand Total		96

EPC: 130A

* Electives include WMGT 110, Lawn and Turf Irrigation or WMGT 143, Lawn and Turf Troubleshooting.

For the most current information see: www.wcc.edu

WATER MANAGEMENT

**** To fulfill the Written Communications and Oral Communications related instruction requirements, students must take WMGT 135, Cultures of Water; WMGT 139, Watershed Management; and WMGT 204, Water Policy.**

WMGT 135, Cultures of Water is offered even years and WMGT 204, Water Policy is offered odd years. Students completing the one-year certificate may use either course.

***** WMGT 230, Water and Energy Conservation is offered even years and WMGT 220, Drip Irrigation is offered odd years. Students completing the one-year certificate may use either course.**

****** Students are required to complete OCSUP 107, Intro to Technical Math or MATH& 141, Precalculus I. Depending on placement test results students may need to complete OCSUP 106, Applied Math I fall quarter.**

******* Students may complete either NR 200, Plant Botany or BIOL 130, General Ecology.**

The following courses meet the related instruction requirements of this certificate/degree (one course per category required):

(J) - AGPR 100, OCSUP 103, PSYC 140

(W) - BUS 137, ENGL 097, ENGL& 101, WRITE 100

(L) - WMGT 292

(M) - MATH& 142, OCSUP 107

(O) - CMST 102, CMST& 220, OCSUP 102

(R) - BUS 157, OCSUP 101, PSYC 111, PSYC& 100, WMGT 135, WMGT 192

Associate in Applied Arts and Sciences Degree in Irrigation Technology

This technical degree prepares the student for immediate employment in the water management and irrigation service industry in both the rural and urban setting.

Degree available at/via: [Walla Walla] [Online (partial)]

Degree Outcomes:

- Distinguish between types of irrigation equipment and their applications.
- Install properly designed lawn systems.
- Identify mechanical components of valves, center pivots and pumps.
- Generate IRRICAD and Eagle Point designs.
- Design basic drip systems.
- Analyze irrigation pumps and controls in relation to a complete irrigation system.
- Perform soil moisture measurements and water scheduling.
- Assess and design fish screens.
- Develop an understanding of water related cultural perspectives, views and opinions.
- Understand watershed processes and how they relate to the natural environment.
- Gain insight into western water law and policies which affect the use and non-use of water.
- Develop an awareness and understanding of fundamental elements of leadership, interpersonal communication, teamwork and collaborative problem solving.

Transferability: The AAAS Degree is designed for students planning to enter their chosen career upon graduation. Often only selected credits are considered transferable to public or private baccalaureate institutions.

YEAR ONE

Quarter One	Credits
ENGR& 111, Engineering Graphics I	4
EST 131, Principles of Electricity Theory *	5
WMGT 100, Orientation to Irrigation	3
WMGT 112, Irrigation Principles	5
WMGT 135, Cultures of Water **	5
WRITE 100, Applied Writing (W)	3
Total Credits	25

Quarter Two	Credits
OCSUP 107, Introduction to Technical Mathematics (M)*****	4
WMGT 110, Lawn and Turf Irrigation	3
WMGT 141, Irrigation Troubleshooting	7
WMGT 143, Turf and Landscape Troubleshooting	3
WMGT 230, Water and Energy Conservation ***	3
Total Credits	20

Quarter Three	Credits
WMGT 191, Cooperative Work Experience	16
WMGT 192, Cooperative Seminar (R)	2
Total Credits	18

Quarter Four	Credits
WMGT 291, Cooperative Work Experience II***	18
WMGT 292, Cooperative Seminar II (L)	2
Total Credits	20
Year One Total	83

YEAR TWO

Quarter One	Credits
AGPR 201, Basic Soil Science	5
CET 223, Hydraulics	5
OCSUP 103, Job Seeking Skills (J)	3
WMGT 204, Water Policy **	5
WMGT 241, Advanced Irrigation Systems	5
Total Credits	23

Quarter Two	Credits
CET 250, Introduction to GIS	3
CMST 102, Interpersonal Communication (O)	3
EST 260, Introduction to the National Electrical Code	2
WMGT 220, Drip Irrigation ***	3
WMGT 221, Pump Applications	3
WMGT 225, Irrigation Design	6
Total Credits	20
Year Two Total	43
Grand Total	126

EPC: 130

*** Students may substitute EST 132, Principles of Electricity AC Application for EST 131, Principles of Electricity Theory.**

**** WMGT 135, Cultures of Water is offered even years and WMGT 204, Water Policy is offered odd years. Students completing the one-year certificate may use either course.**

***** WMGT 230, Water and Energy Conservation is offered even years and WMGT 220, Drip Irrigation is offered odd years. Students completing the one-year certificate may use either course.**

****** AGPR 101, Introduction to Environmental Studies may be substituted for 5 credits of Cooperative Work Experience.**

******* Students are required to complete OCSUP 107, Intro to Technical Math or MATH& 142, Precalculus II. Depending on placement test results students may need to complete OCSUP 106, Applied Math I fall quarter.**

The following courses meet the related instruction requirements of this certificate/degree (one course per category required):

(J) - AGPR 100, BUS 292, OCSUP 103, PSYC 140

(W) - BUS 137, ENGL 097, ENGL& 101, WRITE 100,

(L) - BUS 192, CLS 180, POLS 125, WMGT 292

(M) - MATH& 142, OCSUP 107

(O) - CMST 102, CMST& 220, OCSUP 102

(R) - BUS 157, OCSUP 101, PSYC 111, PSYC& 100, WMGT 192

WATERSHED ECOLOGY

Watershed Ecology

CERT, AAAS

<http://www.wbcc.edu/watershedecology>

Melissa Holecek 509.524.5208 melissa.holecek@wbcc.edu

Program available at/via: [Walla Walla]

Department Overview: Watershed Ecology will enable students to learn about ecosystems as they relate to watershed processes. Students will become well versed in living systems, flora and fauna, as well as non-living systems. Watershed Ecology will expose students to technical courses to provide them with cutting-edge skills, and communication courses providing experience in working with individuals possessing different ecological values and cultural identities. This will prepare them for entry level employment and provide skill improvements for individuals already in the workforce.

Program Level Outcomes:

- Holistic approach towards ecosystems.
- Research and data collection methods.
- Applicable field experience.

Degrees: Students may earn an Associate in Applied Arts and Sciences in Watershed Ecology upon completion of the two-year program of study. A Watershed Ecology Certificate is available upon completion of the first year of the program.

Industry Description: Watershed Ecology blends knowledge of biological sciences with application of cutting-edge technical skills. Technicians will be skilled in identifying and assessing natural habitat needs of fish and wildlife in relation to healthy ecosystems, with emphasis on the restoration and management of aquatic environments.

Entrance Requirements: Students may begin their study in these programs in fall, winter or spring quarters. However, due to course sequencing and course prerequisites, it is preferable to begin in the fall quarter. A placement test offered by the Student Development Center must be completed prior to admittance to the program.

Degrees and Certificates

Watershed Ecology Certificate

This certificate is equivalent to the first year of the AAAS Degree in Watershed Ecology.

YEAR ONE

Quarter One	Credits
AGPR 113, Plant Anatomy and Morphology	3
WMGT 112, Irrigation Principles	5
WMGT 135, Cultures of Water (R)**	5
WMGT 139, Watershed Management	5
Total Credits	18

Quarter Two	Credits
ENGR& 111, Engineering Graphics I	4
NR 239, Watershed Processes and Restoration	5
OCSUP 107, Introduction to Technical Mathematics (M)*	4
WMGT 230, Water and Energy Conservation	3
Total Credits	16

Quarter Three	Credits
BIOL& 100, Survey of Biology	5
NR 190, Water Quality and Environmental Chemistry	5
NR 200, Field Botany	5
Total Credits	15

Quarter Four	Credits
WMGT 191, Cooperative Work Experience	10
WMGT 292, Cooperative Seminar II (L)	2
Total Credits	12
Year One Total	61
Grand Total	61

EPC: 165C

* Students are required to complete OCSUP 107, Intro to Technical Math or MATH& 141, Precalculus I. Depending on placement test results students may need to complete OCSUP 106, Applied Math I fall quarter.

** WMGT 135, Cultures of Water is offered every other year. Students may take WMGT 204, Water Policy to fulfill this requirement. If student takes WMGT 204, more related instruction is needed to receive the certificate.

The following courses meet the related instruction requirements of this certificate/degree (one course per category required):

(L) - WMGT 292

(M) - MATH& 142, OCSUP 107

(R) - WMGT 135, WMGT 192

Associate in Applied Arts and Sciences in Watershed Ecology

This technical degree prepares students for immediate employment in the natural resource and/or environmental industry.

Degree available at/via: [Walla Walla]

Degree Outcomes:

- Identify watershed processes of capture, storage and release of water throughout a geographic area.
- Identify selected trees, shrubs, forbs and grasses native to the Pacific Northwest.
- Identify species and habitat needs of common northwest terrestrial and aquatic species.
- Collect samples, complete field surveys, analyze, and report data.
- Collect, recognize and identify aquatic organisms from invertebrate insects to fish species, relating what is found to the habitat and aquatic ecosystem conditions.
- Set up monitoring plans and schedules to collect, measure, analyze and report water quality parameters.
- Identify restoration practices used to improve riparian and aquatic habitats and water quality.
- Have knowledge and understanding of Federal and State laws that pertain to water and a working knowledge of water rights laws.
- Operate a hand compass, staff compass, transit, level, global positioning systems (GPS), and electronic instruments in determining slopes, turning angles, running traverses, locating ownership boundaries, and determining locations.
- Utilize maps and aerial photographs in the management of natural resources, including the use of geographic information systems (GIS).
- Apply basic knowledge in soils to the management of natural resources.
- Demonstrate interpersonal skills needed for successful job performance.

For the most current information see: www.wbcc.edu

WATERSHED ECOLOGY - WELDING TECHNOLOGY

- Ability to write reports and give presentations.
- Explain the relationships between soil, water and plants.

YEAR ONE

Quarter One	Credits
AGPR 113, Plant Anatomy and Morphology	3
WMGT 112, Irrigation Principles	5
WMGT 135, Cultures of Water (R)**	5
WMGT 139, Watershed Management	5
Total Credits	18

Quarter Two	Credits
ENGR& 111, Engineering Graphics I	4
NR 239, Watershed Processes and Restoration	5
OCSUP 107, Introduction to Technical Mathematics (M)*	4
WMGT 230, Water and Energy Conservation ***	3
Total Credits	16

Quarter Three	Credits
BIOL& 100, Survey of Biology	5
NR 190, Water Quality and Environmental Chemistry	5
NR 200, Field Botany	5
Total Credits	15

Quarter Four	Credits
WMGT 191, Cooperative Work Experience	10
WMGT 292, Cooperative Seminar II (L)	2
Total Credits	12
Year One Total	61

YEAR TWO

Quarter One	Credits
AGPR 201, Basic Soil Science	5
BIOL 130, General Ecology	5
CET 223, Hydraulics	5
WMGT 204, Water Policy **	5
Total Credits	20

Quarter Two	Credits
CET 166, Introduction to Hydrology	5
CET 250, Introduction to GIS	3
OCSUP 103, Job Seeking Skills (J)	3
WMGT 221, Pump Applications	3
Total Credits	14

Quarter Three	Credits
CET 160, Elementary Surveying	6
CET 251, Advanced GIS	3
NR 220, Methods in Fish Biology	5
Total Credits	14
Year Two Total	48
Grand Total	109

EPC: 165

* Students are required to complete OCSUP 107, Intro to Technical Math or MATH& 141, Precalculus I. Depending on placement test results students may need to complete OCSUP 106, Applied Math I fall quarter.

** To fulfill the Written Communications and Oral Communications related instruction requirements, students must take WMGT 135, Cultures of Water; WMGT 139, Watershed Management; and WMGT 204, Water Policy.

WMGT 135, Cultures of Water and WMGT 204, Water Policy are offered during fall quarter every other year.

*** WMGT 230, Water and Energy Conservation is offered every other year.

The following courses meet the related instruction requirements of this certificate/degree (one course per category required):

(J) - OCSUP 103, PSYC 140

(W) - ENGL& 101, ENGL& 102, WRITE 100,

(L) - WMGT 292

(M) - MATH& 142, OCSUP 107

(O) - CMST 102, CMST& 220, OCSUP 102

(R) - OCSUP 101, PSYC 111, WMGT 135, WMGT 192

Welding Technology

CERT, AAAS

<http://wwcc.edu/welding>

Michael Haggard 509.527.4219 michael.haggard@wwcc.edu

Program available at/via: [Walla Walla]

Department Overview: Welding Technology offers a certified, state-of-the-art welding facility complemented by certified welding instructors. Students train and learn to meet the current certification requirements of manufacturing and construction industries and exploring many career alternatives related to the welding industry. The program's technical training complies with American Welding Society (AWS) S.E.N.S.E. standards, increases the students' understanding of welding and the related science, meets employers' expectations, and increases the students' ability to compete in the employment marketplace. Training includes oxyacetylene cutting and welding, brazing, soldering, SMAW, GMAW, FCAW, GTAW, blueprint/layout standards and methods, welding procedures specifications, testing methods, quality control, metallurgy, and safe work practices. Welder certifications are conducted according to AWS/ASME and WABO (Washington Association of Building Officials) standards. Process certifications are available and include plate and pipe welding using shielded metal arc, gas metal arc, and gas tungsten arc welding. The Welding Technology curriculum is reviewed by an advisory board composed of local and regional industry members.

Program Level Outcomes:

- Assure the Welding program is in full compliance with AWS/WABO standards and the needs of the metals welding industry.
- Upgrade welding curriculum relevance to employer technical needs in the region with assistance from the advisory committee.
- Enhance student enrollment, retention, and completion rates.
- Fully institutionalize aluminum and stainless steel welding certificate programs.
- Train students to be employed at an entry level by possessing knowledge, attitudes, skills, and habits required to perform welding operations.

Degrees: Students may earn an Associate in Applied Arts and Science in Welding Technology upon completion of the second year of instruction. To demonstrate welding proficiencies, students must pass certification tests prior to completion. Welding certifications include plate and pipe welding using shielded metal arc, gas metal arc, and gas tungsten arc welding processes. To meet the degree requirements, welding students must become certified in at least two processes, with at least one according to WABO Standards. A Welding Technology Certificate is available upon completion of three specific welding courses and related instruction during the first year of instruction in the program.

Industry Description: Welding is a joining process that produces coalescence of metals by heating them to the welding temperature forming a permanent connection. Due to the

WELDING TECHNOLOGY

strength of this connection, welding is used in shipbuilding, automobile manufacturing and repair, aerospace applications, and thousands of other manufacturing activities. Welding is also used in the construction of buildings, bridges, pipelines, power plants, and refineries. Due to the wide variety of applications, welders utilize many types of welding processes: i.e. SMAW (Arc), GTAW (Tig), GMAW (Mig) and OAW/C (Gas), as well as soldering and brazing. The demand for qualified welders is increasing steadily as the industry strengthens certification requirements and improves construction standards.

Entrance Requirements: It is recommended that the student contact the lead instructor regarding appropriate program placement and paying a priority list fee to determine specific quarter start in the program. Students may enter the program fall, winter or spring quarter. A placement test and mechanical reasoning test offered by the Student Development Center must be completed prior to attendance in degree or certificate level courses.

Other Information: For additional information including regional employment data, completion rates, student characteristics, and employment see <http://www.wtb.wa.gov/etp>.

Degrees and Certificates

Welding Technology Certificate

This certificate is equivalent to the first year of the AAAS Degree in Welding Technology.

Certificate available at/via: [Walla Walla]

Certificate Outcomes:

- Identify major requirements to safely operate equipment to produce cuts, gouges, grinds and weldments.
- Demonstrate set-up, operation and shut down operations using welding and cutting equipment.
- Demonstrate welding, brazing and cutting techniques using fuel gas and electric arc processes.
- Demonstrate knowledge and experience with weldment testing using industry accepted standards and practices.
- Demonstrate manual welding experience using stainless steel and aluminum alloys.
- Demonstrate welding mild steel, stainless steel and aluminum alloys using semi-automatic equipment/procedures.
- Perform welding visual inspection procedure to determine compliance with appropriate codes and standards.

YEAR ONE

Quarter One	Credits
WELD 151, Shielded Metal Arc Welding I	17
ENGR& 111, Engineering Graphics I	4
Total Credits	21
Quarter Two	Credits
WELD 152, Shielded Metal Arc Welding II	17
OCSUP 106, Applied Mathematics I (M)	5
Total Credits	22

Quarter Three

WELD 153, Shielded Metal Arc Welding III	17
OCSUP 101, Job Psychology: Workplace and Educational Success Skills (R) 3	3
WRITE 100, Applied Writing (W)	3
Total Credits	23
Year One Total	66
Grand Total	66

EPC: 814C

The following courses meet the related instruction requirements of this certificate/degree (one course per category required):

- (J) - AGPR 100, OCSUP 103, PSYC 140
 (W) - BUS 137, ENGL 097, ENGL& 101, WRITE 100,
 (L) - WELD 299
 (M) - BUS 112, MATH 049, OCSUP 106
 (O) - CMST 102, CMST& 220, OCSUP 102
 (R) - BUS 157, OCSUP 101, PSYC 111, PSYC& 100

Associate in Applied Arts and Sciences Degree in Welding Technology

This technical degree trains the student according to American Welding Society (AWS) standards. Through completion of this degree, the student will have completed the Washington Association of Building Officials (WABO) certification. Students will be prepared to enter the welding, manufacturing and/or fabrication industry.

Degree available at/via: [Walla Walla]

Degree Outcomes:

- Identify major requirements to safely operate equipment to produce cuts, gouges, grinds and weldments.
- Demonstrate set-up, operation and shut down operations using welding and cutting equipment.
- Demonstrate welding, brazing and cutting techniques using fuel gas and electric arc processes.
- Demonstrate knowledge and experience with weldment testing using industry accepted standards and practices.
- Demonstrate manual welding experience using stainless steel and aluminum alloys.
- Demonstrate welding mild steel, stainless steel and aluminum alloys using semi-automatic equipment/procedures.
- Perform welding visual inspection procedure to determine compliance with appropriate codes and standards.

Transferability: The AAAS Degree is designed for students planning to enter their chosen career upon graduation. Often only selected credits are considered transferable to public or private baccalaureate institutions.

YEAR ONE

Quarter One	Credits
WELD 151, Shielded Metal Arc Welding I	17
ENGR& 111, Engineering Graphics I	4
Total Credits	21
Quarter Two	Credits
WELD 152, Shielded Metal Arc Welding II	17
OCSUP 106, Applied Mathematics I (M)	5
Total Credits	22

WELDING TECHNOLOGY - WRITING

Quarter Three

	Credits
WELD 153, Shielded Metal Arc Welding III	17
OCSUP 101, Job Psychology: Workplace and Educational Success Skills (R) 3	
WRITE 100, Applied Writing (W)	3
Total Credits	23
Year One Total	66

YEAR TWO

Quarter One

	Credits
WELD 256, Gas Metal Arc Welding	17
OCSUP 102, Oral Communication in the Workplace (O)	3
Total Credits	20

Quarter Two

	Credits
WELD 255, Gas Tungsten Arc Welding	17
OCSUP 103, Job Seeking Skills (J)	3
Total Credits	20

Quarter Three

	Credits
WELD 254, Shielded Metal Arc - Pipe	17
WELD 299, Leadership (L)	1
Total Credits	18
Year Two Total	58
Grand Total	124

EPC: 814

The following courses meet the related instruction requirements of this certificate/degree (one course per category required):

(J) - AGPR 100, OCSUP 103, PSYC 140

(W) - BUS 137, ENGL 097, ENGL& 101, WRITE 100,

(L) - WELD 299

(M) - BUS 112, MATH 049, OCSUP 106

(O) - CMST 102, CMST& 220, OCSUP 102

(R) - BUS 157, OCSUP 101, PSYC 111, PSYC& 100

Women's Studies

<http://wwcc.edu/womenstudies>

Linda Andrews	509.527.4641	linda.andrews@wwcc.edu
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Staci Simmelink-johnson	509.527.4298	staci.simmelink-johnson@wwcc.edu

Program available at/via: [Walla Walla]

Department Overview: The Women's Studies department offers students an opportunity to learn about the past and present achievements and experiences of women and to understand more clearly the decisive role that gender has played and continues to play in human societies. Women's Studies is an interdisciplinary program which provides a frame of reference for understanding the contemporary and historical experience, roles, and contributions of both women and men.

Program Level Outcomes:

- An aesthetic and intellectual comprehension of culturally and linguistically diverse works in literature, philosophy, visual and performing arts, including film and music.
- An understanding and working knowledge of terminology commonly used in the humanities.
- An appropriate level of creativity, discipline, and technique in the production of assigned work in the humanities.

Degrees: Students may earn an Associate in Arts AA-DTA degree (90 credits) which is designed for students planning to transfer to a baccalaureate institution with junior standing. Students pursuing this degree should meet with an academic advisor at

WWCC and an advisor at their intended baccalaureate institution to determine an appropriate educational plan. (See AA-DTA in Degrees section of catalog).

Preparation for Success: A major in Women's Studies is strengthened by advanced studies in psychology, sociology, literature, and history.

Writing

<http://wwcc.edu/writing>

Darlene Snider 509.527.3689 darlene.snider@wwcc.edu

Program available at/via: [Walla Walla] [Clarkston]

Department Overview: Studies in writing allow students to present their thoughts in a deliberate manner and to gain experience in the decision making, problem solving, and organizational skills that result in a well-written document. Most writing courses are Transitional Studies courses that prepare students for college composition and creative writing courses.

Entrance Requirements: A placement test offered by the Student Development Center must be completed prior to enrolling in WRITE courses.

Course Descriptions

ACCOUNTING – ADULT BASIC EDUCATION

Accounting Technology

ACCT 115 Integrated Computer Applications for Accounting 5 Credits

Computerized accounting systems, emphasizing various elements of an integrated general ledger package will be discussed. Special attention to hands-on operation of related accounting software packages. Prerequisites: CS 110 and ACCT& 201.

ACCT 175 Payroll Accounting 5 Credits

Provides an understanding of payroll records and numerous laws that affect operation of a payroll system. Prerequisite: ACCT& 201 or OT 161.

ACCT 199 Special Topics 1 - 5 Credits

Study and train to meet established local needs in the accounting industry, supplemental to courses currently offered. Prerequisite: Instructor permission.

ACCT& 201 Principles of Accounting I 5 Credits

Addresses the fundamentals of accounting theory and practice, including: study of the accounting cycle, use of special journals, and use of accounting in management decisions. Formerly ACCT 201, Principles of Accounting.

ACCT& 202 Principles of Accounting II 5 Credits

Develops the accounting principles employed by partnerships and corporations with a heavy emphasis on the partners' and stockholders' equities. Also covers the time value of money concepts, which are used extensively throughout accounting. Prerequisite: ACCT& 201. Formerly ACCT 202, Principles of Accounting II.

ACCT& 203 Principles of Accounting III 5 Credits

Application of accounting concepts and techniques to managerial problems of planning and control are discussed. Accounting is viewed as a management tool. Prerequisite: ACCT& 202. Formerly ACCT 203, Managerial Accounting.

ACCT 204 Intermediate Accounting I 5 Credits

Addresses financial accounting principles and practices, including study of the theory and principles underlying presentation and interpretation of working capital, investments, long-term liabilities, and stockholders' equity. Prerequisite: ACCT& 202.

ACCT 205 Intermediate Accounting II 5 Credits

Continuance of ACCT 204, Intermediate Accounting I. Topics include study of long-term assets and liabilities, matching principle as it relates to the Income Statement and Income Recognition. Prerequisite: ACCT 204.

ACCT 209 Cost Accounting 5 Credits

In-depth understanding of cost accounting systems and application of differential cost for decision-making. Also develops background for using budgets. Prerequisite: ACCT& 202.

ACCT 216 Principles of Income Tax 5 Credits

Reviews the federal tax structure and ability to apply tax principles to specific problems. Prerequisite: ACCT& 202 or instructor permission.

ACCT 297 Special Projects 1 - 5 Credits

Project-oriented experiences in the area or applications not covered in the standard accounting curriculum. Prerequisite: Instructor permission, based on evaluation of students education and work experience.

Adult Basic Education

ABE 001 ABE Level I 1 - 11 Credits

Instruction in reading, writing, and computational skills for individuals with a goal to improve basic skills. Placement is determined by a score of

ABE 002 ABE Level II 1 - 11 Credits

Instruction in reading, writing, and computational skills for individuals with a goal to improve basic skills. Placement is determined by a score of 201-210 on a CASAS test or other intake assessment.

ABE 003 ABE Level III 1 - 11 Credits

Instruction in reading, writing, and computational skills for individuals with a goal to improve basic skills. Placement is determined by a score of 211-220 on a CASAS test or other intake assessment.

ABE 004 ABE Level IV 1 - 11 Credits

Instruction in reading, writing, and computational skills for individuals with a goal to improve basic skills. Placement is determined by a score of 221-235 on a CASAS test or other intake assessment.

ABE 005 Educational Interview 1 - 3 Credits

This learner-focused orientation course can be offered with students one-to-one, in small or large groups, or in a combination of these configurations and should begin the first quarter of enrollment. Students can register for three consecutive 1 credit courses. The course must meet for at least ten hours per quarter to earn one credit. State-mandated pre-testing and assessment testing as well as the college's registration process are included.

ABE 013 ABE Math Level II 1 - 4.5 Credits

A group course whose focus is on addition, subtraction, multiplication, and division including practice solving one- and two-step work problems, basic fractions, decimals, and simple measurement. Minimum computational skills at a level determined by intake placement test, or by instructor permission. Prerequisite: All students under 19 years of age must have a signed release from the last school they attended. Students may enroll anytime throughout the year.

ABE 014 ABE Math Level III 1 - 4.5 Credits

Focus is on ratio, proportion, percent, simple geometry, algebra, review of fractions and decimals, and solving multi-step word problems to prepare students for the GED math test. Prerequisite: Computational skills at a level determined by intake placement test, or by instructor permission. All students who are under 19 years of age must have a signed release form from the last school attended. Students 16-17 years of age must first be admitted to the College following the Underage Admissions policy, which is available in the Student Development Center.

ADULT BASIC EDUCATION – AGRI-BUSINESS

ABE 015 ABE Reading and Writing Level II

1 - 5 Credits

Focus is on understanding and summarizing written material that includes unfamiliar vocabulary, reading for information, and applying it to new situations. Writing emphasizes paragraph construction with sentences that clearly express complex ideas: short reports, informal letters, memos, personal narratives. Proofreading for capitalization and punctuation, and dictionary use to learn spelling, meaning and pronunciation are also emphasized. Prerequisite: All students who are under 19 years of age must have a signed release form from the last school attended. Students 16-17 years of age must first be admitted to the College following the Underage Admissions policy, which is available in the Student Development Center.

ABE 066 Beginning Computer Skills

1 - 10 Credits

This course is designed for adult basic education students at all levels of literacy competency. This e-learning course familiarizes beginners with the basic operation and navigation of the computer, utilizes office programs for college writing and occupational applications, enhances basic communication skills using e-mail, helps students gain basic keyboarding skills, and become competent using work-related computer forms. Students will be prepared to use the computer as a tool to continue their education and obtain, or retain employment.

Adult Basic Education / GED

GED 025 GED Preparation

1 - 18 Credits

Provided in both English and bilingual settings, GED Preparation courses are offered in a variety of instructional environments: multi-level one-on-one instruction; structured courses; computer-guided courses; and learning communities. These courses emphasize proficiency in the five GED subject areas: social studies, natural science, literature, writing, and mathematics. Prerequisite: Students under 19 years of age must have a signed release form from the last school they attended. Students 16-17 years of age must first be admitted to the College as an underage student by following the Underage Admissions Policy available in the Student Development Center.

Agri-Business

AGRI 102 Farm Records and Analysis

5 Credits

Introduction to the principles of agri-business management. Identifies a practical system of farm record keeping with analysis of these records.

AGRI 103 Farm and Ranch Business Management

5 Credits

Introduction to the decision-making process and information needed to measure management performance. The economic principles and planning tools needed to develop basic management skills for family operated farms and ranches will be discussed.

AGRI 108 Computers in Agriculture

5 Credits

Introduction to microcomputer applications using Microsoft Office software. Hands-on experience including: word processing, spreadsheets, graphical presentations, databases, operating systems, and basic internet access. Student may not earn credit for both AGRI 108 and CS 110.

AGRI 191 Cooperative Work Experience

1 - 25 Credits

Opportunity to work in jobs directly related to the agriculture industry. This formal training period is agreed upon by the student, employer, and instructor. Prerequisite: Instructor permission.

AGRI 192 Cooperative Seminar

2 Credits

Students explore issues related to their cooperative work experience focusing on effective workplace relationships and how self-knowledge, perception, attitudes, and behavior affect these relationships and job satisfaction. Students will also learn effective learning skills for workplace and educational success.

AGRI 197 Ag Business Special Problems I

1 - 5 Credits

Awards credits for approved independent study. Students earn credits based upon topics selected by student and guided by faculty.

AGRI 199 Special Topics

1 - 5 Credits

Study and train to meet established local needs in the agri-business industry, supplemental to courses currently offered. Prerequisite: Instructor permission.

AGRI 201 Microeconomics in Agriculture [SS]

5 Credits

Introduction to microeconomics as applied to production, consumption, and marketing issues in the business and production sectors of the economy. Topics include supply/demand theory, consumer choice theory, production theory, and costs of production. Student may not earn credit for both AGRI 201 and ECON& 201. Formerly AGRI 202.

AGRI 210 Agricultural Sales and Service

3 Credits

Structure and background of personal selling, concepts of human relations, and communications as they relate to a sales presentation. The objective is to build good skills in selling and providing service to the customer.

AGRI 211 Small Business Management

5 Credits

Introduction to management theory as applied to small business firms. Course will include role of small business in the economy, forms of business ownership, main causes for business failure and success, and the elements of a business plan.

AGRI 215 Plant Diseases and Insects

5 Credits

Introduction to the identification, life cycles, and control of insects and diseases common to crops in Washington. Focuses on the fundamentals of entomology and plant pathology, not on specific problems and their control in a given crop.

AGRI 220 Agricultural Finance

5 Credits

Tools and concepts useful to making financial management decisions in business firms will be discussed. Topics include: the role of national economic policy and the ways in which different financial institutions are operated.

AGRI 221 Agricultural Marketing

5 Credits

Overview of the marketing system for agricultural commodities. Topics include the effect of public policy, the role of commodity futures in the marketing system, price and price analysis, and marketing strategies. Recommended: One quarter economics.

AGRI-BUSINESS – AGRICULTURE SCIENCE AND TECH.

AGRI 222 Agricultural Policy [SS]

5 Credits

Goals, methods, and results of government programs and policies in agriculture. Topics include the areas of international trade, domestic farm policy, food safety and quality, resource issues and the effect on agri-business. Recommended: One quarter economics and READ 088 or higher. Student may not earn credit for both AGRI 222 and POLS 222.

AGRI 297 Special Projects

1 - 15 Credits

Project-oriented experiences in the area or applications not covered in the standard agri-business curriculum. Prerequisite: Instructor permission, based on evaluation of student's education and work experience.

Agriculture Science and Technology

AGPR 100 Orientation to Agriculture

3 Credits

A survey of the agriculture industry looking at different jobs, working conditions, employment structure, and employee-employer relationships. Each student builds a personal job portfolio to include letters of application, resume, references and job interview techniques.

AGPR 101 Introduction to Environmental Sciences [NS]

5 Credits

Provides a study of natural and modified systems and their interactions with humans and other living organisms. Students will gain scientific understanding of natural environments and the effects of human modification upon the natural world. Topics include climate, soil, water resources, riparian areas, hazardous waste, and pollution of air, food, water, and agriculture. Students will learn about assessment procedures and riparian habitat improvements used by local government agencies. Lab work required. Prerequisite: Appropriate placement score or grade of C or higher in ENGL 099; or permission of the Science Division Chair or designee. Recommended: READ 088 or higher. Student may not earn credit for both AGPR 101 and ENV5& 101.

AGPR 105 Weed Biology and Identification

5 Credits

Introduction in weed science to provide an understanding of the principles and methods of controlling weeds, use and development of herbicides, methods of application and rate calculation, sprayer components and calibration, and practical knowledge of plant and seed samples of weeds common to the Pacific Northwest.

AGPR 110 Introduction to Livestock Production

5 Credits

Introduction to the livestock industry and its importance to the U.S. economy. Animal products for consumers, biological principles, and management practices will be discussed.

AGPR 111 Animal Nutrition and Health

5 Credits

Introduction to animal nutrition and health topics which includes major courses of nutrients required by all animals, utilization of these nutrients by farm animals, and health and safety considerations in terms of deficiencies or toxicities of specific nutrients.

AGPR 112 Feeds and Feeding

5 Credits

Addresses common feeding practices and nutrient characteristics of animal feeds. Topics include ration formulation and ration requirements for cattle, sheep, hogs, and horses. Prerequisite: AGPR 111 or instructor permission.

AGPR 113 Plant Anatomy and Morphology

3 Credits

Provides a practical understanding of plant anatomy, morphology, and growth of agriculture crops.

AGPR 114 Plant Physiology

5 Credits

Provides a practical understanding of plant structure, function and physiological processes involved in growth and development.

AGPR 115 Preventative Veterinary Medical Care

5 Credits

Basic information on animal health and disease prevention. Topics include fundamentals of the nature of disease, nutrition, sanitation, disinfection, immunization, and basic husbandry practices.

AGPR 116 Meat Science I

5 Credits

The basic principles of anatomy, microbiology and nutritive value of meat. Information concerning food safety, meat inspection and grading and processing equipment will also be analyzed.

AGPR 120 Agricultural Chemistry

5 Credits

Fundamental course in chemistry which overviews the basics of inorganic, organic, and biochemistry with applications to agriculture and other applied science fields. Recommended: high school chemistry or equivalent.

AGPR 140 Agriculture Safety and Health

3 Credits

A synopsis of safety and health issues that impact the quality of life and productivity of American agriculture. Students receive first aid and CPR training.

AGPR 196 Livestock Production Special Problems I

1 - 5 Credits

Participate in a number of subjects dealing with livestock production on a structured or independent study basis. Prerequisite: Instructor permission.

AGPR 197 Livestock Production Special Problems II

1 - 5 Credits

Participate in a number of subjects dealing with livestock production on a structured or independent study basis. Prerequisite: Instructor permission.

AGPR 198 Livestock Production Special Problems III

1 - 5 Credits

Participate in a number of subjects dealing with livestock production on a structured or independent study basis. Prerequisite: Instructor permission.

AGPR 199 Special Topics

1 - 5 Credits

Study and train to meet established local needs in the agri-science industry, supplemental to courses currently offered. Prerequisite: Instructor permission.

AGRICULTURE SCIENCE – ALLIED HEALTH AND SAFETY

AGPR 201 Basic Soil Science [NS]

5 Credits

Provides an understanding of soil structure and composition as related to temperature, water, and other environmental controls. Emphasizes studying soils from a land use and management perspective. Lab work required.

AGPR 202 Soils Fertility and Management

5 Credits

Study of macro- and micronutrient uptake and utilization by plants and the fertilizer products used to supply different nutrients. Topics include soil conservation, erosion control practices, and utilization of soil survey reports. Prerequisite: AGPR 201 or instructor permission.

AGPR 215 Field Crop Production

5 Credits

Production and management of field crops designed to provide the most current information in the production and management of agronomic crops important to the economy of the Pacific Northwest. Topics include plant and seed sample identification.

AGPR 216 Meat Science II

5 Credits

Principles of fabrication and marketing of meats, and the effects of preservation and storage on the physical and chemical properties of meat will be analyzed. Topics include: meat curing chemistry, smoking, and other processes used in the manufacturing of a variety of meat products.

AGPR 297 Special Projects

1 - 15 Credits

Project-oriented experiences in the area or applications not covered in the standard agriculture science curriculum. Prerequisite: Instructor permission, based on evaluation of student's education and work experience.

AGPR 299 Leadership

1 Credit

Students join the Ag Technology Club, conduct the business of the organization, and compete in PAS (Postsecondary Agricultural Students) employability skills contests. Designed to strengthen communication and leadership skills.

Alcohol and Chemical Dependency

ALCDA 231 Survey of Chemical Dependency

5 Credits

Introduction to the field of chemical abuse and dependency by examining use, abuse, and addiction as these relate to alcohol and other psychoactive licit and illicit drugs.

ALCDA 233 Physiological Actions of Alcohol and Other Drugs

4 Credits

Provides an understanding of the effects of psychoactive drugs on human physiology and behavior. Psychoactive substances will be discussed in their historical, social, and physiological contexts. Emphasis will be placed on drugs of abuse and their neurochemical principles. Designed primarily for entry level chemical dependency counselors needing to meet WAC guidelines, this course is also open to anyone wishing to expand their knowledge of physiological actions of abusive drugs.

ALCDA 235 Basic Chemical Dependency Counseling/Therapy

4 Credits

Provides an understanding of effective assessment and treatment techniques necessary to address the complexities of chemical dependency. The course will use the developmental model of recovery with emphasis on skill development and clinical application.

ALCDA 236 Group Dynamics in Chemical Dependency Counseling

5 Credits

Designed to expose students to the actual functions of the therapy group. Students will observe and participate in experiential exercises that are designed to mimic the various stages of treatment.

ALCDA 237 Chemical Dependency in the Family

4 Credits

Concept of addiction as a family disease. The relationship of the family system and family involvement will be analyzed. Modalities of treatment for family members and techniques of intervention will be explored.

ALCDA 238 Chemically Dependent Client

3 Credits

Acquaints the student with the main components of managing the chemically dependent client. The course will focus on the overview of case management, rules and regulations, treatment, record keeping, assessments, treatment planning, conferences and consultation, discharge planning, and latest trends in this growing field.

ALCDA 242 Relapse Prevention

5 Credits

Students will learn to exhibit skills necessary to facilitate clients in preventing relapse by effectively using relapse prevention counseling and recovery enhancements methods to identify and manage high-risk situations. Students will learn and practice these skills in group settings.

Allied Health and Safety Education

HO 027 Nurse Delegation for Nursing Assistants

0.9 Credit

Outlines the caregiver's educational requirements for Nurse Delegation in community-based long-term care settings. This course meets Washington State DSHS/ADSA requirements for training in Nurse Delegation. Students must be a NA-C, NA-R, or be co-enrolled in the Nursing Assistant program to take this course. Students completing this course will receive a training certificate.

HO 100 Nursing Assistant

7 Credits

Students who successfully complete the program will be eligible to take the State exam for Certification as a Nursing Assistant. Prerequisites: Required placement testing READ 088 or CASAS Level V and current required immunizations. Tuition plus \$16.25 malpractice insurance fee, textbook and gait belt are required. Other materials may be required.

ALLIED HEALTH AND SAFETY

HO 101 Success in Healthcare Careers

3 Credits

Prepare to master difficult concepts that require critical thinking in the healthcare field. Students will be able to succeed through practice of written, oral and electronic communications used in the health science courses and workforce. This course is specifically targeted to students with emerging English participating in the Health Care Bridge Program. However, enrollment is not limited to this specific population. Prerequisite: Appropriate placement score or grade of C or higher in READ 088 and ENGL 087; or instructor permission.

HO 102 Nursing Assistant/Advanced

1 - 5 Credits

An advanced training course designed for Nursing Assistants who have completed the basic course. Classroom, lab, and clinical components will prepare the student to work in a variety of settings.

HO 104 OTEP Training

.1 - 1.2 Credits

Satisfies the continuing education requirement for First Responders and EMTs to remain certified in Washington State. Courses cover the state mandated topics and are offered throughout the county under the direction of the Medical Program Director, Walla Walla County Emergency Medical Services. This curriculum is approved by the state and is offered in Walla Walla County and throughout the South Central Region of Washington. Student must be certified EMT-B or First Responder to enroll.

HO 106 Phlebotomy Technician Program

9 Credits

Prepares the student to perform competently and safely in a clinical setting as a phlebotomy technician. The student learns to collect, handle, transport, and process blood specimens for analysis. Upon successful completion of the course, the student will be eligible to sit for examination for certification with the American Society of Clinical Pathologists. Recommended: READ 088.

HO 110 HIV/AIDS Education

.4 - .7 Credit

HIV/Aids Education provides the healthcare professional with mandatory instruction involving information/knowledge associated with HIV/AIDS, Hepatitis, tuberculosis, and related diseases. The seven-hour course presents the six state-required topics of etiology and epidemiology, transmission and infection control, testing and counseling, clinical manifestations and treatment, legal and ethical issues, and psychosocial issues. Students completing this class will receive a certificate documenting the mandatory training. Student cannot earn credit for both HO 110 and ALCDA 230.

HO 130 Emergency Medical Technician - Basic (EMT-B) Program

10 Credits

Instruction in delivering proper emergency care to the sick and injured in a pre-hospital setting. The overall goals are to save lives, reduce complications, and combine effective interpersonal communication with medical knowledge and skills for every patient. The course follows the DOT EMT-B curriculum with the addition of Washington State objectives as required by the Washington State Department of Health, Division of Emergency Medical and Trauma Services. Upon completion of this course, the student who is affiliated with an EMS agency is eligible to take the state EMT-B certification exam. Students completing this course may also participate in the National Registry of Emergency Medical Technicians (NREMT) EMT-B examination. Prerequisite: Acceptance to the EMT-B Program.

HO 132 Emergency Medical Responder

5 Credits

Provides the student with basic skills necessary to provide the initial emergency care in a pre-hospital setting to victims of accidents or illness. First Responders are initial caregivers in an emergency situation and have knowledge and skill level above basic first aid but below the Emergency Medical Technician. Students who successfully complete the course are eligible to take the state certification exam.

HO 135 Intermediate Life Support

9 Credits

Current healthcare topics and continuing education are offered as it relates to the direct care provider. Instruction will be given in starting IVs and airways, intubation, in-depth patient assessment, and administering aspirin, albuterol, dextrose, epinephrine, naloxone, and nitroglycerin chemicals. Prerequisite: At least one year service as EMT, affiliation with local fire department or EMS agency.

HO 150 Healthy Lifestyle

2 Credits

Provides an insightful overview of healthy lifestyles. Students learn about diabetes, obesity, cholesterol, effects of smoking, and other aspects of modern living. Learn current information related to influenza (the flu) and the common cold. This course is intended for both healthcare providers and the general public.

HO 161 Basic Arrhythmias

1.7 Credits

Introduction to both normal and abnormal cardiac rhythms. A review of cardiac anatomy and physiology followed by general information regarding rhythm strips will be part of the class. The remainder of the course will focus on recognition of the common arrhythmias. Recommended: BIOL& 251 or BIOL& 211; or previous medical experience.

HO 162 12 Lead ECG Interpretation

1 - 1.2 Credits

Introduction to interpretation of the 12 lead ECG. Topics include axis deviation, Bundle Branch blocks, Acute M.I. patterns, and Acute Coronary Syndromes. Recommended: previous training in 3 lead ECG or completion of HO 161.

HO 164 Spanish for the Medical Experience

2.0 Credits

Enables professionals working in healthcare settings to offer immediate help to Spanish-speaking patients while waiting for Language Access Services. Emphasis is on basic, practical language needed to communicate with Spanish speaking patients and their families at the hospital or doctor's office, on the telephone, or at the patient's home.

HO 172 Pharmacology

2 Credits

An overview of the principles of pharmacology and general drug classifications and formulations. Legal aspects of medication administration will be discussed. The students will be introduced to the care and handling of many medications and receive an awareness of drug related problems. This class is open to Medical Assisting students, Nursing students, and other interested health professionals.

ALLIED HEALTH AND SAFETY - AMERICAN SIGN LANGUAGE

HO 174 Transcultural Competency for Health Professionals

2 Credits

An introduction to basic concepts of transcultural competency in Nursing and Allied Health with a focus on the applied aspects of cultural difference. Also examines how different cultural communities relate to health care in terms of behavior, attitude, and policy and how these are transformed into practices and standards in the medical community, impacting quality of service and producing a given outcome. Prerequisite: Appropriate placement score or grade of C or higher in ENGL 097; or instructor permission.

HO 176 Spirituality in Healthcare

2 Credits

Spiritual care is within the capability and scope of responsibility of all healthcare professionals. Students will explore the importance of spirituality in providing whole person care. Classes will include didactic and experiential learning. Evaluations of students will be by student engagement with the material and weekly written reflections on class content. Students will complete the course with tools and resources for promoting spiritual well-being for their patients and themselves.

HO 181 Fundamentals of Medical Interpreting I

7 Credits

Designed to help students attain the skills for Spanish/English language interpretation to be used in health care settings. Students will participate in written and oral interpretation methodologies. A foundation for Fundamentals of Interpreting II which leads to preparation for the Washington State Professional Language Medical Interpretation Certification Exam.

This training program is ideally suited for:

- Bilingual individuals interested in becoming medical interpreters.
- Bilingual staff currently providing medical interpretation to patients with limited English proficiency.
- Managerial staff interested in creating awareness about the learning basics of medical interpretation.

Prerequisite: WRITE 100 or ENGL& 101, Compass score at or above READ 098, Bilingual English/Spanish Proficiency Test.

HO 182 Fundamentals of Medical Interpreting II

10 Credits

Builds on the concepts from Fundamentals of Interpreting I. Emphasis is placed on Spanish medical terminology relevant to healthcare settings and the general rules that apply to speaking the Spanish language. Students will participate in sight translation and oral interpretation methods. Thirty hours of practicum are required at an arranged healthcare facility. Students will be prepared to take the Washington State Professional Language Medical interpretation Certification Exam.

This training program is ideally suited for:

- Bilingual staff currently providing medical interpretation to patients with limited English proficiency.
- Managerial staff interested in learning about the basics of medical interpretation.
- Bilingual individuals interested in becoming medical interpreters.

Students will be instructed to develop their interpretation skills to a level where they can perform the role of medical interpreter in

accordance with the national standards of practice and code of ethics developed by the National Council of Interpreting and Health Care. Prerequisite: HO 181 Fundamentals of Medical Interpreting I, HO 110 HIV/4 hour, CPR 051 BLS for Healthcare Providers. Co-requisite: HO 174, Transcultural Competency for Healthcare Providers.

HO 199 Special Topics

1 - 5 Credits

Study and train to meet established local needs in the healthcare industry, supplemental to courses currently offered. Prerequisite: Instructor permission.

HO 266 Physical Assessment

3 Credits

Designed as a review for the practicing nurse or allied health professional, or as an introduction to the second year student nurse. It combines the science of anatomy and physiology with the clinical application of assessment skills. Content will begin with a technique for history-taking and then assess the various body systems. This course may be offered over a quarter or may be divided up in an A and B series. This course is open to Nurses, Allied Health Professionals, and second-year Nursing students.

HO 280 Medical Vocabulary

2 Credits

Introduction to basic medical vocabulary. It provides the student a systematic approach to the language used in the health care system beginning with root words, prefixes and suffixes, and continuing on with the specific terms relating to normal and abnormal conditions of the body.

HO 297 Special Projects

1 - 10 Credits

Project-oriented experiences in the area or applications not covered in the standard allied health and safety education curriculum. Prerequisite: Instructor permission, based on evaluation of student's education and work experience.

American Sign Language

ASL& 121 American Sign Language I [H]

5 Credits

Offered on the Clarkston campus only.

Introduction to American Sign Language including basic sign language vocabulary and deaf culture. Students will learn to communicate in basic conversation with individuals who are deaf or have impaired hearing. From a variety of media, students will be exposed to techniques and strategies used by the profoundly deaf and the hearing-impaired to cope with life functions. Formerly COMM 107, American Sign Language I.

ASL& 122 American Sign Language II [H]

5 Credits

Offered on the Clarkston campus only.

This is the second course in a series introducing the basics of American Sign Language (ASL). This expands on the students knowledge of the ASL vocabulary, grammar. The deaf culture is explored in relation to the use of ASL for communication. Emphasis on vocabulary for every day communication; proper grammar; facial expression; and the tone of voice created through specific motions. Prerequisite: C- or better in ASL& 121 or equivalent course. Formerly COMM 108, American Sign Language II.

AMERICAN SIGN LANGUAGE – ART

ASL& 123 American Sign Language III [H]

5 Credits

Offered on the Clarkston campus only.

Continuation of ASL& 122. This is the third course in a series of three courses that introduces the basics of American Sign Language (ASL). In this course students will learn appropriate ways to express emotion and opinion. Students will sign for the class from a creative work: poetry, a play, an excerpt from a novel, or some other written work approved by the instructor. Prerequisite: C- or better in ASL& 122 or equivalent course. Formerly COMM 109, American Sign Language III.

Anthropology

ANTH& 100 Survey of Anthropology [SS]

5 Credits

Introduction to the study of anthropology. Provides a brief study of the four main subfields of anthropology: Biological Anthropology, Archaeology, Cultural Anthropology, Linguistics and various cultures around the world. Recommended: READ 088. Formerly ANTH 101, Intro to Anthropology.

ANTH& 206 Cultural Anthropology [SS]

5 Credits

Holistic and comparative study of culture in selected communities around the world which illustrate unity and diversity in human culture. Recommended: READ 088. Formerly ANTH 202, Cultural Anthropology.

Art

ART& 100 Art Appreciation [H]

5 Credits

Study and appreciation of the various periods in the history of art and the materials and methods used by artists. Formerly ART 100, Art Appreciation.

ART 101 Drawing I [HP]

4 Credits

Introductory course which explores the basic techniques of drawing using a variety of media such as charcoal, pen and ink, oil pastel, and mixed media. Appreciation and study of drawings by major artists are also included. Daily assignments and lab hours required. Materials to be purchased.

ART 102 Drawing II [HP]

4 Credits

Intermediate course which explores the basic techniques of drawing using a variety of media such as conte crayon, charcoal, pen and ink, oil pastel, and mixed media. Appreciation and study of drawings by major artists are also included. Daily assignments and lab hours required. Materials to be purchased. Prerequisite: ART 101.

ART 103 Drawing III [HP]

4 Credits

More advanced drawing course for students who are interested in drawing the human figure. Continued study of line, shape, value, texture, and color with emphasis on composition of life drawings. Also an appreciation and study of major artists. Daily assignments and lab hours required. Materials to be purchased. Prerequisite: ART 101 or instructor permission.

ART 104 Design I (Black and White) [HP]

4 Credits

Study and application of the formal elements of art structure. Problems in organization of line, shape, value, texture, and color. Emphasis on composition and presentation of black and white and designs. Materials to be purchased.

ART 105 Design II (Color) [HP]

4 Credits

Study and application of the formal elements of art structure. Problems in organization of line, shape, value, texture, and color. Emphasis is on composition of color designs. Materials to be purchased.

ART 106 Design III (Three-Dimensional Design) [HP]

4 Credits

Study and application of the elements of three-dimensional art structure. Emphasis on composition and presentation of three-dimensional designs. Lab hours required and materials to be purchased.

ART 107 Fundamentals of Digital Art [HP]

5 Credits

Introduces digital techniques and concepts as they aid and expand the possibilities of traditional drawing, painting, and photography. It emphasizes the synthesis of artistic expression and technological competence through hands-on experience in creating art through both traditional and digital media. Topics include vector and bitmap imaging, computer applications used as tools for traditional art forms, collaboration and hybrid forms of visual art.

ART 108 Commercial Art Foundations

5 Credits

Introduces the software, materials, and techniques used in marketing, advertising, branding, and identity design. Emphasis is placed on design for advertising and branding for existing and new companies. Upon completion, students should be able to demonstrate competence in design principles, typography, branding techniques, and have developed a self-branded portfolio. This course counts as an elective toward an AA degree, rather than credit toward the Humanities requirement.

ART 111 Introduction to Studio Art Practices

4 Credits

Basic studio/lecture format introducing a variety of the fine art studio techniques, processes, tools and materials commonly used by working artists: painting, drawing, printmaking, design (with various emphasis; digital, graphic, etc), ceramics, sculpture, calligraphy, photography. Five of these studio areas will be chosen for the quarter. Emphasis on craftsmanship and visits to local studios.

ART 115 Drawing for Farrier Science

1 Credit

Visual acuity and technical dexterity are much needed skills for Farrier Science. Through the process/experience of drawing, one develops a greater visual awareness: an understanding between the difference of looking and seeing. Drawing for Farrier Science will utilize formal drawing skills in the depiction of both traditional still-life forms and equine anatomical schematics. Prerequisite: Must be enrolled in the Farrier Science program.

ART

ART 124 Women Artists in History [^D, H]

5 Credits

Explore over forty women artists in the context of their times. Discuss issues of social justice, moral conflicts, cultural expectations, institutional obstacles and limitations. Student may not earn credit for both ART 124 and WST 124.

ART 127 History of Western Art I [H]

5 Credits

Architecture, sculpture, painting, and crafts are studied for an examination and understanding of style. A study of art of Europe, Egypt, and the Near East from the Prehistoric Period through the Middle Ages. Craftsmanship, and cultural function will be discussed. This course is the first in a three-quarter sequence but may be taken out of sequence.

ART 128 History of Western Art II [H]

5 Credits

Study of art in Europe and Early America from the fourteenth through the eighteenth centuries. Architecture, sculpture, painting, and crafts are studied. Special attention is given to the theme of the changing role of the artist. This course is the second in a three-quarter sequence but may be taken out of sequence.

ART 129 History of Western Art III [H]

5 Credits

Study of art in Europe and the U.S. made during the nineteenth and twentieth centuries. Architecture, sculpture, painting, printmaking and the photo arts, are studied. Influences of the past, combined with the rapid technological and cultural changes of the Modern Age, are explored to develop an understanding of the art of our own times. This course is the third in a three-quarter sequence but may be taken out of sequence.

ART 130 Painting I [HP]

4 Credits

Exploration of the various methods of painting. Emphasis on composition and presentation of acrylic paintings. Also includes appreciation and study of paintings by major artists. Lab hours required and materials to be purchased.

ART 131 Painting II [HP]

4 Credits

Intermediate course for exploration of the various methods of painting. Emphasis on composition and presentation of acrylic paintings. Also includes appreciation and study of paintings by major artists. Lab hours required and materials to be purchased. Prerequisite: ART 130.

ART 132 Painting III [HP]

4 Credits

Advanced course for exploration of the various methods of painting. Emphasis on composition and presentation of acrylic paintings. Also includes appreciation and study of paintings by major artists. Lab hours required and materials to be purchased. Prerequisite: ART 131.

ART 151 Printmaking [HP]

4 Credits

Exploration of the relief, silkscreen, and intaglio methods of printmaking. Materials to be purchased. Lab hours required.

ART 152 Printmaking II [HP]

4 Credits

Exploration of the relief, silkscreen, and intaglio methods of printmaking. Lab hours required and materials to be purchased. Prerequisite: ART 151.

ART 153 Printmaking III [HP]

4 Credits

Exploration of the relief, silkscreen, and intaglio methods of printmaking. Lab hours required and materials to be purchased. Prerequisite: ART 152.

ART 160 Ceramics I [HP]

4 Credits

Introduction to theory, history, and aesthetics of ceramics with emphasis on various hand building methods. Lab hours required and materials to be purchased.

ART 161 Ceramics II [HP]

4 Credits

Intermediate study of theory, history, and aesthetics of ceramics using hand building methods with a focus on wheel throwing. Lab hours required and materials to be purchased. Prerequisite: ART 160 or instructor permission.

ART 162 Ceramics III [HP]

4 Credits

Advanced study of theory, history, aesthetics of ceramics using hand building and wheel thrown forms. Lab hours required and materials to be purchased. Prerequisite: ART 161 or instructor permission.

ART 167 Sculpture I [HP]

4 Credits

Introduction to the theory and application of three-dimensional forms in space using a variety of media such as plaster, wire, steel assemblage, cardboard and wood.

ART 168 Sculpture II [HP]

4 Credits

Intermediate study of theory and application of three-dimensional forms in space using a variety of media such as plaster, wire, steel assemblage, cardboard and wood. Prerequisite: ART 167 or instructor permission.

ART 169 Sculpture III [HP]

4 Credits

Advanced study of theory and application of three-dimensional forms in space using a variety of media such as plaster, wire, steel assemblage, cardboard and wood. Prerequisite: ART 168 or instructor permission.

ART 170 Fundamentals of Digital Filmmaking

5 Credits

Designed to introduce students to the history, philosophy, theory and techniques of developing and producing short films that are shot on digital video cameras and edited digitally on computers with professional software. Centers on learning elements of visual storytelling through a spectrum of aesthetic approaches. Students learn sequencing, shooting, and editing skills as they develop and produce their own films. Classes will consist of group discussions, critical sessions and hands on exercises in digital filmmaking. Students are expected to work in groups and engage in analysis of professional video production scenarios. This course does not meet the Humanities requirement for the AA degree.

ART 199 Special Projects

1 - 5 Credits

For intermediate students wishing to expand their knowledge and to develop their skills in the various fine arts media through directed individual studies. Prerequisite: Instructor permission.

ART – AUTO BODY REPAIR TECHNOLOGY

ART 230 Painting IV

4 Credits

Advanced exploration of the various methods of painting. Emphasis on composition and presentation of acrylic painting projects, but students may choose to work with other media. Lab hours required and materials to be purchased. Prerequisite: ART 132.

ART 260 Ceramics and Sculpture I [HP]

4 Credits

Theory, history, aesthetics of ceramics and sculpture using hand building and wheel thrown forms. Lab hours required and materials to be purchased. Prerequisite: ART 162 or instructor permission.

ART 261 Ceramics and Sculpture II [HP]

4 Credits

Theory, history, aesthetics of ceramics and sculpture using hand building and wheel thrown forms. Lab hours required and materials to be purchased. Prerequisite: ART 260 or instructor permission.

ART 262 Ceramic and Sculpture III [HP]

4 Credits

Theory, history, aesthetics of ceramics and sculpture using hand building and wheel thrown forms. Lab hours required and materials to be purchased. Prerequisite: ART 261 or instructor permission.

ART 299 Special Projects

1 - 5 Credits

For advanced students wishing to expand their knowledge and to develop their skills in the various fine arts media through directed individual studies. Students must consult with the instructor before enrolling. Prerequisite: Instructor permission.

Astronomy

ASTR& 110 The Solar System [NS]

5 Credits

Examination of the formation of our solar system and the nature of our sun and planets. Topics include historical development of the science of astronomy. Lab work required. Prerequisite: MATH 065; appropriate placement score or grade of C or higher in ENGL 087; or permission of the Science Division Chair or designee. Recommended: READ 088. Formerly ASTR 110, The Solar System.

ASTR 115 Stellar Astronomy [NS]

5 Credits

Explores the formation, evolution, and death of stars. Our sun is used as an example of ordinary stars in their middle age. The birth of stars and the final states they may occupy at their deaths are treated extensively. Extraordinary stars, extremely massive stars, black holes, neutron stars, white dwarfs, etc., are discussed. Lab work required. Prerequisites: MATH 065; appropriate placement score or grade of C or higher in ENGL 087; or permission of the Science Division Chair or designee. Recommended: READ 088 or higher.

ASTR 120 Galaxies, the Universe and Cosmology [NS]

5 Credits

Current ideas concerning the nature of galaxies and the universe as a whole. Topics include (all in a descriptive, predominately non-mathematical manner): general relativity and curved space time, black holes, quasars, and The Big Bang model of cosmology. Lab Work Required. Prerequisites: MATH 065; Appropriate placement score or grade of C or higher in ENGL 087; or permission of the Science Division Chair or designee. Recommended: READ 088 or higher.

Auto Body Repair Technology

ABT 100 Introduction to Auto Body Repair

1 - 21 Credits

Provides high school students with an overview of the auto body repair industry. Topics include body shop safety, use of common hand tools, power tools, body hand tool operations and body fasteners. Prerequisite: Current High School student.

ABT 104 Introduction to Auto Body Repair I

10 - 21 Credits

Introductory evening course for the auto body repair industry. Topics include body shop safety, use of common hand tools, power tools, body hand tool operations and body fasteners.

ABT 105 Introduction to Auto Body Repair II

1 - 21 Credits

Evening course for the auto body repair industry. Topics include body shop safety, use of common hand tools, power tools, body hand tool operations and body fasteners. The study of mild and high strength steel, sheet metal design, and collision damage analysis will be covered.

ABT 161 Auto Body Repair I

1 - 21 Credits

Body shop safety, use of common hand tools, power tools, body hand tool operations, and body fasteners will be covered. The study of mild and high strength steel, sheet metal design, and collision damage analysis.

ABT 162 Auto Body Repair II

1 - 21 Credits

Provides job planning, sheet metal repair, and metal finishing operations. Glass replacement, the alignment of doors, hoods, fenders, and applying body plastic filler and fiberglass repair will also be covered.

ABT 163 Auto Body Refinishing

1 - 21 Credits

Spray painting equipment and facilities, spraying techniques, surface preparation, undercoat materials and applications, spot painting and blending, complete painting and color theory, matching fundamentals and techniques will be covered.

ABT 191 Cooperative Work Experience

1 - 5 Credits

Opportunity to work in jobs directly related to the auto body industry. This formal training period is agreed upon by the student, employer, and instructor. Prerequisite: Instructor permission.

AUTO BODY REPAIR – AUTOMOTIVE REPAIR

ABT 192 Cooperative Seminar

2 Credits

Students explore issues related to their cooperative work experience focusing on effective workplace relationships and how self-knowledge, perception, attitudes, and behavior affect these relationships and job satisfaction. Students will also learn effective learning skills for workplace and educational success. Co-requisite: ABT 191.

ABT 199 Special Topics

1 - 10 Credits

Study and train to meet established local needs in the auto body repair industry, supplemental to courses currently offered. Prerequisite: Instructor permission.

ABT 264 Unibody Rebuilding

1 - 21 Credits

Unibody and frame repair; the replacement of structural components; fundamentals of electricity; reading of wiring diagrams; chassis wiring and repairs; repairing power windows, power seats, and other accessory units will be covered.

ABT 265 Electrical Mechanical

1 - 21 Credits

Repair of suspension and steering systems, brake systems, air conditioning systems, cooling systems, drive trains, fuel intake and exhaust systems, and restraint systems. Four wheel alignment and corrections will be covered.

ABT 266 Damage Estimating and Shop Operation

1 - 21 Credits

Introduction to procedure and sequence of writing collision damage estimates. Familiarization with body shop management. Introduction to material (physical) damage, insurance policies, and adjusting. Identification and repair procedures for plastic repair.

ABT 267 Advanced Auto Body Technology

1 - 21 Credits

Provides advanced training for students who have completed the AAAS Degree in Auto Body Repair Technology and desire specialized training in a specific area. Prerequisite: Instructor permission.

ABT 297 Special Projects

1 - 21 Credits

Project-oriented experiences in the area or applications not covered in the standard auto body curriculum. Prerequisite: Instructor permission, based on evaluation of student's education and work experience.

ABT 299 Leadership

1 Credit

Encourage students to develop awareness of their leadership potential and abilities through small group discussions and assumption of leadership roles and responsibilities. Students will acquire information, experience diverse points of view, construct knowledge and practice a variety of interpersonal and social skills, such as communicating, goal-setting, decision-making, team-building, and managing stress.

Automotive Repair Technology

AMM 100 Introduction to Auto Repair

1 - 5 Credits

Provides high school students with the basics of automotive maintenance including the identification of vehicle systems and basic diagnostics and repairs. Topics include workplace safety, basic shop procedures, tool identification, proper use of fasteners and precision measurement. Prerequisite: Current high school student's instructor permission.

AMM 104 Auto Upkeep: Basic Car Care

1 - 3 Credits

Introduction to auto mechanics for anyone who is unfamiliar with basic auto maintenance and repair. Topics include vehicle basics, safety, fluids, wheels and tires, changing tires, emergency equipment, tools, brakes, and vehicle shopping tips/tools. The intent is to provide the consumer with the knowledge to make economical decisions and to take preventative measures to enhance owner satisfaction. (The class will not perform major vehicle repairs.) Dress in comfortable work clothes. This class is taught by ASE Certified instructors.

AMM 105 Auto Technician In-Service

1 - 3 Credits

Designed to prepare students for the ASE exam. Computer based training which introduces the student to electrical/electronic systems diagnosis. Students will use computer software to simulate use of a digital volt-ohmmeter to practice diagnostic procedures performed on electrical and electronic automotive systems found on today's automobiles. This course is suitable for apprentice and journeyman automotive technicians interested in furthering their understanding of modern automotive electronic systems.

AMM 145 Auto Related Industry

1 - 6 Credits

Introduction to the automotive repair industry. The student will learn automotive terminology, shop and personal safety, handling and storing of hazardous materials, identification and operation of shop equipment and specialized tools, identification of hand tools, micrometer use and measure given objects within .0005 tolerance and the use of drills, taps and dies. The student will become familiar with all major components of the vehicle. Students will study wheels and tires, theory, diagnosis and service. Students will learn automotive maintenance operations. This course is structured to provide competency-based application of NATEF automotive repair tasks in a working shop environment and will provide students with the background and knowledge to take the ASE certification examinations. Co-requisites: AMM 149 and 245. Prerequisite: Instructor permission.

AMM 149 Hybrid and Alternative Fuel Vehicles

1 - 2 Credits

Introduction to alternative fuel and hybrid electric vehicles. The student will learn automotive terminology, vehicle safety, handling of high voltage components and specialized tool and equipment usage. The student will become familiar with all major components of typical hybrid powered vehicles. Emergency procedures on hybrid vehicles will be covered. This course is structured to provide competency-based application of NATEF automotive repair tasks in a working shop environment and will provide students with the background and knowledge to take the ASE certification examinations. Co-requisites: AMM 145 and 245. Prerequisite: Instructor permission.

AUTOMOTIVE REPAIR TECHNOLOGY

AMM 151 Engine Performance

1 - 13 Credits

Introduction to automotive fuel delivery and fuel injection systems. Students will study fuel pumps, fuel filters, fuel injection system operation, diagnosis and repair and emission systems. Students will learn to use automotive scan tools, automotive oscilloscopes, engine analyzers gas analyzers and other specialized fuel system tools and equipment. This course is structured to provide competency-based application of NATEF automotive repair tasks in a working shop environment and will provide students with the background and knowledge to take the ASE certification examinations. Co-requisites: AMM 171 and 181.

AMM 152 Engine Performance II

1 - 13 Credits

Introduction to automotive ignition system theory, diagnosis and repair, emission systems theory, diagnosis and repair and on-board computer system theory, diagnosis, and repair. Students will learn to use automotive scan tools, automotive oscilloscopes, engine analyzers and other specialized engine performance tools. This course is structured to provide competency-based application of NATEF automotive repair tasks in a working shop environment and will provide students with the background and knowledge to take the ASE certification examinations. Prerequisite: AMM 151; Co-requisites: AMM 232 and 242.

AMM 161 Electrical and Electronics

1 - 21 Credits

Introduction to electricity and electronics used in the automotive industry. Students will study voltage, resistance, amperage, ohms law, circuits, wiring diagrams and use of electrical and electronics test equipment. This course will cover major and accessory electrical devices used on today's vehicles. Emphasis will be placed on theory, diagnosis, service and repair of all electrical components. This course is structured to provide competency-based application of NATEF automotive repair tasks in a working shop environment and will provide students with the background and knowledge to take the ASE certification examinations.

AMM 171 Air Conditioning and Heating

1 - 4 Credits

Introduction to Climate Control and Comfort systems. The student will learn air conditioning terminology, system safety, refrigeration principles, operation, service and repair of refrigeration plumbing systems. Students will learn the proper use of specialized tool and equipment usage. The student will become familiar with all major components of a typical climate control system. Class will consist of hands-on practical application of concepts learned in the classroom. This course is structured to provide competency-based application of NATEF automotive repair tasks in a working shop environment and will provide students with the background and knowledge to take the ASE certification examinations. Prerequisite: AMM 161; Co-requisites: AMM 151 and 181.

AMM 181 Suspension and Alignment

1 - 4 Credits

Introduction to the automotive alignment and suspension theory, diagnosis and repair. The student will learn automotive terminology, shop and personal safety. Students will learn suspension and alignment principles, two and four wheel alignment, suspension diagnosis and repair, tire and wheel diagnosis and repair. This course is structured to provide competency-based application of NATEF automotive repair tasks

in a working shop environment and will provide students with the background and knowledge to take the ASE certification examinations. Co-requisites: AMM 151 and 171.

AMM 191 Cooperative Work Experience

1 - 21 Credits

Opportunity to work in jobs directly related to the auto mechanics industry. This formal training period is agreed upon by the student, employer, and instructor. Prerequisite: Instructor permission.

AMM 192 Cooperative Seminar

2 Credits

Students explore issues related to their cooperative work experience focusing on effective workplace relationships and how self-knowledge, perception, attitudes, and behavior affect these relationships and job satisfaction. Students will also learn effective learning skills for workplace and educational success. Co-requisite: AMM 191.

AMM 199 Specials Topics

1 - 10 Credits

Study and train to meet established local needs in the automotive repair industry, supplemental to courses currently offered. Prerequisite: Instructor permission.

AMM 210 Engine Rebuild

1 - 21 Credits

Disassembly, inspection, and reassembly of the gasoline internal combustion engine. Hands-on applications including emphasis on disassembly, cleaning and inspection of cylinder block and cylinder head components; instruction in the use of precision measurement tools to measure wear of cylinders and other major components of the engine. This instruction will include grinding valves, checking guides, and installing rod, main and cam bearings, timing gears and chain, pistons and rings. This course is structured to provide competency-based application of NATEF automotive repair tasks in a working shop environment and will provide students with the background and knowledge to take the ASE certification examinations.

AMM 224 Automatic Transmission/Transaxles

1 - 13 Credits

Introduction to automatic transmission and transaxles. Students will learn theory, diagnosis and repair of automatic drivetrain components used on today's light duty vehicles. Subjects covered in this course are; torque converters, planetary gearsets, hydraulic systems, electronic controls, valve bodies and CVT's. Students will learn to use specialized equipment necessary to diagnose and repair automatic transmissions and transaxles. This course is structured to provide competency-based application of NATEF automotive repair tasks in a working shop environment and will provide students with the background and knowledge to take the ASE certification examinations. Co-requisite: AMM 225.

AMM 225 Manual Drive Train and Axles

1 - 8 Credits

Introduction to manual transmission, transaxles, clutches, differentials and transfer cases. Students will learn theory, diagnosis and repair of manual drivetrain components used on today's vehicles. Students will learn to diagnose and repair clutches, differentials, transfer cases and drive axles. This course is structured to provide competency-based application of NATEF automotive repair tasks in a working shop environment and will provide students with the background and knowledge to take the ASE certification examinations. Co-requisite: AMM 224.

AUTOMOTIVE REPAIR TECHNOLOGY – BIOLOGICAL SCIENCES

AMM 232 Air Conditioning and Heating II

1 - 4 Credits

Review of refrigeration systems. The student will learn air conditioning terminology and system safety. Students will learn the proper use of specialized tools and equipment used to test advanced HVAC control systems. The student will become familiar with all major components of a typical manual and electronic climate control system. Class will consist of hands-on practical application of concepts learned in the classroom. This course is structured to provide competency-based application of NATEF automotive repair tasks in a working shop environment and will provide students with the background and knowledge to take the ASE certification examinations. Prerequisite: AMM 171; Co-requisite: AMM 152 and 242.

AMM 242 Suspension and Alignment II

1 - 4 Credits

Advanced automotive alignment theory, diagnosis and repair. The student will learn automotive terminology, shop and personal safety. Students will learn advanced alignment procedures, electronic suspension theory, diagnosis and repair and vehicle stabilization theory, diagnosis and repair and vehicle suspension related driveability diagnosis and repair. Students will learn to operate advanced features of four wheel alignment machine and specialized equipment necessary to diagnose and repair advanced suspension systems. This course is structured to provide competency-based application of NATEF automotive repair tasks in a working shop environment and will provide students with the background and knowledge to take the ASE certification examinations. Prerequisite: AMM 181 and instructor permission; Co-requisites: AMM 152 and 232.

AMM 245 Brakes

1 - 13 Credits

Training in theory, diagnosis and repair of automotive brake systems. Students will study disc, drum and anti-lock brake systems. This course is structured to provide competency-based application of NATEF automotive repair tasks in a working shop environment and will provide students with the background and knowledge to take the ASE certification examinations. Co-requisites: AMM 145 and 149.

AMM 247 Advanced Auto Repair

1 - 21 Credits

Provides advanced training for students who have completed the AAAS Degree in Auto Mechanics and desire specialized training in a specific area. Prerequisite: Instructor permission.

AMM 297 Special Projects

1 - 21 Credits

Project-oriented experiences in the area or applications not covered in the standard automotive repair technology curriculum. Prerequisite: Instructor permission, based on evaluation of student's education and work experience.

AMM 299 Leadership

1 Credit

Encourage students to develop awareness of their leadership potential and abilities through small group discussions and assumption of leadership roles and responsibilities. Students will acquire information, experience diverse points of view, construct knowledge and practice a variety of interpersonal and social skills, such as communicating, goal-setting, decision-making, team-building, and managing stress.

Biological Sciences

BIOL& 100 Survey of Biology [NS]

5 Credits

Developed around central themes in contemporary biology, this course emphasizes ecology, genetics, evolution and the diversity of life. Units on cells, plants, and animals illustrate the characteristics of living organisms and basic life processes. Discussions of recent advances in biology and the problems incurred will be included. This course is primarily intended for undecided or non-science students. Lab work required. Prerequisite: Appropriate placement score or grade of C or higher in ENGL 087; or permission of the Science Division Chair or designee. Recommended: READ 088. Formerly BIO 110, Survey of Biology.

BIOL 130 General Ecology [NS]

5 Credits

Study of the interrelationships of organisms with their environment. General ecological principles are applied to contemporary problems such as pollution, endangered species, energy shortages, and over-population. Field trips and lab exercises support lecture discussions. Lab work required. Prerequisite: Appropriate placement score or grade of C or higher in ENGL 087; or permission of the Science Division Chair or designee. Recommended: READ 088 or higher. Formerly BIO 130.

BIOL& 160 General Biology [NS]

5 Credits

Introduction to the study of the cell, the basic component of all living organisms. This class is intended to provide a solid background for students planning to enter Allied Health programs. Emphasis is on cell chemistry, structure, metabolism, energetics, cell division and genetic principles. The basics of DNA technology are also covered. Lab work is required. This course does not satisfy the prerequisite for BIOL& 212 or BIOL& 213. Prerequisite: Appropriate placement score or grade of C or higher in ENGL 087; or permission of the Science Division Chair or designee. Recommended: READ 088. Formerly BIO 151, Cell Biology.

BIOL 170 Applied Equine Biology

3 Credits

Focuses on the structure and function of the horse. Topics include units on the skeletal, muscular, digestive, and reproductive systems. Nutrition, health care, emergency aid, and disease prevention will also be discussed. This course does not include a lab. Recommended: READ 088 or higher. Formerly BIO 170.

BIOL 180 Introduction to Conservation [NS]

5 Credits

Introductory course covering the history, philosophical paradigms, central concepts, techniques, and challenges of conserving major natural resources in varied social, economic, and political contexts. A brief introduction of ecology and environmental biology will serve as the foundation for discussion of conservation concepts. This course does not include a lab. Prerequisite: Appropriate placement score or grade of C or higher in ENGL 087. Recommended: READ 088.

BIOL 205 Introduction to Animal Behavior [NS]

5 Credits

Study of the behavior and social organization of a variety of animal groups ranging from insects to primates; analysis of general principles of behavior modes; observation of animal behavior in the field and laboratory. Lab work required. Prerequisites: BIOL& 100, or BIOL& 160, or BIOL& 211, or BIOL 130.

BIOLOGICAL SCIENCES - BUSINESS ADMINISTRATION

BIOL& 211 Majors Cellular [NS]

5 Credits

An introductory cell biology course for biology majors and other pre-professional students planning to transfer to a four-year university. This is the first of a three-quarter sequence which provides a full year of introductory biology. This course provides an emphasis on cellular chemistry, eukaryotic and prokaryotic cell structure and function, metabolism, energetics, cell growth, Mendelian and molecular genetics. Lab work is required. Students preparing for Allied Health programs are advised to take BIOL& 160. Prerequisite: Grade of C or higher in High School Chemistry (1 year) or CHEM& 110 or higher and appropriate placement score or grade of C or higher in ENGL 087; or permission of the Science Division Chair or designee. Recommended: READ 088.

BIOL& 212 Majors Animal [NS]

5 Credits

General structure and classification of animals followed by a more detailed treatment of the anatomy, physiology and behavior of each of the invertebrate phyla. Lectures are supported by dissections, experiments, and field trips. Lab work required. Prerequisite: BIOL& 211. Formerly BIO 153, General Zoology I.

BIOL& 213 Majors Plant [NS]

5 Credits

Introduction to the basic structure and function of stems, roots, leaves, flowers, fruits, and seeds. Growth, hormones, plant movements, photosynthesis, genetics, plant breeding, plant taxonomy, and a survey of the kingdoms Protista, Fungi, and Plantae are included. Lab work required. Prerequisite: BIOL& 211. Formerly BIO 152, General Botany.

BIOL 221 Systematic Botany (Plant Identification) [NS]

5 Credits

Introduction to plant identification with emphasis on plants native to Eastern Washington. Techniques of collection, preservation, mounting, and flora identification through use of plant identification keys will be applied. Basic botany principles related to the structure and function of a typical flowering plant will be introduced. Lab work required. Prerequisite: BIOL& 100 or 211, or AGPR 113, 114 or AGRI 215. Recommended: READ 088. Formerly BIO 221.

BIOL& 251 Human Anatomy & Physiology I [NS]

5 Credits

Study of the structure and function of the human body. Topics include introduction to the human body, histology, and the skeletal, muscular, and nervous systems. Instruction includes mammalian dissections, model study, microscopy, lectures and multi-media presentations. Lab work required. Prerequisite: Grade of C or higher in BIOL& 160 or 211. Formerly BIO 210, Anatomy & Physiology I.

BIOL& 252 Human Anatomy and Physiology II [NS]

5 Credits

Study of the structure and function of the human body. Includes the following systems: endocrine, cardiovascular, respiratory, digestive, urinary. Mammalian dissections, tissue and fluid analyses, and microscopic histologic observations are emphasized in the lab. Lab work required. Prerequisite: Grade of C or higher in BIOL& 251. Formerly BIO 211, Anatomy and Physiology II.

BIOL& 253 Human Anatomy and Physiology III [NS]

5 Credits

Study of the structure and function of the human body. Topics include reproductive system, embryology, special senses, lymphatic and immune system, metabolism, and fluids and electrolytes. Lab work required. Prerequisite: Grade of C or higher in BIOL& 251. Formerly BIO 212, Anatomy and Physiology III.

BIOL& 260 Microbiology [NS]

5 Credits

Study of the general biology of microorganisms and their classification, morphology, and physiology with emphasis on the importance of microorganisms causing infectious diseases. Immunology will be discussed as it pertains to the microorganisms. Culturing and characterization of microorganisms are the focus of the lab. Lab work required. Prerequisite: Grade of C or higher in BIOL& 160 or 211 or permission of the Science Division Chair or designee. Formerly BIO 230, Microbiology.

BIOL 265 Introduction to Immunology

2 Credits

Tissues, cells and molecules of immune system, innate immunity and complement, adaptive immunity, cellular and humoral immune responses, cytokines, T-cell activation, the major histocompatibility complex, antibody structure and function, immune system and cancer, autoimmunity, hypersensitivity. This course does not include a lab. Prerequisite: Grade of C or higher in BIOL& 260 or BIOL& 252, or concurrent enrollment in the WWCC Nursing Program. Formerly BIO 265.

Business Administration

BUS& 101 Intro to Business [SS]

5 Credits

Survey course for individuals who have a limited background in business. Introduction to various issues including the history of business, typical forms of business, accounting, management styles, marketing elements and e-business. Formerly BA 101, Introduction to Business.

BUS 102 Customer Service

5 Credits

Review the many skills that make up effective customer service, including: customer behavior, determining customer needs, handling difficult customers, selling customer services, encouraging customer loyalty, and practicing service recovery. Formerly BA 102.

BUS 112 Business Mathematics

5 Credits

Develops competency in common business calculations for use in financial decision-making including: percentages, trade and cash discounts, pricing, simple and compound interest, discounting, annuities, and sinking funds. Calculations performed on calculator and formulas developed for use in spreadsheet software. Recommended: MATH 049. Formerly BA 112.

BUS 136 Business Communications I

5 Credits

A comprehensive review of correct language usage and structure for business writing including: grammar, punctuation, business vocabulary, capitalization, and frequently misspelled words. Recommended: ENGL 077. Formerly BA 136.

BUSINESS ADMINISTRATION

BUS 137 Business Communications II

5 Credits

Introduces the correct structure and writing technique for a variety of business documents including electronic and oral communication in today's business world. Prerequisite: BUS 136 or instructor permission. Formerly BA 137.

BUS 157 Human Relations in Business

5 Credits

Assess and develop human relations skills through a skill building approach with an emphasis on self-esteem and maintaining positive attitudes. Topics include understanding human relations, behavior, and performance; diversity in personality and learning styles; perception; attitudes; values; communication skills; motivation; leadership; transactional analysis; assertiveness and conflict resolution; power, politics, and ethics; teams; problem-solving and decision-making, change; productivity and participative management. Recommended: READ 088. Formerly BA 157.

BUS 181 Cooperative Work Experience I

2 - 5 Credits

Opportunity to work in jobs directly related to career choices. This formal training period is agreed upon by the student, employer, and instructor. Co-requisite: BUS 182 and instructor permission. Formerly BA 181.

BUS 182 Business Leadership Seminar I

3 Credits

Gain and apply leadership skills to promote professional and personal development. Topics include the Twelve Key Traits for Workplace Success, Successful Job Search and Retention Strategies, and Effective Business Leadership. Students are required to be a paid and active member of Phi Beta Lambda and complete assigned community service and personal enrichment hours. Formerly BA 182.

BUS 187 Principles of Selling

5 Credits

Analyze how sales personnel meet customers' needs, present benefits, gain commitment for purchase and provide service after the sale. FAB and AIDA will be discussed as a means to developing sales presentations. Students will demonstrate each type of sales presentation to include the development of visuals to aid in presentations. Formerly BA 187.

BUS 189 Principles of Management

5 Credits

Modern management is both exciting and challenging today. Through the use of the internet and other related digital applications managers today have at their request the most revolutionary tools since the development of the assembly line and Henry Ford. The course is organized around the four traditional functions of management: planning, organizing, leading and controlling. There will also be contemporary topics discussed such as technology, empowerment, diversity and TQM. Formerly BA 189.

BUS 191 Cooperative Work Experience II

2 - 5 Credits

Opportunity to work in jobs directly related to career choices. This formal training period is agreed upon by the student, employer, and instructor. Co-requisite: BUS 192. Formerly BA 191.

BUS 192 Business Leadership Seminar II

3 Credits

Gain and apply leadership skills to promote professional and personal development. Topics include effective business leadership and networking with local business leaders. Students are required to be a paid and active member of Phi Beta Lambda and complete assigned community service and personal enrichment hours. Formerly BA 192.

BUS 197 Electronic Commerce: A Business Perspective

5 Credits

Identifies the principle components of electronic commerce. Reviews the critical areas of electronic business interactions, how the internet works, security, forms of payment, and the key elements of an electronic commerce business plan. Formerly BA 197.

BUS 199 Special Topics

1 - 5 Credits

Study and train to meet established local needs in the business industry, supplemental to courses currently offered. Prerequisite: Instructor permission. Formerly BA 199.

BUS& 201 Business Law I

5 Credits

Introduction to law with an analysis of its origin and development and its interaction with business, including: legal procedures, contractual capacity, negotiable instruments, constitutional authority, business tort, product liability, bankruptcy, security regulations, anti-trust, Uniform Commercial Code, and principles of consumer protection. Formerly BA 251, Intro to Business Law I and BA 252, Intro to Business Law II.

BUS 210 Marketing

5 Credits

The relevance of marketing in the modern economy, topics include functions of marketing, customer understanding, TQM, opportunity analysis, and the marketing mix. Formerly BA 210.

BUS 215 Advertising

5 Credits

Explores the elements of campaign planning and execution, the use of strategic research, setting objectives, targeting marketing and developing media ads. Course is organized around the framework that advertising is an integral part of communication and marketing. Online advertising will also be discussed. Formerly BA 215.

BUS 217 Computer Software Applications

5 Credits

Application of various software currently used in home and work environments. Learn how to determine the appropriate software to complete a given task and how to integrate the use of several software programs to complete a given task efficiently. Emphasis on the application of software principles in word processing, spreadsheets, databases, presentations, and file management. The second of two courses that aid in the preparation for the MOUS certification test. Students pursuing a career involving computer use are advised to take this course. Prerequisite: CS 110. Formerly BA 217.

BUS 287 Retailing

5 Credits

Focuses on the study of retail consumers and why, what, and when they buy. Topics include site location, merchandising mix, display, advertising, profit margin analysis, the merchandise plan (Open to Buy), markups/downs, stock turnover analysis, Reilly's Law and Huff's Law. Formerly BA 287.

BUSINESS ADMINISTRATION – CHEMISTRY

BUS 291 Cooperative Work Experience III 2 - 5 Credits
Opportunity to work in jobs directly related to career choices. This formal training period is agreed upon by the student, employer, and instructor. Co-requisite: BUS 292. Formerly BA 291.

BUS 292 Business Leadership Seminar III 3 Credits
Gain and apply leadership skills to promote professional and personal development. Topics include successful job search and retention strategies and employment skills. Students are required to be a paid and active member of Phi Beta Lambda and complete assigned community service and personal enrichment hours. Formerly BA 292.

BUS 293 Business Leadership Seminar VI 3 Credits
Students select and perform a community service project. The students need to determine how the project will help the community and how many people will benefit. This activity shows the close correlation between community service and local business involvement. Formerly BA 293.

BUS 297 Special Projects 1 - 5 Credits
Project-oriented experiences in the area or applications not covered in the standard business curriculum. Prerequisite: Instructor permission, based on evaluation of student's education and work experience. Formerly BA 297.

Cardio-Pulmonary Resuscitation (CPR)

CPR 044 CPR Training .2 Credit
Provides the American Heart Association "Friends and Family" CPR training. This is basic CPR training offered for the general public and does not meet AHA healthcare provider requirements.

CPR 045 Heartsaver CPR (Basic CPR) .3 Credit
Provides instruction in CPR based on standards established by the American Heart Association. Instruction is provided in CPR basic skills and relief of foreign-body airway obstruction for the adult. This is basic CPR training offered for the general public and does not meet AHA healthcare provider requirements.

CPR 051 Basic Life Support (BLS) for Healthcare Providers .4 Credit
Designed for healthcare providers and provides CPR instruction based on standards established by the American Heart Association. Instruction is provided in: CPR skills for victims of all ages, use of airway adjuncts, the AED, and relief of foreign body airway obstruction. This course is intended for individuals who provide health care to patients in a wide variety of settings.

CPR 052 BLS/CPR Instructor Training .8 Credit
Provides the necessary knowledge and skills to facilitate BLS training adhering to the standards of the American Heart Association. The student must possess a current AHA Healthcare Provider card to enroll.

CPR 055 BLS/CPR Instructor Update .6 Credit
Provides the necessary knowledge review and skills evaluation to renew BLS/CPR Instructor status. This course will follow guidelines and standards established by the American Heart Association. Student must have a BLS/CPR Instructor card issued within the last two years to enroll.

Chemistry

CHEM& 105 Chemical Concepts [NS] 5.0 Credits
Offers a practical approach to key chemical concepts and principles by examining the influence of chemical substances on the development of civilization. Students will learn and apply the fundamental chemical concepts in order to evaluate the technological advances in chemistry that have assisted in the development of civilization and will continue to drive key social and political areas of modern society. This is a non-lab course designed for students with little or no chemistry background. May not be used as a prerequisite for other courses. [NS]

CHEM& 110 Chemical Concepts with Lab [NS] 5 Credits
Practical approach to inorganic, organic, and biochemistry which is designed primarily for students in various health-related programs. A comprehensive set of laboratory experiments is provided to implement and supplement the topics covered. Lab work required. Prerequisites: MATH 065; appropriate placement score or grade of C or higher in ENGL 087; or permission of the Science Division Chair or designee. Recommended: READ 088. Formerly CHEM 101, Chemistry.

CHEM& 121 Introduction to Chemistry [NS] 5 Credits
Survey of inorganic chemistry for nursing and allied health sciences. Topics include atomic structure, bonding, periodicity, stoichiometry, gases, equilibrium, solution chemistry, acids, bases, buffers, and nuclear chemistry. Lab work required. Prerequisites: MATH 065 or instructor permission; appropriate placement score or grade of C or higher in ENGL 087; or permission of the Science Division Chair or designee. Recommended: READ 088 or higher; high school chemistry. Formerly CHEM 107, General Chemistry for Health Sciences.

CHEM& 122 Introduction to Organic Chemistry [NS] 5 Credits
A survey of organic chemistry. Topics include structure, function and chemistry of aliphatic and aromatic hydrocarbons, alcohols, ethers, carboxylic acids, amines, and related compounds; mechanisms, and stereochemistry. Lab work required. Prerequisite: CHEM& 121. Formerly CHEM 108, Organic Chemistry for Health Sciences.

CHEM& 123 Introduction to Biochemistry [NS] 5 Credits
A brief survey of biochemical principles. Topics include structure, function and chemistry for biomolecules, enzymatic catalysis, metabolic pathways, and genetic expression. Lab work required. Prerequisite: CHEM& 122. Formerly CHEM 109, Biochemistry for Health Sciences.

CHEMISTRY - CIVIL ENGINEERING

CHEM& 161 General Chemistry I with Lab [NS] 5 Credits

Study of the composition, structure, and properties of matter and its changes for science, engineering. Lab work required. Prerequisites: CHEM& 110 or one year of high school chemistry; MATH 095 or instructor permission. Recommended: READ 088. Formerly CHEM 121, General Chemistry I.

CHEM& 162 General Chemistry II with Lab [NS] 5 Credits

Study of crystal structures, solution chemistry, kinetics, thermodynamics, precipitation reactions; acids and bases, chemical equilibria, and coordination compounds. Lab work required. Prerequisite: CHEM& 161. Formerly CHEM 122, General Chemistry II.

CHEM& 163 General Chemistry III with Lab [NS] 5 Credits

Study of thermodynamics, qualitative analysis, oxidation/reduction reactions, electrochemistry, nuclear chemistry, and introduction to organic and biochemistry. Lab work required. Prerequisite: CHEM& 162. Formerly CHEM 123, General Chemistry III-Honors.

Civil Engineering Technology

CET 100 Estimating 3 Credits

Introduction to identifying and estimating construction costs. Emphasis on material quantity take-offs, contract specifications, bidding strategies, equipment costs, and depreciation.

CET 103 Engineering Concepts and Problems 5 Credits

Introduction to specific fields of engineering including electrical and mechanical with an emphasis on civil engineering. Also presents ethics, computer applications, and professional registration requirements.

ENGR& 111 Engineering Graphics I 4 Credits

Introduction to basic engineering graphic concepts and AutoCAD computer drafting skills. Hand drafting techniques, isometric and orthographic drawings, dimensioning, section views, and auxiliary views are emphasized. Formerly CET 141, Engineering Graphics.

CET 142 Advanced Engineering Graphics 4 Credits

Introduction to practical applications of engineering graphics and CADD. Features examples of mechanical projects, structural projects, land development projects, and highway projects. Emphasizes teamwork and improving CADD skills. Prerequisite: ENGR& 111 or instructor permission.

CET 151 Computer Aided Drafting and Design 3 Credits

Introduction to engineering drawings using AutoCAD in the solution of a variety of graphic problems. Emphasis on advanced AutoCAD topics such as XREF, paper space, and custom menus. Prerequisite: ENGR& 111 or instructor permission.

CET 152 Advanced CADD Problems 3 Credits

Introduction to advanced CADD design applications associated with AutoCAD with an emphasis on customized menus and three-dimensional drawings. Oral and written reports are required. Prerequisite: CET 151 or instructor permission.

CET 160 Elementary Surveying 6 Credits

Fundamentals of plane surveying with an emphasis on chaining, levels, theodolites, global positioning, and distance measurement. Oral and written reports are required.

CET 161 Advanced Surveying 6 Credits

Advanced instruction in surveying fundamentals with an emphasis on public land laws plus construction, property, topographical, and GPS surveys. Oral and written reports are required. Prerequisite: CET 160 or instructor permission.

CET 166 Introduction to Hydrology 5 Credits

Introduction to the hydrological cycle with emphasis on precipitation, weather cycles, runoff, stream flows, ground water, and storm water calculations. Oral and written reports are required.

CET 191 Cooperative Work Experience 1 - 18 Credits

Opportunity to work in jobs directly related to the civil engineering industry. This formal training period is agreed upon by the student, employer, and instructor. Prerequisite: Instructor permission.

CET 192 Cooperative Seminar 2 Credits

Students explore issues related to their cooperative work experience focusing on effective workplace relationships and how self-knowledge, perception, attitudes, and behavior affect these relationships and job satisfaction. Students will also learn effective learning skills for workplace and educational success. Co-requisite: CET 191.

CET 199 Special Topics 1 - 5 Credits

Study and train to meet established local needs in the civil engineering industry, supplemental to courses currently offered. Prerequisite: Instructor permission.

CET 201 Engineering Construction Management 4 Credits

Provides leadership skills associated with construction planning and scheduling by the frontline supervisor. Emphasizes CPM and P.E.R.T. scheduling, interpersonal communication skills, industrial safety and hygiene, and leadership styles. Instruction includes required group exercises and oral presentations.

CET 202 Construction Inspection 3 Credits

Instruction in construction quality control practices, procedures, and inspection methods. Emphasizes asphalt and concrete control, the role of the inspector, state and local contract specifications, inspection methods, and field experience. Instruction includes required group exercises and written reports.

ENGR& 214 Statics 5 Credits

Fundamental principles of the mechanics of rigid bodies will be explored. Topics include forces in a plane, forces in space, statics of rigid bodies, rigid bodies in three dimensions, centroids, friction and Moments of Inertia. This course is calculus based. Co-requisite: MATH& 152. Student may not earn credit for both ENGR& 214 and CET 220. Formerly CET 220, Engineering Mechanics - Statics.

CIVIL ENGINEERING TECHNOLOGY - COLLEGE EXPERIENCE

CET 220 Engineering Mechanics - Statics

5 Credits

Fundamental principles of the mechanics of rigid bodies will be explored. Topics include forces in a plane, forces in space, statics of rigid bodies, rigid bodies in three dimensions, centroids, friction and Moments of Inertia. Prerequisite: MATH 109 or instructor permission. Student may not earn credit for both CET 220 and ENGR& 214.

CET 221 Engineering Design Fundamentals

5 Credits

A capstone course for advanced students that requires all civil engineering technologies in the production of a design project. Examines environmental and permit issues for a typical public works project, preliminary engineering and surveying, project prospectus development, design calculations, plan development, specification writing, and cost estimates. Oral and written reports are required. Prerequisites: CET 161 and ENGR& 225.

CET 222 Engineering Mechanics - Strength of Materials

5 Credits

Instruction on internal stress, deflections, and deformation of structural members. Topics include bending stress, shear stress, compressive and tensile stresses, stress-strain relationships, Mohr's circle, and shear and moment diagrams. Prerequisite: CET 220. Students may not earn credit for both CET 222 and ENGR& 225.

CET 223 Hydraulics

5 Credits

Introduction to the fundamentals of fluid characteristics and the related impact on engineering design. Topics include properties and definitions of fluid mechanics, fluid statics, fluid dynamics, fluid flow, measurement of fluids, orifices, weirs, pipe flow, and open channel flow.

CET 224 Soil Mechanics for Construction

4 Credits

Introduction to soil mechanics as it relates to engineering design. Emphasizes the identification and classification of soils, engineering properties of soils, compaction of soils, aggregate gradations, bearing capacities, and ASTM laboratory test methods. Oral and written reports are required.

ENGR& 225 Mechanics of Materials

5 Credits

Instruction on internal stress, deflections, and deformation of structural members. Topics include bending stress, shear stress, compressive and tensile stresses, stress-strain relationships, Mohr's circle, and shear and moment diagrams. Prerequisite: ENGR& 214. Students may not earn credit for both ENGR& 225 and CET 222. Formerly CET 222, Engineering Mechanics-Strength of Materials.

CET 226 Concrete and Asphalt Pavements

3 Credits

Introduction to asphalt and concrete pavement design. Emphasizes the identification and classification of soils, engineering properties of soils, compaction of soils, aggregate gradations, bearing capacities, and ASTM laboratory test methods. Oral and written reports are required.

CET 242 Properties of Materials

4 Credits

Instruction in materials such as mineral aggregates, concrete, timber, steel, and plastic materials used for engineering projects. Oral and written reports are required.

CET 250 Introduction to GIS

3 Credits

Introduction to GIS, emphasizing coordinates systems, ArcView themes, mapping, data retrieval, data sorting, data analyzing, linking, and case studies. Written reports are required.

CET 251 Advanced GIS

3 Credits

Advanced concepts of geo-spatial analysis will be introduced. These include dissolving features, exporting and importing data, downloading source data, buffering, overlaying, merging and splitting features, geo-coding addresses and model creation. The use of D.E.M. (Digital Elevation Models) and Lidar technology will also be introduced. Both ESRI ArcGIS and AutoCAD Map software will be used. Prerequisite: CET 250 and ENGR& 111, or instructor permission.

CET 263 Transportation and Highway Engineering

4 Credits

Introduction to transportation engineering that includes vertical and horizontal highway curves, mass diagrams, traffic studies, highway drainage problems, and intersection analysis. Written and oral reports are required. Prerequisite: CET 161 or instructor permission.

CET 297 Special Projects

1 - 18 Credits

Project-oriented experiences in the area or applications not covered in the standard civil engineering technology curriculum. Prerequisite: Instructor permission, based on evaluation of student's education and work experience.

CET 299 Leadership

1 Credit

Encourages students to develop awareness of their leadership potential and abilities through small group discussions and assumption of leadership roles and responsibilities. Students will acquire information, experience diverse points of view, construct knowledge and practice a variety of interpersonal and social skills, such as communicating, goal-setting, decision-making, team-building, and managing stress.

College Experience

CE 100 College Experience

1 - 3 Credits

Designed to help students develop strategies to adjust to the college experience.

CE 101 Intermediate College Experience

1 Credit

Designed to equip students with the skills necessary to make a successful transition to college. Students are given information regarding the various attitudes, behaviors, and choices essential for academic success, with a focus on strengthening the student's repertoire of positive learning strategies. Topics include: learning styles and multiple intelligences, memory and brain development, learning techniques, personal finance, graduation requirements and planning for high school completion, goals, motivation and positive habit formation. Prerequisite: Instructor permission.

COLLEGE EXPERIENCE - COMMUNICATION STUDIES

CE 110 Learning Strategies for College

1 - 5 Credits

Provides an overview of learning and motivation theories and methods that promote student efficiency in the classroom. Topics and techniques include: memory and learning, note taking, exam preparation and test anxiety, time management, goals clarification, learning style, concentration, and textbook reading. Upon completion, students will possess a clear understanding of the strategies required to meet their academic goals. Recommended: Enrollment in at least one course, preferably a lecture course, at the 100 level or above. Formerly PSY 100.

Commercial Truck Driving

TRK 095 Flagger Training

0.6 Credit

Planning, traffic control, stopping distances, signs and sign placement, channelization and channelization devices, tapers, and rules of contact will be addressed. Course satisfies the state requirements to function as a flagger in the State of Washington.

TRK 101 CDL Training

1 - 12 Credits

Designed to accommodate for students' work and/or class schedules. Provides instruction for individuals requiring the commercial driver's license. Provides training to gain Class A CDL and various endorsements. Prerequisites: Pass DOT physical and mandatory drug test; have a social security card and satisfactory driving record for past five years; 18 years of age or older; and instructor permission.

TRK 110 Truck Driver Training

12 Credits

Entry-level lecture training for long haul truck driving jobs and commercial driving license testing. Topics include basics of trucking industry and trucking equipment: inspection of equipment, mechanical components, brake adjustment, preventative maintenance, servicing, defensive driving techniques, cargo loading, securing load, documentation, map reading, DOT log books, trip planning, accident and fire prevention, reporting, hazardous material transportation and documentation. Prerequisites: Pass DOT physical and mandatory drug test, have a social security card and have a satisfactory driving record for past five years.

TRK 120 Truck Driver Training - Lab

1 - 10 Credits

Laboratory training and experience for entry-level long haul truck drivers and commercial driving license testing. Graduates obtain Class A CDL License with endorsements for doubles and triples, tankers, hazardous material and no air brake restrictions. Behind-the-wheel practice includes backing techniques, proper cornering, up and down hill maneuvers, space and speed management, coupling/uncoupling, city and highway driving maneuvers. Co-requisite: TRK 110.

TRK 125 Bus Endorsement Training

1 Credit

Laboratory training and experience for entry-level passenger and school bus drivers and commercial drivers license testing. Provides training to gain your passenger (P1) School Bus Endorsement. Prerequisite: Instructor permission.

TRK 191 Cooperative Work Experience

1 - 18 Credits

Advanced on-the-job-training for entry-level long-haul truck driving jobs. Truck drivers in the advanced certificate program are on the road 50 to 70 hours (approximately half of which is driving time, and half of which is navigating time). Behind the wheel practice includes backing techniques, proper cornering, up and down hill maneuvers, space and speed management, coupling/uncoupling, city and highway driving maneuvers. Training on cargo loading, securement and documentation, map reading, DOT logbooks, trip planning, accident and fire prevention and reporting, hazardous material transportation and documentation. Prerequisites: TRK 110 and 120.

TRK 192 Cooperative Seminar

2 Credits

Students explore issues related to their cooperative work experience focusing on effective workplace relationships and how self-knowledge, perception, attitudes, and behavior affect these relationships and job satisfaction. Students will also learn effective learning skills for workplace and educational success. These learning skills include memory, concentration, time management, textbook reading, and exam preparation. Human relations topics include group dynamics, employee and management roles, and conflict resolution. Co-requisite: TRK 191.

TRK 199 Special Topics

1 - 10 Credits

Study and train to meet established local needs in the commercial truck industry, supplemental to courses currently offered.

TRK 297 Special Projects

1 - 18 Credits

Project-oriented experiences in the area or applications not covered in the standard commercial truck driving curriculum. Prerequisite: Instructor permission, based on evaluation of student's education and work experience.

Communication Studies

CMST 102 Interpersonal Communication [C]

3 Credits

Theory and practice of interpersonal communication; understanding self and others while working to improve effective communication in one-on-one interactions. Formerly SPCH 102.

CMST 103 Introduction to Phonetics and Articulation [C]

3 Credits

Study of American speech with emphasis on proper expression, pronunciation, and voice production. Formerly SPCH 103.

CMST 105 Oral Interpretation [C]

3 Credits

Study and practice of speaking skills essential to interpreting the intellectual and emotional meaning of literature to an audience. Students will learn the skills of reading aloud and interpreting the written word including poetry, prose, and drama. Formerly SPCH 105.

CMST 119 Digital Media Journalism

5.0 Credits

Introduces students to the skills and values of traditional journalism and provide a foundation for using digital tools and formats for gathering, organizing and presenting news in a rapidly evolving media landscape. Possible new forms of journalism and public affairs communication supported by user-generated content, peer-to-peer interactivity, multimedia storytelling, and narrative data will be explored.

COMMUNICATIONS - COMPUTER SCIENCE

CMST 201 Intercultural Communication [C, D] 5 Credits

Theory and practice of intercultural communication; understanding culture and cultural differences, both internationally and domestically, while working to develop the skills necessary to improve effective communication and relationships across cultures. Course taken prior to fall 2010 also accepted for diversity requirement. Formerly SPCH 201.

CMST& 220 Public Speaking [C] 5 Credits

Developing competency in planning, preparing, presenting, and evaluating basic speeches (including impromptu, extemporaneous, informative, persuasive, special occasion and group presentations) with emphasis on critical and orderly thinking; using appropriate language, support and motivational appeals; handling speech anxiety; and assessing audiences. Formerly SPCH 101, Fundamentals of Speech.

CMST 230 Digital Communications 5 Credits

Discusses how new digital tools help ordinary people share their own identities in compelling and emotionally engaging forms. Critical look at the digital landscape mediating how we communicate with one another including the effects of social networking and 24/7/365 online existences and the personal and societal impacts of this new paradigm. Students will both design and build an online identity and narrate their process throughout the quarter, utilizing and comparing different platforms of digital communication. They will openly interact with one another and the world beyond as a necessary part of the course. Prerequisite: ENGL 087. Recommended: Basic level of comfort with computers and the Internet. This course does not meet the [C] Communications requirement distribution area.

Computer Science

CS 100 Introduction to Microcomputers 5 Credits

Introductory hands-on computer course intended for non-majors. Provides the beginning computer user an elementary understanding of computer hardware, the operating system, word processing, spread sheeting, email and correct file management. Recommended: Keyboarding skills.

CS 104 Campus Computer Survival 2.0 Credits

The introductory hands-on computer course is intended for, but not limited to new students at WWCC. It will provide the beginning student/computer user with an elementary understanding of computer use on our campus. This course will include: how to create degree audits, understanding degree requirements and transferability, how to purchase a computer and hardware, how to differentiate operating systems and software suites, protecting your data, how to set up and use school e-mail, how to use Angel, and how to use the file management tools on the school's network.

CS 105 Intermediate Computer Concepts 5 Credits

Provides computer user with an intermediate understanding of computer hardware, the operating system, software (including word processing, spreadsheeting, dataset), file management, terminology, history, usage and ethics. Recommended: CS 100 (course intended for students who need additional training before CS 110).

CS 110 Introduction to Computers and Applications 5 Credits

Application of software currently used in home and work environments. Emphasizes proficiency in using the basic functions in word processing, spreadsheets, databases, presentations, the Internet, and Microsoft Windows. Recommended: Grade of B or higher in CS 100 and keyboarding skills. Student may not earn credit for both CS 110 and AGRI 108.

CS 115 Introduction to Computer & Information Technology 5 Credits

Provides an in-depth study of computer technology including concepts, terminology, history, usage, ethics, hardware, and software. Keyboarding beneficial.

CS 120 Networking Using Internet Technologies 5 Credits

Explore communications using Internet technologies, both wired and wireless media. Topics include the variety of access devices such as cell phones, PDAs, laptops and desktop computers. Focus will be on access, personal security, browsing, file sharing, e-mail, and HTML (XML). Construction of a basic web page using HTML will close out course. Learn how ftp and http help move information.

CS 121 Problem Solving with Programming 5 Credits

Introduction to structured problem solving and computer programming. Topics include logic, programming structure, data types, and problem solving skills. A visual environment will be used to practice programming concepts.

CS 125 Operating Systems 5 Credits

A comparative analysis of several computer operating systems with a concentration on those used in microprocessors, including server and client operating systems. Introduction to the internal workings of Microsoft Windows, Linux/Unix, and Macintosh operating systems. Recommended: CS 115.

CS 130 PC Support and Maintenance I 5 Credits

Students will learn to add and remove components, build new systems, troubleshoot and repair hardware, and identify software issues. Prerequisite: CS 115.

CS 131 Computer Science I C++ [Q] 5 Credits

Introduction to computer science principles and concepts including algorithm, data structures, and C++ programming. Prerequisite: Grade of C or higher in MATH 095. Recommended: CS 121.

CS 141 Computer Science I JAVA 5 Credits

Introduction to programming in the Java programming languages. Topics include structured programming concepts, functions, arrays and pointers, and object oriented concepts. Recommended: CS 121.

CS 220 Digital Imaging Foundations 5 Credits

Exposure to the history and future of global communication and how digital technologies are being used. Students will explore career opportunities in digital communication fields. Students will be introduced to software used to create digital art through the use of software packages such as Photoshop, Illustrator, Flash, InDesign and Dreamweaver.

COMPUTER SCIENCE

CS 221 Introduction to Digital Audio / Video 5 Credits

Learn video technologies, basic equipment operation, video composition, basic lighting and audio, production planning, and visual storytelling. Format can include group projects or personal projects involving post-production editing. Topics include creation of digital video productions for inclusion in multimedia and Web applications such as QuickTime and creation of video productions using digital non-linear editing technology.

CS 222 Desktop Publishing (InDesign) 5 Credits

Designed to use advanced applications utilizing all components of desktop publishing. Emphasis on creation of student projects including: newsletters, business identity, brochures, and promotional materials. Principles of layout and design will be practiced.

CS 223 Computer Layout and Design (Photoshop) 5 Credits

Develops beginning skills using raster-based images. Learn to apply these skills in developing on-screen, multimedia, and Web applications using imaging manipulating software. Introduces the techniques, technology, and theory of raster (bitmapped) in web, multimedia, digital video, and animation applications. Recommended: CS 220.

CS 224 Computer Illustration (Illustrator) 5 Credits

Introduces the techniques, technology, and theory of vector digital images in web, multimedia, digital video, and animation applications. Provides fundamental skills in visual communication, screen design, and typography. Students learn to apply these skills to the development of on-screen, multimedia, and Web applications using programs like Illustrator or similar vector software. Recommended: CS 220.

CS 225 Digital Design From A Gaming Perspective 5 Credits

Observe popular commercial game title and attempt to identify the factors that facilitate elements that are interesting from a learning perspective. Focusing on the digital construction of game backgrounds. Students will create their own game as a final project.

CS 227 Website Design and Construction 1 5 Credits

Introduction to World Wide Web page design and development. Addresses issues concerning publishing web documents, designing user-friendly websites, fundamentals of HTML (Hypertext Markup Language). Modules include web page styles and designs, web page development using HTML, performance issues and ethics.

CS 228 Website Design and Construction II 5 Credits

Designed to give proficiency in designing website utilizing: website templates, forms, rollovers, and basic animations and database-driven pages.

CS 229 Dynamic Website Design Cold Fusion 5 Credits

Provides knowledge and real-world applications about building interactive web sites such as e-commerce applications. Languages such as PHP and ASP.NET will be reviewed and the primary focus will be on ColdFusion.

CS 230 Visual Basic Programming 5 Credits

Introduction to programming in Microsoft Visual Basic. Includes forms and controls, properties events and methods, menus, control statements and data structures, control arrays, and file processing. Recommended: CS 121.

CS 231 Application Development 5 Credits

Study of advanced word processing procedures and techniques using a case-study, project-based approach.

CS 235 Introduction to Database Design and Theory 5 Credits

In-depth study of database theory and concepts including data modeling, database design, normalization, and data integrity and security. Includes a survey of one or more modern DBMS and its underlying query language. Recommended: CS 110.

CS 240 Application Integration using VBA 5 Credits

Focuses on the functions of MS Office applications, integrating uses with Visual Basic for Applications.

CS 241 Programming II (JAVA/C++) 5 Credits

Introduction and implementation of data structures including queues, stacks, trees and linked lists, using the Java or C++ programming language. Topics include iterative and recursive uses in sorting and searching routines.

CS 242 Advanced Software Development 5 Credits

Use and investigate new software used by industry. Special attention will be given to software applications and operation. Students will develop and present a final project by developing a software systems analysis, creating an end product, with documented output, or system training and training materials. Students will also research relevant related specific topics and debate uses of different applications and computing issues.

CS 245 Advanced Database Development 5 Credits

Advanced study of database construction and operation. Topics include filtering, customized menus, and an introduction to programming. Recommended: CS 121.

CS 246 SQL and Relational Database Programming 5 Credits

Database design concepts are applied in programming environment. Focuses on learning and applying the SQL programming language to efficiently define, access, update and retrieve information from a database in a server based environment.

CS 260 Unix/Linux Operating Systems 5 Credits

Introduction to multi-user and multi-processing operating systems through a study of the Linux/UNIX operating system as implemented on the microcomputer. Recommended: CS 125.

CS 265 CCNA 1 5 Credits

Provides an in-depth description of the IP network-addressing scheme, including sub-netting, and the design of IP addressing schemes for enterprise-wide networks. Wiring techniques are also covered. This is the first course in the CCNA sequence.

COMPUTER SCIENCE - COSMETOLOGY

CS 266 CCNA 2

5 Credits

Introduction to the configuration of Cisco routers using the proprietary IOS operating system. This is the second course in the CCNA sequence.

CS 267 CCNA 3

5 Credits

In-depth coverage of the configuration and troubleshooting of Cisco routers in enterprise-wide networks. This is the third course in the CCNA sequence.

CS 268 CCNA 4

5 Credits

The second part of a two-course series on the configuration and troubleshooting of Cisco routers in enterprise-wide networks.

CS 275 Windows Client

5 Credits

Overview of the past, present and future Microsoft Operating Systems, including Windows 98SE, Windows 2000, Windows XP Pro and Vista editions. Students will learn to install and customize the Windows environment. Other topics include file management, how to use hidden utilities, memory management to speed performance, registry configuration, partial and full backup of operating system and files, and a look at 3rd party tools to maximize the windows experience. Students will receive their own licensed copy of XP Professional and Vista to use at home. Recommended: CS 110. Formerly CT 121.

CS 276 Windows Server

5 Credits

Introduction to the management of a Windows Server. Topics include installation and use of management tools (including Dynamic Host Configuration Protocol, Windows Internet Name Service, and Remote Access Service), NWLink transport protocol, and integration into a NetWare network.

CS 277 Fund of Network Security

5 Credits

Explores blocking attacks on computer network systems. Study of the white hat hackers compared to the black hat crackers. Topics include viruses, Trojan programs and copyright infringements, bandwidth problems, and networking issues.

CS 278 Windows Server Infrastructure

5 Credits

Windows Server 2003 network infrastructure. Intended for systems administrator and systems engineer candidates who are responsible for implementing and managing server networking technologies. These tasks include implementing routing; implementing and managing Dynamic Host Configuration Protocol (DHCP), Domain Name System (DNS), and Windows Internet Name Service (WINS); securing Internet Protocol (IP) traffic with Internet Protocol security (IPSec) and certificates; configuring a network access infrastructure by configuring the connections for remote access clients, and managing and monitoring network access.

CS 280 Novell SUSE Server

5 Credits

Provides experience in designing and building a local area network. Includes installation of the NOS (SUSE Linux), user accounts groups, security, application software, printers, menus, and accounting.

CS 290 Systems Analysis and Design (Critical Thinking)

5 Credits

Apply problem-solving, system analysis, and rapid application development techniques to design appropriate hardware/software solutions to meet various end user requirements. Recommended: CS 121.

CS 291 Cooperative Work Experience II

1 - 5 Credits

Opportunity to work in jobs directly related to the computer technology industry. This formal training period is agreed upon by the student, employer, and instructor.

CS 292 Cooperative Seminar II

1 - 3 Credits

Students explore issues related to their cooperative work experience focusing on effective workplace relationships.

CS 297 Special Projects

1 - 5 Credits

Project-oriented experiences in the area or applications not covered in the standard computer technology curriculum. Prerequisite: Instructor permission, based on evaluation of student's education and work experience.

Cosmetology

COSM 111 Principles and Procedures of Cosmetology I

1 - 11 Credits

Introduction and overview of all aspects of cosmetology. Topics include bacteriology, sanitation, sterilization, draping, basic haircuts and trimming, shampoos, rinses, finger waves, pin curls, rollers, manicuring, facials, movements, permanent waves and hair color. Emphasizes safety and first aid in all instruction. Prerequisite: Instructor permission.

COSM 112 Practical Application I

1 - 11 Credits

Introduction to the basic services of cosmetology. Practice in basic shampoos, rinses, haircuts, trimming, finger wave, roller, pin curl, manicuring, basic permanent wave, four different types of perms, introduction to color, and safety/sanitation. Prerequisite: Instructor permission.

COSM 121 Principles and Procedures of Cosmetology II

1 - 11 Credits

Introduction to basic services of cosmetology. Topics include introduction to hair coloring and lightening, scalp treatments and hair analysis, diseases and disorders of skin and scalp, skin care, trimming of facial hair (including beard and mustache, eyebrow, ear and nose hair trim), dry styling, and first aid. Emphasizes safety and sanitation measures in all instruction. Prerequisite: COSM 111.

COSM 122 Practical Application II

1 - 11 Credits

Continued practice in basic cosmetology skills on mannequins and models. Topics include hair color, lash and brow tint, bleaching, scalp treatments, thermal styling, skin care (facials), dry styling, permanent waving, temporary removal of superfluous hair, razor cutting, safety, and review. After completion of 400 hours of instruction and reaching Level 2 in services and Level 3 in safety/sanitation, the student may begin basic operations under close supervision of an instructor in the clinical area provided for patrons. Prerequisite: COSM 112.

COSMETOLOGY - CRIMINAL JUSTICE

COSM 131 Intermediate Principles and Procedures I

1 - 11 Credits

Intermediate instruction in hair coloring (dimensional), nail diseases/disorders, nail repair, styling aids, thermal waving, safety and sanitation, hair lightening and bleaching, thermal waving, and blow drying, chemical relaxing, with an emphasis on safety and sanitation to be included in all instruction. Prerequisite: COSM 121.

COSM 132 Practical Application III

1 - 11 Credits

Continued work to complete the required levels of performance, hour and quarter requirements, and safety/sanitation measures. Prerequisite: COSM 122.

COSM 199 Special Topics

1 - 10 Credits

Study and train to meet established local needs in the cosmetology industry, supplemental to courses currently offered. Prerequisite: Instructor permission

COSM 241 Intermediate Principles and Procedures II

1 - 11 Credits

In-depth study of the hair structure, diseases and disorders, cleansing of the skin, safety, bones, nerves and muscles of face and scalp, pedicures, and exam review book. Prerequisite: COSM 131.

COSM 242 Practical Application IV

1 - 11 Credits

Continue to work in the program to complete five regular quarters, one summer quarter, and job performances safely at Level III and Level IV as required by WWCC. Prerequisite: COSM 132.

COSM 251 Advanced Principles and Procedures I

1 - 11 Credits

Advanced work in the cosmetology program. Topics include skin care, artificial hair, chemical relaxing, chemical knowledge, hair pressing, safety, superfluous hair removal, pH value, and complete review, including safety and sanitation. Prerequisite: COSM 241.

COSM 252 Practical Application V

1 - 11 Credits

Continue to independently and safely practice cosmetology methods at level IV. This course is designed to allow students complete the remainder of the degree requirement of 1600 hours and five quarters plus one summer quarter, as required by state law and WWCC respectively. Prerequisite: COSM 242.

COSM 270 Practical Application VI

1 - 11 Credits

Work in the clinic area to complete the required number of hours and levels of services, safety, sanitation, and skills as required by state law and WWCC. Prerequisite: COSM 252.

COSM 281 Cadet Instructor Training

1 - 15 Credits

Training in management and laboratory supervision covering the application of teaching techniques in practical classroom and laboratory services, dispensary inventory and maintenance, and reception area management. Emphasis on sanitation of tools, equipment, and work areas as well as safe practices in storage, mixing, and use of chemicals. Must have a minimum two years of successful work experience and hold a current Cosmetology License in the State of Washington. Prerequisite: Instructor permission.

COSM 297 Special Projects

1 - 18 Credits

Project-oriented experiences in the area or applications not covered in the standard cosmetology curriculum. Prerequisite: Instructor permission, based on evaluation of student's education and work experience.

COSM 299 Leadership

1 Credit

Encourage students to develop awareness of their leadership potential and abilities through small group discussions and assumption of leadership roles and responsibilities. Students will acquire information, experience diverse points of view, construct knowledge and practice a variety of interpersonal and social skills, such as communicating, goal-setting, decision-making, team-building, and managing stress.

Criminal Justice

CJ& 101 Introduction to Criminal Justice [SS]

5 Credits

Examines the relationships and respective responsibilities of different criminal justice agencies. Studies the movement through the system from initial investigation of the crime to ultimate release from confinement. Recommended: READ 088. Formerly CJ 101, Introduction to Criminal Justice.

CJ 105 Introduction to Corrections

5 Credits

Review of the corrections field, tracing early American penal systems and philosophy to present day correctional programs. Emphasis on our contemporary penal system, incarceration, classification, various forms of release, and community-based correctional programs. Recommended: READ 088.

CJ& 110 Criminal Law [SS]

3 Credits

Introduction to the ever-evolving world of criminal law in the United States. Describes the origin and structure of criminal law. This course covers topics ranging from the victim's rights, criminal defenses, criminal prosecution and definitions of crime guidelines. Defines the difference between misdemeanors and felonies. Formerly CJ 103, Intro to Criminal Law. Recommended: READ 088.

CJ& 112 Criminology [SS]

5 Credits

The study of deviant behavior as it relates to the definition of crime: crime statistics, theories of crime causation, crime typologies. Introduction to the impact of crime, limits of criminal law, and society's reaction to criminal behavior. Recommended: READ 088. Formerly CJ 106, Criminology.

CJ 199 Special Topics

1 - 5 Credits

Study and train to meet established local needs in the criminal justice industry, supplemental to courses currently offered. Prerequisite: Instructor permission.

CJ 202 Crime and Delinquency [SS]

5 Credits

The development of criminal justice responses to formal handling of juveniles. Examination of the legal status of juvenile offenders and other related special conditions involving juveniles in crime and delinquency. Recommended: READ 088.

CRIMINAL JUSTICE - CULINARY

CJ 205 Principles of Investigation and Evidence 5 Credits

Survey of fundamental techniques as they apply to specific criminal investigations. Examines the basic principles of the law of criminal evidence with emphasis on the role of the investigator in collecting, preserving, and introducing evidence in court. Prerequisite or Co-requisite: CJ& 101. Recommended: READ 088.

CJ 210 Working in the Juvenile Justice System 5 Credits

Instruction and simulated experiences designed to develop a basic understanding of the multiplicity of roles the juvenile justice system is expected to carry out. Examines the four main elements: courts and related processes, detention centers, institutions, and group homes. Explores the administration/authority granted by the legislature to manage each element. Also examines the duties and qualifications of juvenile justice workers in the state of Washington. Recommended: READ 088.

CJ 297 Special Topics 1 - 5 Credits

Project-oriented experiences in the area or applications not covered in the standard criminal justice curriculum. Prerequisite: Instructor permission, based on evaluation of student's education and work experience.

Culinary

CA 110 ServSafe 3 Credits

Introduction to food production policies that will focus on current regulations, best practices and science-based information. Topics include Hazard Analysis of Critical Control Points (HACCP) procedures, kitchen safety, and facility sanitation. Students will take the National Restaurant Association ServSafe Examination upon completion of the course. Prerequisite: Instructor permission.

CA 111 Storeroom Operations 3 Credits

Provides an introduction to operations of storerooms. Students will learn how to inventory, order and receive products for foodservice operations. They will be taught basic culinary math principles and identify various products used in production of food. Prerequisite: Instructor Permission

CA 112 Introduction to the Culinary Arts 10 Credits

Provides an introduction to the hospitality and culinary arts profession through the History, Terminology and current Career Options. Classical knife skills are practiced and produced along with basic butchery of meats and seafood. Learn the techniques of classical and contemporary soups, stocks, mother sauces and their derivatives. Roux based sauces, emulsions, purees, stock preparations and a variety of soups. Prerequisite: Instructor permission.

CA 120 Culinary Arts Methods 9 Credits

Develop basic skills and apply the principles of food safety and sanitation, workplace safety, food preparation, and cooking methodologies in a kitchen lab setting. Produce food products through various moist and dry heat cooking methods. Prerequisite: CA 112 and Instructor permission.

CA 121 American Regional Cuisine 4 Credits

Practice techniques for appetizers, salads, desserts, breadings, batters, smoked, roasted and fried foods in the context of regional American specialties. Regions include Coastal areas of the continental US, the Caribbean, Hawaii and the Pacific Northwest. Students will explore regional variations, food ingredients and the impact of culture, geography and ethnicity on regional cooking styles. Prerequisite: CA 120.

CA 122 Food, Farmers and Culture 4 Credits

Explores the relationship between food and culture. It examines the questions of what, when and where we eat in the context of the cultural systems which answer them. Work within our own greenhouse on production of food products, understanding seasonal growing patterns within the Northwest. Examination of culinary arts in context with the global food supply. Explores food sustainability issues, ethics, ecology, farming techniques, slow food, organics and their impact on food choices and selection by working chefs within the foodservice industry

CA 130 Introduction to Baking 6 Credits

Introduction to modern baking and pastry arts. It will provide the theoretical and technical foundation for the entire program, covering kitchen safety and sanitation, knives and equipment, and weights and measures. Students will be taught the proper use of basic ingredients and mixing methods while preparing simple yeast breads, quick breads, cookies, pies and tarts. Prerequisite: Instructor permission

CA 131 Advanced Baking and Pastry 5 Credits

Building on information and skills developed in Introduction to Baking, this course will provide students with a thorough understanding of advanced baking techniques. Artisan breads, including sour dough, baguettes, and ciabatta will be covered, as well as proper preparation of Danish, Croissant, puff dough, petit fours and strudel. Prerequisite: CA 130 and instructor permission.

CA 132 Plated Desserts 2 Credits

Examination of various methods for the design and plating of individual desserts. Students will learn techniques to enhance plate presentations, combine plating elements and balance flavors to reveal contemporary approaches to dessert service. Prerequisite: CA 131 and instructor permission.

CA 133 Food and Wine/Beverage 4 Credits

Introduction to the wine industry and grape varieties. Focus is on understanding the flavor components of different wines/beverages and their compatibility with various food offerings. Students will learn about tasting through an examination of different olive oils and vinegars. Students will practice menu development and food pairing in class exercises. This class is open to students under the age of 21 and students who do not drink alcoholic beverages. Prerequisite: Instructor permission.

CA 191 Cooperative Work Experience I 1 - 15 Credits

Opportunity to work in jobs directly related to the culinary arts industry. This formal training period is agreed upon by the student, employer and instructor. Prerequisite: Instructor permission. Co-requisite: CA 192.

CULINARY - DANCE

CA 192 Cooperative Seminar I

2 Credits

Students explore issues related to their cooperative work experience focusing on effective workplace relationships and how self-knowledge, perception, attitudes, and behavior affect these relationships and job satisfaction. Students will also learn effective learning skills for workplace and educational success. Co-requisite: CA 191.

CA 240 French and Mediterranean Cooking

4 Credits

Learn and practice techniques for appetizers, salads, desserts, souffles, pasta, complex sauces, saute, frying, roasting, broiling, poaching and grilling in context with Classical French and Mediterranean specialties. Regions include France, Italy, Spain, Middle East and North Africa. Prerequisite: CA 120.

CA 241 Asian Cooking

4 Credits

Learn techniques and cooking methods for a variety of dishes from regions throughout Asia. Students will explore both traditional and contemporary applications for various ethnic dishes from these regions. Prerequisite: CA 120.

CA 242 Nutritional Cooking

4 Credits

Learn healthy techniques and cooking methods for a variety of dishes from regions throughout the world. Develop an understanding of the food pyramid, the values of calories from various sources and be able to run nutritional analysis on recipes. Prerequisite: CA 120.

CA 243 Food and Beverage Management

3 Credits

Designed to familiarize students with operational, marketing and managerial aspects of food and beverage management as well as their consequent managerial, marketing and cost control implications with emphasis on decision-making.

CA 250 Garde Manger

9 Credits

Learn techniques of cold and hot food preparation in buffet and catering applications, including appetizers, canapés, pate, sausages, terrines, buffet salads, buffet design, lay-out and execution and menu planning. Various curing, brining and smoking techniques in production of bacon and other cured meat products. Prerequisite: Instructor permission

CA 251 Latin American Cooking

3 Credits

Practice techniques for appetizers, salads, desserts, breadings, batters, smoked, roasted and fried foods in the context of regional Mexico and other Central American countries, exploring regional variations, food ingredients and the impact of culture, geography and ethnicity on regional cooking styles. Prerequisite: CA 120

CA 252 Culinary Trends and Concepts

3 Credits

Practice techniques of sous vide, molecular astronomy and food for photography. Prerequisite: CA 120.

CA 260 Menu Development

3 Credits

Analysis of menu development for food service operations will be discussed. Focus on menu development, descriptions, layout, design and pricing with regard to sales mix and station balance. Students will also create and critique menus for the dining room with emphasis on concept, clarity, cost, price and efficiency. Prerequisite: CA 112. Co-requisite: CA 261 & CA 262

CA 261 A la Carte Cooking

8 Credits

Develop basic skills and apply the principles of a la carte cooking for the restaurant. Students will create the menu, order food products to budget, prepare par levels of products to support menu of functioning restaurant. They will work through each station in the kitchen through the course. Prerequisite: CA 120. Co-requisite: CA 260 & CA 262.

CA 262 Service Management

4 Credits

Provides an introduction to basic table service principles which includes table settings, order taking, serving methods and serving sequences. Students will learn how to control inventory, merchandize products and services, and manage costs while assuring high quality service to all customers. Co-requisite: CA 260 & CA 261.

CA 291 Cooperative Work Experience II

1 - 15 Credits

Opportunity to work in jobs directly related to the culinary arts industry. This formal training period is agreed upon by the student, employer and instructor. Prerequisite: Instructor permission. Co-requisite: CA 292.

CA 292 Cooperative Seminar II

2 Credits

Students explore issues related to their cooperative work experience focusing on effective workplace relationships and how self-knowledge, perception, attitudes, and behavior affect these relationships and job satisfaction. Students will also learn effective learning skills for workplace and educational success. Co-requisite: CA 291

Dance

DANCE 102 Jazz and Funk Dance [PE]

1 Credit

This class is taught as a beginning and intermediate level dance course with no previous experience required. Class emphasis will be focused on understanding correct jazz terminology, movement, body placement, muscle development, and flexibility. Techniques will include hip hop, contemporary and theatre jazz.

DANCE 103 Swing Dance I [PE]

1 Credit

Swing dance (commonly known as the jitterbug or the shag) is an energetic couples style of social dance, made popular by the swing music of the 1940's. No previous experience or partner is needed.

DANCE 110 Jazz II [PE]

1 Credit

Designed for intermediate dancer. Previous beginning jazz or ballet is required.

DANCE 111 Social/Ballroom Dancing [PE]

1 Credit

Introduction to several different dance styles including the Foxtrot, Cha Cha, Swing, Waltz, and Rhumba.

DANCE 112 Western/Line Dance [PE]

1 Credit

Learn different western line dances (done without a partner) and western swing (with a partner).

DANCE - DIESEL TECHNOLOGY

DANCE 164 Dance Choreography [PE]

2 Credits

Emphasis on learning and practicing the fundamentals of rhythm and dance choreography. Students will develop, perform, and produce individual and group pieces for a dance theater production. Previous dance experience required.

DANCE 165 Dance Production I [PE]

2 Credits

Modern dance techniques with rehearsal and performance of student and faculty repertory, with a dance production. Prerequisite: Instructor permission.

DANCE 168 Dance Production III [PE]

2 Credits

Modern techniques with Modern Jazz Combinations. Previous dance experience required. Prerequisite: Instructor permission.

DANCE 169 Choreography II [PE]

2 Credits

Modern techniques with Modern Jazz Combinations. Previous dance experience required. Prerequisite: Instructor permission.

DANCE 170 Technical Aspects of Dance Production [PE]

2 Credits

Technical components of a dance production to include costuming, lighting and set design, stage and house managing, sound, publicity, and makeup are explored.

DANCE 172 Latin and Salsa Dance [PE]

1 Credit

Beginning level dance that focuses on the fundamental combinations and advanced level steps of Latin dances. Some of the Latin dances include Rumba, Tango, Mambo, Samba, Merengue, and Salsa. In addition, basic social dance style, etiquette, dance positions, and leading/following techniques will be learned. No previous experience, special attire or footwear is required.

DANCE 174 Swing Dance II [PE]

1 Credit

Swing dance (commonly known as the jitterbug or the shag) is an energetic couples style of social dance, made popular by the swing music of the 1940s. No previous experience or partner is needed.

DANCE 177 Advanced Jazz Dance [PE]

2 Credits

Designed for the advanced dancer. Previous dance experience and instructor permission required. Intensive study of advanced skills, techniques and choreography of various jazz, hip hop and funk styles. Prerequisite: Instructor permission.

DANCE 180 Hip Hop I [PE]

1 Credit

Hip Hop style similar to that seen on current music videos will be the style taught in this course. Students will learn and practice hip hop/Funk fundamentals and combinations. Individual skills, floor work and partner work will be emphasized. Combinations and dance will be practiced and performed to current Rap and R & B music. Street attire and comfortable athletic shoes are appropriate. No previous experience required.

DANCE 181 Hip Hop II [PE]

1 Credit

An intermediate (advanced) level dance course to strengthen hip-hop movement and combinations. Hip hop styles similar to those seen on music videos will be taught. Prerequisite: DANCE 180 or instructor permission.

Diesel Technology

DT 151 Shop Fundamentals/Forklift Training 1 - 9 Credits

Designed to introduce, perfect, and evaluate basic safety and shop skills necessary for successful completion of the Diesel Mechanics program. Consists of instruction and shop performance exercises in safety; hand and machine tool operation, use, and maintenance; hardware identification, and other basic shop skills. Forklift driver certification is also taught. Students must be seeking a certificate or degree in Diesel Equipment Mechanics. Prerequisite: Instructor permission.

DT 162 Machinery Repair I

10 Credits

Controlled laboratory experiences with static and live projects enhance instruction in engines, power trains, electrical and air conditioning. Involves application of theory and skills associated with academic and skill instruction. This class will emphasize ASE/NATEF competency completion. Students must be seeking a certificate or degree in Diesel Equipment Mechanics.

DT 163 Machinery Repair II

8 Credits

Controlled laboratory experiences with static and live projects enhance instruction in engines, power trains, electrical and air conditioning. Involves application of theory and skills associated with academic and skill instruction. Students must be seeking a certificate or degree in Diesel Equipment Mechanics.

DT 180 Suspension and Alignment

5 Credits

Study of suspensions as found on medium and heavy duty vehicles. Alignment of axles and wheels is also covered. Topics include Alignment principles and terminology, Spring suspensions, Air suspensions, Beam suspensions, Tire wear identification, and wheel safety. This class will emphasize ASE/NATEF competency completion. Students must be seeking a degree or certificate in Diesel Equipment Mechanics.

DT 181 Engines I

1 - 14 Credits

In-depth study of diesel engines, including theory of operation, testing and rebuilding. Students must be seeking a certificate or degree in Diesel Equipment Mechanics. Prerequisite: Instructor permission.

DT 183 Electronics I

5 Credits

Theory, troubleshooting, and repair of electrical systems are covered. Topics include charging, starting, ignition, and accessory electrical systems. Students must be seeking a certificate or degree in Diesel Equipment Mechanics.

DT 185 Drive Trains

1 - 5 Credits

Study of the various components found in the power train system. Topics include theory, operation, troubleshooting, and repair of clutches, transmissions, torque converters, drive lines, differentials, and power take-off devices. This class will emphasize ASE/NATEF competency completion. Students must be seeking a certificate or degree in Diesel Equipment Mechanics.

DT 186 Advanced Mechanics

1 - 10 Credits

Study of specialized machinery. Study and skill gained through working on specialized equipment such as farm equipment, logging equipment, trucks, and heavy equipment. This class will emphasize ASE/NATEF competency completion. Prerequisite: Instructor permission.

DIESEL TECHNOLOGY - DRAMA

DT 187 Heating and Air Conditioning

5 Credits

Heating and air conditioning on medium and heavy duty vehicles. Topics include theory, components, refrigerants, servicing and troubleshooting. Students must be seeking a degree or certificate in Diesel Equipment Mechanics.

DT 189 Preventive Maintenance

1 - 5 Credits

Study of preventive maintenance on medium and heavy duty vehicles. Topics include truck classifications, P.M. programs, Out of service criteria, wheels and rims, frame and cross-members, trailer maintenance, and coupling devices. Students must be seeking a degree or certificate in Diesel Equipment Mechanics.

DT 191 Cooperative Work Experience

1 - 21 Credits

Opportunity to work in jobs directly related to the diesel mechanics industry. This formal training period is agreed upon by the student, employer, and instructor. This class will emphasize ASE/NATEF competency completion. Prerequisite: Instructor permission.

DT 192 Cooperative Seminar

2 Credits

Students explore issues related to their cooperative work experience focusing on effective workplace relationships and how self-knowledge, perception, attitudes, and behavior affect these relationships and job satisfaction. Students will also learn effective learning skills for workplace and educational success. Co-requisite: DT 191.

DT 199 Special Topics

1 - 10 Credits

Study and train to meet established local needs in the diesel mechanics industry, supplemental to courses currently offered. Prerequisite: Instructor permission.

DT 266 Advanced Equipment Repair I

10 Credits

On-campus job shop experience. Students work on equipment with a student service manager and under the supervision of an instructor. Student must have completed at least two quarters of Diesel Equipment Mechanics and be seeking a certificate or degree in Diesel Equipment Mechanics.

DT 267 Advanced Equipment Repair II

10 Credits

On-campus job shop experience. This class will emphasize ASE/NATEF competency completion. Students work on equipment with a student service manager and under the supervision of an instructor. Student must have completed at least two quarters of Diesel Equipment Mechanics and be seeking a certificate or degree in Diesel Equipment Mechanics.

DT 268 Advanced Equipment Repair III

1 - 20 Credits

On-campus job shop experience. Must have completed at least two quarters of Diesel Equipment Mechanics and be seeking a certificate or degree in Diesel Equipment Mechanics.

DT 280 Brakes and Air Systems

1 - 5 Credits

An in-depth study of air and hydraulic brake systems as found on medium and heavy duty vehicles. Topics include air and hydraulic systems, air drum brakes, air disc brakes, hydraulic drum brakes, hydraulic disc brakes, air system schematics, air valves and controls, air compressors and driers, troubleshooting and repair of brake systems. Students must be seeking a degree or certificate in Diesel Equipment Mechanics.

DT 281 Engines Advanced

1 - 5 Credits

A detailed study and analysis of mechanical and electronic diesel injection systems. This class will emphasize ASE/NATEF competency completion. Students must be seeking a degree or certificate in Diesel Equipment Mechanics.

DT 283 Electronics II

1 - 5 Credits

A study in medium and heavy duty vehicle electrical systems. Topics include electronic signals, microprocessors, integrated circuits, connector and terminal identification and repair, and multiplex systems. This class will emphasize ASE/NATEF competency completion. Students must be seeking a degree or certificate in Diesel Equipment Mechanics.

DT 284 Hydraulics

1 - 5 Credits

A study of hydraulic systems as found on mobile equipment. Course includes theory, operation, troubleshooting and service of pumps, cylinders, valves, motors, controls and accessories found on mobile hydraulic systems. Schematics and system design are also discussed. Students must be seeking a certificate or degree in Diesel Equipment Mechanics.

DT 297 Special Projects

1 - 15 Credits

Project-oriented experiences in the area or applications not covered in the standard diesel mechanics curriculum. Prerequisite: Instructor permission, based on evaluation of student's education and work experience.

DT 299 Leadership

1 - 10 Credits

Encourage students to develop awareness of their leadership potential and abilities through small group discussions and assumption of leadership roles and responsibilities. Students will acquire information, experience diverse points of view, construct knowledge and practice a variety of interpersonal and social skills, such as communicating, goal-setting, decision-making, team-building, and managing stress.

Drama

DRMA& 101 Introduction to Theatre [H]

5 Credits

Introduction to the study of theatre. Students will watch film and live performances of theatrical productions, read representative dramatic literature, and learn the history, theory, and practice of the theatrical arts - playwrights, acting, design and directing. By reading, viewing, and discussing, students will enhance their appreciation of the nature and place of theatre in contemporary culture. Formerly THEA 101, Theatre Appreciation.

DRMA 117 Technical Theatre I

1 - 5 Credits

The current play production is used as a lab course with practical application covering fundamentals of scene construction, costuming, scene painting, sound and lighting operation. Formerly THEA 117.

DRMA 118 Technical Theatre II

1 - 5 Credits

The current play production is used as a lab course with practical application covering fundamentals of scene construction, costuming, scene painting, sound and lighting operation. Formerly THEA 118.

DRAMA

DRMA 119 Technical Theatre III

1 - 5 Credits

The current play production is used as a lab course with practical application covering fundamentals of scene construction, costuming, scene painting, sound and lighting operation. Formerly THEA 119.

DRMA 151 Beginning Acting I [HP]

3 Credits

Introduction to acting techniques and beginning characterization through improvisation. Student required to furnish personal rehearsal clothes. Formerly THEA 151.

DRMA 152 Beginning Acting II [HP]

3 Credits

Introduction to script analysis, scene study, and audition/monologue preparation. Students will further explore acting technique. Instruction in physical and vocal technique and a unit in theatrical makeup application are included. Work in improvisation continues. The student will complete the course with a public performance of a monologue and scene at the end of the quarter. Prerequisite: DRMA 151 or instructor permission. Formerly THEA 152.

DRMA 153 Beginning Acting III [HP]

3 Credits

For advanced beginners. Continuing scene study and monologue work. Students will be challenged with more difficult material and will further explore acting technique with an emphasis on physical and vocal technique. The student will complete the course with a public performance of a monologue and scene at the end of the quarter. Prerequisite: DRMA 152 or instructor permission. Formerly THEA 153.

DRMA 154 Acting-Summer Musical I

1 - 5 Credits

Designed to train students in the dramatic techniques appropriate to large stage, outdoor musical productions. Formerly THEA 154.

DRMA 155 Acting-Summer Musical II

1 - 5 Credits

Designed to train students in the dramatic techniques appropriate to large stage, outdoor musical productions. Formerly THEA 155.

DRMA 156 Acting-Summer Musical III

1 - 5 Credits

Designed to train students in the dramatic techniques appropriate to large stage, outdoor musical productions. Formerly THEA 156.

DRMA 160 Acting for Film [HP]

5 Credits

Emphasizes training for the naturalistic portrayal of character; the most frequent style used in film. Teaches both the art and craft of acting through the use of a variety of techniques ranging from theory as well as technically oriented exercises designed to calibrate performance for camera. Recommended: DRMA 151.

DRMA 188 Childrens Theatre

1 - 5 Credits

Designed for students aged nine years and older, to provide them an opportunity to rehearse and perform a full-length play for the public. Formerly THEA 188.

DRMA 190 Play Production I

1 - 5 Credits

Applied study in acting, stage lighting and costume construction using current productions as lab situations. Prerequisite: Instructor permission. Formerly THEA 190.

DRMA 191 Play Production II

1 - 5 Credits

Applied study in acting, stage lighting and costume construction using current productions as lab situations. Prerequisite: Instructor permission. Formerly THEA 191.

DRMA 192 Play Production III

1 - 5 Credits

Applied study in acting, stage lighting and costume construction using current productions as lab situations. Prerequisite: Instructor permission. Formerly THEA 192.

DRMA 195 Touring Theater I

3 Credits

A play for children will be cast, rehearsed, and performed in the schools of the four-county area. This show will also be presented in the WWCC theater several times. Rehearsals typically begin during fall quarter; performances occur during the middle part of winter quarter. Formerly THEA 195.

DRMA 196 Touring Theater II

3 Credits

A play for children will be cast, rehearsed, and performed in the schools of the four-county area. This show will also be presented in the WWCC theater several times. Rehearsals typically begin during fall quarter; performances occur during the middle part of winter quarter. Formerly THEA 196.

DRMA 197 Touring Theater III

3 Credits

A play for children will be cast, rehearsed, and performed in the schools of the four-county area. This show will also be presented in the WWCC theater several times. Rehearsals typically begin during fall quarter; performances occur during the middle part of winter quarter. Formerly THEA 197.

DRMA 215 Set Design

1 - 5 Credits

Learn rudiments of set design using current production as lab situation. Prerequisite: Instructor permission. Formerly THEA 215.

DRMA 217 Technical Theatre IV

1 - 5 Credits

The current play production is used as a lab course with practical application covering fundamentals of scene construction, costuming, scene painting, and sound and lighting operation. Formerly THEA 217.

DRMA 218 Technical Theatre V

1 - 5 Credits

The current play production is used as a lab course with practical application covering fundamentals of scene construction, costuming, scene painting, and sound and lighting operation. Formerly THEA 218.

DRMA 219 Technical Theatre VI

1 - 5 Credits

The current play production is used as a lab course with practical application covering fundamentals of scene construction, costuming, scene painting, and sound and lighting operation. Formerly THEA 219.

DRMA 220 Costumes for the Stage

1 - 5 Credits

Basic skills used in costuming theatrical productions: sewing, serging, simple construction. Student may also serve on costume crew for a production. Prerequisite: Instructor permission. Formerly THEA 220.

DRAMA

DRMA 221 Costumes for the Stage-Construction 1 - 5 Credits

Intermediate costume construction focusing on patterns, drafting, fitting, alterations of costumes for a specific production, and complex or special construction techniques. Formerly THEA 221.

DRMA 222 Costumes for the Stage-Management 1 - 5 Credits

Practical course in managing costumes with emphasis on production jobs. Student will serve on the costume crew for a major theatrical production. Formerly THEA 222.

DRMA 223 Elements of Costume Design 1 - 5 Credits

Theatrical and practical aspects of designing costumes for theatrical productions. Formerly THEA 223.

DRMA 225 Representative Plays [H] 5 Credits

A study of plays representative of historical periods from the ancient Greeks to modern times as an introduction to the literature and arts of the theater. Formerly THEA 225.

DRMA 226 Asian Plays [H] 5 Credits

A survey of Asian theatre including Japanese: Kabuki Nah, Kyogen and Bunraku; Chinese opera, Taiwanese folk legends and puppetry; Korean dance drama; Indonesian puppets, Wayang Kolet, Wayang Galek and Thai dance drama. Formerly THEA 226.

DRMA 251 Intermediate Acting I [HP] 3 Credits

This is the first quarter of second year acting for the serious drama student. A more creative response will be required in individual sessions and in mandatory plays. Prerequisite: DRMA 153 or instructor permission. Formerly THEA 251.

DRMA 252 Intermediate Acting II [HP] 3 Credits

Designed for the more advanced drama student. A series of audition pieces suitable for use in auditioning for the professional theater will be prepared. These will cover at least four different types of pieces; that is, comic, serious, musical, classical, etc. At the end of the quarter the student will present two contrasting pieces as a program. Prerequisite: DRMA 251 or instructor permission. Formerly THEA 252.

DRMA 253 Intermediate Acting III [HP] 3 Credits

In the third quarter of the second year of acting courses, the students will apply the techniques they have learned. Comprehensive analysis of character roles will be presented in scene work. Prerequisite: DRMA 252 or instructor permission. Formerly THEA 253.

DRMA 270 Stage Management 3 Credits

The manager guides the cast through the rehearsal and production of the current play. Formerly THEA 270.

DRMA 271 Directing [HP] 3 Credits

Direct students in acting in assigned scenes. The student will also assist the instructor in directing assigned scenes in the current production. Formerly THEA 271.

DRMA 272 Intermediate Directing [HP] 3 Credits

The beginning and intermediate directing students will direct students in acting in assigned scenes. The student will also assist the instructor in directing assigned scenes in the current production. Formerly THEA 272.

DRMA 273 Advanced Directing [HP] 3 Credits

The advanced directing student will direct, with supervision, a play to be presented to the public. Formerly THEA 273.

DRMA 275 Special Projects in Costuming-Construction 1 - 5 Credits

Advanced costume construction for major theater production. Students may be responsible for a group of costumes or supervise a construction crew. Formerly THEA 275.

DRMA 276 Special Projects in Costuming-Design 1 - 5 Credits

Students will design costumes for a small production or a group of costumes for a large play. Students will supervise construction of their designs. This course is intended as the culmination of costume courses at WWCC. Formerly THEA 276.

DRMA 281 Beginning Playwriting [H] 5 Credits

Introduces students to the elements, art and discipline of playwriting, by exploration of established works and creation of original one-act plays, scenes and monologues. By the course's conclusion, students will have completed a revised draft of a one-act play, and hear a scene from their plays read in a public performance. Designed as an introduction to the process of playwriting. The emphasis is on the exploration of a range of techniques and tools available to the playwright. Through the completion and discussion of a series of writing exercises the class will examine the various elements of playwriting. The way that these elements may be combined to create plays will be explored in the writing of several short plays, and ultimately, in the drafting a longer work. Prerequisite: ENGL 097 or instructor permission. [H]

DRMA 290 Play Production IV [HP] 1 - 5 Credits

Second year of applied study in acting, stage lighting, scenery and costume construction using current productions as lab situations. Prerequisite: Instructor permission. Formerly THEA 290.

DRMA 291 Play Production V [HP] 1 - 5 Credits

Second year of applied study in acting, stage lighting, scenery and costume construction using current productions as lab situations. Prerequisite: Instructor permission. Formerly THEA 291.

DRMA 292 Play Production VI [HP] 1 - 5 Credits

Second year of applied study in acting, stage lighting, scenery and costume construction using current productions as lab situations. Prerequisite: Instructor permission. Formerly THEA 292.

DRMA 295 Touring Theater II [HP] 3 Credits

A play for children will be cast, rehearsed, and performed in the schools of the four-county area. This show will also be presented in the WWCC theater several times. Rehearsals typically begin during fall quarter; performances occur during the middle part of winter quarter. Formerly THEA 295.

DRMA 296 Touring Theater V [HP] 3 Credits

A play for children will be cast, rehearsed, and performed in the schools of the four-county area. This show will also be presented in the WWCC theater several times. Rehearsals typically begin during fall quarter; performances occur during the middle part of winter quarter. Formerly THEA 296.

DRAMA- EARLY CHILDHOOD EDUCATION

DRMA 297 Touring Theater VI [HP]

3 Credits

A play for children will be cast, rehearsed, and performed in the schools of the four-county area. This show will also be presented in the WWCC theater several times. Rehearsals typically begin during fall quarter; performances occur during the middle part of winter quarter. Formerly THEA 297.

DRMA 298 Special Topics

1 Credit

Project-oriented experiences in the area or applications not covered in the standard theatre arts curriculum. Prerequisite: Instructor permission, based on evaluation of student's education and work experience. Formerly THEA 298.

DRMA 299 Special Projects

1 - 5 Credits

For students interested in working on projects in design, acting, directing, stage management, playwriting, etc. Prerequisite: Instructor permission. Formerly THEA 299.

Early Childhood Education

ECE 101 Introduction to Early Childhood Education 3 Credits

Develop an understanding of the foundations of early childhood education, including an overview of the profession and historic contexts. This course includes units on understanding and enhancing child development, curriculum and instruction, the importance of play and working with parents, families and communities. Recommended: READ 088.

ECE 136 Environments for Young Children

3 Credits

Plan physical spaces appropriate to children's cognitive, physical, and socio-emotional development. Develop an understanding of the role of environments on children's learning and behavior, including schedules, materials, room arrangement, and center-based learning. Incorporate diversity in the environment is introduced and practiced. Recommended: READ 088.

ECE 137 Language Development and Literacy

3 Credits

Understand and explore language development and literacy from birth through elementary school. Topics include typical and delayed language development, facilitation and modeling of literacy techniques for preschool, elementary children, special needs students, and ESL students. Recommended: READ 088. Student may not earn credit for both ECE 137 and ED 137.

ECE 139 Teaching Young Children I

3 Credits

Provides student experience in an early care setting. The student integrates experience and knowledge of young children in planning and assisting as preschool teacher/preschool teacher's assistant. Topics include environments, curriculum evaluation, staff relationships, and code of ethics. Prerequisites: ECE 191 and instructor permission. Recommended: READ 088.

ECE 144 Early Childhood Education Seminar .5 - 2 Credits

This course includes STARS and CDA seminars. Topics will vary by quarter.

ECE 148 Introduction to Child Care

2 Credits

Provides basic training for childcare workers and licensed family child care personnel. Emphasis on care and guidance of children birth to five years. Course is available on WAOL each quarter. Recommended: READ 088.

ECE 150 Math & Science for Early Childhood

4 Credits

Focus on math and science for preschool and primary grade children. Students will learn how to create developmentally appropriate curriculum that will support young children in acquiring concepts and skills essential to basic understanding of math and science. Classroom activities will be introduced and concepts studied through inquiry based learning, note taking and discussion sessions. Recommended: READ 088

ECE 155 Introduction to Exceptional Children

3 Credits

Explore the characteristics of children with special needs. Topics include history and legislation affecting special education as well as causes and classification of handicapping conditions. Methods to teach all children are practiced. Recommended: READ 088. Student may not earn credit for both ECE 155 and EDUC& 203.

ECE 160 Instructional Strategies Special Needs Children

3 Credits

Provides adaptive strategies and technical knowledge for efficient educational sequences to remediate specific student skill deficits. Topics include analysis of basic learning principles, considerations in special techniques for training, and a formal design to teach specific skills and/or concepts. Recommended: READ 088. Student may not earn credit for both ECE 160 and ED 160.

ECE 170 Guiding Behavior of Young Children

3 Credits

Study of classroom behavior management by gaining practical and theoretical information relating to successful management practices in the classroom. Topics include provisions and practices necessary to establish and maintain an appropriate learning environment. Recommended: READ 088. Student may not earn credit for both ECE 170 and ED 170.

ECE 175 Observation and Recording Behavior

3 Credits

Learn various techniques for observing and recording the behavior of children in the classroom setting. Students use information and records to develop curriculum and methods for teaching children. Assessment techniques and instruments are discussed. Study skills are covered and anti-bias curriculum is introduced. Recommended: READ 088. Student may not earn credit for both ECE 175 and ED 175.

ECE 191 Cooperative Work Experience

1 - 3 Credits

Provides hands-on experience in the early childhood field. This formal training period is agreed upon by the student, employer, and instructor. Prerequisite: Instructor permission. Recommended: READ 088.

ECE 199 Special Topics

1 - 5 Credits

Study and train to meet established local needs in the early childhood education field, supplemental to courses currently offered. Prerequisite: Instructor permission. Recommended: READ 088.

EARLY CHILDHOOD EDUCATION

ECE 219 Child, Family and Community Relationships

3 Credits

Early childhood education professionals working with children birth to eight years and their families will learn about the importance of the adult relationships in child care and classroom settings. Classroom activities, lectures and reading material will provide the students with an understanding of the concepts and value of the caregiver-child family relationship. Class activities, interactions with other caregivers and child observations will give students an opportunity to practice and strengthen their skills. Recommended: READ 088.

ECE 231 Curriculum Development

3 Credits

Provides a basic knowledge of developmentally appropriate teaching procedures. Students develop competency in the establishment of long-range and short-term goals and objectives, as well as selection, presentation, and evaluation of a variety of teaching methods and learning materials to achieve the goals. Topics include emergent curriculum, anti-bias curriculum, developmentally appropriate practice and play. Recommended: READ 088. Student may not earn credit for both ECE 231 and ED 231.

ECE 232 Childrens Art and Literature for Educators

4 Credits

Develop competence in the use of various types of literature, criteria for selecting children's books, and methods to provide literary experiences with young children. Experience literature from various cultures. Introduction to creative art experiences for young children. Topics include selection of literature, methods of providing appropriate literary experiences for children, story telling, props and dramatic play as well as planning, presentation and supervision of creative art activities and materials. Recommended: READ 088. Student may not earn credit for both ECE 232 and ED 232.

ECE 234 Child Nutrition, Health and Safety

3 Credits

Explore, understand, and analyze various factors which contribute to children's health and safety. Focus on the development of skills to assist student in implementing appropriate health, safety and nutrition practices in home and school setting. Recommended: READ 088.

ECE 236 Music and Movement

4 Credits

Introduction to activities that assist in development of a young child's muscle coordination, awareness of body image and movement, and physical development. Topics include developmental sequence, creative expression, brain development, group games, and play. Recommended: READ 088. Student may not earn credit for both ECE 236 and ED 236.

ECE 239 Teaching Young Children II

3 Credits

Provides student experience in an early childhood setting and experience in integrating past experience and knowledge of young children in planning and assisting as preschool teacher/preschool teacher's assistant. Topics include environments, curriculum evaluation, staff relationships, and code of ethics. Prerequisite: Instructor permission, successful completion of ECE 139 and ECE 291. Recommended: READ 088.

ECE 240 Programs for Infants and Toddlers

3 Credits

Principles and theories of infant and toddler growth and development, including age appropriate activities and environments. Caregivers will learn to create safe, nurturing, predictable, and cultural responsiveness to support social, emotional, cognitive and physical development. Recommended: READ 088.

ECE 242 Growth, Development and Guidance for School Agers

3 Credits

Introduction to growth, development, and guidance of school age children in childcare settings, including social, cognitive, emotional, moral, physical, and self development; guidance and communication; conflict resolution; and working with families involved in school-age programs. Recommended: READ 088.

ECE 255 Children at Risk

3 Credits

Caring for children from families affected by substance abuse. Topics include values clarification, family characteristics, families in treatment, empowerment. Recommended: READ 088. Student may not earn credit for both ECE 255 and ED 255.

ECE 261 Current Issues and Trends in Education

3 Credits

Overview of issues, trends, and policies in education. Topics include: social, political, economic, and educational issues that influence the education of children. Recommended: READ 088. Student may not earn credit for both ECE 261 and ED 261.

ECE 275 Administration of Early Learning Programs

3 Credits

This course is designed to provide early childhood education personnel with the information necessary to open, operate and manage child care centers and early learning programs that meet licensing, accreditation and other quality standards. Recommended: READ 088.

ECE 287 Mentoring and Leadership in Early Care and Education

3 Credits

A study in the relationship-based professional development methods and principles involved in early childhood education mentoring and leadership development. Emphasis is on the role of experienced early childhood education teachers, adult educators and other professionals who work in roles as mentors, coaches, consultants and collaborators facilitating the professional development of teachers of young children. With the information necessary to open, operate, and manage child care centers and early learning programs that meet licensing, accreditation and other quality standards, the skills taught in these modules are also transferable into the fields of parent education and family support. Recommended: READ 088.

ECE 291 Cooperative Work Experience II

1 - 3 Credits

Opportunity to participate in hands-on training in the early childhood field. This formal training period is agreed upon by the student, employer, and instructor. Prerequisite: Instructor permission. Recommended: READ 088.

EARLY CHILDHOOD EDUCATION - ECONOMICS

ECE 297 Special Projects

1 - 10 Credits

Project-oriented experiences in the area or applications not covered in the standard early childhood education curriculum. Prerequisite: Instructor permission, based on evaluation of student's education and work experience.

ECE 299 Leadership

1 Credit

Develop awareness of leadership potential and abilities through small group discussions and assumption of leadership roles and responsibilities. Students will acquire information, experience diverse points of view, construct knowledge and practice a variety of interpersonal and social skills, such as communicating, goal-setting, decision-making, team-building, and managing stress.

Early Childhood Parenting Education

ECPE 050 Parent Toddler Relationships

2 Credits

Group observation and participation experience for parents of one year-olds to study and discuss relevant parenting topics. Discussions are enhanced through the use of current literature, videos, and guest speakers. Observing and interacting with children age 12-24 months provide the laboratory experience.

ECPE 051 Parent Toddler Relationships

2 Credits

Group observation and participation experience for parents of one year-old children to study and discuss relevant parenting topics. Discussions are enhanced through the use of current literature, videos and guest speakers. Observing and interacting with children age 12-24 months provide the laboratory experience.

ECPE 052 Parent Toddler Relationships

2 Credits

Group observation and participation experience for parents to study and discuss relevant parenting topics. Discussions are enhanced through the use of current literature, videos, and guest speakers. Observing and interacting with children age 12-24 months provide the laboratory experience.

ECPE 060 Parent Toddler Relationships

2 Credits

This parent education course provides an opportunity to discuss and study relevant parenting topics for parents of two year old children. Discussions are enhanced through the use of current literature, filmstrips, videos, and guest speakers from the community. Observing and interacting with children provide the laboratory experience.

ECPE 061 Parent Toddler Relationships

2 Credits

Group observation and participation experience for parents to study and discuss relevant parenting topics. Discussions are enhanced through the use of current literature, videos, and guest speakers. Observing and interacting with children 24-36 months old to provide the laboratory experience.

ECPE 062 Parent Toddler Relationships

2 Credits

Group observation and participation experience for parents to study and discuss relevant parenting topics. Discussions are enhanced through the use of current literature, videos and guest speakers. Observing and interacting with children age 24-36 months provide the laboratory experience.

ECPE 100 Parent Cooperative Preschool

1.0 - 3 Credits

Parents of children ages three to five years enroll in a parent education course which meets one evening per month. Parents register their child for a preschool group. Each preschool group charges tuition to cover operational costs of the group. Each parent participates in a weekly lab session with children to practice learning from parent education course.

ECPE 101 Parent Cooperative Preschool

1 - 3 Credits

Parents of children ages three to five years enroll in a parent education course which meets one evening per month. Parents register their child for a preschool group. Each preschool group charges tuition to cover operational costs of the group. Each parent participates in a weekly lab session with children to practice learning from parent education course.

ECPE 102 Parent Cooperative Preschool

1 - 3 Credits

Parents of children ages three to five years enroll in a parent education course which meets one evening per month. Parents register their child for a preschool group. Each preschool group charges tuition to cover operational costs of the group. Each parent participates in a weekly lab session with children to practice learning from parent education course.

Economics

ECON 200 Survey of Economics [SS]

5 Credits

Emphasis is given to application of economic principles and concepts in solving economic problems encountered by individuals at the firm or household level up to the national level. College transfer students are encouraged to take ECON& 201 and ECON& 202.

ECON& 201 Microeconomics [SS]

5 Credits

Introduction to microeconomics as applied to production, consumption, and marketing issues in the business and production sectors of the economy. Topics include supply/demand theory, consumer choice theory, production theory, and costs of production. Student may not earn credit for both ECON& 201 and AGRI 201. Formerly ECON 202, Fundamentals of Microeconomics.

ECON& 202 Macroeconomics [SS]

5 Credits

Theory and policy related to organization and operation of a market economy. Topics include supply and demand theory, government spending and taxation, money and banking, analysis of employment, inflation, aggregate output and economic growth, and fiscal and monetary policy tools. Formerly ECON 201, Fundamentals of Macroeconomics.

EDUCATION - ENERGY SYSTEMS TECHNOLOGY

Education

EDUC 106 Tutor Training

1 Credit

Provides training in the fundamental skills useful to peer tutors of mathematics, science and writing. Through lectures, class discussions, and activities; students will be introduced to the academic and personal skills that characterize effective tutors. Course will meet for one hour per week.

EDUC 111 Teaching and Learning Lab

1 - 3 Credits

Designed for future teachers and those pursuing a degree in education related field. Students will volunteer in a school setting to satisfy entry requirements of Teacher Education Program at four-year institutions. Students must volunteer 30 hours per credit. Prerequisite: EDUC& 202 or instructor permission. Recommended: READ 088.

EDUC& 115 Child Development

5 Credits

Build a functional understanding of the foundation of child development, prenatal to early adolescence. Observe and document physical, social, emotional, and cognitive development of children reflective of cross cultural and global perspectives. Recommended: READ 088. Formerly EDUC&114, Child Development.

EDUC& 202 Introduction to Education [SS]

5 Credits

Explores units on teaching as a profession and the history and philosophy of education. Includes observation of classroom procedures, critical reports, and research, as well as philosophical foundations and theories of education, legal issues, historical foundation, administration and governance, curriculum of schools. Recommended: READ 088. Formerly ED 110, Introduction to Education.

EDUC& 203 Exceptional Child

3 Credits

Explore characteristics of children with special needs. Topics include legislation affecting special education as well as causes and classification of handicapping conditions. Strategies to teach all children are practiced. Recommended: READ 088. Student may not earn credit for both EDUC& 203 and ECE 155. Formerly ED 155, Introduction to Exceptional Student.

EDUC 297 Special Projects

1 - 10 Credits

Project-oriented experiences in the area or applications not covered in the standard education paraprofessional curriculum. Prerequisite: Instructor permission, based on evaluation of student's education and work experience.

Education Professional Development

EDPD 191 Tech Peer Tutoring I

1 - 3 Credits

First course in individual and overall group teaching techniques.

Energy Systems Technology - Electrical

Elec 099 See The Energy Systems Department For Electrical

0 Credits

Energy Systems Technology -

Refrigeration and Air Conditioning

EST 100 Refrigeration and Air Conditioning Basics I 5 Credits

Provides student an understanding of properties and laws of energy and physics that allow the electrical and refrigeration processes to work while learning industry related safety, trade tools, types of fasteners, copper tube bending, flaring, soldering and brazing, and pipe threading.

EST 101 Refrigeration and Air Conditioning Basics II

5 Credits

Explores the basics of calibrating trade instruments, environmental management of refrigerants and refrigeration oils. Labs will include window air conditioners, PTAC an dPHTP operation, recovery, evacuation and charging techniques in the lab, use of digital temperature meters and gauge manifold to determine operating parameters. Students will learn electrical related components, read and draw schematics, wiring related to the NEC, use of DMM to measure Ohms and volts, and ammeter to read current, will be covered in the lab with emphasis on normal operating parameters and troubleshooting. Prerequisite: EST 100 or instructor permission.

EST 103 Introduction to Wind Energy

3 Credits

Covers fundamentals of wind energy focusing on wind production practices for all sizes of turbines, power distribution, and net metering. Recommended: READ 088 or higher, CS 100.

EST 110 Refrigeration and Air Conditioning Mechanical Equipment

6 Credits

Mechanical equipment used in the refrigeration and air conditioning trade and practice on proper troubleshooting and repair methods are covered. Proper application and repair of evaporators, condensers, compressors, expansion devices, and special components will be analyzed. Prerequisite: EST 100 or 101; or instructor permission.

EST 115 Industrial Mechanics/Maintenance - Wind Machines

5 Credits

Addresses the needs of the multi-crafted maintenance technician and presents an all-encompassing view of the field of industrial maintenance, which covers a variety of technical skill areas. These include, but are not limited to: mechanics (mechanical installation, fluid power, piping systems, power transmission, print reading, and safety to name a few), and welding (gas welding and arc welding).

EST 120 Air Conditioning Systems

6 Credits

Applies psychometrics to residential and light commercial package and split comfort air conditioner systems. Air Conditioning system installation and operating parameters in a Green Environment will be covered with emphasis on electrical and mechanical component operation and safety, compliance with NEC and the UMC will be taught to include maintenance, troubleshooting and repairs in typical AC equipment. Prerequisites: EST 100 and 101; or instructor permission.

ENERGY SYSTEMS TECHNOLOGY

EST 131 Principles of Electricity Theory

5 Credits

Introduction to electrical theory and terminology, electrical safety, direct current (DC), electrical energy sources, conductors, resistance, circuit types, Ohm's law, circuit calculations and measuring instruments, magnetism, alternating current (AC) single and three phase generation and circuits, and introduction to the National Electrical Code.

EST 132 Principles of Electricity AC Application

5 Credits

Provides a practical application of alternating current (AC) generation and operational circuits. Typical wiring practices of single and three phase wiring of plugs, receptacles, lighting, panel, disconnects, conduit, capacitors, power and control transformers, DC generators, AC alternators, an introduction to DC and AC motors. Recommended: EST 131.

EST 133 Introduction to Controls

6 Credits

Electrical safety and introduces control principles, operation, symbols & electrical diagrams, wiring, adjustment, and testing procedures for pressure, temperature, level and flow controls used in application of operational and safety controls of all industries. Manual, electric-mechanical, mechanical-electric and electronic controls will be covered. Prerequisite: EST 131, or EST 132, or instructor permission.

EST 134 Electrical Raceways

3 Credits

Provides training in electrical raceways types, tools and procedures used in the electrical industry. Gain a working knowledge of appropriate tools and procedures in bending and installing various types of raceways in compliance with the NEC® and electrical safety.

EST 144 Industrial Safety in the Workplace

3 Credits

Industry OSHA-10 Safety Certified Training, Workforce Safety Modules for personal and equipment safety. CPR, Medic First Aid and AED certificate training will be provided. Topics include lock out tag out, safe use of ladders, scaffolds, platforms, and power tools; First Aid, CPR, fire extinguishers, ventilation and employer safety responsibilities. Students with current or OSHA 10 or first aid may take reduced adjusted credits.

EST 150 Electric Motor and Controls

6 Credits

The practical aspects of types and applications of single and three phase motors motor controls are covered. Applied electrical symbols, wiring diagrams, basic motor operation, connection wiring, testing and maintenance of motors, automatic and electronic motor controls. Prerequisite: EST 131 or 132; or instructor permission.

EST 159 Hydraulics and Pneumatics

3 Credits

Explores the basic principles of hydraulic and pneumatic systems, industry terminology, mechanical symbols, system components, energy and personal safety, completing calculations, review of operations and maintenance. Recommended: EST 100.

EST 165 Crane Rigging and Material Handling

3 Credits

Designed to teach the techniques of safely lifting and moving loads of various shapes, sizes, and types. Also covered is tooling, and hand and radio signals. Prerequisite or Co-requisite: EST 115, Industrial Mechanics/Maintenance-Wind Machines.

EST 175 Tower Rescue and Climbing Competency 1.2 Credits

Provides students with the knowledge and skill sets needed to be able to ascend a wind turbine tower, work on the unit, descend the unit, and perform self rescue and partner rescue in emergency conditions. This is a two day course which exceeds the minimum requirements set by OSHA and NIOSH for the tower erection industry. Prerequisite: Must be enrolled in the Wind Energy Technology program.

EST 191 Cooperative Work Experience

1 - 18 Credits

Opportunity to work in jobs directly related to the energy systems industry. This formal training period is agreed upon by the student, employer, and instructor. Prerequisite: Instructor permission.

EST 192 Cooperative Seminar

2 Credits

Students explore issues related to their cooperative work experience focusing on effective workplace relationships and how self-knowledge, perception, attitudes, and behavior affect these relationships and job satisfaction. Students will also learn effective learning skills for workplace and educational success. Co-requisite: EST 191.

EST 199 Special Topics

1 - 10 Credits

Study and train to meet established local needs in the energy systems technology industry, supplemental to courses currently offered. Prerequisite: Instructor permission.

EST 200 Ductwork Design and Fabrication

3 Credits

Demonstrate a heat loss/gain calculation to determine proper load for a residence, students will perform equipment sizing and selection, use duct calculator to design supply and return ductwork. Air distribution and air balance, duct component fabrication and installation, duct sealing duct PTSA duct testing will be covered to give student understanding and application for energy savings using green technology. Prerequisite: Instructor permission.

EST 220 Ammonia Refrigeration Systems

3 Credits

Introduction to operation, maintenance, and repair of industrial refrigeration and ammonia systems. Application of refrigeration and electrical knowledge acquired from previous courses to understanding operation and maintenance of industrial refrigeration with emphasis on Ammonia (R717) and safety.

EST 240 Intro to Basic Electronics

5 Credits

Introduction to solid-state theory and basic electronic components. Students will study solid-state theory, operation, and testing of solid-state components and devices to include diodes, thermistors, transducers, photocells, transistor, SCR, Diac, Triac, SS relays, photoelectric and proximity controls. Prerequisite: EST 131 or instructor permission.

EST 250 Introduction to PLC and DDC Control

5 Credits

Programmable logic controllers (PLC) for industrial control, an direct digital controls (DDC) for building automation. Students will gain an understanding of terminology, components, programming, interfacing and operation of PLC controls, and be introduced to DDC components, functions and operation in building automation and energy management. Prerequisite: EST 150 or instructor permission.

ENERGY SYSTEMS TECHNOLOGY - ENGLISH

EST 252 Principles of Power Generation and Distribution

5 Credits

Introduction to the common components and applications of electrical generation and distribution systems. The operation and maintenance of those systems will also be covered. Prerequisite: EST 132 or instructor permission.

EST 260 Introduction to the National Electrical Code

2 Credits

Course introduces student to the National Electrical Code (NEC), and the Washington Administrative Code (WAC), and Revised Code of Washington (RCW) as it relates to the electrical industry to familiarize students with legal code and electrical safety. May be taken as a preparation of industry technicians preparing to take the certification exam.

EST 264 Heating Systems and Heat Pumps

7 Credits

An operational understanding required to perform the installation, maintenance and repair of residential and light commercial heating equipment to include operation and analysis of electrical and mechanical components for: electric heat, gas heat, oil heat, hydronic heat and air to air heat pump and water to air heat pump. Student will learn electrical, gas piping, and venting requirements per code requirements. National Certification exams will be given in electric heat, gas heat and heat pumps. Prerequisite: EST 120 or instructor permission.

EST 265 Commercial Refrigeration Equipment

8 Credits

Explores design and operational requirements of low and medium temperature commercial refrigeration systems. Provides a basic understanding of typical commercial and supermarket refrigeration systems with emphasis on operation and system analysis to determine faults. National Certification exam will be given. Prerequisite: EST 110 or instructor permission.

EST 270 Principles of Business Management

5 Credits

Introduction to various fundamentals of Business including the history of business, typical business forms, accounting, management styles, and customer service skills.

EST 292 Cooperative Seminar II

2 Credits

Explore issues related to the cooperative work experience focusing on effective workplace relationships and applying leadership skills to promote personal development. Provide professional improvement through techniques such as effective communication, conflict resolution, team building, employee engagement and decision making. Co-requisite: EST 191.

EST 297 Special Projects

1 - 18 Credits

Project-oriented experiences in the area or applications not covered in the standard energy systems technology curriculum. Prerequisite: Instructor permission, based on evaluation of student's education and work experience.

Energy Systems Technology - Wind Energy

See The Energy Systems Department

0 Credit

English

ENGL 077 Writing Fundamentals

5 Credits

Focuses on key elements of grammar, sentence structure, and composition of a well-developed paragraph. Prerequisite: Appropriate placement score and writing sample. Formerly ENG 077.

ENGL 087 Writing Essentials

5 Credits

Focuses on basic grammar conventions and mechanics; how to think critically; how to construct and combine sentences; how to organize and develop ideas; how to write paragraphs; and basic editing and proofreading skills. Prerequisite: Appropriate placement score or grade of C or higher in ENGL 077. Formerly ENG 087.

ENGL 097 Basic Expository Writing

5 Credits

Focuses on the composition of well-developed paragraphs and essays, the writing process, basic grammar, and critical thinking. Prerequisite: Appropriate placement score or grade of C or higher in ENGL 087.

ENGL& 101 English Composition I [C]

5 Credits

Focuses on the development of structural and stylistic writing skills with concentration on expository, critical, analytical, and persuasive essay techniques. Prerequisite: Appropriate placement score or grade of C or higher in ENGL 097. Formerly ENG 101, English Composition I.

ENGL& 102 English Composition II [C]

5 Credits

Focuses on the unique process of writing an academic research paper that addresses the concerns of a research community. Prerequisite: Grade of C or higher in ENGL& 101. Formerly ENG 102, English Composition II or ENGL& 104.

ENGL 104 Advanced English Composition [C]

5 Credits

An advanced English 101 class. Outcomes for Eng 104 are mirrored in 101 but with an important difference: students learn to compose college-level essays with a special emphasis given to style. The principles of good writing style will be systematically taught and the prose of accomplished stylists will be studied as models of good style. Besides learning to compose expository essays, the student will become a more capable stylist. Appropriate placement score or grade of C or higher in ENGL& 101.

ENGL& 111 Introduction to Literature [H]

5 Credits

Studies poetry, fiction, drama, and non-fiction. Formerly LIT 140, Intro to Literature.

ENGL& 112 Introduction to Fiction [H]

5 Credits

Examines short fiction from the 19th century to the present, drawn from a variety of countries and cultures. Formerly LIT 141, Intro to Fiction.

ENGL& 113 Introduction to Poetry [H]

5 Credits

Emphasizes the interpretation and appreciation of poetry in its various forms. Concentration is on narrative and lyric forms and an introduction to a wide variety of established poets. Formerly LIT 142, Intro to Poetry.

ENGLISH - ENGLISH AS A SECOND LANGUAGE

ENGL 115 Arthurian Literature [H]

3 Credits

Examines selected Arthurian legends found in literature, film, music and art from the middle ages to the modern period. Formerly LIT 111.

ENGL 118 Baseball Literature and American Culture [H]

5 Credits

Examines the short stories, poetry, novels, and non-fiction that focus on our national pastime in order to determine how authors perceive the game as reflective of larger issues in American life and the human condition. Recommended: READ 088 or higher.

ENGL 120 Creative Writing I

3 Credits

Literary techniques and forms and encourages writing of original works of fiction and poetry will be explored. While acknowledged writers may serve as examples of the craft of writing, the emphasis of the course lies in developing one's own unique style through various creative approaches. Formerly ENG 120.

ENGL 144 Introduction to Film [H]

5 Credits

Looks at selected films with emphasis on story, character, and criticism. Formerly LIT 144.

ENGL 147 Comic Books and Graphic Novels [H]

5 Credits

Examines a variety of forms of drawn literature, including comics, graphic novels, autobiography, as well as less traditional narratives. Primary focus of the course is on critical acclaimed graphic novels. Formerly LIT 147.

ENGL 149 Classic Childrens Literature [H]

5 Credits

Examines literary fiction directed to children. Formerly LIT 149.

ENGL 210 Myth and Folklore [D, H]

5 Credits

Examines the myths and folktales of the world with an emphasis on literature and culture. Course taken prior to fall 2010 also accepted for diversity requirement. Formerly LIT 210.

ENGL 212 African-American Literature [H]

3 Credits

Focuses on the study of major African-American writers. Formerly LIT 212.

ENGL 229 Environmental Literature [H]

5 Credits

Students will examine fiction, poetry, and literary nonfiction drawn from the tradition of nature and environmental writing to explore the complex relationships between place and self as the class considers the natural world and our relation to it from a variety of perspectives. Lectures and discussions will focus on nature-writing as mirror to shifting social, cultural, scientific, and personal perspectives on nature.

ENGL& 236 Creative Writing I

5 Credits

Literary techniques and forms and encourages writing of original works of fiction and poetry will be explored. While acknowledged writers may serve as examples of the craft of writing, the emphasis of the course lies in developing one's own style through various creative approaches. Formerly ENG 120, Creative Writing.

ENGL 245 American Literature [D, H]

5 Credits

Examines influential American literary voices and styles from settlement times through the present. Formerly LIT 245.

ENGL 251 Voices of Women in Literature [D, H]

5 Credits

Surveys selected women writers across time and cultures with a focus on women as authors and characters. Time period covered ranges from the 18th to the 21st century. Student may not earn credit for both ENGL 251 and WST 251. Course taken prior to fall 2010 also accepted for diversity requirement. Formerly LIT 251. Recommended: READ 088 or higher.

ENGL 256 Literature of the American West [H]

5 Credits

Examines the Western experience and mythology in Literature. Formerly LIT 256.

ENGL 257 Literature of the Inland Northwest [H]

5 Credits

Examines the historical and contemporary literature of the Inland Northwest in fiction, poetry, personal memoir, and letters from various cultures. Formerly LIT 257.

ENGL 261 Native American Literature [H]

3 Credits

Studies traditions, cultures, myths, roles, and problems facing Native Americans through essay, narrative, story, oratory, poetry, film, and song. Recommended: READ 088 or higher. Formerly LIT 261.

ENGL 265 World Literature [D, H]

5 Credits

Examines some of the world's great literary traditions, both ancient and modern, featuring poetry, story, and drama. Course taken prior to fall 2010 also accepted for diversity requirement. Formerly LIT 265.

ENGL 270 Detective and Spy Literature [H]

5 Credits

Surveys selected thriller literature from 1840 to the present. Formerly LIT 270.

ENGL 271 Science Fiction and Fantasy Literature [H]

5 Credits

Examines science fiction and fantasy genres with an emphasis on their emergence as significant literature. Formerly LIT 271.

ENGL 277 The Bible as Literature [H]

3 Credits

Surveys the principle forms of literature represented in the Bible. Formerly LIT 277.

English as a Second Language

ESL 001 Educational Interview

1 Credit

Learner-focused college readiness course designed to provide English as Second Language learners with an understanding of college culture, learning needs and goal setting. The course is offered with students one-to-one, in small or large groups, or in a combination of these configurations. Student can register for three consecutive 1-credit courses. The course must meet for at least 10 hours per quarter to earn one credit. State-mandated assessment as well as the college's registration processes are included. Course has fully developed modules of instruction and is offered as a computer enhanced course.

ENGLISH AS A SECOND LANGUAGE - ENOLOGY AND VIT.

ESL 005 ESL Level I

1 - 12 Credits

Offered to non-literate, pre-literate, or semi-literate students. Students will improve reading, writing, speaking, listening, and grammar in life skills contexts such as providing personal information, describing daily events, and identifying jobs and work-related abilities. Prerequisite: Placement by CASAS oral screen.

ESL 010 ESL Level II

1 - 12 Credits

Offered to students who are literate in their own language or progressed from ESL 005. Students will be able to read simple text and write simple sentences. Focus is to improve reading, writing, speaking, listening, and grammar in life skills contexts such as providing personal information, describing daily events, and identifying jobs and work related abilities. Prerequisite: Placement by CASAS or completion of ESL 005.

ESL 012 ESL Writing I

1 - 5 Credits

Based on the fundamentals of English grammar, progresses from vocabulary development to sentence-level grammatical instruction within the context of a wide range of personally relevant topics. Prerequisite: Appropriate CASAS placement score.

ESL 013 ESL Writing II

1 - 5 Credits

Focuses on the fundamentals of English grammar, and progresses from vocabulary development to sentence-level grammatical instruction and structured paragraphs. Computers are used for editing and proofreading as available. Prerequisite: CASAS score of 211 or higher.

ESL 014 Oral Communication

1 - 5 Credits

For students needing skills in verbal communication at a basic level. Students use familiar oral phrases, questions and social conversations to increase both speaking and listening comprehension. Prerequisite: CASAS placement score of 181-210.

ESL 015 Communication

1 - 5 Credits

Designed to meet the needs of students who speak with difficulty in familiar settings either face-to-face or in brief telephone conversations. Focus is on developing vocabulary, word choice, register, pace and gesture in order to increase effectiveness of communication. Prerequisite: CASAS placement score of 211 and above.

ESL 020 ESL Level III

1 - 12 Credits

Enables students to satisfy survival needs and routine work and social demands. Focuses on skills needed independently accomplish simple, well defined, and structured reading, writing, speaking, and listening skills needed to communicate in English. Placement by CASAS score of 191 or completion of ESL 010

ESL 030 ESL Level IV

1 - 12 Credits

Enables students to satisfy survival needs and routine work/social demands. Focuses on skills needed to independently accomplish simple, well defined, and structured reading, writing, speaking, and listening skills needed to communicate. Prerequisite: Placement by CASAS or completion of ESL 020. Students may co-enroll in IBEST courses with permission of the Transitional Studies Department.

ESL 040 ESL Level V

1 - 12 Credits

Enables students to satisfy routine work and social demands. Focuses on skills needed to independently accomplish well defined and structured reading, writing, speaking, and listening skills needed to communicate in English. Prerequisite: Placement by CASAS or completion of ESL 030. Student may co-enroll in a I-BEST courses with the permission of the Transitional Studies Department.

ESL 060 Multi-Level ESL

1 - 12 Credits

Offered for ESL students in levels I-VI. Student-centered instruction designed to develop language proficiency in reading, writing, speaking, listening and basic numeracy. Skills are developed in the context of everyday life situations with the goal of communicative and cultural competence. Technology is used to enhance learning opportunities as available.

ESL 066 e-Learning for ESL

1 - 9 Credits

Designed for ESL students at all levels of English competency. Students use a variety of computer programs and the Internet to improve language, grammar, vocabulary, study skills, and computer skills.

ESL 070 Special Purposes in ESL

1 - 11 Credits

Opportunity for students to pursue special interests and topics in ESL.

Enology and Viticulture

EV 101 Establishing a Vinifera Vineyard

4 Credits

Designed as an introduction to the processes of establishing a vineyard. Emphasis on site selection, vine varieties, soil preparation, planting methods, vineyard layout, and equipment requirements.

EV 102 Maintaining a Vinifera Vineyard

1 - 5 Credits

Provides the skills necessary for maintaining the vineyard from the point of dormancy through the harvest. Emphasizes crop monitoring techniques, pruning methods, bloom, vine manipulation, determining vine health, as well as the relationship that exists between the grower and the vintner.

EV 107 Introduction to Viticulture and Enology

5 Credits

A survey of the different viticultural and winemaking practices employed in wine production during harvest. Emphasis on vineyard harvest operations including: maturity sampling, bird netting and fall harvest. Involves the vintage productions of wines sold at College Cellars. Basic sensory analysis of wines will be performed to begin the process of palate training.

EV 108 Wine Industry Marketplace

3 Credits

Provides insights and experiences necessary to become not only a successful job applicant, but an informed and knowledgeable wine industry participant. Introduce you to the wine industry value chain, major players, industry associations and resources, industry statistics and current events. We will investigate the employers' perspective as well as strategic job seeking, networking, and interview tactics. Using this information, students will be able to match their personal and professional skills to opportunities in the industry, whether starting their own industry enterprise or seeking employment at an existing business.

ENOLOGY AND VITICULTURE

EV 131 Essentials of Winery Compliance

2 Credits

An introduction to winery compliance covering application processes, recordkeeping and reporting requirements for the Washington State Liquor Control Board (WSLCB), the Alcohol and Tobacco Tax and Trade Bureau (TTB), and the Washington State Department of Revenue (DOR).

EV 141 Introduction to Wine Marketing

3 Credits

Focuses on the student's attention on direct sales. This includes selling at the bonded premises, on-line and other direct sales methods.

EV 142 Consumer Direct Wine Sales and Marketing

3 Credits

Introduces the student to the goals of wine marketing, examines the difference between sales and marketing, and provides an in-depth look at the wine market.

EV 175 Vineyard and Winery Spanish

1 - 3 Credits

Designed for English speakers who work with winery and vineyard employees whose first language is Spanish. Covers basic pronunciation and verb conjugations while emphasizing vocabulary and expressions specific to the vineyard and winery.

EV 180 Wines of the World

1 Credit

An introduction to the wine producing regions of the world including history, viticultural practices, and winemaking styles. Includes sensory evaluation of representative wines. Must be at least 21 years old to enroll.

EV 188 Food and Wine Pairing & Presentation for the Wine Professional

2 Credits

Prepare, pair and present gourmet tastes and meals with classic and new world wines. Emphasis will be placed on the techniques of Contrasting, Complementing, and Infusing food and wine and how to use these techniques to garner sales when presenting wines to consumers and restaurant buyers. Prerequisite: Must be at least 21 years old to enroll.

EV 189 Sensory Analysis of Wine

2 Credits

Sensory analysis specific to wine production. The lecture will focus on the effect of appearance on taste perception as well as olfactory and taste transduction mechanisms. The lab portion will focus on specific wine varieties, use of oak in winemaking, secondary fermentation characteristics and individual wine component threshold identification. The overall purpose of the course is to help students to train their palates to make informed decision making during wine production. Prerequisite: EV 107. Must be at least 21 years old.

EV 193 Winery Operations Management

5 Credits

A multi-dimensional course on winery management and operations. Course includes (but not limited to) annual planning and budgets, labor relations and supervision including workplace health and safety issues. Also covered is state and federal compliance as mandated by WSLCB and the TTB, permit acquisition, record keeping, supply and product control, and best management practices for energy use. Disposal of liquid and solid winery waste and storage and distribution systems will also be covered. Prerequisite: MATH 065 or higher, and EV 107, Intro to Viticulture and Enology.

EV 194 Weather for Viticulturists

2 Credits

Outlines basic principles of weather and specifically the seasonal patterns that affect the Pacific Northwest. Various seasonal weather hazards to viticulture will be examined with respect to their origin along with the steps grape growers can take to mitigate such events: frost, hail, drought, excessive heat, winter cold injury and untimely rain, among others. Various mid- and long-range models offered by the National Weather Service and other meteorological entities that may assist the grape grower in making timely vineyard operations decisions will also be studied.

EV 196 Viticulture Practicum I

1 - 3 Credits

Provides students with hands-on learning experiences while assigned to a selected vinifera vineyard manager. Must be enrolled in the Viticulture program.

EV 197 Viticulture Practicum II

1 - 3 Credits

This is the second quarter of viticulture practicum which provides the student with hands-on learning experiences while assigned to a selected vinifera vineyard manager. Must be enrolled in the Viticulture program.

EV 198 Viticulture Practicum III

1 - 3 Credits

This is the third quarter of viticulture practicum which provides students with hands-on learning experiences while assigned to a selected vinifera vineyard manager. Must be enrolled in the Viticulture program.

EV 199 Special Topics

1 - 6 Credits

Study and train to meet established local needs in the enology and viticulture industry, supplemental to courses currently offered. Prerequisites: Current enrollment in the Enology program and instructor permission.

EV 203 Science of Winemaking I

3 Credits

This is an advanced enology course open only to students enrolled in the Enology and Viticulture program. Topics include winemaking principles such as fruit selection, pre-harvest analyses, fruit processing, juice additions, alcoholic and malolactic fermentations, as well as winery hygiene and safety. Prerequisites: Instructor permission. Must be at least 21 years old, and successful completion of AGPR 120 or CHEM& 110, MATH 065, and EV 102.

EV 204 Science of Winemaking II

5 Credits

Emphasizes the chemistry of winemaking, wine analysis and quality control. Students will learn wine composition, wine analytical techniques, and the relevance of these analyses to winemaking decisions. Students will also gain knowledge of wine filtration and post-fermentation wine stewardship. Prerequisites: At least 21 years old, successful completion of EV 203.

EV 205 Science of Winemaking III

5 Credits

Focus on stabilization and clarification of both white and red wines on the way to bottling. It will include both heat and cold stability as well as filtration and fining techniques of wine. The culmination of the course will be when wines which students started in EV 107 are blended, filtered, fined and bottled. Excursions to other wineries as well as guest speakers are included. Prerequisites: At least 21 years old and successful completion of EV 204.

ENOLOGY AND VITICULTURE - FARRIER SCIENCE

EV 231 Pesticide Licensing for Viticulture

1 Credit

Preparation for the State of Washington Private Applicator's pesticide licensing exam with a special focus on wine grapes. Successful completion of this and the state exam will result in issuance of the Washington State Private Applicator's Pesticide License.

EV 286 Winemaking Practicum I

1 - 3 Credits

Students experience hands-on learning while working at a selected winery and receiving supervision from a professional vintner. Must be enrolled in the Enology program. Prerequisites: Instructor permission.

EV 287 Winemaking Practicum II

1 - 3 Credits

Offers hands-on learning while working at a selected winery and receiving supervision from a professional vintner. Must be enrolled in the Enology program. Prerequisites: Instructor permission.

EV 288 Winemaking Practicum III

1 - 3 Credits

Students experience hands-on learning while working at a selected winery and receiving supervision from a professional vintner. Must be enrolled in the Enology program. Prerequisite: Instructor permission.

EV 297 Special Projects

1 - 10 Credits

Project-oriented experiences in the area or applications not covered in the standard enology and viticulture curriculum. Prerequisite: Instructor permission, based on evaluation of student's education and work experience.

EV 299 Leadership

1 Credit

Encourage students to develop awareness of their leadership potential and abilities through small group discussions and assumption of leadership roles and responsibilities. Students will acquire information, experience diverse points of view, construct knowledge and practice a variety of interpersonal and social skills, such as communicating, goal-setting, decision-making, team-building, and managing stress.

Environmental Studies

ENVS& 101 Introduction to Environmental Science [NS]

5 Credits

Provides a study of natural and modified systems and their interactions with humans and other living organisms. Students will gain scientific understanding of natural environments and the effects of human modification upon the natural world. Topics include: climate, soil, water resources, riparian areas, hazardous waste, and pollution of air, food, water, and agriculture. Students will learn about assessment procedures and riparian habitat improvements used by local government agencies. Lab work required. Prerequisite: Appropriate placement score or grade of C or higher in ENGL 087; or permission of the Science Division Chair or designee. Recommended: READ 088. Student may not earn credit for both ENVS& 101 and AGPR 101. Formerly ESCI 101, Introduction to Environmental Sciences.

ENVS 150 Issues in Environmental Science - Honors Seminar

2 Credits

An introduction to a specific area of interest in environmental science. The basic concepts of that particular area of environmental science will be covered, in addition to discussion of related current events and specific issues of local interest. Field experience will be part of the curriculum. Prerequisite: Instructor permission. Students must be enrolled in WWCC Honors Program.

Farrier Science

FRR 162 Small Business Management for Farriers

2 Credits

Introduction to management tools for small business. Includes knowledge of financial statements, business planning and budgeting, inventory control, financing and marketing.

FRR 191 Cooperative Work Experience

1 - 18 Credits

Opportunity to work in jobs directly related to the farrier industry. This formal training period is agreed upon by the student, employer, and instructor. Prerequisite: Instructor permission.

FRR 192 Cooperative Seminar

2 Credits

Students explore issues related to their cooperative work experience focusing on effective workplace relationships and how self-knowledge, perception, attitudes, and behavior affect these relationships and job satisfaction. Students will also learn effective learning skills for workplace and educational success. Co-requisite: FRR 191.

FRR 194 Basic Shoeing

1 - 18 Credits

Introduction to basic horse shoeing and forge work. Includes basic anatomy, basic balance, and basic shoeing.

FRR 195 Intermediate Shoeing

1 - 18 Credits

Hands-on shoeing and forge work experience with live horses. The student learns how to trim a horse's hooves, make or shape shoes, and apply them. Prerequisite: FRR 194.

FRR 197 Advanced Shoeing

1 - 18 Credits

Hands-on shoeing experience with live horses. Learn how to trim a horse's hooves, make or shape shoes, and apply them. Prerequisite: FRR 195.

FRR 199 Special Topics

1 - 15 Credits

Study and train to meet established local needs in the farrier industry, supplemental to courses currently offered. Prerequisite: Instructor permission.

FRR 245 Advanced Hoof Preparation and Shoeing

1 - 16 Credits

Hands-on shoeing experience with live horses for students beyond the intermediate level. Learn how to improve forging and shoeing abilities. Prerequisite: Instructor permission.

FRR 255 Advanced Forging - Handmade Shoe Unit

1 - 16 Credits

Hands-on shoeing experience with live horses for students beyond the intermediate level. The student applies hand made shoes with clips. Prerequisite: Instructor permission.

FARRIER SCIENCE - FIRE SCIENCE

FRR 283 Therapeutic Shoeing

1 - 16 Credits

Hands-on shoeing experience with live horses for students beyond the intermediate level. Learn how to make and apply all types of therapeutic and hand forged shoes. Prerequisite: Instructor permission.

FRR 297 Special Projects

1 - 16 Credits

Project-oriented experiences in the area or applications not covered in the standard farrier curriculum. Prerequisite: Instructor permission, based on evaluation of student's education and work experience.

FRR 299 Leadership

1 Credit

Encourage students to develop awareness of their leadership potential and abilities through small group discussions and assumption of leadership roles and responsibilities. Students will acquire information, experience diverse points of view, construct knowledge and practice a variety of interpersonal and social skills, such as communicating, goal-setting, decision-making, team-building, and managing stress.

Fire Science

FCA 100 Introduction to Firefighting

4 Credits

Provides an overview of the fire service and the role of the firefighter. Several aspects of a career with the Fire Service will be explored beginning with the origins of the modern American fire service, the complexity of the organization, and an introduction to the activities involved in fire protection. Students must have acceptance into the Fire Science program to enroll.

FCA 111 Fundamentals of Firefighting

5 Credits

Provides an introduction to firefighting fundamentals according to National Fire Protection Association (NFPA) standards and includes a practicum element. Topics include personal protective equipment, search and rescue techniques, health and safety, fire behavior, incident command systems, ladders and ventilation, and hazardous materials.

FCA 115 Advanced Firefighting

8 Credits

Taught according to the standards of the National Fire Protection Association (NFPA) and is the final segment in the FCA 111, FCA 113, and FCA 115 series. The course expands on the topics covered in the previous courses and will include hydraulics, sprinkler systems, fire prevention education, investigation, and multi-company operations. Upon completion of this segment, the student will be able to take the test for Level 1 Firefighter conducted by the state Fire Protection Bureau. Those who successfully complete the test will receive a certificate from the International Fire Service Accreditation Congress (IFSAC) that is recognized in 35 states and 19 countries. Prerequisite: FCA 111 or instructor permission.

FCA 120 Fire Investigation

3 Credits

Basic study of fire scene investigation procedures and techniques used to determine the origin and cause of fire. Topics include accurate determination of the origin and cause of fire, systematic approach to fire scene examination, chemistry of fire, accidental and incendiary fire causes, scene sketching, scene photography, note taking, and Washington State Criminal statutes. Additionally basic scene security, major fire scene control, report writing, interviewing, and courtroom demeanor for the firefighter and investigator will be discussed. Prerequisite: FCA 115 or instructor permission.

FCA 130 Hydraulics

3 Credits

Consistent with the competencies identified in National Fire Protection Association (NFPA) standards with primary emphasis on the duties and responsibilities of a pump operator. This is accomplished by learning the operating principles, theories, and construction of the apparatus, the maintenance, pumping, operating the pump, and the study of circulating hydraulics. Prerequisite: FCA 115. Recommended: MATH 065.

FCA 137 Fire Protection Systems

3 Credits

Study of fire protection and detection systems with a focus on the introduction of sprinkler system operation, maintenance, and inspection. Includes basic system designs including wet, dry, deluge, and pre-action; various sprinkler heads; system parts including connections and valves; and system operation including water supply. Maintenance and inspection of sprinkler systems and fire department support are discussed. Additional topics include occupancies requiring non-water type systems, examination of carbon dioxide systems, halogenated systems, wet/dry chemical systems, and standpipe systems along with the fire department standpipe systems. Additionally, the course explores fire extinguishers, fire detection and alarm systems. Prerequisite: FCA 100 or instructor permission.

FCA 152 Building Construction

3 Credits

Overview of building construction engineering principles, fire and life safety concerns, hazardous materials/techniques, and related design factors. Significant course time concentrates on the hazards of various methods, techniques, components, and materials found in building construction. Special attention to lightweight construction techniques as well as strategic and tactical considerations for contemporary building design. Utilization of building construction knowledge for pre-planning fire potential is emphasized. Prerequisite: FCA 115 or instructor permission.

FCA 160 Fire Tactics I

3 Credits

Addresses training in the planning, implementation, and evaluation of basic fire tactics at the responding officer level. Principle elements include pre-fire planning, size-up, fire simulation, fire behavior, organizational structures, tactics, strategy, resource requirements, and allocation of resources. Prerequisite: FCA 115 or instructor permission.

FCA 170 Hazmat Operations

3.0 Credits

Preparation for the IFSAC HAZMAT Operations level examination. Focus will be on Personal Protective Equipment, Health and Physical Hazards, Properties and Behavior, Hazardous Materials Identification, Incident Management and Priorities, Mitigation, Decontamination and Defensive Control Functions. The course meets the requirements of OSHA 1910.120 and NFPA 472 Awareness and Operations level core competencies.

FCA 177 Wildland Fire Management

3 Credits

Designed for firefighters that are confronted with a wildland fire situation and will focus on developing entry level wildland firefighting skills, emphasizing firefighter safety. The course complies with the PNWCG S-130/S-190 course requirements for entry level wildland firefighting. Prerequisite: FCA 111 or equivalent training.

FIRE SCIENCE - GEOGRAPHY

FCA 190 Uniform Fire Codes and Inspections

4 Credits

Study of the Uniform Fire Code as it applies to fire prevention inspections at the fire company level. Includes the Fire Code's relationship to the Uniform Building Code and other recognized standards. Special attention is given to the establishment and maintenance of model codes, the inspection process, and developing an understanding of the administrative section of the Uniform Fire Codes and the Uniform Building Codes. Discussion of public relations and alternate methods and materials give the course a realistic approach to field applications. Prerequisite: FCA 115 or instructor permission.

FCA 285 Public Safety Educator

2 Credits

Instruction on the skills and knowledge required to present public relations material and educational information from the fire service to the general public and other targeted groups on prevention, safety, and other fire related issues. In addition to the educational component, the student gains insights into working with community agencies, understanding the legislative process, and securing funding and other resources.

FCA 299 Leadership

3 Credits

Introduces the Fire Science student to leadership and influencing skills among emergency personnel. It will explain why effective leadership begins with personal insight and development, describe various leadership models, explore the value of trust in an organization, how to acquire personal influence, and how leaders create a work environment fostering leadership in others. In addition, the students will discuss the decision-making process especially in a crisis. Prerequisite: FCA 115 or instructor permission.

French

FRCH& 121 French I [H]

5 Credits

First quarter of a sequential first-year college-level French course that provides students with the basic tools of vocabulary, grammar, and pronunciation, along with opportunities to develop proficiency in listening, speaking, reading, and writing, while being exposed to the richness and diversity of the French-speaking world. Formerly FREN 101, French I.

FRCH& 122 French II [H]

5 Credits

Second quarter of a first-year college-level French course that provides students with the basic tools of vocabulary, grammar, and pronunciation, along with opportunities to develop proficiency in listening, speaking, reading, and writing, while being exposed to the richness and diversity of the French-speaking world. Prerequisite: FRCH& 121 or instructor permission. Formerly FREN 102, French II.

FRCH& 123 French III [H]

5 Credits

Third quarter of a first-year college-level French course that provides students with the basic tools of vocabulary, grammar, and pronunciation, along with opportunities to develop proficiency in listening, speaking, reading, and writing, while being exposed to the richness and diversity of the French-speaking world. Prerequisite: FRCH& 122 or instructor permission. Formerly FREN 103, French III.

FRCH 201 French IV [H]

5 Credits

First of a three-quarter sequence that encourages students to use their language skills more actively and at a more sophisticated level than the first-year sequence, this course provides a review and expansion of French grammar, development of conversational skills, reading literary and cultural materials, and writing compositions. Prerequisite: FRCH& 123 or instructor permission. Formerly FREN 201.

FRCH 202 French V [H]

5 Credits

Second of a three-quarter sequence that encourages students to use their language skills more actively and at a more sophisticated level than the first-year sequence, this course provides a review and expansion of French grammar, development of conversational skills, reading literary and cultural materials, and writing compositions. Prerequisite: FRCH 201 or instructor permission. Formerly FREN 202.

FRCH 203 French VI [H]

5 Credits

Third of a three-quarter sequence that encourages students to use their language skills more actively and at a more sophisticated level than the first-year sequence, this course provides a review and expansion of French grammar, development of conversational skills, reading literary and cultural materials, and writing compositions. Prerequisite: FRCH 202 or instructor permission. Formerly FREN 203.

Geography

GEOG 105 Physical Geography [NS]

5 Credits

The earth is a dynamic system that provides the exact combination of interrelated components to support life as we know it as this time. Introduces all aspects of earth systems, identifying physical phenomena and stressing their distribution and relationships. It will place a special emphasis on human-environmental relationships. Lab work required. Prerequisite: Appropriate placement score or grade of C or higher in ENGL 087; or permission of the Science Division Chair or designee. Recommended: READ 088.

GEOG 170 Introduction to Maps and Cartography [NS]

5 Credits

Introduction to the descriptive and graphic language of maps, the history of maps, map types, map study and interpretation, map uses, and mapping technology. Also, a brief introduction to cartography and geographic information systems (GIS) will be discussed. Lab work required. Prerequisite: Appropriate placement score or grade of C or higher in ENGL 087; or permission of the Science Division Chair or designee. Recommended: READ 088.

GEOG 201 Introduction to World Regional Geography [SS]

5 Credits

A study of the countries, regions, and people of the world in which we live. Emphasis placed on the examination of the interrelationships between people and their physical and cultural environments.

GEOGRAPHY - HIGH SCHOOL COMPLETION

GEOG 210 Introduction to Weather [NS]

5 Credits

Examines the nature of the atmosphere including: the study of weather elements, weather systems, climate, and the impact weather has on humans and vice versa. Provides an introduction to meteorology and the tools involved in the study of weather and climate. Lab work required. Prerequisites: MATH 095; appropriate placement score or grade of C or higher in ENGL 087; or permission of the Science Division Chair or designee. Recommended: READ 088 or higher; word processing and spreadsheet skills.

GEOG 211 Introduction to Climate and Climate Change [NS]

5 Credits

An introductory course in climatology, the study of Earth's present, past, and future climate. Examine natural and anthropogenic (human-caused) climate change on various timescales (from tens of years to hundreds of millions of years). Included are the effects of atmospheric greenhouse gases, tectonic climate forcing, orbital cycle variations, deep ocean circulation, and biological feedbacks. This course does not include a lab. Prerequisites: MATH 065; appropriate placement score or grade of C or higher in ENGL 087; or permission of the Science Division Chair or designee. Recommended: READ 088.

Geology

GEOL& 101 Introduction to Physical Geology [NS]

5 Credits

Study of the materials and processes of the earth. Topics include rocks and minerals, geologic time, volcanic activity, plate tectonic theory, earthquakes, earth's interior, and the surface processes controlled by wind, water movement, and gravity. Laboratory exercises involve identification of common rocks and minerals, use of topographic and geologic maps, and knowledge gained through the study of earthquakes. Course also includes one local field trip. Lab work required. Prerequisite: Appropriate placement score or grade of C or higher in ENGL 087; or permission of the Science Division Chair or designee. Recommended: READ 088. Formerly GEOL 101, Physical Geology.

GEOL& 103 Historical Geology [NS]

5 Credits

Study of the geological history of the earth; evolution of the earth, oceans, mountain building processes, and life. The principles of stratigraphy, biostratigraphy, geochronology, fossil identification, paleogeographic reconstructions, and plate tectonics are discussed. Lab work required. Prerequisite: Appropriate placement score or grade of C or higher in ENGL 087; or permission of the Science Division Chair or designee. Recommended: READ 088. Formerly GEOL 201, Historical Geology.

GEOL& 110 Environmental Geology [NS]

5 Credits

The study of geologic environments through a systems approach, which emphasizes the interconnections of Earth processes, Earth materials, and human activities. Includes student activities and projects conducted in the laboratory and outdoors. One all-day field trip is required. Lab work required. Prerequisite: Appropriate placement score or grade of C or higher in ENGL 087; or permission of the Science Division Chair or designee. Recommended: READ 088. Formerly GEOL 120, Environmental Earth Science.

GEOL 115 Survey of Earth Science [NS]

5 Credits

Introductory topics from Geology, Meteorology, Oceanography and Astronomy as these disciplines relate to the origin and dynamic evolution of Planet Earth. Lab work required. Course includes 2 hours of lab work per week. Prerequisite: Appropriate placement score or grade of C or higher in ENGL 087; or permission of the Science Division Chair or designee. Recommended: READ 088.

GEOL 130 History of Life on Earth [NS]

5 Credits

Study of the ways geology reveals and records the history of life on earth. Topics include geologic time, appearance of life, concepts of evolution, fossilization processes, taxonomy, biogeography, emphasis on fossil groups through time, extinction events/theories. Course includes one field trip and does not include a lab. Prerequisite: Appropriate placement score or grade of C or higher in ENGL 087; or permission of the Science Division Chair or designee. Recommended: READ 088.

GEOL& 208 Geology of the Pacific Northwest [NS]

5 Credits

Examines the geology and geologic history of the Pacific Northwest. Topics include volcanoes, earthquakes, plate tectonics, rocks and minerals, faults and folds, mountain building, and glaciations. Lab work required. Prerequisite: Appropriate placement score or grade of C or higher in ENGL 087; or permission of the Science Division Chair or designee. Recommended: READ 088. Formerly GEOL 210, Pacific Northwest Geology.

High School Completion

HSC 037 U.S. History

1 - 5 Credits

The history and culture of the United States from approximately 1898 to the present.

HSC 038 Civics and Current World Problems

1 - 5 Credits

A study of our freedoms and responsibilities as U.S. citizens including the Constitution, Bill of Rights, foreign relations. Focuses on the Constitution and current issues.

HSC 039 Pacific Northwest History

1 - 3 Credits

Geography, Indian cultures, settlement, economy, and ecology of the state of Washington and the Pacific Northwest.

HSC 041 Biology 1

1 - 5 Credits

Introduction to the life sciences, including topics from the fields of biology, chemistry, and environmental science. Emphasis on understanding the scientific method in preparation for advancement to college level science courses.

HSC 042 Biology 2

1 - 5 Credits

Biology 2 is the second in a series of two courses covering the fundamentals of Biology, preparing students to pass the End of Course Biology test required for graduation. Topics for Biology 2 include classification and physiology, genetics, evolution and animal behaviors. This course fulfills high school graduation for Science.

HIGH SCHOOL COMPLETION - HISTORY

HSC 043 American Government

1 - 5 Credits

A study of the structure and function of the Federal Government with the focus on the US Constitution and Bill of Rights.

HSC 044 College Prep Chemistry

1 - 5 Credits

A study of the composition, structure, and properties of matter, and the way matter changes. For high school credit only.

HSC 050 Geography and World Affairs

1 - 5 Credits

A study of basic world geography and contemporary national and international issues

HSC 060 Algebra IA

1 - 5 Credits

This course fulfills the first half of a modern high school algebra sequence with a focus in seven major topics: transition from arithmetic to algebra, solving equations & inequalities, probability and statistics, proportional reasoning, linear equations and functions, systems of linear equations and inequalities, and operations on polynomials. Students enrolled in this course must take the WA State High School End of Course Algebra Assessment if they have not attempted it once already. Prerequisite: Must be working toward a high school diploma.

HSC 061 Algebra IB

1 - 5 Credits

This course fulfills the second half of a modern high school algebra sequence with a focus in seven major topics: transition from arithmetic to algebra, solving equations & inequalities, probability and statistics, proportional reasoning, linear equations and functions, systems of linear equations and inequalities, and operations on polynomials. High school students enrolled in this course must take the WA State End of Course Assessment. Prerequisite: Attempted Algebra 1-2 or Math 65, earned .5 high school credit of Algebra 1, or HSC060; must be a student working toward a high school diploma.

HSC 062 Geometry 1

1 - 5 Credits

This course fulfills the first half in the fundamentals of plane geometry, covering the vocabulary and concept of geometry through the use of formal proof and algebra. Completion of the geometry sequence prepares students for higher level mathematics courses and for those science courses requiring a working knowledge of geometry. Prerequisite: Must be working toward a high school diploma.

HSC 063 Geometry 2

1 - 5 Credits

Course fulfills the second half in fundamentals of plane geometry, covering the vocabulary and concept of geometry through the use of formal proof and algebra and coordinate geometry. Completion of the geometry sequence prepares students for higher level mathematics courses and for those science courses requiring a working knowledge of geometry.

HSC 064 High School Financial Algebra

1 - 5 Credits

Business Math builds on basic operations of arithmetic, develops understanding and management of personal finances, provides an overview of business finance fundamentals, develops competency in percentages, discounting, pricing, simple and compound interest, and understanding of hidden costs. This course fulfills high school graduation requirements for math.

HSC 080 Reading Fundamentals

1 - 5 Credits

Students work on skill development in reading. Students practice a variety of reading comprehension strategies as they read a range of materials.

HSC 085 Writing Fundamentals

1 - 5 Credits

Students work on skill development in writing. Using the writing process, students will practice writing to a variety of audiences and purposes.

HSC 090 Senior Culminating Project

1 - 3 Credits

Designed to assist students enrolled in the College's Alternative Education Program in completing both the 'High School and Beyond Plan' and the 'Culminating Project', state-mandated high school graduation requirements. The course provides assistance for students in planning and implementation in the three broad areas of Academic Development, Career Development, and Personal and Social Development. Topics include the development of annual goals, development of a four-year plan, completing an academic inventory, collecting work samples, constructing and writing a personal culminating essay, drafting a financial plan, and creating and implementing a plan for volunteer service. Prerequisite: Instructor permission.

HSC 092 Walking/Health

1 - 5 Credits

Students will enhance physical fitness and develop lifelong skills through walking. Students will learn to use a heart rate monitor and will explore the importance of cardiovascular health.

History

HIST& 116 Western Civilization I [H, SS]

5 Credits

Survey of the history of Western society and culture from origins to Renaissance, Renaissance to Industrial Revolution, Industrial Revolution to the present. Recommended: READ 088 or higher. Student may not earn credit for both HIST& 116 and 126. Formerly HIST 101, Western Civilization I.

HIST& 117 Western Civilization II [H, SS]

5 Credits

Survey of the history of Western society and culture from origins to Renaissance, Renaissance to Industrial Revolution, Industrial Revolution to the present. Recommended: READ 088 or higher. Student may not earn credit for HIST& 117 and 127. Formerly HIST 102, Western Civilization II.

HIST& 118 Western Civilization III [H, SS]

5 Credits

The history of Western society and culture covering from origins to Renaissance, Renaissance to Industrial Revolution, Industrial Revolution to the present. Recommended: READ 088 or higher. Student may not earn credit for both HIST& 118 and 128. Formerly HIST 103, Western Civilization III.

HIST 120 American Presidency [SS]

5 Credits

A historical and analytical examination of the Executive Branch of the United States government. Primary areas of emphasis include: leadership styles of each President, evolutionary changes in the power of the office, and the consequences of each on the country. Recommended: READ 088 or higher. Student may not earn credit for both HIST 120 and POLS 120.

HISTORY

HIST& 126 World Civilization I [H, SS]

5 Credits

Introduction to world history from a global perspective, spanning the origins of civilization through the classical world and the birth of Islam. Specifically addresses the evolving character of civilization as well as humankind's search for meaning in the face of historic change. Recommended: READ 088 or higher. Student may not earn credit for both HIST& 126 and 116. Formerly HIST 105, World History.

HIST& 127 World Civilization II [H, SS]

5 Credits

Introduction to world history from a global perspective, from Tang-era China to the late 18th century Europe's "Age of Revolution". Specifically tracks the evolution of world civilizations to nation-states, establishing the basic character of the modern world. Recommended: READ 088 or higher. Student may not earn credit for HIST& 127 and 117. Formerly HIST 107, Early Modern Civilization.

HIST& 128 World Civilization III [H, SS]

5 Credits

Introduction to the history of world cultures from a global perspective, covering the last two centuries of world history, from roughly 1800 to present. Recommended: READ 088 or higher. Student may not earn credit for both HIST& 128 and 118. Formerly HIST 109, Modern Civilization.

HIST& 146 US History I [SS]

5 Credits

Survey of the significant individuals and events that have shaped the growth and development of the United States. Particular attention will be given to the political, economic, religious, and cultural foundations of this development. This course covers the time period from the early Native American societies to the 1830s. Recommended: READ 088 or higher. Formerly HIST 201, American History I.

HIST& 147 US History II [SS]

5 Credits

Survey of the significant individuals and events that have shaped the growth and development of the United States. Particular attention will be given to the political, economic, religious, and cultural foundations of this development. This course focuses on the period from the 1830s to World War I. Recommended: READ 088 or higher. Formerly HIST 202, American History II.

HIST& 148 US History III [SS]

5 Credits

Survey of the significant individuals and events that have shaped the growth and development of the United States and the American civilization from 1900 to the present. Particular attention will be given to the political, economic, religious and cultural foundations of this development. Recommended: READ 088 or higher. Formerly HIST 203, American History III.

HIST 205 American Environmental History [SS]

5 Credits

Explores the natural environment and its role throughout American history with special emphasis upon the ways in which different cultural groups have perceived, used, and managed America's natural environment from pre-colonial America to the present. Examines changing attitudes and behaviors toward nature with specific attention to conservation and preservation and the consciousness that has contributed to the American environmental movement. Recommended: READ 088 or higher.

HIST 211 U.S. in World Affairs I [SS]

5 Credits

Examination of American involvement in international affairs. Study includes this country's foreign policy actions as a world power, with special attention given to both the policy makers and critics of our nations position on significant international issues from the colonial period to the beginning of the 20th Century. Recommended: READ 088 or higher. Student may not earn credit for both HIST 211 and POLS 211.

HIST 212 U.S. in World Affairs II [SS]

5 Credits

Examination of American involvement in international affairs since 1898. Study includes this country's foreign policy actions as a world power, with special attention given to both the policy makers and critics of our nations position on significant international issues from the Spanish-American War to the present. Recommended: READ 088 or higher. Student may not earn credit for both HIST 212 and POLS 212.

HIST& 214 Pacific Northwest History [SS]

5 Credits

Survey of the growth and development of the Pacific Northwest Region from the early Native American societies to the present. Focuses on the cultural, economic, political, and religious development of Washington, Oregon, and Idaho from jointly occupied territories to statehood. Special emphasis will be given to the consequences of contact between European/American groups and the indigenous Native societies. Recommended: READ 088 or higher. Formerly HIST 210, Northwest History.

HIST& 215 Women in U.S. History [D, SS]

5 Credits

Survey of the significant contributions of women to the growth and development of the United States from the early Native American societies to the present. Examine pioneering individuals and organizations, relevant legal, social, moral, political, economic, and religious issues concerning women in American society. Recommended: READ 088 or higher. Student may not earn credit for both HIST& 215 and WST 215. Course taken prior to fall 2010 also accepted for diversity requirement. Formerly HIST 280, Women in US History.

HIST 250 Introduction to Latin America [D, SS]

5 Credits

Provides an introduction to Latin America with special emphasis on pre-European, colonial, national and international developments that have shaped the regions character from 1500 to the present. Course taken prior to fall 2010 also accepted for diversity requirement. Formerly HIST 280. Recommended: READ 088 or higher.

HIST 255 Traditional East Asian Civilization [SS]

5 Credits

Survey of Chinese and Japanese history and culture from prehistory to present. Recommended: READ 088 or higher.

HIST 256 Modern East Asian Civilization [SS]

5 Credits

Survey of Chinese, Japanese, Korean, and Vietnamese history and culture from 1800 to the present. Recommended: READ 088 or higher.

HISTORY – JOHN DEERE DEALERSHIP MANAGEMENT

HIST 262 The Modern Middle East [SS]

5 Credits

Introduction to the political, social, economic, and cultural patterns of development in the Middle East from 1798 to the present. Topics begin with the Reforms of the Ottoman Empire and conclude with the American occupation of Iraq. Recommended: READ 088 or higher.

HIST 299 Special Projects in History

1 - 5 Credits

A course providing students the opportunity to research an area of history under the supervision of an instructor. Prerequisite: One course in history and instructor permission.

Humanities

HUM 106 Film Technique and Artistry [H]

5 Credits

Studies the technical and artistic elements of several culturally diverse full length classic motion pictures.

HUM 107 Gender Perceptions in American Film [D, H]

5 Credits

Studies the female and male image in several genres of Hollywood movies. R rated movies are screened.

HUM 109 World Arts and Culture [H]

5 Credits

Study of literature, poetry, visual art, film, theatre, music and history in cultures outside the United States. Recommended: ENGL 097.

HUM 110 Four Perspectives [D, H]

5 Credits

Exploration of teachings of Pythagoras, the Buddha, Jesus Christ, and Galileo. Course taken prior to fall 2010 also accepted for diversity requirement.

HUM& 116 Humanities I [H]

5 Credits

Study of literary, artistic, and cultural achievements in the ancient world. Formerly HUM 101, Intro to Humanities I.

HUM& 117 Humanities II [H]

5 Credits

Study of literary, artistic, and cultural achievements in the middle ages and the renaissance. Formerly HUM 102, Intro to Humanities II.

HUM& 118 Humanities III [H]

5 Credits

Study of literary, artistic, and cultural achievements in the modern world. Formerly HUM 103, Intro to Humanities III.

HUM 299 Special Topics

1 - 5 Credits

Opportunity for students to pursue special interests and topics in the humanities. Requires working with humanities faculty to develop a project and to determine the research and presentational methods as well as outcomes to be achieved and assessed.

Industrial First Aid

IFA 022 Medic First Aid Basic

.4 Credit

A fundamental training program in emergency care that incorporates CPR and other emergency skills into a single course. Emphasizes utilizing the priorities of care and approach to the patient as demonstrated by professional emergency care

providers. The core program provides minimum information and skills for a variety of environments and can be supplemented with additional first aid topics specific to the needs of the course participants. Available on-campus as well as on a contract basis throughout Walla Walla and Columbia counties.

IFA 023 Medic First Aid Re-Certification

.2 Credit

A review of basic Medical First Aid that provides the student with CPR training and other emergency skills. Priorities of care are reviewed, and key components of the basic course are demonstrated. In order to take the re-certification course, the basic course must have been taken within the prior two-year period. Students must have Medic First Aid card issued within the last two years to enroll.

John Deere Dealership Management

JDAS 101 John Deere Fundamentals and Orientation

1 Credit

Introduction to manuals, service advisor information system, engine classifications, and serial numbers. Warranty, work orders, and John Deere recommended service department policies and procedures are explained. Orientation of John Deere product lines and the evolution of these products. Safe use and operation of shop tools will be discussed and demonstrated. Student may not earn credit in both JDAS 101 and JD 101.

JDAS 110 John Deere Theory of Engine Operations

2 Credits

Provides the basic physical principles, operation, and construction of two- and four-stroke cycle engines. Topics include ignition timing of four-stroke cycle engines, basic diagnostic engine test procedures, and types of internal combustion engine cooling systems. Student may not earn credits for both JDAS 110 and JD 110.

JDAS 115 John Deere Electrical

3 Credits

Provides basic electrical principles and applications of magnetism, electromagnetism, and the safe utilization of electrical test meters. Principles of operation, testing, and repair of ignition systems, cranking systems, and charging systems are demonstrated and practiced. Student may not earn credit for both JDAS 115 and JD 115.

JDAS 135 John Deere Tractor Performance

1 Credit

Provides proper performance of John Deere agricultural tractors. Techniques and procedures for determining percentage of tractor slippage and ballast are demonstrated, practiced and corrections made in actual field conditions. Dynamometer operation, test procedures, and safety are demonstrated. Student may not earn credit for both JDAS 135 and JD 135.

JDAS 190 Cooperative Work Experience I

1 - 3 Credits

Offers students an opportunity to receive on-the-job work experience in a John Deere Dealership. Students apply and utilize skills learned on campus. Student may not earn credit in both JDAS 190 and JD 190.

J.D. DEALERSHIP MANAGEMENT – J.D. TECHNOLOGY

JDAS 191 Cooperative Work Experience II 16 Credits

Opportunity to receive on-the-job work experience in a John Deere Dealership. Students apply and utilize skills learned on campus. Prerequisite: JDAS 190. Student may not earn credit in both JDAS 191 and JD 191.

JDAS 199 Special Topics 1 - 10 Credits

Study and train to meet established local needs in the John Deere industry, supplemental to courses currently offered. Prerequisite: Instructor permission.

JDAS 205 John Deere Hydraulics 3 Credits

Principles and application of fluid flow and hydraulic components are discussed. Testing and repair of low-pressure and high-pressure systems and control circuits are explained, demonstrated, and practiced. Offered to second year students only. Student may not earn credit in both JDAS 205 and JD 205.

JDAS 221 Ag Management Solutions 2 Credits

Provides basic knowledge and skills that enable students to market, and support solutions that feature products from Ag Management Solutions. Much of this training is designed specifically to enable the student to understand the different applications of global positioning systems and precision farming practices. Students will apply problem-solving skills. Student may not earn credit in both JDAS 221 and JD 221.

JDAS 230 John Deere Harvesting Equipment 2 Credits

Performance of John Deere harvesting equipment will be analyzed. Topics include theory, design, principles of operation, proper set up and adjustment of all harvesting equipment. Emphasis on combines, hay, and forage equipment. Student may not earn credit for both JDAS 230 and JD 230.

JDAS 290 Cooperative Work Experience III 1 - 5 Credits

Offers students an opportunity to receive on-the-job work experience in a John Deere Dealership. Students apply and utilize skills learned on campus. Student may not earn credit in both JDAS 290 and JD 290.

JDAS 297 Special Projects 1 - 16 Credits

Project-oriented experiences in the area or applications not covered in the standard John Deere curriculum. Prerequisite: Instructor permission, based on evaluation of student's education and work experience

John Deere Technology

JD 101 John Deere Fundamentals and Orientation 1 - 3 Credits

Introduction to manuals, service advisor information system, engine classifications, and serial numbers. Warranty, work orders, and John Deere recommended service department policies and procedures are explained. Orientation of John Deere product lines and the evolution of these products. The safe operation of shop tools will be demonstrated and a forklift safety and operation test will be included. Student may not earn credit in both JD 101 and JDAS 101.

JD 102 Forklift Safety Training and Certification 1 Credit

Designed to meet the new OSHA requirements for lift truck operator training and certification. Safe lifting/chaining and moving of loads will be demonstrated and discussed.

JD 110 John Deere Theory of Engine Operations 3 Credits

Provides basic physical principles, operation, and construction of two- and four-stroke cycle engines. Topics include ignition timing of four-stroke cycle engines, basic diagnostic engine test procedures, and types of internal combustion engine cooling systems. Student may not earn credits for both JD 110 and JDAS 110.

JD 115 John Deere Electrical 8 Credits

Provides basic electrical principles and applications of magnetism, electromagnetism, and the safe utilization of electrical test meters. Principles of operation, testing and repair of ignition systems, cranking systems, and charging systems are demonstrated and practiced. Student may not earn credit for both JD 115 and JDAS 115.

JD 120 John Deere Heating and Air Conditioning 4 Credits

Theory, operation, and repair of late model John Deere air conditioning, heating, and ventilation systems are discussed. Recovery, recycling, and recharging of the air conditioning systems are demonstrated and practiced.

JD 125 John Deere Diesel and Gasoline Fuel Systems 4 Credits

Theory, operation, construction, testing, and repair methods for spark ignition and compression ignition fuel systems are explored. Topics include relationship of valve timing, ignition, and injection timing to normal combustion. Theory and repair practices are demonstrated and discussed.

JD 130 John Deere Engine Repair 6 Credits

Basic theory, construction, and operation of gas and diesel engines are analyzed. Topics include disassembly, inspection, measurement, reassembly, and adjustments to John Deere diesel and gas engine components.

JD 135 John Deere Tractor Performance 3 Credits

Provides proper performance of John Deere agricultural tractors. Techniques and procedures for determining percentage of tractor slippage and ballast are demonstrated, practiced and corrections made in actual field conditions. Dynamometer operation, test procedures, and safety are demonstrated. Student may not earn credit for both JD 135 and JDAS 135.

JD 190 Cooperative Work Experience I 16 Credits

Offers students an opportunity to receive on-the-job work experience in a John Deere Dealership. Students apply and utilize skills learned on campus. Student may not earn credit in both JD 190 and JDAS 190.

JD 191 Cooperative Work Experience II 16 Credits

Opportunity to receive on-the-job work experience in a John Deere Dealership. Students apply and utilize skills learned on campus. Prerequisite: JD 190. Student may not earn credit in both JD 191 and JDAS 191.

JOHN DEERE TECHNOLOGY - MATHEMATICS

JD 192 Cooperative Seminar I

2 Credits

Students explore issues related to their cooperative work experience focusing on effective workplace relationships and how self-knowledge, perception, attitudes, and behavior affect these relationships and job satisfaction. Students will also learn effective learning skills for workplace and educational success. These learning skills include memory, concentration, time management, textbook reading, and exam preparation. Human relations topics include group dynamics, employee and management roles, and conflict resolution. Co-requisite: JD 190

JD 193 Cooperative Seminar II

2 Credits

Explore issues related to their cooperative work experience focusing on effective workplace relationships and applying leadership skills to promote personal development. Provide professional improvement through techniques such as effective communication, conflict resolution, team building, employee engagement and decision making. Co-requisite: JD 191.

JD 199 Special Topics

1 - 10 Credits

Study and train to meet established local needs in the John Deere industry, supplemental to courses currently offered. Prerequisite: Instructor permission.

JD 205 John Deere Hydraulics

9 Credits

The principles and application of fluid flow and hydraulic components are discussed. Testing and repair of low- pressure and high-pressure systems and control circuits are explained, demonstrated, and practiced. Offered to second year students only. Student may not earn credit in both JD 205 and JDAS 205.

JD 210 John Deere Power Train

9 Credits

Theory of power transmission from engine to traction wheels are discussed. Topics include function and operation of gears, chains, clutches, planetary gears, drive lines, differentials, and transmissions. Complete disassembly, inspection, and reassembly to specification are practiced. Offered to second year students only.

JD 215 John Deere Cab/Chassis Electrical and Electronics

4 Credits

Review of electrical fundamentals, basic electronics, and electrical diagnostics. Topics include techniques of electrical and electronic circuit diagnostics and reading electrical schematics.

JD 221 Ag Management Solutions

2 Credits

Provides basic knowledge and skills that enable students to market, and support solutions that feature products from Ag Management Solutions. Much of this training is designed specifically to enable the student to understand the different applications of global positioning systems and precision farming practices - students will apply problem-solving skills. Student may not earn credit in both JD 221 and JDAS 221.

JD 225 John Deere Planting Equipment

3 Credits

Provides proper performance of John Deere planting equipment. Topics include theory, design, principles of operation, proper setup and adjustment of all planting equipment. Student may not earn credit for both JD 225 and JDAS 225.

JD 230 John Deere Harvesting Equipment

4 Credits

Performance of John Deere harvesting equipment will be analyzed. Topics include theory, design, principles of operation, proper set-up and adjustment of all harvesting equipment. Emphasis on combines, hay, and forage equipment. Student may not earn credit for both JD 230 and JDAS 230.

JD 235 John Deere Advanced Hydraulics II

4 Credits

Explores principles, function, and application of electric over hydraulic circuits as found on row crop, 4-WD, and combines. Construction, fluid flow, electrical flow, and testing of systems are explained, demonstrated, and practiced.

JD 240 John Deere Advanced Power Training II

4 Credits

Explores principles, function, and application of electronic controlled transmissions as found on row crop, 4-WD, and other agriculture equipment.

JD 290 Cooperative Work Experience III

16 Credits

Offers students an opportunity to receive on-the-job work experience in a John Deere Dealership. Students apply and utilize skills learned on campus. Prerequisite: JD 191. Student may not earn credit in both JD 290 and JDAS 290.

JD 297 Special Projects

1 - 16 Credits

Project-oriented experiences in the area or applications not covered in the standard John Deere curriculum. Prerequisite: Instructor permission, based on evaluation of student's education and work experience.

Mathematics

MATH 049 Mathematics I

5 Credits

Basic mathematical concepts with an emphasis on practical application and consumer-related word problems. Also deals with the fundamental operations of whole numbers, fractions, decimals, and percentages. Provides an introduction to measurement, graphs, exponents, integers, and informal geometry including perimeter, area, volume, and basic construction. Prerequisite: Appropriate placement score or instructor permission.

MATH 050 Mathematics II

5 Credits

Bridges the gap between arithmetic and algebra. Topics include arithmetic review, informal geometry, measurement, signed numbers, linear equations and inequalities, polynomials, and graphing. Prerequisite: Appropriate placement score; grade of C- or higher in MATH 049 or instructor permission.

MATH 054 Special Topics in Math

1 - 5 Credits

Specific math needs are met for individual students. Student and instructor determine areas of emphasis.

MATH 065 Introductory Algebra

5 Credits

The first of a two-course series covering the basics of algebra (MATH 065, 095). Topics include variables and their applications working with algebraic expressions, solving equations, and an introduction to graphing linear and quadratic functions. Prerequisite: Appropriate placement score or grade of C- or higher in MATH 050, or permission of Mathematics Department.

MATHEMATICS

MATH 095 Intermediate Algebra

5 Credits

The second of a two-course series covering the basics of algebra (MATH 065/095). Topics include working with algebraic expressions (polynomial, algebraic fractions, radicals, exponential, logarithmic), solving equations and inequalities (polynomial, rational, radical, exponential, logarithmic), solving systems of linear equations, an introduction to functions, and graphing functions/relations (linear, quadratic, simple conics, exponential, logarithmic). Prerequisite: Appropriate placement score or grade of C- or higher in MATH 065; or permission of the Mathematics Department.

MATH& 107 Math in Society [NS, Q]

5 Credits

Demonstrates the use of a variety of mathematical topics in management science, social choice, measurement and geometry, and other miscellaneous areas. Quantitative skills necessary to understanding and taking a part in our technological society will be stressed. Prerequisite: Grade of C- or higher in MATH 095 or permission of the Mathematics Department. Formerly MATH 107, Mathematics: A Practical Experience.

MATH 115 Finite Mathematics [NS, Q]

5 Credits

Study of mathematical systems encountered in the work of behavioral, managerial, and social science students. Topics include systems of linear equations and inequalities, matrices, linear programming, introductory probability, mathematics of finance, and elementary Markov chains. Prerequisite: Grade of C- or higher in MATH 095 or permission of the Mathematics Department.

MATH& 141 Precalculus I [NS, Q]

5 Credits

The first in a series of two courses designed to provide an in-depth study of algebra to prepare students for advanced mathematics courses. Graphical analysis of concepts is emphasized through the use of graphing calculators. Topics include working with algebraic expressions, solving equations algebraically and graphically, and a detailed analysis of the algebraic and graphical properties of various functions. Prerequisite: Grade of C- or higher in MATH 095 or permission of the Mathematics Department. Formerly MATH 109, Precalculus I.

MATH& 142 Precalculus II [NS, Q]

5 Credits

The second course of the precalculus sequence. Graphical analysis of concepts is emphasized through the use of graphing calculators. Topics include right triangle trigonometry, algebraic and graphical analysis of trigonometric and inverse trigonometric functions, applications of trigonometric functions, vectors, systems of linear and nonlinear equations, (algebraic, matrix, and graphical solution techniques) parametric, and polar graphing. Prerequisite: Grade of C- or higher in MATH& 141 or permission of the Mathematics Department. Formerly MATH 110, Precalculus II.

MATH& 148 Business Calculus [NS, Q]

5 Credits

Introduction to calculus as applied to business and economics as well as the behavioral, social, and life sciences. Topics include functions, exponential and logarithmic function derivatives and their applications, integrals and their applications. Prerequisite: Grade of C- or higher in MATH 095 or permission of the Mathematics Department. Formerly MATH 121, Survey of Calculus.

MATH& 151 Calculus I [NS, Q]

5 Credits

The first in a sequence of four courses for students who are planning to major in engineering, mathematics, or the sciences. Graphical analysis of concepts is emphasized through the use of graphing calculators. Topics include limits and continuity, derivatives and their applications, and an introduction to the definite integral (optional). Prerequisite: Grade of C- or higher in MATH& 142 or permission of the Mathematics Department. Formerly MATH 124, Calculus with Analytic Geometry I.

MATH& 152 Calculus II [NS, Q]

5 Credits

Continuance of MATH& 151, topics include introduction to the definite integral (optional), applications of the definite integral, differentiation and integration of logarithmic, exponential, trigonometric, and hyperbolic functions, and techniques and applications of integration. Prerequisite: Grade of C- or higher in MATH& 151 or permission of the Mathematics Department. Formerly MATH 125, Calculus with Analytic Geometry II.

MATH& 153 Calculus III [NS, Q]

5 Credits

Continuance of MATH& 152, topics include differential equations, infinite sequences and series, parametric curves, vectors, and surfaces. Prerequisite: Grade of C- or higher in MATH& 152 or permission of Mathematics Department. Formerly MATH 126, Calculus with Analytic Geometry III.

MATH 201 Introduction to Statistics [NS, Q]

5 Credits

Study of both descriptive and inferential statistics. Topics include data presentation, and analysis, measures of central tendency and dispersion, sampling distributions, parameter estimation hypothesis testing, and linear regression. Prerequisite: Grade of C- or higher in MATH 095 or permission of the Mathematics Department.

MATH 205 Mathematics for Elementary School Teachers I [NS]

5 Credits

Designed for elementary school teachers focusing on methods of problem-solving, development and structure of number systems, and numerical algorithms applicable to elementary school mathematics. Prerequisite: Appropriate placement score or grade of C- or higher in MATH 095; or permission of Mathematics Department.

MATH 206 Mathematics for Elementary School Teachers II [NS, Q]

5 Credits

Designed for elementary school teachers focusing on topics in geometry, statistics, and measurement pertaining to mathematics taught at the elementary school level. This course satisfies the quantitative skills requirement for the AA degree, provided that MATH 205 has also been completed with a grade of C- or higher.

MATH 220 Linear Algebra [NS, Q]

5 Credits

Designed for students planning studies in mathematics, engineering, computer science, and physics. Topics include systems of linear equations, matrices, determinants, eigenvalues, eigenvectors, vector spaces, linear transformations, orthogonality, and diagonalization. Prerequisite: Grade C- or higher in MATH& 153 or permission of the Mathematics Department.

MATHEMATICS – MUSIC

MATH 238 Differential Equations [NS, Q]

5 Credits

First-order and higher-order differential equations, systems of linear differential equations, LaPlace transforms, numerical methods, and qualitative analysis of ODE's will be discussed. Prerequisite: Grade C- or higher in MATH& 153 or permission of the Mathematics Department.

MATH& 254 Calculus IV [NS, Q]

5 Credits

Introduction to multi-variable calculus. Topics include vector-valued functions, partial derivatives, directional derivatives, multiple integration, vector analysis, line and surface integrals, Green's and Stoke's theorems. Prerequisite: Grade C- or higher in MATH& 153 or permission of the Mathematics Department. Formerly MATH 224, Calculus & Analytical Geometry IV.

Medical Assisting

MEDA 105 Health Occupations Mathematics

5 Credits

Intensive practical math designed for individuals entering the health occupations industry. Prerequisite: Appropriate placement score. Recommended: MATH 050 or OCSUP 106.

MEDA 110 Human Body Structure and Function in Health and Disease I

5 Credits

Integration of basic structure and functions of the human body with disease processes that can affect body systems. This is the first of two human structure and function classes and includes an introduction to cellular function, as well as the anatomy and physiology of the integumentary, skeletal, muscular, neurologic, sensory, and digestive systems. Included are common diagnostic tests, treatments and possible prognoses for common disease processes that can affect each system. Prerequisite: Instructor permission.

MEDA 114 Therapeutic Relationships

2 Credits

Emphasizes the importance of communication in the medical setting. Students will learn to utilize well-defined professional skills to increase the effectiveness of communication between themselves and their patients. Topics discussed will include how cultural influences, biases, and prejudices may affect interactions; listening skills; verbal and non-verbal communication; roadblocks to effective communication; and interview techniques. Prerequisite: Admission to the Medical Assisting program. Recommended: READ 088 or higher.

MEDA 120 Human Body Structure and Function in Health and Disease II

5 Credits

Second of two human structure and function classes for the Medical Assisting program. Included is a discussion of the anatomy and physiology of the endocrine system, hemodynamics, the heart, circulation and blood vessels, immunity and the lymphatic system, respiratory system, urinary system, and reproductive system. Common diagnostic tests/treatments, pharmacological agents, and possible prognoses for common disease processes are included. Prerequisite: MEDA 110.

MEDA 125 Clinical Procedures

10 Credits

Provides a foundation in basic patient exam techniques and minor procedures, and basic diagnostic laboratory techniques and procedures commonly performed in the physician's office or clinic. The lab portion of this course provides practice in the above techniques. Prerequisite: MEDA 120.

MEDA 140 Medical Law and Ethics

2 Credits

Introduction to the legal and ethical side of medical settings. This course exposes the student to legal concepts, including standard of care, criminal and civil acts, contracts, negligence, ethical concepts, confidentiality, and scope of practice for health care professionals. Prerequisite: Admission to the Medical Assisting program. Recommended: READ 088 or higher.

MEDA 144 Medical Office Administrative Procedures

5 Credits

Explores the flow of information in a medical office. MediSoft, Office Hours, and MS Word software programs are utilized to process information and produce typical medical office documents, financial records, and insurance claims. Prerequisite: Admission to the Medical Assisting program.

MEDA 145 Office Emergencies for Medical Assistants

1 Credit

Recognize emergencies and distinguish between emergency and non-emergency situations. It gives the student the knowledge and theory for appropriate response to office/clinic emergencies. Includes instruction in emergency response guidelines, documentation and emergency recordkeeping, recognizing victims of abuse and neglect, sudden illness, cardiac emergencies, CPR, psychological issues related to emergency response and burnout. Prerequisite: Admission to the Medical Assisting program. Recommended: READ 088 or higher.

MEDA 149 Medical Insurance Procedures for Medical Assisting

5 Credits

Provides a basic introduction to accurate billing procedures in the medical office and medical coding procedures used to obtain reimbursement for medical procedures or services. Billing topics include different types of health insurance, and preparation of insurance claim forms, applying third party payor guidelines and collection procedures. Coding topics will include the proper application of CPT, ICD-9-CM and HCPCS coding along with an introduction to ICD-10-CM. Intended for Medical Assisting Program students.

MEDA 191 Medical Assisting Practicum

1 - 7 Credits

Opportunity for students to use the skills they have acquired throughout the Medical Assisting program in a medical office or clinic. Co-requisite: MEDA 192.

MEDA 192 Medical Assisting Seminar

2 Credits

This hybrid seminar meets once a week and online for those students enrolled in MEDA 191. Students will discuss the weeks experiential activities in the clinical setting as well as the legal and ethical issues encountered, and will have the opportunity to ask questions and receive input from the instructor. Creation of resumes and job interviewing skills will be introduced. Additionally, students will receive guidance and preparation for participation in post graduation certification examinations. Prerequisite: Completion of first three quarters of MA program. Co-requisite: MEDA 191.

MUSIC

Music

MUSC 102 Music Fundamentals I 3 Credits

An introduction to basic musical skills for students interested in the piano, reading music, song-writing, and preparing for the study of Music Theory. Formerly MUS 102.

MUSC 103 Music Fundamentals II 3 Credits

An introduction to basic musical skills for students interested in the piano, reading music, song-writing, and preparing for the study of Music Theory. Prerequisite: MUSC 102 or instructor permission. Formerly MUS 103.

MUSC 104 Music Fundamentals III 3 Credits

An introduction to basic musical skills for students interested in the piano, reading music, song-writing, and preparing for the study of Music Theory. Prerequisite: MUSC 103 or instructor permission. Formerly MUS 104.

MUSC& 105 Music Appreciation [D, H] 5 Credits

Emphasizes the development of a broad range of critical listening skills needed to appreciate the abundant variety of the world's music. Includes guided hands-on musical activities, class participation, and active listening to music of many cultures. Course taken prior to fall 2010 also accepted for diversity requirement. Formerly MUS 101, Music Appreciation.

MUSC 106 Music Theory I [HP] 5 Credits

Basic musical concepts and terminology through analysis, listening and keyboard practice; part writing, composition; ear training and sight singing. Formerly MUS 106.

MUSC 107 Music Theory II [HP] 5 Credits

Basic musical concepts and terminology through analysis, listening and keyboard practice; part writing, composition; ear training and sight singing. Prerequisite: MUSC 106 or instructor permission. Formerly MUS 107.

MUSC 108 Music Theory III [HP] 5 Credits

Basic musical concepts and terminology through analysis, listening and keyboard practice; part writing, composition; ear training and sight singing. Prerequisite: MUSC 107 or instructor permission. Formerly MUS 108.

MUSC 110 History of American Music [H] 5 Credits

An audiovisual tour of America's truly original music, jazz, from European and West African roots, to the blues of the Mississippi Delta and the birth of jazz in New Orleans, to the music of Louis Armstrong, Duke Ellington, John Coltrane, Wynton Marsalis and many others. Formerly MUS 110.

MUSC 113 Choral Singing I 1 - 3 Credits

Beginning instruction in the techniques of group vocal performance in preparation for the summer musical. Formerly MUS 113.

MUSC 114 Choral Singing II 3 Credits

Intermediate instruction in the techniques of group vocal performance in preparation for the summer musical. Formerly MUS 114.

MUSC 115 Choral Singing III 3 Credits

Advanced instruction in the technique of group vocal performance in preparation for the summer musical. Formerly MUS 115.

MUSC 116 College Voice I [HP] 1 - 2 Credits

Voice training for interested students who can benefit from the study of the fundamentals of singing. Formerly MUS 116.

MUSC 117 College Voice II [HP] 1 - 2 Credits

Voice training for interested students who can benefit from the study of the fundamentals of singing. Formerly MUS 117.

MUSC 118 College Voice III [HP] 1 - 2 Credits

Voice training for interested students who can benefit from the study of the fundamentals of singing. Formerly MUS 118.

MUSC 121 Stage/Pep Band I 2 Credits

Continue musical interest in a band setting. Student must demonstrate reasonable proficiency on a band instrument and ability to participate in a group situation to enroll. Formerly MUS 121.

MUSC 122 Stage/Pep Band II 2 Credits

Continue musical interest in a band setting. Student must demonstrate reasonable proficiency on a band instrument and ability to participate in a group situation to enroll. Formerly MUS 122.

MUSC 123 Stage/Pep Band III 2 Credits

Continue musical interest in a band setting. Student must demonstrate reasonable proficiency on a band instrument and ability to participate in a group situation to enroll. Formerly MUS 123.

MUSC 126 Jazz Combo I [HP] 1 - 3 Credits

Jazz combos give students an opportunity to play jazz in a small group format, concentrating on improvisation in many different styles. The combos perform regularly including concerts and professional engagements. Prerequisite: Instructor permission. Formerly MUS 126.

MUSC 127 Jazz Combo II [HP] 1 - 3 Credits

Jazz combos give students an opportunity to play jazz in a small group format, concentrating on improvisation in many different styles. The combos perform regularly including concerts and professional engagements. Prerequisite: Instructor permission. Formerly MUS 127.

MUSC 128 Jazz Combo III [HP] 1 - 3 Credits

Jazz combos give students an opportunity to play jazz in a small group format, concentrating on improvisation in many different styles. The combos perform regularly including concerts and professional engagements. Prerequisite: Instructor permission. Formerly MUS 128.

MUSC 130 Piano Fundamentals/Blues 1 - 2 Credits

A hands-on approach to America's truly original music, the Blues. Basic piano techniques will be learned in a course piano setting with an emphasis on the improvisatory and universal language of the blues. Formerly MUS 130.

MUSIC

MUSC 131 Applied Music I

1 - 2 Credits

Private music lessons with a college-approved instructor. Two college transfer credits are granted for a one-hour lesson per week, and one credit for a half-hour lesson per week. Appropriate practice hours per lesson required. Formerly MUS 131.

MUSC 132 Applied Music II

1 - 2 Credits

Private music lessons with a college-approved instructor. Two college transfer credits are granted for a one-hour lesson per week, and one credit for a half-hour lesson per week. Appropriate practice hours per lesson required. Formerly MUS 132.

MUSC 133 Applied Music III

1 - 2 Credits

Private music lessons with a college-approved instructor. Two college transfer credits are granted for a one-hour lesson per week, and one credit for a half-hour lesson per week. Appropriate practice hours per lesson required. Formerly MUS 133.

MUSC 141 Walla Walla Symphony/Community Band or Walla Walla Symphony Chorale I

1 Credit

Instrumental or vocal participation in a symphonic organization with rehearsal every Monday evening. Four to five concerts are presented each academic year. Admission to the symphony is open to all who can perform with competency. Formerly MUS 141.

MUSC 142 Walla Walla Symphony/Community Band or Walla Walla Symphony Chorale II

1 Credit

Instrumental or vocal participation in a symphonic organization with rehearsal every Monday evening. Four to five concerts are presented each academic year. Admission to the symphony is open to all who can perform with competency. Formerly MUS 142.

MUSC 143 Walla Walla Symphony/Community Band or Walla Walla Symphony Chorale III

1 Credit

Instrumental or vocal participation in a symphonic organization with rehearsal every Monday evening. Four to five concerts are presented each academic year. Admission to the symphony is open to all who can perform with competency. Formerly MUS 143.

MUSC 144 Theater Orchestra I

1 - 5 Credits

Introduction to the development of specialized instrumental musical skills required to perform in an orchestra accompanying musical theater performances. Formerly MUS 144.

MUSC 145 Theater Orchestra II

1 - 5 Credits

Develops the specialized instrumental musical skills required to perform in an orchestra accompanying musical theater performances. Advanced instruction in performing with an orchestra providing accompaniment for a musical theater performance will be explored. Formerly MUS 145.

MUSC 146 Theater Orchestra III

1 - 5 Credits

Develops the specialized instrumental musical skills required to perform in an orchestra accompanying musical theater performances. Provides advanced instruction in performing with an orchestra providing accompaniment for a musical theater performance. Formerly MUS 146.

MUSC 161 Vocal Ensemble I [HP]

2 Credits

Choral participation providing vocal experience for all interested students who have a background in music and singing. Formerly MUS 161.

MUSC 162 Vocal Ensemble II [HP]

2 Credits

Choral participation providing vocal experience for all interested students who have a background in music and singing. Formerly MUS 162.

MUSC 163 Vocal Ensemble III [HP]

2 Credits

Choral participation providing vocal experience for all interested students who have a background in music and singing. Formerly MUS 163.

MUSC 164 Spanish Chorus [HP]

2 Credits

Learn vocal music in Spanish in a variety of styles drawn from the canon of Latin American song from 1500 to the present. The group will present their repertoire in public performance on the campus and in the community. Formerly MUS 164.

MUSC 206 Music Theory IV [HP]

5 Credits

Basic musical concepts and terminology through analysis, listening and keyboard practice; part writing, composition, ear training and sight singing. Prerequisite: MUSC 108 or instructor permission. Formerly MUS 206.

MUSC 207 Music Theory V [HP]

5 Credits

Basic musical concepts and terminology through analysis, listening and keyboard practice; part writing, composition; ear training and sight singing. Prerequisite: MUSC 206 or instructor permission. Formerly MUS 207.

MUSC 208 Music Theory VI [HP]

5 Credits

Basic musical concepts and terminology through analysis, listening and keyboard practice; part writing, composition; ear training and sight singing. Prerequisite: MUSC 207 or instructor permission. Formerly MUS 208.

MUSC 216 College Voice IV [HP]

1 - 2 Credits

Voice training for interested students who can benefit from the study of the fundamentals of singing. Formerly MUS 216.

MUSC 217 College Voice V [HP]

1 - 2 Credits

Voice training for interested students who can benefit from the study of the fundamentals of singing. Formerly MUS 217.

MUSC 218 College Voice VI [HP]

1 - 2 Credits

Voice training for interested students who can benefit from the study of the fundamentals of singing. Formerly MUS 218.

MUSC 221 Stage/Pep Band IV

2 Credits

Continue musical interest in a band setting. Student must demonstrate reasonable proficiency on a band instrument and ability to participate in a group situation to enroll. Formerly MUS 221.

MUSC 222 Stage/Pep Band V

2 Credits

Continue musical interest in a band setting. Student must demonstrate reasonable proficiency on a band instrument and ability to participate in a group situation to enroll. Formerly MUS 222.

MUSC 223 Stage/Pep Band VI

2 Credits

Continue musical interest in a band setting. Student must demonstrate reasonable proficiency on a band instrument and ability to participate in a group situation to enroll. Formerly MUS 223.

MUSIC – NURSING

MUSC 226 Jazz Combo IV [HP]

1 - 3 Credits

Jazz combos give students an opportunity to play jazz in a small group format, concentrating on improvisation in many different styles. The combos perform regularly including concerts and professional engagements. Prerequisite: Instructor permission. Formerly MUS 226.

MUSC 227 Jazz Combo V [HP]

1 - 3 Credits

Jazz combos provides an opportunity to play jazz in a small group format, concentrating on improvisation in many different styles. The combos perform regularly including concerts and professional engagements. Prerequisite: Instructor permission. Formerly MUS 227.

MUSC 228 Jazz Combo VI [HP]

1 - 3 Credits

Jazz combos provides an opportunity to play jazz in a small group format, concentrating on improvisation in many different styles. The combos perform regularly including concerts and professional engagements. Prerequisite: Instructor permission. Formerly MUS 228.

MUSC 231 Applied Music IV

1 - 2 Credits

Private music lessons with a college-approved instructor. Two college transfer credits are granted for a one-hour lesson per week, and one credit for a half-hour lesson per week. Appropriate practice hours per lesson required. Formerly MUS 231.

MUSC 232 Applied Music V

1 - 2 Credits

Private music lessons with a college-approved instructor. Two college transfer credits are granted for a one-hour lesson per week, and one credit for a half-hour lesson per week. Appropriate practice hours per lesson required. Formerly MUS 232.

MUSC 233 Applied Music VI

1 - 2 Credits

Private music lessons with a college-approved instructor. Two college transfer credits are granted for a one-hour lesson per week, and one credit for a half-hour lesson per week. Appropriate practice hours per lesson required. Formerly MUS 233.

MUSC 241 Walla Walla Symphony/Community Band or Walla Walla Symphony Chorale IV

1 Credit

Instrumental or vocal participation in a symphonic organization with rehearsal every Monday evening. Four to five concerts are presented each academic year. Admission to the symphony is open to all who can perform with competency. Formerly MUS 241.

MUSC 242 Walla Walla Symphony/Community Band or Walla Walla Symphony Chorale V

1 Credit

Instrumental or vocal participation in a symphonic organization with rehearsal every Monday evening. Four to five concerts are presented each academic year. Admission to the symphony is open to all who can perform with competency. Formerly MUS 242.

MUSC 243 Walla Walla Symphony/Community Band or Walla Walla Symphony Chorale VI

1 Credit

Instrumental or vocal participation in a symphonic organization with rehearsal every Monday evening. Four to five concerts are presented each academic year. Admission to the symphony is open to all who can perform with competency. Formerly MUS 243.

MUSC 261 Vocal Ensemble IV [HP]

2 Credits

Choral participation providing vocal experience for all interested students who have a background in music and singing. Formerly MUS 261.

MUSC 262 Vocal Ensemble V [HP]

2 Credits

Choral participation providing vocal experience for all interested students who have a background in music and singing. Formerly MUS 262.

MUSC 263 Vocal Ensemble VI [HP]

2 Credits

Choral participation providing vocal experience for all interested students who have a background in music and singing. Formerly MUS 263.

MUSC 299 Special Projects

1 - 5 Credits

Provides an opportunity for individual and small group vocal or instrumental preparation and performance. Formerly MUS 299.

Nursing

NURS 100 Fundamentals of Nursing

6 Credits

Fundamental principles underlying nursing care are presented. The focus is upon providing care to middle adult and geriatric clients. The concepts of critical thinking, caring, and professional behavior are introduced. Content related to communication, human relationships, health promotion, maintenance, and restoration, medical asepsis, use of the nursing process and medication administration is presented. Prerequisite: Admission to Nursing program. Co-requisite: NURS 110 and 196.

NURS 101 Beginning Nursing Concepts I

6 Credits

A continuation of the principles of nursing care introduced in NURS 100. The focus is on providing care for clients of all ages who are experiencing normal life processes or common/chronic disease processes in selected systems. Prerequisites: NURS 100 and 110. Co-requisite: NURS 111.

NURS 102 Beginning Nursing Concepts II

6 Credits

A continuation of NURS 101. The focus is on providing care to clients of all ages experiencing normal life processes or common/chronic disease processes in selected body systems. Prerequisites: NURS 101 and 111. Co-requisite: NURS 112 and 197.

NURS 103 Practical Nursing

6 Credits

The focus of this course is preparation to complete the NCLEX-PN and enter practice as a PN. Prerequisites: NURS 102 and 112. Co-requisite: NURS 113.

NURS 104 LPN to ADN Transition

6 Credits

The focus of this course is assisting LPNs admitted to the second year of the nursing program to fulfill program requirements. Use of the nursing process, critical thinking, and completion of nursing skills is emphasized. Prerequisites: Admission to second year of Nursing program. Co-requisite NURS 114.

NURS 110 Fundamentals Practicum

4 Credits

An application of theory from NURS 100. The focus is on providing care for older adults in long-term care facilities. Prerequisite: Admission to the Nursing program. Co-requisite: NURS 100.

NURSING - OCCUPATIONAL SUPPORT

NURS 111 Practicum I

4 Credits

An application of theory from NURS 101. The focus is on providing care for clients of all ages in acute care facilities. Prerequisite: NURS 100 and 110. Co-requisite: NURS 101.

NURS 112 Practicum II

4 Credits

An application of theory from NURS 102. The focus is on providing care for clients of all ages in acute care facilities. Prerequisites: NURS 101 and 111. Co-requisite: NURS 102.

NURS 113 Practical Nursing Practicum

6 Credits

An application of theory from NURS 103. The focus is on providing care for clients in acute care and community based settings. An additional focus is on transition to the role of Practical Nurse. Prerequisites: NURS 102 and 112. Co-requisite: NURS 103.

NURS 114 Practicum: LPN to ADN Transition

6 Credits

Focuses on enhancing skills for LPNs entering the second year of the nursing program. Care is provided in acute care facilities and community based settings. Prerequisite: Admission to second year of the Nursing program. Co-requisite: NURS 104.

NURS 196 Professional Development I

1 Credit

Part one of a three-quarter course on professional development. This course is taught fall quarter to beginning nursing students and introduces the profession of nursing. Prerequisite: Admission to the Nursing program. Co-requisite: NURS 100 and 110.

NURS 197 Professional Development II

1 Credit

Part two of a three-quarter course on professional development. This course introduces the student to the legal and ethical responsibilities of the Practical Nurse. Prerequisite: NURS 196. Co-requisite: NURS 102 and 112.

NURS 200 Advanced Nursing Concepts I

7 Credits

A continuation of nursing principles introduced in NURS 102. The focus is on providing care to clients with complex care needs related to disturbances in mental health, disease processes in selected body systems, and managing care for groups of clients. Prerequisites: NURS 102 and 112 or transition applicant. Co-requisite: NURS 210.

NURS 201 Advanced Nursing Concepts II

6 Credits

A continuation of the nursing principles introduced in NURS 200. The focus is on providing care to clients with complex care needs related to obstetrical conditions and disease processes in selected body systems. Prerequisites: NURS 200 and 210. Co-requisite: NURS 211 and 232.

NURS 202 Advanced Nursing Concepts III

7 Credits

Focuses on providing care to clients with complex care needs in intensive care and emergency situations and disease processes in selected body systems. Prerequisites: NURS 201 and 211. Co-requisite: NURS 212.

NURS 210 Practicum III

6 Credits

An application of theory from NURS 200. The focus is on providing care for clients in acute care, psychiatric settings and in the community. Prerequisites: NURS 102 and 112 or transition applicant. Co-requisite: NURS 200.

NURS 211 Practicum IV

6 Credits

An application of theory from NURS 201. The focus is on providing care for clients in acute care, psychiatric settings and in the community. Prerequisites: NURS 200 and 210. Co-requisite: NURS 201 and 232.

NURS 212 Practicum V

6 Credits

An application of theory from NURS 202. The focus is on providing care for clients in acute care, psychiatric settings and in the community. Each student completes a preceptored experience as a transition to practice as a registered nurse. Prerequisites: NURS 201 and 211. Co-requisite: NURS 202.

NURS 232 Professional Development III

1 Credit

Part three of a three-part course on professional development. This course expands on the legal and ethical responsibilities in nursing and prepares the student for the responsibilities of the RN role. Prerequisite: NURS 197. Co-requisite: NURS 201 and 211.

NURS 297 Special Projects

1 - 5 Credits

Project-oriented experiences in the area or applications not provided or covered in the standard nursing curriculum. Prerequisite: Instructor permission, based on evaluation of student's education and work experience.

Nutrition

NUTR& 101 Nutrition [NS]

5 Credits

Study of food nutrients and application to normal health throughout the life cycle, including social-economic, cultural, ethnic, and psychological implications of food. This course does not include a lab. Prerequisite: Appropriate placement score or grade of C or higher in ENGL 087; or permission of the Science Division Chair or designee. Recommended: READ 088; CHEM& 110 or high school chemistry. Formerly NUTR 165, General Nutrition.

Occupational Support

OCSUP 009 Career Development for Life Transitions

1 - 8 Credits

A career development and life planning course that specifically addresses the needs of displaced homemakers and those in similar circumstances with instruction in basic workplace skills, career development, budget/finance, time/stress management, and improving self-esteem. Students focus on career goals as a basis for learning effective strategies to decrease barriers to employment success and self-sufficiency. This course also provides a support group for students during a critical time of transition from the home or unemployment to the workplace. There are no class fees for eligible candidates.

OCSUP 101 Job Psychology: Workplace and Educational Success Skills

3 Credits

Explores how to develop effective workplace relationships and how self-knowledge, perception, attitudes, and behavior affect these relationships and job satisfaction. Students will also learn effective learning skills for workplace and educational success. These learning skills include memory, concentration, time management, textbook reading, and exam preparation. Human relations topics include group dynamics, employee and management roles, and conflict resolution.

OCCUPATIONAL SUPPORT - OFFICE TECHNOLOGY

OCSUP 102 Oral Communication in the Workplace 3 Credits

Emphasizes the development of content and relationship for effective oral communication. Topics include oral communication skills, interpersonal communication skills, effective listening, and intercultural communication.

OCSUP 103 Job Seeking Skills 3 Credits

Provides activities to develop each student into an effective, successful job applicant. Areas studied include labor market analysis, skills identification, applications, resume and letter writing, and interview skills. Students learn what employers look for when hiring a perspective employee, how to make oneself a more competitive job seeker, and how networking and informational interviews result in employment opportunities. Recommended for second year professional-technical students.

OCSUP 106 Applied Mathematics I 5 Credits

Offers review and instruction in whole numbers, decimals, fractions, measurement ratios and proportions, percents, algebra, and geometry. Topics include development and applications of signed numbers, measurement, metric system, formulas and equations, right triangle, trigonometry, graphical representation, and interpretations of data. Prerequisite: Appropriate placement score, or MATH 049.

OCSUP 107 Introduction to Technical Mathematics 4 Credits

Integrated course of algebra, geometry and trigonometry. Focuses on the practical vocational and technical applications of understanding algebra, geometry and trigonometry. Topics will include a study of algebraic properties, functions, equations, graphs, quadratic equations and functions, polynomial functions and rational exponents, exponential and logarithmic functions. Includes a brief review of geometry including angles, lines, triangles, circles, areas and volume and a more in-depth introduction to trigonometry. Trigonometric topics will include right triangles, Pythagorean Theorem, sines, cosines, tangents, vectors, and basic trigonometric functions. Prerequisite: Grade of C- or better in OCSUP 106 or MATH 050, or grade of B+ or higher in MATH 049, or appropriate placement score.

OCSUP 108 Applied Mathematics II 5 Credits

Provides review and instruction of the basic fundamental principles of geometry and trigonometry. Development and applications of measurement of angles, shapes and their properties, areas and volumes of triangles, polygons, cylinders, cones, circles, ellipses, irregular shapes, right triangle, trigonometric functions, and laws of sines and cosines. The emphasis is on combining academics and technical skills with real-life context for learning. Prerequisite: Grade of B+ or better in OCSUP 106 or MATH 065, or grade of C- or better in OCSUP 107 or MATH 095, or appropriate placement score.

OCSUP 299 Principles of Leadership 1 Credit

Encourage students to develop an awareness of their leadership potential and abilities through small group discussions and assumption of leadership roles and responsibilities. Students will acquire information, experience diverse points of view, construct knowledge and practice a variety of interpersonal and social skills, such as communicating, goal-setting, decision-making, team building, and managing stress.

Oceanography

OCEA& 101 Introduction to Oceanography w/ Lab [NS] 5 Credits

Involves the fundamental principles of ocean science; the geography and geology of ocean basin; chemistry of sea water; physical dynamics of currents, waves, and tides; coastal processes; and the biology of diverse ecosystems such as deep sea vents, coral reefs, and estuaries. Lab work required. Prerequisite: Appropriate placement score or grade of C or higher in ENGL 087; or permission of the Science Division Chair or designee. Recommended: READ 088. Formerly OCE 101, Intro to Oceanography.

Office Technology

OT 024 Keyboarding 3 Credits

Introduction to the keyboard for beginning keyboard users or for students wishing to review the keyboard by touch.

OT 025 Keyboard Speed-Building 1 - 5 Credits

Provides opportunity to increase keyboarding speed and accuracy. Course includes assessment and/or correction of technique plus the use of software programs designed to work on individual accuracy and speed weaknesses. Ability to key by touch required to enroll.

OT 115 Medical Transcription I 5 Credits

Fundamental course in transcribing medical documents from sound files using word processing software and foot pedal. Instruction on developing listening skills by applying correct grammar, punctuation, and format to medical documents. Designed specifically for medical majors. Recommended: BUS 136 and OT 125.

OT 116 Medical Transcription II 5 Credits

Advanced course in transcribing medical documents from sound files using word processing software and foot pedal. Students develop skills by learning and applying correct number format, capitalization, punctuation, and abbreviations in the medical documents. Prerequisite: OT 115. Recommended: BUS 136 and OT 125.

OT 117 Executive Transcription I 5 Credits

Fundamental course in transcribing business documents from sound files using word processing software and foot pedal. Instruction on developing listening skills by applying correct grammar, punctuation, and format to medical documents. Designed specifically for medical majors. Recommended: BUS 136 and OT 125.

OT 122 Records Management 5 Credits

Introduction to the rules and procedures common to the organization and maintenance of manual alphabetic, numeric, subject, and geographic filing systems. Filing equipment and business documents are used to provide intensive instruction in filing practices. Students are introduced to the basic operation and maintenance of a computer database.

OFFICE TECHNOLOGY - OUTDOOR POWER EQUIPMENT

OT 125 Introduction to Word Processing

5 Credits

Introduction to word processing taught in conjunction with formatting theory for business documents. Continued development of keyboarding speed and accuracy is provided. Ability to key by touch required to enroll.

OT 126 Intermediate Word Processing

5 Credits

Introduces and develops advanced formatting and word processing functions for the creation of business documents. Continued development of keyboarding speed and accuracy as well as proofreading and editing skills is provided. Prerequisite: OT 125.

OT 127 Word Processing Applications

5 Credits

Uses word processing applications and office suite software to build and reinforce document processing skills and the integration of realistic business practices. Realistic workplace challenges integrating business vocabulary, critical thinking, strategies, and Web research skills are provided. Related learning and success tips for working effectively are included to improve workplace efficiency and professional development. Prerequisite: OT 126 or instructor permission.

OT 161 Practical Accounting

5 Credits

Studies accounting principles and applies bookkeeping procedures that can be applied to a variety of business operations. Emphasis placed on the analysis, journalization and posting of transactions typical of a small office. Students also formulate and interpret financial statements; record adjusting, closing, and reversing entries; reconcile bank statements; manage petty cash; account for bad debt; and perform payroll calculations and entries.

OT 199 Special Topics

1 - 6 Credits

Study and train to meet established local needs in the office technology industry, supplemental to courses currently offered. Prerequisite: Instructor permission.

OT 200 Office Simulation

5 Credits

Bridges the gap between the classroom and business environment by offering practices and procedures typically used in the real world of work. Study and practice of office procedures using current technological tools will be emphasized. Prerequisite: Instructor permission.

OT 218 Desktop Calculator

5 Credits

Develops job competency on desktop calculators using the ten-key touch method and special features of machine to solve common business problems with speed, accuracy, and efficiency.

OT 222 Records Management II

5 Credits

Identifies the principles and practices of effective information management for both manual indexing and automated records systems. Emphasis on advanced features and capabilities of automated database information management systems and the need to understand record life cycle from creation to disposition within the structure of any given organization. This course also addresses the development of security control systems for information management. Prerequisite: OT 122.

OT 228 Legal Terminology

5 Credits

Designed to give students a background in basic legal terminology. The student who successfully completes this course will understand the "language" of legal professions in a contextual application of the terminology.

OT 229 Legal Document Processing

5 Credits

Covers word processing of legal document formatting including the use of legal templates to complete the production of legal documents. Provides a legal procedures background as well as use and understanding of legal terminology.

OT 231 Medical Office Procedures

5 Credits

Explores the flow of information in a medical office. MediSoft, Office Hours, and MS Word software programs are utilized to process information and produce typical medical office documents, financial records, and insurance claims.

OT 232 Medical Insurance Procedures

5 Credits

Understanding of the medical insurance programs in today's healthcare system. Students will apply knowledge learned to abstract information from medical records and complete universal claim forms that meet billing requirements of private, state and federal insurance programs. Communication with insurance companies, tracking reimbursements, and collection methods are covered. Recommended: OT 234.

OT 234 Medical Coding

5 Credits

Fundamental course in assigning medical procedure (CPT), diagnosis (ICD-10-CM) and HCPCS codes for use in insurance billing and medical record keeping. Designed for medical coders, medical assistants, billing specialists and health information professionals. Prerequisite: OT 280. Recommended: READ 088 or higher.

OT 280 Medical Terminology

5 Credits

Learn medical terminology for the medical field. Students study terminology of major body systems in addition to common suffixes, prefixes and word roots.

OT 297 Special Projects

1 - 5 Credits

Project-oriented experiences in the area or applications not covered in the standard office technology curriculum. Prerequisite: Instructor permission, based on evaluation of students' education and work experience.

Outdoor Power Equipment

TST 125 Paints and Painting

3 Credits

Focuses on equipment, materials, techniques, and practices required for painting and conditioning turf equipment.

TST 151 Shop Fundamentals

5 Credits

Instruction in shop performance, management, exercises in safety, hand and machine tool operation, use and maintenance, hardware identification, and other basic shop skills necessary for the successful outdoor power equipment manager.

OUTDOOR POWER EQUIPMENT - PHYS. ED.

TST 154 Basic 4-Stroke Engine Principles 1 - 10 Credits

A comprehensive study of the mechanics of outdoor power equipment, covering use of reference materials, proper maintenance procedures, four-cycle gasoline engine repair and diagnostics necessary for EETC Technician Certification.

TST 155 Basic 2-Stroke Engine Principles 1 - 10 Credits

A comprehensive study of the mechanics of 2-stroke gasoline engine repair and diagnostics used in outdoor power equipment, necessary for EETC Technician Certification.

TST 156 Electrical Principles 1 - 10 Credits

Comprehensive study of electrical systems emphasizing fundamentals, safety, component and system diagnostics and repair, and electro-hydraulic theory used in all Outdoor Power Equipment necessary for EETC technician certification.

TST 157 Hydraulic Principles 1 - 10 Credits

Comprehensive study of hydraulic fundamentals, component repair and diagnostics including hydrostatic transmissions used in outdoor power. Necessary for EETC Technician Certification.

TST 158 Power Trains 1 - 10 Credits

A comprehensive study of power train fundamentals, component repair, and diagnostics including hydrostatic transmissions used in outdoor power from lawn and garden to compact utility equipment. Necessary for EETC Technician Certification.

TST 159 Generator Fundamentals 5 Credits

Comprehensive fundamentals, teardown, troubleshooting, and testing of both brush and brushless generators. Prerequisite: TST 156.

TST 191 Cooperative Work Experience 1 - 12 Credits

Opportunity to work in jobs directly related to the turf equipment industry. This formal training period is agreed upon by the student, employer, and instructor. Prerequisite: Instructor permission.

TST 192 Cooperative Seminar 2 Credits

Students explore issues related to their cooperative work experience focusing on effective workplace relationships and how self-knowledge, perception, attitudes, and behavior affect these relationships and job satisfaction. Students will also learn effective learning skills for workplace and educational success. Co-requisite: TST 191.

TST 199 Special Topics 1 - 5 Credits

Study and train to meet established local needs in the turf equipment industry, supplemental to courses currently offered. Prerequisite: Instructor permission.

TST 255 Compact Diesel Engines 1 - 17 Credits

In-depth study on the theory, operation, service procedures, and troubleshooting necessary to maintain modern compact diesels used in compact tractor, turf equipment, and other commercial equipment.

TST 256 Reels and Mowing Systems 1 - 17 Credits

In-depth study of various reel maintenance practices, reel styles, grinding techniques, rebuilding, and troubleshooting. Study of rotary mowers, their drive systems, spindles, and blade sharpening, used in commercial golf and turf mowers.

TST 297 Special Projects 1 - 18 Credits

Project-oriented experiences in the area or applications not covered in the standard turf equipment curriculum. Prerequisite: Instructor permission, based on evaluation of student's education and work experience.

TST 299 Leadership 1 Credit

Students develop an awareness of their leadership potential and abilities through small group discussions and assumption of leadership roles and responsibilities. Students will acquire information, experience diverse points of view, construct knowledge and practice a variety of interpersonal and social skills, such as communicating, goal-setting, decision-making, team-building, and managing stress.

Philosophy

PHIL& 101 Introduction to Philosophy [H] 5 Credits

Study of the basic ideas in western philosophy. Recommended: READ 088 or higher and ENGL 097. Formerly PHIL 101, Intro to Philosophy I.

PHIL 103 Asian Philosophy [D, H] 5 Credits

The central ideas, metaphors, and images of Hinduism, Buddhism, and Taoism.

PHIL& 106 Introduction to Logic [H, Q] 5 Credits

Introduction to systematic techniques for assessing the validity of arguments: translations, truth tables, propositional calculus, rules of inference, transformation rules, indirect proofs, and abbreviated truth tables. Prerequisite: Grade of C- or higher in MATH 095. Formerly PHIL 220, Symbolic Logic.

PHIL 120 Critical Thinking [H] 5 Credits

Study of the attitudes, skills, and theories involved with critical thinking, including formal and informal logic.

PHIL 131 Introduction to Ethics [H] 5 Credits

Discussion and study of the original writings of classic moral philosophers. Examination of the moral theories of Plato, Aristotle, Epicurus, Epictetus, Mill, Kant, and Nietzsche will be analyzed.

PHIL 200 Honors Seminar 3 Credits

Seminar in current philosophical issues. Prerequisite: Enrolled in the Honors Program or instructor permission.

PHIL 205 Philosophy of Religion [H] 5 Credits

Examines the notions of God through topics which include the existence and nature of God, the problem of evil, issues in religious ethics, and the relationship between faith and reason, including the question of miracles. Recommended: READ 088 or higher and ENGL 097.

Physical Education and Recreation

HPER 103 Cross Training Cardio [PE] 1 Credit

A total body workout combining kickboxing, step, intervals, resistance training, pilates, sports conditioning, dance and just about anything cardio or sculpting. Designed to help cross train your body. Abdominal training included.

PHYSICAL EDUCATION AND RECREATION

HPER 105 Jogging [PE]	1 Credit	HPER 120 Beginning Golf [PE]	1 Credit
Sports activity course emphasizing methods, benefits, and techniques of jogging to encourage fitness, pleasure, and safety.		Provides instruction in the basics of golf in order to develop correct technique from the first swing onward.	
HPER 106 Karate [PE]	1 Credit	HPER 121 Intermediate Golf [PE]	1 Credit
Sports activity course emphasizing the skills and mental discipline of karate.		Skills, rules, and strategies of competitive golf will be covered.	
HPER 107 Tone Zone I [PE]	1 Credit	HPER 122 Weight Training I [PE]	1 Credit
Provides students with an assessment of their physical fitness, and individualized exercise prescription, and an understanding of fitness and health concepts.		Sports activities course emphasizing the safety, techniques, benefits, methods, and practice of weight training.	
HPER 108 Tone Zone II [PE]	1 Credit	HPER 123 Weight Training II [PE]	1 Credit
Provides students with an assessment of their physical fitness, an individualized exercise prescription, and an understanding of fitness and health concepts.		Sports activities course emphasizing the safety, techniques, benefits, methods, and practice of weight training.	
HPER 109 Tone Zone III [PE]	1 Credit	HPER 124 Weight Training III [PE]	1 Credit
Provides students with an assessment of their physical fitness, an individualized exercise prescription, and an understanding of fitness and health concepts.		Sports activities course involving conditioning with various weight devices and involving development of personal goals and conditioning program.	
HPER 110 Speed Training I [PE]	1 Credit	HPER 125 Bowling [PE]	1 Credit
Sports activities course emphasizing speed and agility.		Sports activities course emphasizing the safety, rules, skills, and strategies of bowling.	
HPER 111 Cross Training Cardio II [PE]	1 Credit	HPER 128 Aqua Aerobics [PE]	1 Credit
A total body workout combining kickboxing, step, intervals, resistance training, pilates, sports conditioning, dance and just about anything cardio or sculpting. Designed to help cross train your body. Abdominal training included.		A cardio workout in the pool with less impact on your joints.	
HPER 112 Tone Zone for Corrections & Law Enforcement	1 Credit	HPER 129 Basic Swimming [PE]	1 Credit
Tone Zone for Corrections & Law Enforcement (CLE) - A class designed specifically for those in the CLE program. Students will be expected to meet the same requirements listed in HPER 107, 108 & 109 and are required to pass the Corrections and Law Enforcement Physical Standards Testing. Prerequisite: Instructor permission. For students in their final quarter of completion of the CLE certificate program. Must also complete criminal background check and medical release.		Teaches the basic swimming strokes, water safety skills and proper pre-workout stretching for all swimmers, beginning to advanced.	
HPER 113 Recreational Games [PE]	1 Credit	HPER 130 Lifeguard Training [PE]	1 Credit
Sports activity course emphasizing games for various age and skill groups.		Teaches the skills and knowledge needed to prevent and respond to aquatic emergencies. This course prepares the student to recognize and respond quickly and effectively to emergencies and prevent drownings and injuries. Successful completion of this course results in an American Red Cross Lifeguard Training and CPR for the Professional Rescuer certifications.	
HPER 116 Beginning Tennis [PE]	1 Credit	HPER 131 Skiing/Snowboarding II [PE]	1 Credit
Sports activity course emphasizing rules, skills, and strategies of tennis.		Sports activities course, skiing at Bluewood Recreation Area; students must attend orientation; dates for orientation and skiing to be published in the quarterly schedule. Additional fee required.	
HPER 117 Intermediate Tennis [PE]	1 Credit	HPER 132 Aqua Aerobics II [PE]	1 Credit
Sports activity course emphasizing skills, rules, and strategies of competitive tennis will be covered.		A cardio workout in the pool with less impact on your joints.	
HPER 118 Skiing/Snowboarding I [PE]	1 Credit	HPER 133 Aqua Aerobics III [PE]	1 Credit
Sports activities course at Bluewood Recreation Area, emphasizing safety, equipment, skills, and practice related to snow skiing and snow boarding. Students must attend orientation. Additional fee required.		A cardio workout in the pool with less impact on your joints.	
		HPER 134 Karate II [PE]	1 Credit
		Sports activities course emphasizing the philosophy, safety, rules, skills, techniques, and strategies of competitive karate.	
		HPER 136 Basketball [PE]	1 Credit
		Sports activities course emphasizing the safety, rules, skills, and strategies of basketball.	
		HPER 141 All-Terrain Volleyball [PE]	1 Credit
		Sports activities course emphasizing the safety, rules, techniques, skills, and strategies of volleyball as played on various terrains.	

PHYSICAL EDUCATION AND RECREATION

HPER 144 Walking I [PE]	1 Credit	HPER 171 Basketball Skills and Rules [PE]	2 Credits
Students to learn the proper way to walk to enhance physical fitness and to develop a lifelong skill.		Sports activity course emphasizing skills, rules and strategies of basketball.	
HPER 145 Racquetball I [PE]	1 Credit	HPER 172 Baseball/Softball Skills and Rules [PE]	2 Credits
Sports activities course emphasizing racquetball fundamentals, strategies, and appropriate conditioning.		Sports activity course emphasizing skills, rules and strategies of baseball.	
HPER 146 Racquetball II [PE]	1 Credit	HPER 174 Volleyball Skills and Rules [PE]	2 Credits
Sports activity course emphasizing the safety, rules, skills, strategies, and techniques of playing racquetball competitively.		Sports activity course emphasizing skills, rules and strategies of volleyball.	
HPER 147 Walking II [PE]	1 Credit	HPER 176 Golf Skills and Rules [PE]	2 Credits
Learn the proper way to walk, enhancing and evaluating their own fitness level while developing a lifetime activity.		Sports activity course emphasizing skills, rules and strategies of golf.	
HPER 148 Walking III [PE]	1 Credit	HPER 177 Soccer Skills and Rules [PE]	2 Credits
Learn the proper way to walk, enhancing and evaluating their own fitness level while developing a lifetime activity.		Sports activity course emphasizing the rules, skills, techniques, methods, and strategies of competitive soccer.	
HPER 154 Speed Training II [PE]	1 Credit	HPER 181 Basketball Methods and Materials [PE]	2 Credits
Sports activities course emphasizing speed and agility.		Methods and materials course emphasizing knowledge and ability to apply various methods of play, as well as knowledge of developments and uses for pertinent equipment and materials.	
HPER 155 Speed Training III [PE]	1 Credit	HPER 182 Baseball/Softball Methods and Materials [PE]	2 Credits
Sports activities course emphasizing speed and agility.		Methods and materials course emphasizing knowledge and ability to apply various methods of play, as well as knowledge of developments and uses for pertinent equipment and materials.	
HPER 156 Yoga I [PE]	1 Credit	HPER 184 Volleyball Methods and Materials [PE]	2 Credits
Through this on campus course, techniques and tools of yoga will be taught and learned. Yogic poses and stress management methods will be obtained through the introduction to relaxation exercises of breath work. Understanding the anatomy of the body through the yoga pose will be experienced.		Methods and materials course emphasizing knowledge and ability to apply various methods of play as well as developments and uses for pertinent equipment and materials.	
HPER 157 Yoga II [PE]	1 Credit	HPER 186 Golf Methods and Materials [PE]	2 Credits
Through this on campus course, techniques and tools of yoga will be taught and learned. Yogic poses and stress management methods will be obtained through the introduction to relaxation exercises of breath work. Understanding the anatomy of the body through the yoga pose will be experienced.		Methods and materials course emphasizing knowledge and ability to apply various methods of play as well as developments and uses for pertinent equipment and materials.	
HPER 160 Basic Rodeo Skills and Rules [PE]	2 Credits	HPER 187 Soccer Methods and Materials [PE]	2 Credits
Sports activity course emphasizing skills, rules and strategies of college rodeo.		Overview of several different methods of play and the latest developments in pertinent equipment and materials.	
HPER 161 Intermediate Rodeo Skills and Rules [PE]	2 Credits	HPER 188 Basic Fitness I [PE]	1 Credit
Sports activity course emphasizing skills, rules and strategies of college rodeo.		This fitness course includes three components: workout program, research paper and quizzes, and projects and online discussions. Topics include developing a personalized workout program, nutrition, exercise principles, and general health.	
HPER 162 Advanced Rodeo Skills and Rules [PE]	2 Credits	HPER 189 Basic Fitness II [PE]	1 Credit
Sports activity course emphasizing skills, rules and strategies of college rodeo.		This fitness course includes three components: workout program, research paper and quizzes, and projects and online discussions. Topics include developing a personalized workout program, nutrition, exercise principles, and general health.	
HPER 166 Beginning Yoga I [PE]	1 Credit	HPER 190 Basic Fitness III [PE]	2 Credits
Introduction to the philosophy and practice of the ancient art of Yoga. Learn the basic physical components of Yoga practice as well as the essential written principles of Yoga. Co-requisite: HPER 167.		This fitness course includes three components: workout program, research paper and quizzes, and projects and online discussions. Topics include developing a personalized workout program, nutrition, exercise principles, and general health. Prerequisite: HPER 188 and 189.	
HPER 167 Beginning Yoga II [PE]	1 Credit		
Continues the exploration of the philosophy and practice of the ancient art of Yoga. Students will continue to learn the physical components of Yoga practice as well as the essential written principles of Yoga. Co-requisite: HPER 166.			

PHYSICAL EDUCATION AND RECREATION – PHYSICS

HPER 191 Core Workout [PE]

1 Credit

A beginning dance fitness course. Emphasis will be placed on the center Core of the body, since this is where most athletic skills generate.

HPER 264 Stress Management

3 Credits

Stress is a normal part of life. Some of the most common triggers associated with stress will be discussed. Students will learn techniques to manage these stressors in a healthful way. Both physical and mental coping skills will be explored.

HPER 267 Outdoor Recreation

5 Credits

History, development, principles and trends of organized camping, nature and conservation, and outdoor recreation. Includes several field trips throughout the quarter. This course counts as an elective towards an AA degree, not an activity course.

HPER 268 Diversity in Sports [D]

5 Credits

Examine diversity issues in the sporting world from the 1930's to present day. Topics will include athletes that have overcome social biases such as race, gender, religion and disability in the context of the Olympics, Special Olympics, Paralympics, NCAA and Professional sports. This course counts an elective and diversity credit toward the AA degree, not as an activity course.

HPER 273 Fitness for Life

3 Credits

Students will learn how to develop lifelong training and conditioning programs for themselves. They will learn how the body responds to various training methods and how to apply this to the cardiovascular and muscular systems. This course counts as an elective towards an AA degree, not an activity course.

HPER 274 Personal and Community Health and Hygiene

5 Credits

Designed to present current information to students and enable them to make intelligent decisions concerning their physical, mental, and social well-being. The importance of positive personality and self-image is also stressed as a basis for sound health decisions. This course counts as an ELECTIVE toward an AA degree, NOT as an ACTIVITY COURSE.

HPER 275 Prevention and Care of Athletic Injury

4 Credits

Investigates the proper methods of training and preparation for athletic and recreational activities. Skills in wrapping and taping, as well as treatment of minor injuries, will be developed. Instruction includes both lecture and lab as well as practical experience in the athletic training area. This course counts as an elective towards an AA degree, not an activity course.

HPER 282 Athletic Training Lab

1 Credit

Students spend two hours each week getting hands-on experience working in the WWCC Athletic Training Room. Students will be under the direct supervision of the Head Athletic Trainer. Prerequisite: Co-enrollment or successful completion of HPER 275. This course counts as an elective towards an AA degree, not an activity course.

Physics

PHYS& 100 Physics Non-Science Majors with Lab [NS]

5 Credits

Survey course in physics for the non-science or undecided major. Emphasis on conceptual understanding rather than computation. Topics include motion, forces, the concept of work and energy, physical states of matter, principles of thermodynamics, basic electricity and magnetism, and atomic and nuclear structure. Lab work required. Prerequisites: MATH 065; appropriate placement score or grade of C or higher in ENGL 087; or permission of the Science Division Chair or designee. Recommended: READ 088 or higher. Formerly PHYS 110, Conceptual Physics.

PHYS& 114 General Physics I with Lab [NS]

5 Credits

This is part one of an algebra-based physics sequence intended for non-physical science majors. Topics include linear and rotational motion, forces, kinetic and potential energy, momentum, and translational and rotational equilibrium. Lab work required. Prerequisites: MATH 095; appropriate placement score or grade of C or higher in ENGL 087; or permission of the Science Division Chair or designee. Recommended: READ 088 or higher; basic knowledge of trigonometry. Formerly PHYS 121, College Physics I.

PHYS& 115 General Physics II with Lab [NS]

5 Credits

This is part two of an algebra-based physics sequence intended for non-physical science majors. Topics include mechanical properties of matter, behavior of fluids, harmonic motion and waves, basic thermodynamics, and an introduction to electricity. Lab work required. Prerequisite: PHYS& 115. Formerly PHYS 122, College Physics II.

PHYS& 116 General Physics III with Lab [NS]

5 Credits

This is part three of an algebra-based physics sequence intended for non-physical science majors. Topics include electricity and magnetism, optics, and selected topics in modern physics (relativity, structure of the atom, quantum theory, etc.). Lab work required. Prerequisite: PHYS& 115. Formerly PHYS 123, College Physics III.

PHYS 199 Special Topics

1 - 5 Credits

Opportunity for students to pursue special interests and topics in physics. Requires working with physics faculty to develop a project and to determine the research and presentational methods as well as outcomes to be achieved and assessed.

PHYS& 221 Physics for Science and Engineering I [NS]

5 Credits

This is part one of a calculus-based physics sequence intended for physical science and engineering majors. Topics include linear and rotational motion, forces, kinetic and potential energy, momentum, and translational and rotational equilibrium. Lab work required. Prerequisite: Appropriate placement score or grade of C or higher in ENGL 087; or permission of the Science Division Chair or designee. Recommended: READ 088 or higher. Co-requisite: MATH& 151. Formerly PHYS 201, Physics for Science and Engineering I.

PHYSICS – PROFESSIONAL GOLF MANAGEMENT

PHYS& 222 Engineering Physics II with Lab [NS] 5 Credits

This is part two of a calculus-based physics sequence intended for physical science and engineering majors. Topics include mechanical properties of matter, behavior of fluids, harmonic motion and waves, basic thermodynamics, and an introduction to electricity. Lab work required. Prerequisite: PHYS& 221. Co-requisite: MATH& 152. Formerly PHYS 202, Physics for Science and Engineering II.

PHYS& 223 Engineering Physics III with Lab [NS] 5 Credits

This is part three of a calculus-based physics sequence intended for physical science and engineering majors. Topics include electricity and magnetism, with selected topics from optics and modern physics as time allows. Lab work required. Prerequisite: PHYS& 222. Co-requisite: MATH& 153. Formerly PHYS 222, Physics for Science and Engineering III.

Political Science

POLS 120 The American Presidency [SS] 5 Credits

A historical and analytical examination of the Executive Branch of the United States government. Primary areas of emphasis include: leadership styles of each President, evolutionary changes in the power of the office, and the consequences of each on the country. Recommended: READ 088 or higher. Student may not earn credit for both HIST 120 and POLS 120. Formerly PSCI 120.

POLS 125 Student Leadership I 1 - 2 Credits

Offered to student body officers actively participating in student government. Formerly PSCI 125.

POLS 126 Student Leadership II 1 - 2 Credits

Offered to student body officers actively participating in student government. Formerly PSCI 126.

POLS 127 Student Leadership III 1 - 2 Credits

Offered to student body officers actively participating in student government. Formerly PSCI 127.

POLS& 202 American Government [SS] 5 Credits

Study of the processes and institutions of national politics in America, with special attention to relations between popular political interests and federal government operations. Course provides an understanding of how our national government works in response to legitimate political needs. Content is provided via: lecture, discussion, videos and current supplementary readings. Recommended: READ 088 or higher. Formerly PSCI 101, American National Government.

POLS 204 Constitutional Law [SS] 5 Credits

Examination of the United States Constitution and amendments. Special attention is given to the effects of constitutional principles on civil society and the criminal justice system. Topics include: Historical overview, legal principles, due process, rights & liberties, and practical applications within the criminal justice system. Recommended: READ 088 or higher. Formerly PSCI 204.

POLS 211 U.S. in World Affairs I [SS] 5 Credits

Examination of American involvement in international affairs. Study includes this country's foreign policy actions as a world power, with special attention given to both the policy makers and critics of our nations position on significant international issues from the colonial period to the beginning of the 20th Century. Recommended: READ 088 or higher. Student may not earn credit for both POLS 211 and HIST 211. Formerly PSCI 211.

POLS 212 U.S. in World Affairs II [SS] 5 Credits

Examination of American involvement in international affairs since 1898. Study includes this country's foreign policy actions as a world power, with special attention given to both the policy makers and critics of our nations position on significant international issues from the Spanish-American War to the present. Recommended: READ 088 or higher. Student may not earn credit for both POLS 212 and HIST 212. Formerly PSCI 212.

POLS 215 Honors Seminar: Presidential Indiscretions 2 Credits

An examination of Presidential actions and behaviors that look beyond traditional histories. Students will examine public perceptions and reactions to the actions of those in the office of the President. Formerly PSCI 215.

POLS 222 Agricultural Policy [SS] 5 Credits

Goals, methods, and results of government programs and policies in agriculture. Topics include areas of international trade, domestic farm policy, food safety and quality, resource issues and the effect on agri-business. Recommended: One quarter economics and READ 088 or higher. Student may not earn credit for both POLS 222 and AGRI 222. Formerly PSCI 222.

Professional Golf Management

PGM 101 Golf Management I 5 Credits

Introduction to the golf industry, offering an overview of industry practices, trends and traditions. It also serves as an introduction to fundamental golf shop policies and procedures. Topics include taking tee times and booking lessons, enforcing golf course rules, and controlling pace of play.

PGM 102 Golf Management II 5 Credits

Intermediate golf shop operations and tournament administration will be discussed. Topics include: tournament and league promotion, handicapping and member services, resolving problems with play and developing contingency plans. Golf course design principles are explored and golf course rating formulas introduced.

PGM 111 Introductory Golf Instruction 3 Credits

The fundamentals of golf instruction will be discussed. Topics include the beginning golfer and developing the golf swing. Key instructional terminology is defined, ball flight laws examined and golf swing principles introduced. Basic lesson tee procedures are also covered.

PROFESSIONAL GOLF MANAGEMENT

PGM 112 Intermediate Golf Instruction

3 Credits

The fundamentals of the golf swing and short game techniques of chipping, pitching, putting and bunker play will be covered. Needs of intermediate golfers are addressed. Working with junior golfers and other golfing populations is introduced. Topics include drills and practice routines.

PGM 121 Rules of Golf I

3 Credits

Provides an extensive examination of the Rules of Golf. Topics include use of the Rules book, etiquette and safety, definitions, conforming equipment and player responsibilities. Exact interpretations of Rules questions are detailed in the Decisions book. A brief history of the Rules and changes since prior revision period are also discussed. Prerequisite: Instructor permission.

PGM 131 Golf Car Fleet Management

3 Credits

A study of golf car fleet management is covered. Topics include planning, selection and acquisition of golf cars, fleet storage and organization, safety and liability issues, and rental policies. Also includes basic golf car maintenance, record keeping, and appreciation for the fleet as a financial investment.

PGM 191 Cooperative Work Experience

1 - 18 Credits

Opportunity to work at golf facilities while concurrently enrolled in related golf management courses. Satisfactory completion of a comprehensive workbook is required. Wages for students are commensurate with entry-level employees in the industry. Successful progress in the Professional Golf Management program is expected. Prerequisite: Instructor permission. Co-requisite: PGM 192

PGM 192 Cooperative Seminar

2 Credits

Students explore issues related to their cooperative work experience focusing on effective workplace relationships and how self-knowledge, perception, attitudes, and behavior affect these relationships and job satisfaction. Students will also learn effective learning skills for workplace and educational success. Co-requisite: PGM 191.

PGM 199 Special Topics

1 - 5 Credits

Study and train to meet established local needs in the professional golf management industry, supplemental to courses currently offered. Prerequisite: Instructor permission.

PGM 201 Golf Management III

5 Credits

Golf shop practices are further examined and golf facility operations expanded. Merchandising techniques, practice ranges, special events and developing tournaments are included. Professional shop services and amenities are addressed. Customer service principles and work ethics are emphasized.

PGM 202 Golf Management IV

5 Credits

Advanced instruction in general management, food and beverage concerns, budgeting for private, public and daily fee golf courses. Employment networking techniques are applied. Annual, seasonal, monthly, and weekly calendars and scheduling introduced. Leadership roles and teambuilding exercises are engaged.

PGM 211 Corrective Golf Lessons

3 Credits

Intermediate golfers with swing habits that are counterproductive to effective ball striking are covered. Corrective measures are explored; drills, training aids and practice plans prescribed. The lesson book and promoting lesson programs, as well as characteristics of successful teachers are studied.

PGM 212 Teaching the Advanced Player

2 Credits

Focuses entirely on advanced players of the game. Elements of success used by peak performers and routines employed by leading golf coaches and instructors are examined in depth. Mental toughness, emotional resilience, course management and short game expertise are highlighted. Fitness, strength, flexibility, and nutrition will be addressed. Focal points are the rigors of tournament golf.

PGM 221 Rules of Golf II

2 Credits

Advanced rules cover golf course set up, defining and marking a golf course, duties of rules officials and referees, serving on tournament committees and administering an officiating staff.

PGM 291 Cooperative Work Experience II

1 - 18 Credits

Opportunity to work at golf facilities while concurrently enrolled in related golf management courses. The satisfactory completion of a comprehensive workbook is required. Wages for students are commensurate with entry-level employees in the industry. Successful progress in the Professional Golf Management program is expected. Prerequisite: Instructor permission. Co-requisite: PGM 292

PGM 292 Cooperative Seminar II

2 Credits

Explore issues related to their cooperative work experience focusing on effective workplace relationships and applying leadership skills to promote personal development. Provide professional improvement through techniques such as effective communication, conflict resolution, team building, employee engagement and decision making. Co-requisite: PGM 291.

PGM 297 Special Projects

1 - 18 Credits

Project-oriented experiences in the area or applications not covered in the standard professional golf management curriculum. Prerequisite: Instructor permission, based on evaluation of student's education and work experience.

PGM 299 Leadership

1 Credit

Relevant information on how to establish a productive team and lead a team effectively will be discussed. The student will learn to handle problems with teams as they arise and evaluate a team's productivity. In this course students will also explore how to create a vision, align key allies, use communication skills to help lead, motivate others to keep going, and harness the power of creative conflict. Prerequisite: Instructor permission.

Psychology

PSYC& 100 General Psychology [SS]

5 Credits

Introduction to the factors which influence human behavior and thinking, as well as the complexities of mind and body relationship. The outcome of this course should be a clearer understanding of individual behavior. Critical thinking skills and practical applications are emphasized. Recommended: READ 088 or higher. Formerly PSY 101, Introduction to Psychology.

PSYC 111 Psychology of Relationships [SS]

3 Credits

Personal discovery of the factors that influence interactions including friendships, romantic relationships, work interactions, and family interactions. Skills in personal communication, active listening, feedback, self-disclosure, empathy, assertiveness, and conflict management are developed. Formerly PSY 111.

PSYC 113 Human Sexuality [D, SS]

5 Credits

Study of sexual facts, attitudes, morals, and behavior. Includes conception, contraception, sexually transmitted diseases, abortion, physiological and psychological aspects of sexual response, varieties of sexual behavior, exploration of sexual abuse and victimization, legal issues in sexuality, sexual ethics, and society's influence on sexuality and sex roles. Course for adults—lectures and films may contain explicit language, sciences, nudity, and material. Prerequisite: Appropriate placement score or grade of C or higher in ENGL 097. Recommended: READ 088 or higher. Student may not earn credit for both PSYC 113 and WST 113. Course taken prior to fall 2010 also accepted for diversity requirement. Formerly PSY 113.

PSYC 139 Psychology of Women [SS]

5 Credits

Explore the historical, cultural, and biological development of growing up female. Also examined are the social and psychological perspectives of female identity, traditional and non-traditional roles, values, sexuality, dependency, emotions, physical and mental health issues, and the changing perception of femininity and masculinity. Student may not earn credit for both PSYC 139 and WST 139. Recommended: READ 088 or higher. Formerly PSY 139.

PSYC 140 Career and Life Planning

3 Credits

A systematic approach to planning students' individual career paths based upon their skills, interests, and values as they pertain to work and education. Students will identify appropriate occupations within their career field of choice, learn to research the demands, rewards and employment practices in those occupations and develop plans for achieving their career goals. Resumes and portfolios are produced as part of preparing to conduct an effective job search. Recommended: ENGL 077. Formerly PSY 140.

PSYC 160 Psychology of Criminal Behavior [SS]

5 Credits

Study of maladaptive behavior as formally recognized by the American Psychiatric Association and classified in the Diagnostic Statistical Manual. Special emphasis on sociopathy and related diagnoses most frequently encountered by criminal justice personnel. Also includes an examination of crisis intervention and techniques of brief therapy. Recommended: READ 088 or higher. Formerly PSY 160.

PSYC 196 Psychology of Human Performance

3 Credits

In-depth study of the relationship between the mind and body. Course includes application of psychological theories, research, and intervention strategies to performance enhancements in a variety of settings. Topics include stress and emotional control, attention and concentration, mental rehearsal, memory enhancement, the effects of motivation and personality on performance and effective group communications. Recommended: READ 088 or higher. Formerly PSY 196.

PSYC& 200 Lifespan Psychology [SS]

5 Credits

In-depth study of human development focusing on the biological, cognitive, and psychosocial domains of each of the stages of the life span from birth to death. Recommended: READ 088 or higher. Formerly PSY 103, Developmental Psychology.

PSYC 205 Social Psychology [D, SS]

5 Credits

Study of the influence of the behavior of others on individual behavior and attitudes. Topics include conformity, obedience, aggression, prejudice, persuasion, interpersonal attraction, self-justification, and group processes. Recommended: READ 088 or higher. Course taken prior to fall 2010 also accepted for diversity requirement. Formerly PSY 205.

PSYC 207 Psychology of Personality [SS]

5 Credits

Introduction to the study of personality, including an overview of the major theories, research strategies for measuring aspects of personality, and practical applications to psychological adjustment in daily life. Prerequisite: PSYC& 100, General Psychology. Recommended: READ 088 or higher.

PSYC 219 Health Psychology [SS]

5 Credits

Study of the psychological research and principles in the promotion and maintenance of wellness and health in understanding and preventing disease. Prerequisite: PSYC& 100, General Psychology. Recommended: READ 088 or higher. Formerly PSY 219.

PSYC& 220 Abnormal Psychology [SS]

5 Credits

Study of origins and characteristics of maladaptive behavior with emphasis on scientific research on the causes and treatment approaches to psychopathology. Topics include anxiety disorders, schizophrenia, substance abuse disorders, dissociative disorders, and problems of cognitive function and childhood disorders. Prerequisite: PSYC& 100. Recommended: READ 088 or higher. Formerly PSY 250, Abnormal Psychology.

PSYC 224 Environmental Psychology [SS]

5 Credits

Study of interrelationships between people and the environment. Course will address the theories of environment-behavior relationships and include topics of environmental perception, assessment and cognition; noise, weather, climate, pollution, disasters, personal space and territoriality; planning and design in the work, learning and leisure environments; and changing behavior to save the environment. The course structure will allow the student to apply the theories and concepts of environmental psychology to their particular setting of interest, i.e. work, school, home. Recommended: READ 088 or higher. Formerly PSY 224.

PSYCHOLOGY – SOCIOLOGY

PSYC 225 Psychology of Environmental Problems 2 Credits

Provides opportunity to apply psychological theory and research to environmental problems. Course will focus on how psychological principles may contribute to building a sustainable culture with an applied component which the student will explore interventions to promote an awareness of current environmental difficulties. Recommended: READ 098. Formerly PSY 225.

PSYC 240 Honors Seminar: Explorations in Psychology 2 Credits

Provide students with a chance to examine a specific area of Psychology in depth. The basic concepts of the particular area of study will be covered, in addition to discussion of related current events and specific issues of local, national or global interest. Includes lecture as well as student interaction, and will require critical thinking and consideration of relevant diversity issues. Prerequisite: Students must be enrolled in WWCC Honors Program, or instructor permission.

PSYC 297 Special Problems 1 - 5 Credits

Provides an opportunity to design and implement a research project of interest in psychology under the supervision of an instructor. Prerequisite: Instructor permission. Formerly PSY 297.

Quest Program

Quest is a membership institute for adults 50+ who are eager to design learning opportunities that emphasize academic instructions. The Quest steering committee meets quarterly and suggest class topics that range from classroom instruction to field trips and tours.

Reading

READ 070 Speed Reading 1 Credit

Computerized program to help students improve their reading speed and comprehension. Students learn to train their eyes to see larger groups of words at a glance, keep their eyes moving efficiently as they read, and broaden their field of peripheral vision.

READ 072 Special Topics in Reading I 1 - 5 Credits

Special reading needs are addressed for individual students; the student and instructor determine the area of emphasis. Prerequisite: Instructor permission.

READ 073 Special Topics in Reading II 1 - 5 Credits

Special reading needs are addressed for individual students; the student and instructor determine the area of emphasis. Prerequisite: Instructor permission.

READ 074 Special Topics in Reading III 1 - 5 Credits

Special reading needs are addressed for individual students; the student and instructor determine the area of emphasis. Prerequisite: Instructor permission.

READ 078 Basic Reading Skills 5 Credits

Encourages and supports improvement of basic reading, comprehension, and study skills. Develops an understanding of the reading process and appreciation for the importance of reading both for pleasure and personal growth. Prerequisite: Entrance by placement exam.

READ 082 Special Topics in Reading IV 1 - 5 Credits

Special reading needs are addressed for individual students; the student and instructor determine the area of emphasis. Prerequisite: Instructor permission.

READ 083 Special Topics in Reading V 1 - 5 Credits

Special reading needs are addressed for individual students; the student and instructor determine the area of emphasis. Prerequisite: Instructor permission.

READ 084 Special Topics in Reading VI 1 - 5 Credits

Special reading needs are addressed for individual students; the student and instructor determine the area of emphasis. Prerequisite: Instructor permission.

READ 088 Reading Improvement 5 Credits

Designed to improve how ably students utilize reading strategies to improve their overall comprehension. It reinforces skills in recognizing and using information selectively, increasing critical thinking about reading material, and increasing overall reading speed to better meet college reading demands. Prerequisite: Appropriate placement score or by successful completion of READ 078.

READ 098 College Reading Skills 5 Credits

Designed to build strategies for reading success in the college reader who wants to improve reading speed, comprehension, summary writing, and critical thinking skills. Prerequisite: Appropriate placement score or by successful completion of READ 088.

READ 099 College Reading Skills II 5 Credits

Designed to build self-confidence in the college reader who wants to improve vocabulary, comprehension, and critical thinking skills. This course is taught by lecture, group discussion, and guided practice.

Science

SCI 095 Gateways to Science 5 Credits

Introduction to biology and chemistry with an emphasis on thinking skills and learning strategies to prepare students to succeed in college-level science courses. Lab work required. Prerequisite: Appropriate placement score, grade of C- or higher in MATH 050, or concurrent enrollment in MATH 065; READ 088; or permission of the Science Department.

Sociology

SOC& 101 Introduction to Sociology [D, SS] 5 Credits

Introduces the basic principles of social relationships, collective behavior, and human interaction. These principles are applied to the study of culture; race, gender, and class inequality; deviance; law; social institutions; and social change. Formerly SOC 101, Intro to Sociology.

SOC 107 Human Services Field Experience I 1 - 3 Credits

Provides a supervised experience in a social agency, school, health care facility, youth group, etc. in the local community. This course is part of WWCC's Human Services program. Requires 30 hours per credit. Prerequisite: Instructor permission.

SOCIOLOGY

SOC 108 Human Services Field Experience II 1 - 3 Credits

Provides a supervised experience in a social agency, school, health care facility, youth group, etc. in the local community. This course is part of WWCC's Human Services program. Requires 30 hours per credit. Prerequisite: Instructor permission.

SOC 109 Human Services Field Experience III 1 - 3 Credits

Provides a supervised experience in a social agency, school, health care facility, youth group, etc. in the local community. This course is part of WWCC's Human Services program. Requires 30 hours per credit. Prerequisite: Instructor permission.

SOC 110 Human Services Field Experience IV 1 - 3 Credits

Provides a supervised experience in a social agency, school, health care facility, youth group, etc. in the local community. This course is part of WWCC's Human Services program. Requires 30 hours per credit. Prerequisite: Instructor permission.

SOC 150 Introduction to Social Work [SS] 5 Credits

Introduction to the field of social work including an examination of the knowledge, values, and skills influencing the role of the social worker in a variety of practice settings.

SOC& 201 Social Problems [SS] 5 Credits

Examines a variety of global social problems (conditions or phenomena that adversely affect significant segments of the population) using sociological approaches to understand their complex dynamics. Interprets the effects of rapid globalization, with particular emphasis on impact on the United States. From a global perspective, this course examines war, over population, environmental degradation, poverty and wealth, unequal health care, race and gender inequality, and crime. In addition to examining problems, students explore possible solutions. Formerly SOC 201, Intro to Social Problems.

SOC 204 Drugs and Society [SS] 5 Credits

Introduction to the many and varied drugs, and their related sociocultural history of use and abuse. The physiological and psychological study of symptoms and disease concepts. A review of chemical dependency and the nature of social control as expressed through treatment, rehabilitation, education, family structure, community, and other social responses. Recommended: READ 088 or higher.

SOC 205 Racial and Ethnic Relations [^D, SS] 5 Credits

Focuses on intergroup race and ethnic relations with a social-historical emphasis. Students explore how race and ethnic identities are developed; theoretical perspectives on assimilation and pluralism; prejudice and discrimination; the creation of subordinate groups; and historical and contemporary issues. Problems and possible solutions of majority-minority relations are examined. Course taken prior to fall 2010 also accepted for diversity requirement.

SOC 206 Social Gerontology and the Aging Revolution [^D, SS] 5 Credits

Looks at the effects of the aging population of society, life/health insurance, retirement planning, and resources for the elderly, discussing the individual and group behaviors with respect to health and illness. Examination of medical professionals and their behaviors, with a look at the human behavioral responses

to health, illness and the aging process. The distinction between culture and the process of death, dying and bereavement will be analyzed as it relates to the physical, mental and social changes in people as they age. Emphasis on the aging process itself. Course taken prior to fall 2010 also accepted for diversity requirement.

SOC 208 Sociology of Intimate and Family Relations [^D, SS] 5 Credits

Provides a sociological understanding of the processes involved in family relations, household life and structures, and family problems. Emphasizes historical formations, social influences, and the diversity of families in the United States. Explores myths about family forms and features; the role of gender; divisions of labor within household; historical shifts; family privacy and government interventions; stereotypes; and the effect of social, economic, and political forces on the family. Also addresses the broader issues in the sociology of intimate relations beyond conventional marriages and families. Course taken prior to fall 2010 also accepted for diversity requirement.

SOC 210 Contemporary Social Issues [SS] 5 Credits

Course for curious students who like to delve deeply into hot-topic current issues. The quarterly theme is determined in advance based on the results of recent student polling. Using valid sources and digital resources students explore sociological approaches to understanding diverse perspectives regarding key current issues. Examples of prospective hot topics include immigration policies, sustainability, corporate crime, prison industry, healthcare reform, war, social impact of climate change, globalization, social consequences of demographic changes (e.g. aging population), social movements, or other emerging and current social issues. Typically only one current issue, or perhaps two related ones, is closely examined each quarter. Contact the instructor for specific quarterly theme.

SOC 220 Gender and Society [^D, SS] 5 Credits

Gender is a central feature of social life. Enhances students' recognition of the pervasiveness and complexities of a sex and gender "system," predominately focusing on our own society. Gender is explored on three levels (individual identity, gender roles, and institutional level) to include as a system of social relationships in which gender interacts with, and influences, institutional structures; as what people "do" in social interactions; and as an attribute by individuals for self identification. Student may not earn credit for both SOC 220 and WST 220. Course taken prior to fall 2010 also accepted for diversity requirement. Recommended: READ 088 or higher.

SOC 226 Community Leadership 6 Credits

The Sherwood Trust Community Leadership Program was established by the Ford Institute for Community in 2000, and is funded by the Ford Family Foundation. This structured 60-hour curriculum is offered to citizens in small towns, such as Walla Walla. The objective is to cultivate community leadership skills with individuals from diverse backgrounds, from different economic and social sectors, and of diverse ages. An outcome of this program is for the class to identify a specific community project to be completed by the following winter quarter. This course is available to current participants in the Sherwood Trust Community Leadership Program only.

SOCIOLOGY – TURF MANAGEMENT

SOC 227 Community Leadership Service Project 1 Credit

The Sherwood Trust Community Leadership Program was established by the Ford Institute for Community in 2000, and is funded by the Ford Family Foundation. This 30-hours of community service learning component is the outgrowth of SOC 226. The objective is to cultivate community leadership skills with individuals from diverse backgrounds, from different economic and social sectors, and of diverse ages. An outcome of this program is for the class to identify a specific community project to be completed by the following winter quarter. This course is available to current participants in the Sherwood Trust Community Leadership Program only.

SOC 230 Medical Sociology [SS] 5 Credits

Medical Sociology will look at the relationship and interaction between the biological and social factors of health and illness. Topics covered include correlations within the health care systems, individual well-being, real-perceived illnesses, and the notion of our medicalized body. Social stress, health behaviors, the environment, and the distribution of illnesses in the United States have impacted our health and health care system are examined. Recommended: READ 088 or higher.

Spanish

SPAN& 121 Spanish I [H] 5 Credits

Introductory course for students wishing to learn Spanish as a second language. Provides a foundation for practical interpersonal communications. Topics include pronunciation, basic grammar, reading, writing, and an introduction to Hispanic culture. Formerly SPAN 101, Spanish I.

SPAN& 122 Spanish II [H] 5 Credits

Introductory course for students wishing to learn Spanish as a second language. Provides a foundation for practical interpersonal communications. Topics include pronunciation, basic grammar, reading, writing, and an introduction to Hispanic culture. Prerequisite: SPAN& 121 or instructor permission. Formerly SPAN 102, Spanish II.

SPAN& 123 Spanish III [H] 5 Credits

Introductory course for students wishing to learn Spanish as a second language. Provides a foundation for practical interpersonal communications. Topics include pronunciation, basic grammar, reading, writing, and an introduction to Hispanic culture. To be taken in sequence or with written consent of the instructor. Prerequisite: SPAN& 122 or instructor permission. Formerly SPAN 103, Spanish III.

SPAN& 221 Spanish IV [H] 5 Credits

Intermediate course provides practice in speaking, listening, reading, and writing. Students study grammar, vocabulary, and the use of idiomatic expressions. Prerequisite: SPAN& 123 or instructor permission. Formerly SPAN 201, Spanish IV.

SPAN& 222 Spanish V [H] 5 Credits

Intermediate course provides practice in speaking, listening, reading, and writing. Students study grammar, vocabulary, and the use of idiomatic expressions. Prerequisite: SPAN& 221 or instructor permission. Formerly SPAN 202, Spanish V.

SPAN& 223 Spanish VI [H] 5 Credits

Intermediate course provides practice in speaking, listening, reading, and writing. Students study grammar, vocabulary, and the use of idiomatic expressions. Prerequisite: SPAN& 222 or instructor permission. Formerly SPAN 203, Spanish VI.

SPAN 297 Field Studies 1 - 12 Credits

Flexible field studies for students wishing to expand their knowledge of Spanish through travel and study abroad. Students must consult with instructor before enrolling.

SPAN 298 Independent Studies 1 - 12 Credits

Students expand their knowledge of Spanish through a wide variety of possible directed studies topics. Students must consult with the instructor before enrolling.

Turf Management

TURF 101 Turf Equipment Operations I 3 Credits

The use, operation, and maintenance of turf equipment, including mower units, top dressers, soil aerators, trimmers, and miscellaneous turf equipment are covered. Also provides a practical understanding of costing of equipment. Safety is emphasized.

TURF 102 Turf Equipment Operations II 3 Credits

Continuance of TURF 101, Turf Equipment Operations I. Topics include work experience placement, equipment parts, tractors, replacement schedules, purchasing and leasing equipment, sprayers, and sprayer calibration.

TURF 122 Turf Maintenance Practices 3 Credits

Introduction to the methods used in maintenance of sports fields, parks, school grounds, and golf courses. Prepares students for cooperative work experience and for entry into the turf industry.

TURF 191 Cooperative Work Experience 1 - 25 Credits

Opportunity to work in jobs directly related to the turf management industry. This formal training period is agreed upon by the student, employer, and instructor. Prerequisite: Instructor permission.

TURF 192 Cooperative Seminar 2 Credits

Students explore issues related to their cooperative work experience focusing on effective workplace relationships and how self-knowledge, perception, attitudes, and behavior affect these relationships and job satisfaction. Students will also learn effective learning skills for workplace and educational success. Co-requisite: TURF 191.

TURF 199 Special Topics 1 - 10 Credits

Study and train to meet established local needs in the turf management industry, supplemental to courses currently offered. Prerequisite: Instructor permission.

TURF MANAGEMENT – WATER MANAGEMENT

TURF 201 Turf Physiology

6 Credits

Introduction to turf grass science. Topics include turf grass physiology, plant physiology, turf grass identification, turf grass uses, cultivars, selection of grasses, turf fertilization and fertilizer selection, water needs of the grass plant and irrigation, future trends, and waste disposal methods.

TURF 211 Turf Management

5 Credits

Focuses on the fundamentals of turf management, operation, and performance in areas of budgeting, supervision, and communication skills. Topics include assessment of field conditions, weather monitoring, and specialty turf management techniques.

TURF 215 Turf Diseases and Insects

3 Credits

Introduction to identification, study of life cycles, and control of insects and diseases common to turf. Concentrates on fundamentals of entomology and plant pathology as well as specific problems and their controls on turf.

TURF 221 Landscape Maintenance and Construction

5 Credits

Maintenance and construction of landscapes that include turf, flowers, shrubs, trees, fencing, and hard surfaces.

TURF 231 Pesticide Licensing

3 Credits

Preparation for the State of Washington pesticide licensing exam.

TURF 252 Turf Equipment Maintenance and Repair

3 Credits

Gas and diesel engines, electrical, power trains, and hydraulics to perform simple tune-up and repairs will be covered.

TURF 291 Cooperative Work Experience II

1 - 25 Credits

Opportunity to work in jobs directly related to the turf management industry. This formal training period is agreed upon by the student, employer, and instructor. Prerequisite: Instructor permission.

TURF 292 Cooperative Seminar II

2 Credits

Explore issues related to their cooperative work experience focusing on effective workplace relationships and applying leadership skills to promote personal development. Provide professional improvement through techniques such as effective communication, conflict resolution, team building, employee engagement and decision making. Co-requisite: TURF 291.

TURF 297 Special Projects

1 - 18 Credits

Project-oriented experiences in the area or applications not covered in the standard turf management curriculum. Prerequisite: Instructor permission, based on evaluation of student's education and work experience.

Water Management

WMGT 100 Orientation to Irrigation

3 Credits

Introduction to the fields of agriculture, turf, and landscape irrigation. Sprinkler and micro/drip irrigation systems, tools, equipment, and water issues will be covered.

WMGT 110 Lawn and Turf Irrigation

3 Credits

Study of the design and installation of lawn and turf irrigation systems. Site evaluation, valve and sprinkler selection, system design, controllers, and installation procedures will be covered.

WMGT 112 Irrigation Principles

5 Credits

Overview of the elements of irrigation and its industry. Topics include irrigation methods, efficiencies, equipment, and their relationships to soils and plants.

WMGT 135 Cultures of Water

5 Credits

Explore the history of the Pacific Northwest relationship between people and water. Topics include different cultural views of water, from tribal, agricultural, municipal, recreational and transportation entities. State and Federal environmental policies affecting water will be analyzed. The evolution of Native American culture and the effects of water on the culture will also be examined.

WMGT 139 Watershed Management

5 Credits

The hydrologic cycle and the influences of land management techniques and policies on water quality, quantity and timing will be analyzed. Emphasis on the management practices of upland and riparian areas. Topics include the assessment of areas and the development of protection and restoration plans.

WMGT 141 Irrigation Troubleshooting

7 Credits

Train individuals to troubleshoot irrigation system problems with an emphasis on center pivots and analysis of mechanical, electrical, and hydraulic systems.

WMGT 142 Center Pivot Troubleshooting

4 Credits

Train individuals to troubleshoot irrigation system problems with an emphasis on center pivots and analysis of mechanical, electrical, and hydraulic systems.

WMGT 143 Turf and Landscape Troubleshooting

3 Credits

Focus on troubleshooting irrigation systems, with an emphasis on turf and landscape areas. Mechanical, electrical and hydraulic systems will be analyzed.

WMGT 191 Cooperative Work Experience

1 - 25 Credits

Opportunity to work in jobs directly related to the water management industry. This formal training period is agreed upon by the student, employer, and instructor. Prerequisite: Instructor permission.

WMGT 192 Cooperative Seminar

2 Credits

Students explore issues related to their cooperative work experience focusing on effective workplace relationships and how self-knowledge, perception, attitudes, and behavior affect these relationships and job satisfaction. Students will also learn effective learning skills for workplace and educational success. Co-requisite: WMGT 191.

WMGT 199 Special Topics

1 - 10 Credits

Study and train to meet established local needs in the water management industry, supplemental to courses currently offered. Prerequisite: Instructor permission.

WMGT 204 Water Policy

5 Credits

The study of water policy and law as it relates to state and federal issues. Topics include Water Rights, Western Water Law, and state and federal policy. The effect of ESA listings with regards to water policy will also be analyzed.

WATER MANAGEMENT – WELDING TECHNOLOGY

WMGT 220 Drip Irrigation

3 Credits

Introduction to drip irrigation concepts, methods, and components. Basic drip system maintenance, troubleshooting, and design are performed.

WMGT 221 Pump Applications

3 Credits

Pump classes and types, selection, and application will be analyzed. Topics include pump curves, system curves, suction characteristics, piping systems, and pump panel electrical wiring.

WMGT 225 Irrigation Design

6 Credits

Development of total hydraulic, electrical, and mechanical irrigation design of agriculture and turf systems are analyzed. Pumps, piping, valves, and sprinkler types are selected and made into complete designs.

WMGT 230 Water and Energy Conservation

3 Credits

Analysis of the techniques used in the irrigation industry to reduce water and/or energy consumption. Water application methods and low-pressure systems are targeted.

WMGT 241 Advanced Irrigation Systems

5 Credits

Implementation of previously learned irrigation skills. Practice in troubleshooting techniques, equipment installation, operation and maintenance, and management skills.

WMGT 291 Cooperative Work Experience II

1 - 25 Credits

Offers students an opportunity to work in jobs directly related to the water management industry. This formal training period is agreed upon by the student, employer, and instructor. Prerequisite: Instructor permission.

WMGT 292 Cooperative Seminar II

2 Credits

Explore issues related to their cooperative work experience focusing on effective workplace relationships and applying leadership skills to promote personal development. Provide professional improvement through techniques such as effective communication, conflict resolution, team building, employee engagement and decision making. Co-requisite: WMGT 291.

WMGT 297 Special Projects

1 - 18 Credits

Project-oriented experiences in the area or applications not covered in the standard water management curriculum. Prerequisite: Instructor permission, based on evaluation of student's education and work experience.

WMGT 299 Leadership

1 Credit

Encourage students to develop awareness of their leadership potential and abilities through small group discussions and assumption of leadership roles and responsibilities. Students will acquire information, experience diverse points of view, construct knowledge and practice a variety of interpersonal and social skills, such as communicating, goal-setting, decision-making, team-building, and managing stress.

Watershed Ecology

NR 190 Water Quality and Environmental Chemistry

5 Credits

Introductory chemistry course for non science majors. The lectures will focus on the basic chemistry concepts and the development of green chemistry philosophies and practices. Lab sections will focus on water quality analysis methods and reporting.

NR 200 Field Botany

5 Credits

Focus on the plant identification and restoration process. This information will be used in watershed assessment and restoration activities. Laboratory and field work provide opportunities to use dichotomous keys and learn the local flora. Students will be required to create a journal that depicts the distribution, identification, life history, and cultural significance of plants in eastern Washington/Oregon to be used as a resource for watershed restoration. Students will also work on oral communication and speech skills through a series of plant-based presentations and a group restoration plan presentation. Students will also work on oral communication and speech skills through a series of plant-based presentations and a group restoration plan presentation.

NR 220 Methods in Fish Biology

5 Credits

Discuss the basic physiological, anatomical, and behavioral characteristics of a variety of fish species. Focus on theoretical aspects of physiology, phylogeny, ecology. Hands on lab experience with fish taxonomy, anatomy and research methods. Collegiate reading skills, technical vocabulary, and vocational writing in standard technical formats will be studied and practiced.

NR 239 Watershed Processes and Restoration

5 Credits

Explores the physical and biological components of streams and watersheds. Topics discussed focus on watershed characteristics and the potential impacts of such on stream characterization and the living components associated with habitats.

Welding Technology

WELD 141 Welding Basics

4 Credits

Opportunity to select customized welding process instruction for application training, industry practices, hobby uses, or skill development to meet employer/employment requirements.

WELD 151 Shielded Metal Arc Welding I

1 - 17 Credits

Entry-level student training in safe practices of fuel gas cutting/welding and shielded metal arc welding. Topics include equipment operation, industry practices, arc welding fundamentals, material preparation methods, basic electricity, metals and electrodes, shop work ethics, and print reading/layout procedures. Prerequisite: Instructor permission.

WELD 152 Shielded Metal Arc Welding II

1 - 17 Credits

Training in safe and proper SMAW arc welding procedures and techniques will be covered, including arc welding equipment setup, E-6010 and E-7018 electrode practice, shop work practice, demonstrations, and classroom presentations. Prerequisite: WELD 151 or instructor permission.

WELDING TECHNOLOGY – WOMEN'S STUDIES

WELD 153 Shielded Metal Arc Welding III 1 - 17 Credits

Additional experience and training in safe SMAW welding procedures and the opportunity to complete AWS/WABO certification tests. Prerequisite: WELD 152 or instructor permission.

WELD 191 Cooperative Work Experience 1 - 15 Credits

Opportunity to work in jobs directly related to the welding industry. This formal training period is agreed upon by the student, employer, and instructor. Prerequisite: Instructor permission.

WELD 192 Cooperative Seminar 2 Credits

Students explore issues related to their cooperative work experience focusing on effective workplace relationships and how self-knowledge, perception, attitudes, and behavior affect these relationships and job satisfaction. Students will also learn effective learning skills for workplace and educational success. Co-requisite: WELD 191.

WELD 196 Welding Skill Development I 1 - 17 Credits

Provides variable lab times and credits to meet individual requirements. A contract is developed with instructor to meet the students' needs. Grades and credits are assigned according to contract specifications and student accomplishments. Prerequisite: Instructor permission.

WELD 199 Special Topics 1 - 10 Credits

Study and train to meet established local needs in the welding industry, supplemental to courses currently offered. Prerequisite: Instructor permission.

WELD 254 Shielded Metal Arc - Pipe 1 - 17 Credits

Focus is on industry practices involving pipe welding and welder certification. Topics include welding procedures, specifications, preparation of test samples, testing, and acceptance standards. Prerequisite: WELD 153 or instructor permission.

WELD 255 Gas Tungsten Arc Welding 1 - 17 Credits

Explores Gas Tungsten Arc Welding (GTAW) processes on ferrous and nonferrous materials. Topics include safe and proper GTAW equipment setup requirements, process variables, material requirements, and welding procedures.

WELD 256 Gas Metal Arc Welding 1 - 17 Credits

Provides Gas Metal Arc Welding (GMAW) and Flux Cored Arc Welding (FCAW) experience on ferrous and nonferrous alloys. Topics include welding equipment setup and safety procedures, welding practices and procedures for various applications, and equipment maintenance procedures.

WELD 265 Gas Tungsten Arc Welding 14 Credits

Gas Tungsten Arc Welding (GTAW) process on ferrous and nonferrous materials are covered. Topics include safe and proper GTAW equipment setup requirements, process variables, material requirements, and welding procedures.

WELD 266 Gas Metal Arc Welding 14 Credits

Explores Gas Metal Arc Welding (GMAW) experience on ferrous and nonferrous alloys. Topics include welding equipment setup and safety procedures, welding practices and procedures for various applications, and equipment maintenance procedures.

WELD 296 Welding Skill Development II 1 - 17 Credits

Continuance of WELD 196, designed to provide students variable lab time and credits to meet individual requirements. A contract is developed with instructor to meet the student's needs. Grades and credits are assigned according to contract specifications and student accomplishments. Prerequisite: Instructor permission.

WELD 297 Special Projects 1 - 17 Credits

Project-oriented experiences in the area or applications not covered in the standard welding curriculum. Prerequisite: Instructor permission, based on evaluation of student's education and work experience.

WELD 299 Leadership 1 Credit

Encourage students to develop awareness of their leadership potential and abilities through small group discussions and assumption of leadership roles and responsibilities. Students will acquire information, experience diverse points of view, construct knowledge and practice a variety of interpersonal and social skills, such as communicating, goal-setting, decision-making, team-building, and managing stress. Students must complete at least two of the welding skill tests per AWS/WABO standards. Prerequisite: Must be enrolled in last quarter of AAAS Welding degree.

Women's Studies

WST 113 Human Sexuality [^D, SS] 5 Credits

Study of sexual facts, attitudes, morals, and behavior. Includes conception, contraception, sexually transmitted diseases, abortion, physiological and psychological aspects of sexual response, varieties of sexual behavior, exploration of sexual abuse and victimization, legal issues in sexuality, sexual ethics, and society's influence on sexuality and sex roles. Course for adults--lectures and films may contain explicit language, sciences, nudity, and material. Prerequisite: Appropriate placement score or grade of C or higher in ENGL 097. Recommended: READ 088 or higher. Student may not earn credit for both WST 113 and PSYC 113. Course taken prior to fall 2010 also accepted for diversity requirement.

WST 121 Biology of Women [NS] 3 Credits

Designed to examine biological issues related to the distinctive anatomical and physiological characteristics and qualities of women. This course does not include a lab. Prerequisite: Appropriate placement score or grade of C or higher in ENGL 087; or permission of the Science Division Chair or designee. Recommended: READ 088. Student may not earn credit for both WST 121 and BIOL 121.

WST 124 Women Artists in History [^D, H] 5 Credits

Focuses on the unique artistic contributions of women artists through history from the middle ages to present. Includes emphasis in issues of social justice, cultural expectations and institutional obstacles. Student may not earn credit for both WST 124 and ART 124. Recommended: READ 088 or higher. [H] [D^]

WOMEN'S STUDIES – WRITING

WST 139 Psychology of Women [SS]

5 Credits

Explore the historical, cultural, and biological development of growing up female. Also examined are the social and psychological perspectives of female identity, traditional and non-traditional roles, values, sexuality and orientation, dependency, emotions, physical and mental health issues, victimization and the changing perception of femininity and masculinity. Student may not earn credit for both PSYC 139 and WST 139. Recommended: READ 088 or higher. Formerly PSY 139.

WST 200 Introduction to Womens Studies [^D, SS]

5 Credits

Analysis of the construction and enforcement of gender differences and inequalities, studied from a multidisciplinary and multicultural perspective. Emphasis on the intersection of ethnicity, nationality, class, and gender in women's lives, and how these intersecting constructs impact women's past, present, and future contributions. Course taken prior to fall 2010 also accepted for diversity requirement. Recommended: READ 088 or higher.

WST 215 Women in U.S. History [^D, SS]

5 Credits

Survey of the significant contributions of women to the growth and development of the United States from the early Native American societies to the present. Examine pioneering individuals and organizations, relevant legal, social, moral, political, economic, and religious issues concerning women in American society. Student may not earn credit for both WST 215 and HIST& 215. Course taken prior to fall 2010 also accepted for diversity requirement. Recommended: READ 088 or higher. Formerly WST 280.

WST 220 Gender and Society [^D, SS]

5 Credits

Gender is a central feature of social life. Enhances students' recognition of the pervasiveness and complexities of a sex and gender "system," predominately focusing on our own society. Gender is explored on three levels (individual identity, gender roles, and institutional level) to include as a system of social relationships in which gender interacts with and influences institutional structures; as what people "do" in social interactions; and as an attribute by individuals for self. Student may not earn credit for both WST 220 and SOC 220. Course taken prior to fall 2010 also accepted for diversity requirement. Recommended: READ 088 or higher.

WST 251 Voices of Women in Literature [^D, H]

5 Credits

Survey of selected women writers across time and cultures with a focus on women as authors and characters. Considers how gender may affect perspectives on such basic ideas as home, work, community, strength, power, courage, empathy and many others. Time period covered ranges from the 18th to the 21st century. Student may not earn credit for both WST 251 and ENGL 251. Recommended: READ 088 or higher.

Writing

WRITE 100 Applied Writing

3 Credits

Provides writing skills useful in the career market. Assignments include memos, letters, and short reports. Students will acquire basic computer skills, and will learn to proofread and edit their own texts. Prerequisite: Appropriate placement score.

Faculty Staff
and
Administration

FACULTY, STAFF AND ADMINISTRATORS

Abell, Shaun

Instruction and Classroom Support Technician 1, Carpentry - Washington State Penitentiary

Adams, Jeffrey

Instructor, Spanish

B.A., Eastern Oregon University; M.A., University of Washington

Adams, Michael D

Instructor, Auto Repair Technology

A.A.S., Wyoming Technical Institute

Adamski, Kathleen M

Dean, Health Sciences Education

B.S.N., Western Washington University; M.N., University of Washington

Anderson, Brad

Information Technology Specialist 2, Technology Services

A.A.S., Walla Walla Community College

Anderson, Brenda

Instructor, Nursing

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A.A., A.A.S., Columbia Basin College; B.A., Washington State University; M.Ed., Heritage College; D.M., University of Phoenix

Shevchenko, Ivan

Automotive Mechanic Trainee

Shively, Michael J.

Instructor, Mathematics - Clarkston Campus Campus

Shoemaker, Stephen

Instructor, Biological Sciences

B.S., University of Puget Sound; M.S., D.A., Idaho State University

Simmelink-Johnson, Staci

Instructor, Psychology

B.A., Whitman College; M.S., Ph.D., Colorado State University

Simon, Thomas

Instructor, Music/Director, Jazz and Pep Bands

B.A., University of Washington; M.A., University of Michigan

Skorina, Frank

Instructor, Engineering/Physics

B.S.M.E., M.S., Union College, New York; M.S., Columbia University

Small, Joe

Dean, Corrections Education - Washington State Penitentiary and Coyote

Ridge Corrections Center

B.S., Washington State University; M.S., Ed.D., University of Idaho

Smith, Kathryn

Program Assistant - Clarkston Campus

Smith, Shana

Instructor, Mathematics

M.A., DePaul University

Snell, Janet

Fiscal Analyst 3, Business Services

Snider, Darlene

Director, Transitional Studies

B.S., Trinity Western University; M.A.T., School for International Training

Stanger, LaKatherine E

Office Assistant 2, Agriculture Center of Excellence

A.A.A.S., Walla Walla Community College

Staudenmaier, Michael

Athletic Facilities Coordinator/Athletic Trainer/Women's Softball Coach/

Instructor, Physical Education and Recreation

A.A., Walla Walla Community College; B.A., Whitworth College

Stevenson-Mc Clure, Cindy

Instructor, Psychology

B.A., Whitman College; M.A., City University

Storey, Joann

Instruction & Classroom Support Technician 2 - Clarkston Campus

B.S.; B.S.N., Lewis-Clark State College

Storms, Bill

Director, Technology Services

A.A., Centrailia College; B.A., Eastern Washington University

FACULTY, STAFF AND ADMINISTRATORS

Sullivan, Deanna

Office Assistant 1, Health Sciences Education - Clarkston Campus

Swan-Froese, Danielle

Administrative Assistant to the Vice President of Instruction-Workforce Education

B.S., Oregon State University

Taylor, Jennifer

Library and Archives Paraprofessional 2, Library Services

A.A.A.S., Walla Walla Community College

Taylor, Loretta

Director, Corrections Education - Coyote Ridge Correction Center

B.A., Washington State University; M.A., University of Phoenix

Thiessen, Dan R

Director/Instructor, Culinary Arts Program

A.O.S., Culinary Institute of America

Thorne, Brian

Custodian 4, Facility Services

A.S., Modesto Junior College

Toelke, Lana

Instruction & Classroom Support Technician 2, Health Sciences Education

B.S.N., Pacific Union College; M.N., Washington State University

Toon, Timothy

Instructor, Health, Physical Education and Recreation/Academic Recruiter/
Head Volleyball Coach

B.S., Brigham Young University, Hawaii; M.Ed., Stephen F. Austin State University

Trick, Terri

Instructor, Basic Skills

B.A., University of Utah; M.Ed., Washington State University

Van Cleave, Kent

Office Assistant 3, Information Center

Van Dyke, Peter

Instructor, Biological Sciences

Van Slyke, John R

Instructor, History

B.S., University of Wisconsin; M.S., University of Montana

VanAusdler, Steven

President

B.S., M.S., Washington State University; Ph.D., The Ohio State University

Velazquez, Jose

Custodian 1, Facility Services

A.A.A.S., A.A.A.S., Walla Walla Community College

Velluzzi, Nicholas

Director, Institutional Planning and Assessment

B.A., M.A., Ph.D., University of Washington

Villagomez, Fernando

Career and Technical Education Advisor, Career and Employment Services Center

A.A., Walla Walla Community College; B.A., Washington State University

Vorhauer, Stephen

Instructor, Welding Technology - Coyote Ridge Correction Center

A.A.A.S., Walla Walla Community College

Walk, David

Manager, Advertising and Media Services

Waltner, David

Maintenance Mechanic 2, Facility Services

B.A., Northern Nazarene College

Warnberg, Sigurd

Grounds and Nursery Services Specialist 2, Facility Services

A.A.A.S., Walla Walla Community College

Weber, Max

Special Retention Programs Advisor/Outreach Specialist, Student Services

A.A., Walla Walla Community College; B.A., Whitman College

Weigand, Tessa

Student Funding Advisor, Career and Employment Services Center

B.A., Washington State University

Wellington-Baker, Kristi

Director, Retention Services, Career and Employment Services Center

A.A., Walla Walla Community College; B.A., Eastern Washington University;

M.S.W., Walla Walla University

White, Amy J

Retail Clerk Lead, Bookstore

Whittenberg, Mary

Secretary Supervisor - Clarkston Campus

Wilde, Michelle

Fiscal Technician 2, Business Services

Williams, Jana Lu

Faculty Librarian, Library Services

B.S., Willamette University; M.L.I.S., University of Washington

Williams, Matthew W

Instructor, Agriculture/Plant Soil Science

A.A., Walla Walla Community College; B.S., M.S., Washington State University

Williams, Wanda

Program Coordinator, Center for Enology and Viticulture

A.A., Walla Walla Community College

Willis, Sue

Director of Budget & Finance, Business Services

B.A., Walla Walla University

Winnett, Wallace

Director, John Deere Agricultural Program

A.A.A.S., Walla Walla Community College

Withers, Laurie

Program Manager, Early Childhood and Educational Support Program

B.S., Arizona State University

Worley, Jeanne R

Office Assistant 2, Corrections Education - Washington State Penitentiary

You, Nanqi

Instructor, Computer Technology

B.A., Xian Foreign Languages University; M.A., M.S., Northern Illinois University

Young, Donna

Secretary Senior, Workforce Education

Zabor, Dave

Information Technology Specialist 2, Technology Services

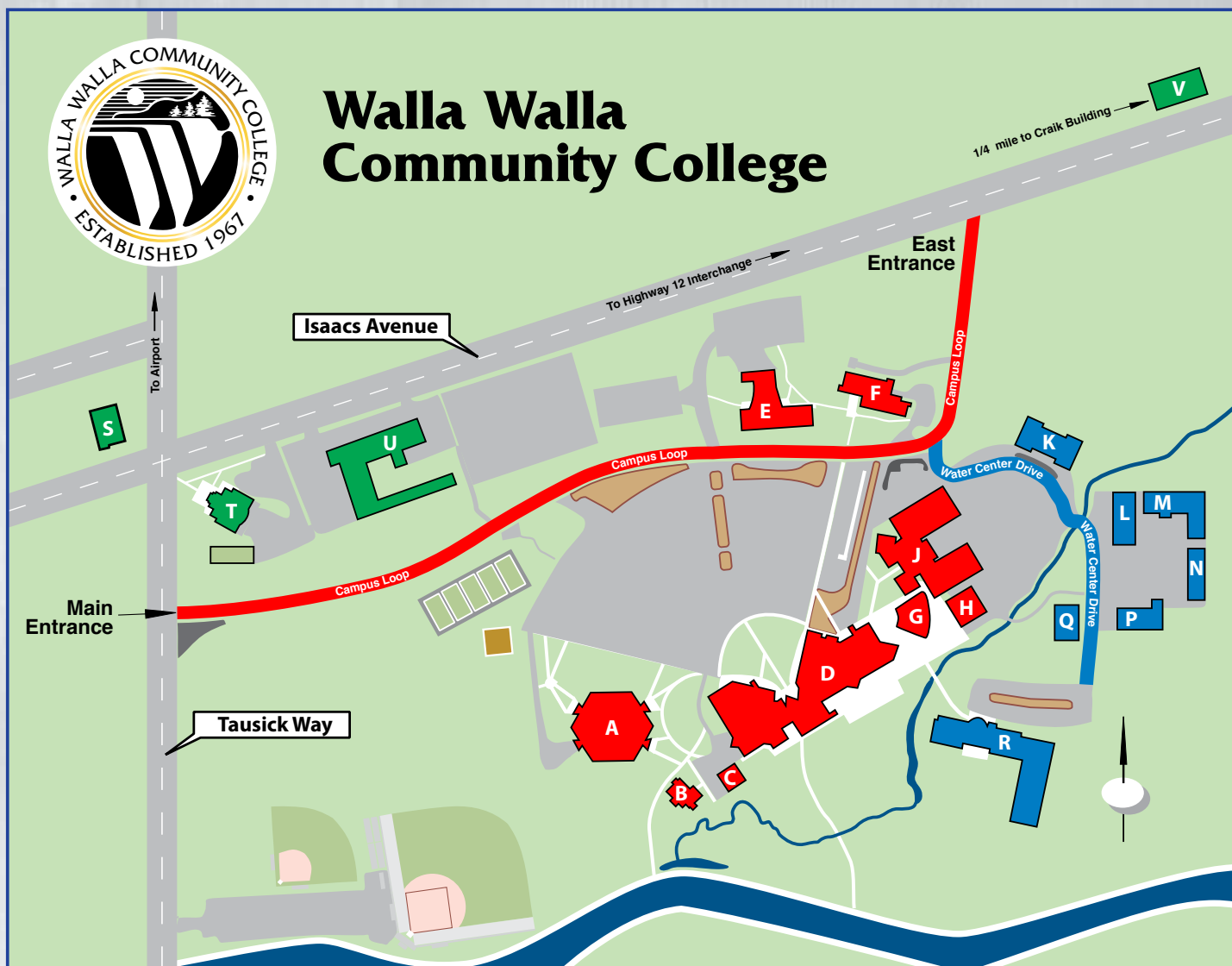
A.A., A.A.A.S., Walla Walla Community College

Zaragoza, Rosaura

Office Assistant 3, Transitional Studies

Campus Maps

Walla Walla Campus Map



Campus Loop Buildings

- A** – Dietrich Activity Center
- B** – Parent Child Center
- C** – Women's Center
- D** – Main Building
- E** – Health Science & Performing Arts
- F** – Technology Center
- G** – China Pavilion
- H** – Facilities
- J** – Professional Technical Building

Water Center Drive Buildings

- K** – First Flight Child Care
- L** – Diesel Mechanics
- M** – Diesel Mechanics
- N** – Farrier/Grounds Maintenance
- P** – John Deere Training Center
- Q** – Greenhouse
- R** – Water & Environmental Center

E. Isaacs Buildings

- S** – Pottery Building (2933 E. Isaacs)
- T** – Center for Enology & Viticulture (3020 E. Isaacs)
- U** – Automotive Technology Center (3060 E. Isaacs)
- V** – Craik Building (37 Interchange Rd.)

Clarkston Campus Maps

1470 Bridge Street • Clarkston WA 99403 • www.wwcc.edu

509.758.3339 •

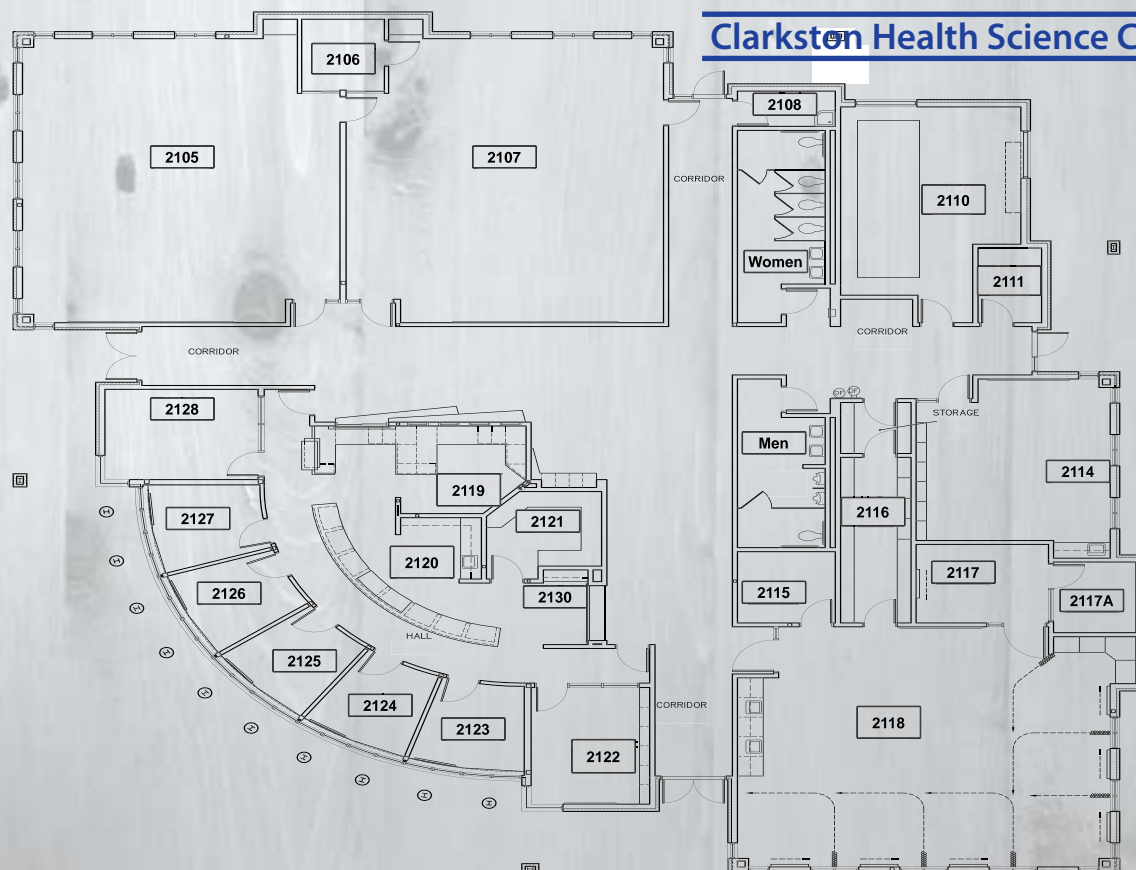
877.992.9922 • 509.758.1725 fax •

509.527.4412 TDD

Clarkston Center Main Building



Clarkston Health Science Center



For the most current information see: www.wwcc.edu

Clarkston Map Legend

Administration

- 170 Janet Danley, Director of Clarkston Campus
175 Business /Admissions Office
Mary Whittenberg, Office Manager/Secretary Supervisor
Katie Schultz, Admissions/Bookstore
Frances LeBret, Admissions/Cashiering

Student Services

- 113 Carol Bennett, Coordinator
114 ASB Office
115 Heather Markwalter, TRIO Counselor
116 Chad Miltenberger, Vocational Counselor
Shelly Bush, Financial Aid

Upper Level

- LCV/Literacy Council-- Darlene Larson
222 Library-- Jackson Vance
201 ITV Room
Math/Science/Writing Learning Lab

Campus Offices

- 111 Kate Smith, Worksource/WorkFirst
119 Lisa Greenville, Computer Technology
124 Linda Lane, Business Technology

- 126a Adjunct/Office Technology
126b Adjunct Instructors
126c Devon Gustafson, Psychology
126C Amanda Gustafson, IT
126e Debbie Scharnhorst, IT
130 James Bower, Humanities
132 Sonja Sanders, ABE/DED
Virginia Foote, Workfirst
133 Paul Boyd, Transitional Studies
146 Tami Mitchell, Medical Assisting
147 Ginny McConnell, English
150 Michael Shively, Mathematics
152 Cyndi Robinett, Science
160A Christopher Mau, Science Lab Coordinator
163A Lori Loseth, Lead Science instructor
163B Sara E. Egbert, Chemistry - Mathematics
163C WorkSource

Health / Science Building

- 2115 Joann Storey, Nurse Lab Coordinator
2119 Deanna Sullivan, Reception
2122 Karen Molander, Nursing
2123 Stephanie Macon-Moore, Nursing
2124 Stephanie Carpenter, Nursing
2125 Genevieve Bross, Nursing
2126 Jenny Charlo, Program Coordinator
2127 Darcy Anderson, Nursing
2128 Sue Rammelsberg, Nursing Coordinator



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