

The background of the cover features a large, stylized logo of Walla Walla Community College. The logo is circular with a gold border. Inside the circle, the words "WALLA COMMUNITY" are written in a serif font, with "WALLA" on the top left and "COMMUNITY" on the top right. Below the text is a stylized building with three horizontal lines representing windows. The bottom half of the logo is partially obscured by the title text.

WALLA COMMUNITY

WALLA WALLA COMMUNITY COLLEGE • WALLA WALLA, WA  
**CATALOG 2010-2012**

WALLA

ESTABLISHED









Dear Student:

During these challenging times, you will face important educational decisions. These decisions will be very significant in determining your career success and quality of life. The purpose of this catalog is to provide you and your advisor with the information needed to make good decisions regarding your educational pursuit; specifically, educational opportunities and pathways available at Walla Walla

Community College. Use it as a tool to discover your options and develop your strategy to complete a degree or certificate program. You will find the answers to your questions about our programs and services.

We will inspire you to achieve your potential and challenge you with relevant learning opportunities. We are committed to your success. Our entire staff will work hard to help you complete your program of studies. More information is available on our web site or contact our Admissions Office at 509/527-4283 or [Admissions@wwcc.edu](mailto:Admissions@wwcc.edu).

Pursuing your education is a smart investment. Walla Walla Community College is "your best choice." Learn more about us today via this catalog and contact us soon for professional assistance.

Sincerely,

*Steven L. VanAusdle*

Steven L. VanAusdle,  
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 . . . . .	758-1567
Associated Student Body, WW . . . . .	527-4257
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 (M 12-2pm, TWTh 8:20am-2pm, Closed Fridays) . . . . .	527-4227
Day Care, Clarkston (Tendercare) . . . . .	758-1779
Day Care, Walla Walla (First Flight) . . . . .	527-4544
Disabilities Services . . . . .	527-4543
Extended & Distance Learning (WAOL) . . . . .	527-4331
Financial Aid Office. . . . .	527-4301
<b>First Response Hotline - Clarkston . . . . .</b>	<b>758-1485</b>
<b>First Response Hotline - Walla Walla . . . . .</b>	<b>524-5222</b>
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
Impact! (Displaced Homemakers) . . . . .	524-5166 • Toll Free: 888-922-1716
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-WWCC
Workfirst . . . . .	527-1865
Worker Retraining . . . . .	529-1113
Workforce Education . . . . .	527-4215
Worksource (Employment Security) . . . . .	527-4279
WSU Nursing @ WWCC . . . . .	524-5152

## Board of Trustees



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Chair



Mr. Miguel Sanchez  
Vice-Chair



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Mrs. Kathy Small



Mr. Roland Schirman







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For the most current information see: [www.wvcc.edu](http://www.wvcc.edu)



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# ABOUT WWWCC







### ***About This Catalog***

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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 Online Catalog on the WWCC website.**

### ***Accreditation***

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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, Professional-Technical 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.

### ***Commitment To Diversity***

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**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.

### ***Americans With Disabilities Act***

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WWCC complies with the Americans with Disabilities Act (ADA) of 1990 and the ADA Amendments Act of 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: 509.527.4258, TDD 509.527.4412; or Carol Bennett, Clarkston campus: 509.758.1718, TDD 509.758.1714.

### ***Equal Opportunity Statement***

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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, 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 Officer is Wendy Samitore, (509)527-4685; Section 503 Officers/Disabilities Support Services on the Walla Walla Campus, Claudia Angus (509)527-4262; Clarkston Campus, Carol Bennett (509)-758-1718; The College TDD number is 509-527-4412.

### ***Student Right to Know and Safety Act***

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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 on the WWCC website (<http://www.wwcc.edu/CMS/index.php?id=551>). This information can also be requested from the Office of Admissions and Records, Walla Walla Community College, 500 Tausick Way, Walla Walla, WA 99362.

### ***The College***

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Walla Walla Community College has rapidly grown from 850 students in 1967 to a present annual enrollment of over 13,000. 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.



## ***ABOUT WALLA WALLA COMMUNITY COLLEGE***

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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 professional-technical 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***

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#### ***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 21<sup>st</sup> 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***

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#### ***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 21<sup>st</sup>-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







# NEW STUDENT CHECKLIST

## New Student Checklist

**To help students get the best possible start in college, WWCC offers a comprehensive student entry process. Follow these steps and you will discover academic and personal success.**

<b>Step 1... Admissions</b>	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.
<b>Step 2... Financial Assistance</b>	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.
<b>Step 3... Placement Testing/Assessment</b>	Complete placement testing for accurate assessment of your current skill levels. Placement testing schedules are available online or in the Student Development Center.
<b>Step 4... New Student Orientation</b>	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.
<b>Step 5... Educational Advising &amp; Career Exploration</b>	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 access number. Career exploration services are available through the Career & Employment Services Center or the Student Development Center.
<b>Step 6... Registration &amp; Payment</b>	Students may register online anytime after their scheduled registration time. Registration times can be found on WWCC website. Tuition & Fees are due 10 days prior to the first day of the quarter.
If at anytime you need guidance in any of these areas, feel free to call or stop by the Student Development Center for assistance at 509.527.4262.	

## Step 1 Admissions

Walla Walla Community College is an open-door, higher education institution. It accepts all qualified individuals 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 who are under the age of 18 at the time of registration and 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 in this catalog under "Admission Procedures for Professional-Technical Programs" and for "Under-Age Admission Policy & Procedures."

### 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. There are two elements 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 1 year and 1 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

It is the student's responsibility to register under the proper classification. If there is any question regarding residency, 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.

If students have been erroneously classified as residents, they 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 they make written application for reclassification. The form is available online on the WWCC website. For more information call 509.527.4282.



## ***NEW STUDENT CHECKLIST***

### ***Non-Resident, U.S. Citizens***

U.S. citizens from Idaho may enroll for a maximum of ten credits and pay Washington resident tuition and fees. Registering for more than ten credits will require payment of the non-resident fee in addition to resident tuition. Oregon residents from border counties may qualify

for Washington State tuition. Please call 509.527.4282 for details. Tuition for non-resident U.S. citizens is listed in the quarterly class schedule. Check the current quarterly class schedule for the most recent fee schedule.

<b>How to Enroll in classes at WWCC</b>	
<b>STUDENT CATEGORY</b>	<b>ENROLLMENT PROCEDURES</b>
<b>New students working on a degree or certificate</b>	Submit application for Admission - FREE! Take Compass placement test Attend New Student Orientation for Priority Registration Professional-Technical programs: Contact the program of interest for specific Entrance Requirements and waitlist procedures
<b>Students working on a degree or certificate, transferring credits from another college</b>	Submit application for Admission - FREE! Take Compass placement test (if necessary) Submit official transcripts from other colleges Professional-Technical programs: Contact the program of interest for specific Entrance Requirements and waitlist procedures Attend New Student Orientation for Priority Registration
<b>Students returning after an interruption in their enrollment at this college.</b>	Submit updated information to the Office of Admissions and Records including verification of program of study and contact information Take Compass placement test (if necessary) Attend New Student Orientation for Priority Registration (if necessary)
<b>Students in the Running Start Program</b>	Submit application for Admission - FREE! Take Compass placement test for eligibility determination Contact high School counselor for referral & transcript information Attend Running Start Student Orientation
<b>Students in the Tech Prep Program</b>	Submit application for Admission - FREE! Work with high school personnel to determine which classes are eligible
<b>Students in the Alternative Education Program (AEP)</b>	Enrolled high school students contact WA-HI or Lincoln HS principal to obtain AEP application and a referral; out-of-district applicants need an inter-district release from their school district superintendent. Non-enrolled high school students contact WWCC High School Programs Director for an AEP application. Submit application for Admission - FREE! Take Compass placement test Interview with the High School Programs Director Obtain release from appropriate high school (current enrollment) Advise with an AEP advisor Attend a mandatory AEP Orientation
<b>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.</b>	Download the Underage forms online at: <a href="http://www.wwcc.edu/CMS/index.php?id=507">http://www.wwcc.edu/CMS/index.php?id=507</a> or pick up at the Student Development Center Submit completed forms and supporting documentation to the Student Development Center Schedule appointment for student and parent/ guardian for an interview with the Student Development Official
<b>Students attending English as a Second Language (ESL), Adult Basic Education (ABE) or GED preparation courses</b>	Contact the Transitional Studies Department at 509.527.4304 for registration information
<b>Students planning to take Extended Learning, Quest, Community Education</b>	Extended Learning, Community Education & Quest students, contact: 509.527.4443 for registration information.
<b>ALL STUDENTS:</b> • Register for classes • Obtain Student ID when required • Pay Tuition & Fees • Purchase Textbooks & Supplies when appropriate	

**For the most current information see: [www.wwcc.edu](http://www.wwcc.edu)**



## NEW STUDENT CHECKLIST

SPECIAL ADMISSIONS POLICIES AND PROCEDURES	
<b>Students in High School Completion (HSC) who are 19 yrs of age and older</b>	Submit application for Admission - FREE! Submit high school transcript(s) to the Student Development Center Take Compass placement test for eligibility determination Meet with High School Completion advisor for transcript evaluation
<b>International Students with F1 or F2 Visa</b>	Submit application for Admission (must be completed <b>90 days</b> prior to the beginning of the quarter for reporting to ICE) Submit official transcripts from secondary and post-secondary academic institutions translated into English Submit financial affidavit of sufficient financial support for at least one year Submit official copy of TOEFL scores (minimum paper-based score is 500 / minimum computer-based score is 173 / minimum Internet-based score is 61) 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

### 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.

#### Eligibility

- Be a citizen of the United States or an eligible permanent resident
- Have a high school diploma, GED certificate, or demonstrate the ability to benefit from the education program pursued
- 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](http://www.fafsa.ed.gov) or at [www.wwcc.edu](http://www.wwcc.edu), and paper applications may be obtained at the Financial Aid Office or a high school counselors' office. The online application is the recommended method of submitting the FAFSA information.

#### 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 resident students who meet financial eligibility criteria.
State Tuition Waiver	A Washington state program for 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.

For the most current information see: [www.wwcc.edu](http://www.wwcc.edu)



## NEW STUDENT CHECKLIST

### 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 at <a href="http://www.wvcc.edu">www.wvcc.edu</a> . 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.

### Other Financial Resources

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

For more information regarding these programs, contact the Financial Aid Office, 509.527.4301 or 509-527-4576 for Walla Walla campus and 509.758.1772 for Clarkston campus.

## Financial Aid Probation

Federal and state regulations require Walla Walla Community College to monitor the satisfactory 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 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

### Placement Testing

Degree-seeking students are required to take a placement test prior to registering for classes. This assessment is a tool that 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 current Walla Walla testing schedule is available on the website at [www.wvcc.edu/testing](http://www.wvcc.edu/testing) 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 the placement test or that portion of the placement test.

For the most current information see: [www.wvcc.edu](http://www.wvcc.edu)



## ***NEW STUDENT CHECKLIST***

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### ***Step 4 New Student Orientation***

New Student Orientation sessions will be offered several times throughout the summer 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.

### ***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, eDiscover, is available online with a password available in the Student Development 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.

### ***Step 6 Registration and Payment***

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 quarterly class schedule. After completing the advising process, students will obtain a quarterly registration access number from their advisor. Students are then able to register online at [www.wwcc.edu](http://www.wwcc.edu). Students are able to make schedule changes online through the first week of the quarter. The last day to add classes (excluding summer quarter) with permission of the instructor is the 5th day of the quarter.

Students are not allowed to attend a class unless they are officially registered for either credit or audit. Some classes, such as ABE, ESL, and GED, have open enrollment throughout the first nine weeks of the term.

Certain courses require prerequisite coursework at a minimum level of performance before they can attend a particular class. Examples: 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.

The final step in the registration process is paying your bill. WWCC cashiers accept cash, checks, MasterCard, and Visa at Business Services or online at [www.wwcc.edu/sos](http://www.wwcc.edu/sos). An automatic payment plan is also available. Tuition and fees are due ten days prior to the beginning of the quarter.







# 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, and 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 these classes. For a current College calendar please check online at [www.wbcc.edu](http://www.wbcc.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 work 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 of 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.

#### ***Non-Traditional Credit Programs***

Non-traditional credit programs offer equality of opportunity, encourage individual development, and allow advanced placement. Non-traditional credit programs include:

##### ***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.

##### ***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.

#### ***Credit By Examination—Challenge***

Credit by examination 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 a full-time instructor in the department offering the course to be challenged. Standard tuition and fees will be charged. Ordinarily, students will not be allowed to challenge more than one course per quarter. Exceptions must be approved by the Vice President of Instruction.

#### ***Credit for Prior Learning***

Credit for Prior Learning is a term used by colleges to describe the process for learners to earn credit and gain recognition for their knowledge and skills. Credit for Prior Learning supports the identification, documentation, assessment and recognition of non-formal knowledge to be counted toward an academic degree, a training program, occupational or professional certification, or for linking employment credentials with education credentials. 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 their advisor, who would direct them to the appropriate department expert. Students may also refer to the WWCC website for more 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.

#### ***Maximum Credit By Examination***

A maximum of 25% of the credits needed for degree or certificate completion may be earned through credit by examination. Students planning to transfer should check on the number of credits earned through examination that the receiving institution will accept.

#### ***Non Credit/ Audit status***

A student may choose to enroll in one or more courses on a non-credit (audit) basis, which means that the student may not be required to complete assignments or examinations for the course and will not receive a grade. A course taken for no credit may be repeated in any subsequent quarter for credit. Changes from non-credit to credit or the reverse must be made during the add/drop period in the quarter in which the student is enrolled and must be approved by the instructor. Non-credit students pay standard tuition and fees. Audited courses do not appear on transcripts.



## College Costs

During the 2010-2011 academic year, full-time tuition and mandatory fees are estimated to cost \$3,447 for one year (15 credits per three quarters) for Washington State residents and \$4,638 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 2010-2011 School Year

Student Budgets	Commuter (living w/parents)	Dependent (away from home)/ Independent
Tuition & Fees (est)*	\$3,447.00	\$3,447.00
Books & Supplies	972.00	972.00
Room & Board	2,730.00	8,460.00
Transportation	1,334.00	1,530.00
Personal Expenses	1,674.00	2,040.00
<b>TOTAL</b>	<b>\$10,167.00</b>	<b>\$16,449.00</b>
*Add \$1,191.00 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 non-refundable or refundable only if withdrawal occurs prior to the first day of instruction. The first day of instruction is defined as the first day of scheduled classes for the quarter. Instruction days are Monday through Friday. Calendar days are all days including weekends and holidays. If a deadline falls on a weekend day or a holiday on which the College is closed, the deadline will be the next weekday that the college is open.

REFUNDS	WWCC will refund tuition and refundable fees if official withdrawal occurs.	
Full Sessions	Up to 100% refund (on or before)	40% refund for total withdrawal from all classes (on or before)
Fall, Winter, Spring	5th day of the quarter	10th day of the quarter & within the first 20 calendar days
Summer	4th day of the quarter	5th day of the quarter & within the first 20 calendar days
*The Washington Online (WAOL) calendar for 100% refund dates for total withdrawal from all classes may differ.		
**Refunds are handled differently for special sessions and short courses.		



## ACADEMIC INFORMATION

### REDUCTION OF CREDIT HOURS

Tuition and fees will be partially refunded if students officially reduce their credit-hour load prior to the sixth instructional 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. No portion of the fees will be refunded for a partial withdrawal on or after the sixth day. 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 that may cause an increase in credit hours, tuition and fees.

### 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. The withdrawal can be processed using web registration until the end of the first week of the quarter. Withdrawals can be processed at the Office of Admissions and Records throughout any drop period. Students should refer to the 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.



## ACADEMIC INFORMATION

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.

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 5 days of the quarter (4 days for summer) unless the course has continuous enrollment. A waitlist cannot exist for the course, and the addition must be approved by the instructor.

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 5 days of the quarter (4 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 and official way 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 grades for the previous three quarters by getting an unofficial copy of their transcript on the website: [www.wwcc.edu/sos](http://www.wwcc.edu/sos).

### GRADE CHANGE

Once a grade has been filed with the Office of Admissions and Records, it 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.



## ACADEMIC INFORMATION

### 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 written request to the Office of Admissions and Records. Student identification number and signature are required for all official transcript requests. A fee of \$5.00 per transcript is charged. For same day processing, a \$15.00 fee is charged. See the WWCC website for ordering instructions. Transcript services are withheld when a student has an outstanding financial obligation to the College.

### ***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. Advisors are faculty members, college counselors, and other designated staff members. 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:** For each course in which they are enrolled, students at Walla Walla Community College are responsible for all instructions and requirements given by the instructor.
4. **Attendance:** Regular attendance in classes is strongly recommended to ensure the successful completion of coursework. Individual instructors may require class attendance. Excused absences may be permitted at the discretion of the instructor for illness, official college activities, or personal emergencies. All coursework missed, regardless of cause, must be completed to the satisfaction of the instructor. The student is responsible for initiating procedures for make-up work. Certain professional-technical programs 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:** All examinations must be taken at the times scheduled by the instructor. A request to take a final examination at other than a scheduled time must be approved by the instructor and the Vice President of Instruction.
6. **Student progress:** Students need to work toward timely completion of degrees or certificates. In response to recent legislation, WWCC will monitor students' progress in earning college-level credits. Future legislation may require students to pay more for excess credits they accumulate as they pursue degrees or certificates. Therefore, students should see advisors and keep on track toward their intended educational goals.

7. **Student Rights and Responsibilities:** Student rights and responsibilities are published in the document Rules of Conduct and Procedures of Enforcement.

Students should contact the Student Activities Director for information regarding their rights and responsibilities while attending Walla Walla Community College. The Vice President of Student Services is available to discuss student concerns.

For Student Rights and Responsibilities, refer to [www.wwcc.edu/sos](http://www.wwcc.edu/sos)

### ACADEMIC STANDARDS POLICY

#### *Honors Recognition*

Each quarter, except summer, the College recognizes student academic achievement for those 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 for them to take corrective action. The following guidelines have been established to ensure that 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 gpa that quarter 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.



## ACADEMIC INFORMATION

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.
- 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.

**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. Student 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.

### 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, multi-media 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).
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:

### Veterans Academic Progress

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

1. 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".
2. 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.
3. 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.
4. 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.
5. 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.
6. 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.

7. Individuals cannot be certified for 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 from any course (including dates of attendance) 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.

## **Graduation Requirements**

Application for Graduation: Candidates for degrees, certificates, and diplomas should meet with their advisor at least two quarters prior to the anticipated completion date. When all requirements are fulfilled, candidates for degrees and certificates are required to formally apply to graduate. Each degree or certificate requires a separate application form. Forms are available online at the WWCC website and at the Office of Admissions and Records. For individual certificates and degree requirements, please see the department section of the catalog. All degrees require a minimum grade point average of 2.0. Students may earn their degree at the end of any quarter.

**Graduation Ceremony:** One graduation ceremony is held at the end of the academic year. Any student who has been approved for graduation during the year is eligible to participate in the June ceremony. Students who plan to complete their requirements during the following summer quarter may apply for graduation and participate in the ceremony. Participation in the graduation ceremony does not imply that your degree has been awarded. Students must meet all degree or certificate requirements before a degree or certificate is awarded. All diplomas and certificates will be mailed to students eight to ten weeks after the end of the quarter in which they have completed graduation.

**Catalog Option:** Students applying for graduation must comply with the requirements of the college catalog. Students may apply for graduation under the catalog in effect at the time of enrollment or any subsequent catalog, provided the student is continuously enrolled (excluding summer quarter).

### **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.

### **Common Course Numbering**

Washington State created the Common Course Numbering (CCN) system, which has renumbered and renamed courses that are commonly shared among Washington community and technical colleges. After Walla Walla Community College (WWCC) adopted Common Course Numbering in summer 2009, the courses identified as common between community and technical colleges have been denoted with a "&" behind the department code (for example, SPCH 101 is now CMST& 220). These courses were changed to simplify transferring between community and technical colleges in Washington State; not between community/technical colleges and four-year colleges and universities.

WWCC has created a course change list identifying courses that changed department codes/course numbers/titles. As a result of common course numbering, WWCC had to change some other department codes that are not common (without "&") among other colleges. These courses are also identified on the course change list.

For more information on common course numbering, please contact Lindsey Mahan 509.524.5233. For information about advising related to common course numbering, please contact Student Development Center at 509.527.4262 in Walla Walla and 509.758.3339 in Clarkston.



# COMMON COURSE NUMBERING CROSSWALK

## Common Course Numbering Course Crosswalk List

Below is a list of WWCC courses that have been renumbered/renamed due to the Washington State Common Course Numbering system. Effective summer 2009.

OLD COURSE		NEW COURSE	
Course	Title	Course	Title
<b>Accounting Technology</b>			
ACCT 201	Principles of Accounting I	ACCT& 201	Principles of Accounting I
ACCT 201	Principles of Accounting I	ACCT& 201N	Principles of Accounting I (WSP only)
ACCT 202	Principles of Accounting II	ACCT& 202	Principles of Accounting II
ACCT 203	Managerial Accounting	ACCT& 203	Principles of Accounting III
<b>Anthropology</b>			
ANTH 101	Intro to Anthropology	ANTH& 100	Survey of Anthropology
ANTH 202	Cultural Anthropology	ANTH& 206	Cultural Anthropology
<b>Art</b>			
ART 100	Art Appreciation	ART& 100	Art Appreciation
<b>Astronomy</b>			
ASTR 110	The Solar System	ASTR& 110	The Solar System
<b>Business Administration</b>			
BA 001	HIPPA Compliance	BUS 001	HIPPA Compliance
BA 071	Travel Agent Training-S	BUS 071	Travel Agent Training-S
BA 075	Real Estate Principles	BUS 075	Real Estate Principles
BA 076	WA Real Estate Practices	BUS 076	WA Real Estate Practices
BA 077	WA Real Estate Law	BUS 077	WA Real Estate Law
BA 085	Pay Per Click Marketing	BUS 085	Pay Per Click Marketing
BA 086	Search Engine Optimization	BUS 086	Search Engine Optimization
BA 087	Search Engine Marketing	BUS 087	Search Engine Marketing
BA 089	Selling to the Government	BUS 089	Selling to the Government
BA 091	Co-op Work Exp IV	BUS 091	Co-op Work Exp IV
BA 092	Co-op Work Exp V	BUS 092	Co-op Work Exp V
BA 093	Co-op Work Exp VI	BUS 093	Co-op Work Exp VI
BA 099	Leadership Series	BUS 099	Leadership Series
BA 099A	Managing Complaints	BUS 099A	Managing Complaints
BA 099B	Develop Performance Standards	BUS 099B	Develop Performance Standards
BA 099C	Upward Communication	BUS 099C	Upward Communication
BA 099D	Leadership Essentials	BUS 099D	Leadership Essentials
BA 099E	Essential Skills of Communicating	BUS 099E	Essential Skills of Communicating
BA 099F	Effective Meetings	BUS 099F	Effective Meetings
BA 099G	Conflict Resolution	BUS 099G	Conflict Resolution
BA 099H	Effective Delegation	BUS 099H	Effective Delegation
BA 099I	Motivate, Manage & Lead	BUS 099I	Motivate, Manage & Lead
BA 099J	Leadership Series I	BUS 099J	Leadership Series I
BA 099K	Leadership Series II	BUS 099K	Leadership Series II
BA 099L	Leadership Series III	BUS 099L	Leadership Series III
BA 099M	Dealing with Difficult People	BUS 099M	Dealing with Difficult People
BA 101	Introduction To Business	BUS& 101	Intro to Business
BA 102	Customer Service	BUS 102	Customer Service
BA 112	Business Mathematics	BUS 112	Business Mathematics
BA 136	Bus Communications I	BUS 136	Bus Communications I
BA 137	Bus Communications II	BUS 137	Bus Communications II
BA 153	Economic Survey	BUS 153	Economic Survey
BA 154	Economic Survey II	BUS 154	Economic Survey II
BA 157	Human Relations	BUS 157	Human Relations
aBA 181	Co-op Work Experience I	BUS 181	Co-op Work Experience I
BA 182	Bus Leadership Seminar I	BUS 182	Bus Leadership Seminar I
BA 187	Principles of Selling	BUS 187	Principles of Selling
BA 189	Principles of Management	BUS 189	Principles of Management
BA 190	Personnel Management	BUS 190	Personnel Management
BA 191	Co-op Work Experience II	BUS 191	Co-op Work Experience II
BA 192	Business Leadership Seminar II	BUS 192	Business Leadership Seminar II
BA 193	Business Leadership III	BUS 193	Business Leadership III

For the most current information see: [www.wwcc.edu](http://www.wwcc.edu)



# COMMON COURSE NUMBERING CROSSWALK

OLD COURSE		NEW COURSE	
Course	Title	Course	Title
BA 194	Entrepreneurship Develop	BUS 194	Entrepreneurship Develop
BA 197	Electronic Commerce	BUS 197	Electronic Commerce
BA 199	Special Topics	BUS 199	Special Topics
BA 210	Marketing	BUS 210	Marketing
BA 215	Advertising	BUS 215	Advertising
BA 217	Computer Software Applications	BUS 217	Computer Software Applications
BA 251	Intro to Business Law I	BUS& 201	Business Law
BA 252	Intro to Business Law II	BUS 202	Intro to Business Law II
BA 287	Retailing	BUS 287	Retailing
BA 291	Co-op Work Experience III	BUS 291	Co-op Work Experience III
BA 292	Business Leadership Seminar III	BUS 292	Business Leadership Seminar III
BA 293	Bus Leadership VI	BUS 293	Bus Leadership VI
BA 297	Special Projects	BUS 297	Special Projects
<b>Biology</b>			
BIO 110	Survey of Biology	BIOL& 100	Survey of Biology
BIO 119	Human Anatomy for Medical Office Pros	BIOL 119	Human Anatomy for Medical Office Pros
BIO 120	Bio of the Human Organism	BIOL& 175	Human Biology w/ Lab
BIO 121	Biology of Women	BIOL 121	Biology of Women
BIO 130	General Ecology	BIOL 130	General Ecology
BIO 151	Cell Biology	BIOL& 160	General Biology w/ Lab
	New course	BIOL& 211	Majors Cellular
BIO 152	General Botany	BIOL& 213	Majors Plant
BIO 153	General Zoology I	BIOL& 212	Majors Animal
BIO 170	Applied Equine Biology	BIOL 170	Applied Equine Biology
BIO 202	Vertebrate Zoology	BIOL 202	Vertebrate Zoology
BIO 210	Anatomy & Physiology I	BIOL& 251	Human A & P I
BIO 211	Anatomy & Physiology II	BIOL& 252	Human A & P II
BIO 212	Anatomy & Physiology III	BIOL& 253	Human A & P III
BIO 221	Systematic Botany (Plant ID)	BIOL 221	Systematic Botany (Plant ID)
BIO 230	Microbiology	BIOL& 260	Microbiology
BIO 240	Principles of Conservation	BIOL 240	Principles of Conservation
BIO 265	Intro to Immunology	BIOL 265	Intro to Immunology
BIO 297	Special Topics in Biology	BIOL 297	Special Topics in Biology
BIO 298	Special Topics in Biology	BIOL 298	Special Topics in Biology
BIO 299	Special Topics	BIOL 299	Special Topics
<b>Civil Engineering Technology</b>			
CET 141	Engineering Graphics	ENGR& 111	Engineering Graphics 1
CET 143	Descriptive Geometry	ENGR& 112	Engineering Graphics 2
CET 220	Eng Mechanics (Statics)	ENGR& 214	Statics
CET 222	Eng Mech-Strength of Materials	ENGR& 225	Mechanics of Materials
<b>Chemistry</b>			
CHEM 101	Chemistry	CHEM& 110	Chemical Concepts with Lab
CHEM 107	Gen Chem Health Sciences	CHEM& 121	Intro to Chemistry
CHEM 108	Organic Chem Health Sci	CHEM& 122	Intro to Organic Chem
CHEM 109	Bio Chem For Health Sci	CHEM& 123	Intro to Biochemistry
CHEM 121	General Chemistry I	CHEM& 161	General Chem w/Lab I
CHEM 122	General Chemistry II	CHEM& 162	General Chem w/Lab II
CHEM 123	General Chem III-Honors	CHEM& 163	General Chem w/Lab III
<b>Criminal Justice</b>			
CJ 101	Intro Criminal Justice	CJ& 101	Intro Criminal Justice
CJ 103	Intro To Criminal Law	CJ& 110	Criminal Law
CJ 106	Criminology	CJ& 112	Criminology
<b>Communications (American Sign Language)</b>			
COMM 107	American Sign Lang I	ASL& 121	Am Sign Language I
COMM 108	American Sign Lang II	ASL& 122	Am Sign Language II
COMM 109	American Sign Lang III	ASL& 123	Am Sign Language III
<b>Early Childhood Education</b>			
ECE 141	Child Development	EDUC& 114	Child Development
ECE 155	Intro to Exceptional Children	EDUC& 203	Exceptional Child



# COMMON COURSE NUMBERING CROSSWALK

OLD COURSE		NEW COURSE	
Course	Title	Course	Title
<b>Economics</b>			
ECON 201	Fund of Macroeconomics	ECON& 202	Macro Economics
ECON 202	Fund of Microeconomics	ECON& 201	Micro Economics
<b>Education Paraprofessional</b>			
ED 110	Intro to Education	EDUC& 202	Intro to Education
ED 141	Child Development & Relat	EDUC& 114	Child Development
ED 155	Intro Exceptional Student	EDUC& 203	Exceptional Child
<b>English</b>			
ENG 059	Vocabulary	ENGL 059	Vocabulary
ENG 077	Writing Fundamentals II	ENGL 077	Writing Fundamentals II
ENG 086	Spelling I	ENGL 086	Spelling I
ENG 087	Writing Fundamentals III	ENGL 087	Writing Fundamentals III
ENG 092	Special Topics Writing I	ENGL 092	Special Topics Writing I
ENG 093	Spec Topics Writing II	ENGL 093	Spec Topics Writing II
ENG 094	Spec Topics Writing III	ENGL 094	Spec Topics Writing III
ENG 095	Individualized Study Skills	ENGL 095	Individualized Study Skills
ENG 096	Spelling II	ENGL 096	Spelling II
ENG 097	Basic Expository Writing	ENGL 097	Basic Expository Writing
ENG 101	English Composition I	ENGL& 101	English Composition I
ENG 102	English Composition II	ENGL& 102	Composition II
ENG 120	Creative Writing I	ENGL 120	Creative Writing I
ENG 130	Creative Writing II	ENGL 130	Creative Writing II
ENG 140	Creative Writing III	ENGL 140	Creative Writing III
<b>Environmental Science</b>			
ESCI 101	Intro to Environmental Sciences	ENVS& 101	Intro to Env Science
<b>French</b>			
FREN 047	Basic French I	FRCH 047	Basic French I
FREN 049	Conver French III	FRCH 049	Conver French III
FREN 101	French I	FRCH& 121	French I
FREN 102	French II	FRCH& 122	French II
FREN 103	French III	FRCH& 123	French III
FREN 150	Honors Sem: Hist of Paris	FRCH 150	Honors Sem: Hist of Paris
FREN 201	French IV	FRCH 201	French IV
FREN 202	French V	FRCH 202	French V
FREN 203	French VI	FRCH 203	French VI
<b>Geology</b>			
GEOL 101	Physical Geography	GEOL& 101	Intro Physical Geology
GEOL 120	Environmental Earth Science	GEOL& 110	Environmental Geology
GEOL 201	Historical Geology	GEOL& 103	Historical Geology
GEOL 210	Pacific Northwest Geology	GEOL& 208	Geology of the Pacific NW
<b>History</b>			
HIST 101	Western Civilization I	HIST& 116	Western Civilization I
HIST 102	Western Civilization II	HIST& 117	Western Civilization II
HIST 103	Western Civilization III	HIST& 118	Western Civilization III
HIST 105	World History	HIST& 126	World Civilization I
HIST 107	Early Modern Civilization	HIST& 127	World Civilization II
HIST 109	Modern Civilization	HIST& 128	World Civilization III
HIST 201	American History I	HIST& 146	US History I
HIST 202	American History II	HIST& 147	US History II
HIST 203	American History III	HIST& 148	US History III
HIST 210	Northwest History	HIST& 214	Pacific NW History
HIST 280	Women in US History	HIST& 215	Women in US History
<b>Humanities</b>			
HUM 101	Intro to Humanities I	HUM& 116	Humanities I
HUM 102	Intro to Hum II	HUM& 117	Humanities II
HUM 103	Intro to Hum III	HUM& 118	Humanities III
<b>Literature (English)</b>			
LIT 111	Arthurian Literature	ENGL 115	Arthurian Literature
LIT 120	Baseball Lit & Amer Cult	ENGL 118	Baseball Lit & Amer Cult

For the most current information see: [www.wvcc.edu](http://www.wvcc.edu)



# COMMON COURSE NUMBERING CROSSWALK

OLD COURSE		NEW COURSE	
Course	Title	Course	Title
LIT 140	Intro to Literature	ENGL& 111	Intro to Literature
LIT 141	Introduction to Fiction	ENGL& 112	Intro to Fiction
LIT 142	Introduction to Poetry	ENGL& 113	Intro to Poetry
LIT 144	Introduction to Film	ENGL 144	Introduction to Film
LIT 147	Comic Books and Graphic	ENGL 147	Comic Books and Graphic
LIT 149	Classic Children's Lit	ENGL 149	Classic Children's Lit
LIT 164	Japanese Literature	ENGL 164	Japanese Literature
LIT 210	Myth and Folklore	ENGL 210	Myth and Folklore
LIT 212	African-American Lit	ENGL 212	African-American Lit
LIT 245	American Literature	ENGL 245	American Literature
LIT 250	Lit of American Immigrat	ENGL 250	Lit of American Immigrat
LIT 251	Voices of Women in Lit	ENGL 251	Voices of Women in Lit
LIT 252	British Literature I	ENGL 252	British Literature I
LIT 253	British Literature II	ENGL 253	British Literature II
LIT 256	Lit of American West	ENGL 256	Lit of American West
LIT 257	Lit of the Inland N.W.	ENGL 257	Lit of the Inland N.W.
LIT 260	Modern Hisp/Latino Lit	ENGL 260	Modern Hisp/Latino Lit
LIT 261	Native American Literatu	ENGL 261	Native American Literatu
LIT 265	World Literature	ENGL 265	World Literature
LIT 270	Detective and Spy Novels	ENGL 270	Detective and Spy Novels
LIT 271	Science Fiction and Fant	ENGL 271	Science Fiction and Fant
LIT 272	Medicine and Literature	ENGL 272	Medicine and Literature
LIT 277	The Bible as Literature	ENGL 277	The Bible as Literature
LIT 290	Favorite Writers	ENGL 290	Favorite Writers
<b>Math</b>			
MATH 107	Math: A Practical Experience	MATH& 107	Math in Society
MATH 109	Precalculus I	MATH& 141	Precalculus I
MATH 110	Precalculus II	MATH& 142	Precalculus II
MATH 121	Survey of Calculus	MATH& 148	Business Calculus
MATH 124	Calculus with Analytical Geo I	MATH& 151	Calculus I
MATH 125	Calculus with Analytical Geo II	MATH& 152	Calculus II
MATH 126	Calculus with Analytic Geo III	MATH& 153	Calculus III
MATH 224	Calculus & Analytical Geo IV	MATH& 254	Calculus IV
<b>Music</b>			
MUS 100	Music Fundamentals	MUSC 100	Music Fundamentals
MUS 101	Music Appreciation	MUSC& 105	Music Appreciation
MUS 102	Music Fundamentals I	MUSC 102	Music Fundamentals I
MUS 103	Music Fundamentals II	MUSC 103	Music Fundamentals II
MUS 104	Music Fundamentals III	MUSC 104	Music Fundamentals III
MUS 106	Music Theory I	MUSC 106	Music Theory I
MUS 107	Music Theory II	MUSC 107	Music Theory II
MUS 108	Music Theory III	MUSC 108	Music Theory III
MUS 110	Hist of American Music	MUSC 110	Hist of American Music
MUS 113	Choral Singing I	MUSC 113	Choral Singing I
MUS 114	Choral Singing II	MUSC 114	Choral Singing II
MUS 115	Choral Singing III	MUSC 115	Choral Singing III
MUS 116	College Voice I	MUSC 116	College Voice I
MUS 117	College Voice II	MUSC 117	College Voice II
MUS 118	College Voice III	MUSC 118	College Voice III
MUS 121	Stage/Pep Band I	MUSC 121	Stage/Pep Band I
MUS 122	Stage/Pep Band II	MUSC 122	Stage/Pep Band II
MUS 123	Stage/Pep Band III	MUSC 123	Stage/Pep Band III
MUS 126	Jazz Combo I	MUSC 126	Jazz Combo I
MUS 127	Jazz Combo II	MUSC 127	Jazz Combo II
MUS 128	Jazz Combo III	MUSC 128	Jazz Combo III
MUS 130	Piano Fundamentals/Blues	MUSC 130	Piano Fundamentals/Blues
MUS 131	Applied Music I	MUSC 131	Applied Music I
MUS 132	Applied Music II	MUSC 132	Applied Music II
MUS 133	Applied Music III	MUSC 133	Applied Music III
MUS 141	Symphony/Comm Band I	MUSC 141	Symphony/Comm Band I

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# COMMON COURSE NUMBERING CROSSWALK

OLD COURSE		NEW COURSE	
Course	Title	Course	Title
MUS 142	Symphony/Comm Band II	MUSC 142	Symphony/Comm Band II
MUS 143	Symphony/Comm Band III	MUSC 143	Symphony/Comm Band III
MUS 144	Theater Orchestra I	MUSC 144	Theater Orchestra I
MUS 145	Theater Orchestra II	MUSC 145	Theater Orchestra II
MUS 146	Theater Orchestra III	MUSC 146	Theater Orchestra III
MUS 161	Vocal Ensemble I	MUSC 161	Vocal Ensemble I
MUS 162	Vocal Ensemble II	MUSC 162	Vocal Ensemble II
MUS 163	Vocal Ensemble III	MUSC 163	Vocal Ensemble III
MUS 164	Spanish Chorus	MUSC 164	Spanish Chorus
MUS 178	Keyboard Improv III	MUSC 178	Keyboard Improv III
MUS 206	Music Theory IV	MUSC 206	Music Theory IV
MUS 207	Music Theory V	MUSC 207	Music Theory V
MUS 208	Music Theory VI	MUSC 208	Music Theory VI
MUS 216	College Voice IV	MUSC 216	College Voice IV
MUS 217	College Voice V	MUSC 217	College Voice V
MUS 218	College Voice VI	MUSC 218	College Voice VI
MUS 221	Stage/Pep Band IV	MUSC 221	Stage/Pep Band IV
MUS 222	Stage/Pep Band V	MUSC 222	Stage/Pep Band V
MUS 223	Stage/Pep Band VI	MUSC 223	Stage/Pep Band VI
MUS 226	Jazz Combo IV	MUSC 226	Jazz Combo IV
MUS 227	Jazz Combo V	MUSC 227	Jazz Combo V
MUS 228	Jazz Combo VI	MUSC 228	Jazz Combo VI
MUS 231	Applied Music IV	MUSC 231	Applied Music IV
MUS 232	Applied Music V	MUSC 232	Applied Music V
MUS 233	Applied Music VI	MUSC 233	Applied Music VI
MUS 241	Symphony/Comm Band IV	MUSC 241	Symphony/Comm Band IV
MUS 242	Symphony/Comm Band V	MUSC 242	Symphony/Comm Band V
MUS 243	Symphony/Community Band	MUSC 243	Symphony/Community Band
MUS 261	Vocal Ensemble IV	MUSC 261	Vocal Ensemble IV
MUS 262	Vocal Ensemble V	MUSC 262	Vocal Ensemble V
MUS 263	Vocal Ensemble VI	MUSC 263	Vocal Ensemble VI
MUS 299	Special Projects	MUSC 299	Special Projects
<b>Nutrition</b>			
NUTR 165	General Nutrition	NUTR& 101	Nutrition
<b>Oceanography</b>			
OCE 101	Intro to Oceanography	OCEA& 101	Intro to Oceanography
<b>Philosophy</b>			
PHIL 101	Intro to Philosophy I	PHIL& 101	Intro to Philosophy
PHIL 220	Symbolic Logic	PHIL& 106	Intro to Logic
<b>Physics</b>			
PHYS 110	Conceptual Physics	No Common Courses Adopted	
PHYS 121	College Physics I		
PHYS 122	College Physics II		
PHYS 123	College Physics III		
PHYS 201	Phys Science & Eng I		
PHYS 202	Phys Science & Eng II		
PHYS 203	Phys Science & Eng III		
<b>Political Science</b>			
PSCI 101	American National Govt	POLS& 202	American Government
PSCI 120	The American Presidency	POLS 120	The American Presidency
PSCI 125	Student Leadership I	POLS 125	Student Leadership I
PSCI 126	Student Leadership II	POLS 126	Student Leadership II
PSCI 127	Student Leadership III	POLS 127	Student Leadership III
PSCI 204	Constitutional Law	POLS 204	Constitutional Law
PSCI 211	U.S. in World Affairs I	POLS 211	U.S. in World Affairs I
PSCI 212	U.S. in World Affairs II	POLS 212	U.S. in World Affairs II
PSCI 215	Honors Sem: Presidential Indiscretions	POLS 215	Honors Sem: Presidential Indiscretions
PSCI 222	Agricultural Policy	POLS 222	Agricultural Policy



# COMMON COURSE NUMBERING CROSSWALK

OLD COURSE		NEW COURSE	
Course	Title	Course	Title
<b>Psychology</b>			
PSY 030	Metamorphosis	PSYC 030	Metamorphosis
PSY 050	Partners in Parenting	PSYC 050	Partners in Parenting
PSY 075	Father-Son Healing	PSYC 075	Father-Son Healing
PSY 077	Achieving Your Potential	PSYC 077	Achieving Your Potential
PSY 078	Ages and Stages	PSYC 078	Ages and Stages
PSY 079	Challenges of Grand Parenting	PSYC 079	Challenges of Grand Parenting
PSY 080	Gender Communications	PSYC 080	Gender Communications
PSY 082	Negotiating for Life	PSYC 082	Negotiating for Life
PSY 083	Understand Human Behavior	PSYC 083	Understand Human Behavior
PSY 084	Breaking Barriers	PSYC 084	Breaking Barriers
PSY 085	Understand Abnormal Psychology	PSYC 085	Understand Abnormal Psychology
PSY 086	Victim Awareness	PSYC 086	Victim Awareness
PSY 087	Challenges	PSYC 087	Challenges
PSY 088	Psy Generative Leisure	PSYC 088	Psy Generative Leisure
PSY 089	Achieving Your Potential	PSYC 089	Achieving Your Potential
PSY 095	Skills for Success I	PSYC 095	Skills for Success I
PSY 096	Skills for Success II	PSYC 096	Skills for Success II
PSY 099	Stress/Anger Management	PSYC 099	Stress/Anger Management
PSY 100	Effective Learning Strategies	CE 110	Learning Strategies for College
PSY 101	Introduction to Psychology	PSYC& 100	General Psychology
PSY 103	Developmental Psychology	PSYC& 200	Lifespan Psychology
PSY 111	Effective Interpersonal Relationships	PSYC 111	Effective Interpersonal Relationships
PSY 113	Human Sexuality	PSYC 113	Human Sexuality
PSY 139	Psychology of Women	PSYC 139	Psychology of Women
PSY 140	Career/Life Planning	PSYC 140	Career/Life Planning
PSY 160	Psy of Criminal Behavior	PSYC 160	Psy of Criminal Behavior
PSY 196	Psy of Human Performance	PSYC 196	Psy of Human Performance
PSY 205	Social Psychology	PSYC 205	Social Psychology
PSY 219	Health Psychology	PSYC 219	Health Psychology
PSY 224	Environmental Psychology	PSYC 224	Environmental Psychology
PSY 225	Psychology of Environmental Problems	PSYC 225	Psychology of Environmental Problems
PSY 250	Abnormal Psychology	PSYC& 220	Abnormal Psychology
PSY 297	Special Problems	PSYC 297	Special Problems
<b>Sociology</b>			
SOC 101	Intro to Sociology	SOC& 101	Intro to Sociology
SOC 201	Intro to Social Problems	SOC& 201	Social Problems
<b>Spanish</b>			
SPAN 101	Spanish I	SPAN& 121	Spanish I
SPAN 102	Spanish II	SPAN& 122	Spanish II
SPAN 103	Spanish III	SPAN& 123	Spanish III
SPAN 201	Spanish IV	SPAN& 221	Spanish IV
SPAN 202	Spanish V	SPAN& 222	Spanish V
SPAN 203	Spanish VI	SPAN& 223	Spanish VI
<b>Speech (Communication Studies)</b>			
SPCH 091	Leave them Laughing	CMST 091	Leave them Laughing
SPCH 101	Fundamentals of Speech	CMST& 220	Public Speaking
SPCH 102	Interpersonal Communication	CMST 102	Interpersonal Communication
SPCH 103	Phonetics and Articulation	CMST 103	Phonetics and Articulation
SPCH 105	Oral Interpretation	CMST 105	Oral Interpretation
SPCH 201	Intercultural Communication	CMST 201	Intercultural Communication
<b>Theatre Arts</b>			
THEA 101	Theatre Appreciation	DRMA& 101	Intro to Theatre
THEA 117	Technical Drama I	DRMA 117	Technical Drama I
THEA 118	Technical Drama II	DRMA 118	Technical Drama II
THEA 119	Technical Drama III	DRMA 119	Technical Drama III
THEA 151	Beginning Acting I	DRMA 151	Beginning Acting I
THEA 152	Beginning Acting II	DRMA 152	Beginning Acting II
THEA 153	Beginning Acting III	DRMA 153	Beginning Acting III
THEA 154	Acting-Summer Musical I	DRMA 154	Acting-Summer Musical I

For the most current information see: [www.wcc.edu](http://www.wcc.edu)



## COMMON COURSE NUMBERING CROSSWALK

OLD COURSE		NEW COURSE	
<i>Course</i>	<i>Title</i>	<i>Course</i>	<i>Title</i>
THEA 155	Acting-Summer Musical II	DRMA 155	Acting-Summer Musical II
THEA 156	Acting-Summer Musical III	DRMA 156	Acting-Summer Musical III
THEA 188	Children's Theatre	DRMA 188	Children's Theatre
THEA 190	Play Production I	DRMA 190	Play Production I
THEA 191	Play Production II	DRMA 191	Play Production II
THEA 192	Play Production III	DRMA 192	Play Production III
THEA 195	Touring Theatre I	DRMA 195	Touring Theatre I
THEA 196	Touring Theatre II	DRMA 196	Touring Theatre II
THEA 197	Touring Theatre III	DRMA 197	Touring Theatre III
THEA 215	Set Design	DRMA 215	Set Design
THEA 217	Technical Drama IV	DRMA 217	Technical Drama IV
THEA 218	Technical Drama V	DRMA 218	Technical Drama V
THEA 219	Technical Drama VI	DRMA 219	Technical Drama VI
THEA 220	Intro Costumes/Stage	DRMA 220	Intro Costumes/Stage
THEA 221	Costumes Stage/Construct	DRMA 221	Costumes Stage/Construct
THEA 222	Costumes Stage/Management	DRMA 222	Costumes Stage/Management
THEA 223	Elements of Costume Design	DRMA 223	Elements of Costume Design
THEA 225	Representative Plays	DRMA 225	Representative Plays
THEA 226	Asian Plays	DRMA 226	Asian Plays
THEA 251	Intermediate Acting I	DRMA 251	Intermediate Acting I
THEA 252	Intermediate Acting II	DRMA 252	Intermediate Acting II
THEA 253	Intermediate Acting III	DRMA 253	Intermediate Acting III
THEA 270	Stage Management	DRMA 270	Stage Management
THEA 271	Beginning Directing	DRMA 271	Beginning Directing
THEA 272	Intermediate Directing	DRMA 272	Intermediate Directing
THEA 273	Advanced Directing	DRMA 273	Advanced Directing
THEA 275	Special Projects Costuming	DRMA 275	Special Projects Costuming
THEA 276	Sp. Projects Costume Design	DRMA 276	Special Projects Costume Design
THEA 290	Play Production IV	DRMA 290	Play Production IV
THEA 291	Play Production V	DRMA 291	Play Production V
THEA 292	Play Production VI	DRMA 292	Play Production VI
THEA 295	Touring Theatre IV	DRMA 295	Touring Theatre IV
THEA 296	Touring Theatre V	DRMA 296	Touring Theatre V
THEA 297	Touring Theatre VI	DRMA 297	Touring Theatre VI
THEA 298	Special Topics	DRMA 298	Special Topics
THEA 299	Special Projects	DRMA 299	Special Projects

Along with the common courses, there are some department codes that changed to align with common courses. Here is a list of the department codes that changed:

OLD COURSE		NEW COURSE	
<i>Course</i>	<i>Title</i>	<i>Course</i>	<i>Title</i>
BA	Business Administration	BUS	Business Administration
BIO	Biology	BIOL	Biology
COMM	Communications	ASL	American Sign Language
ENG	English	ENGL	English
ESCI	Environmental Science	ENVS	Environmental Science
FREN	French	FRCH	French
LIT	Literature	ENGL	English
MUS	Music	MUSC	Music
OCE	Oceanography	OCEA	Oceanography
PSCI	Political Science	POLS	Political Science
PSY	Psychology	PSYC	Psychology
SPCH	Speech	CMST	Communication Studies
THEA	Theatre Arts	DRMA	Drama



# STUDENT PROGRAMS, SERVICES AND RESOURCES







## ***STUDENT PROGRAMS, SERVICES AND RESOURCES***

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### ***Associated Student Body (ASB)/Student Government***

509.527.4257 - Walla Walla • 509.758.1718 - Clarkston

Students can develop leadership skills and take an active role in the college through student government. The primary objective of the ASB is to provide the opportunity for student organization, to promote growth of the academic and social life of students, and to help further student relations with the total college community. Elections for student body officers are held each spring. Contact the Director of Student Activities for details.

### ***Athletics (Intercollegiate)***

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 • 509.758.3339 - 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. Summer hours are 7:00 a.m. to 5:00 p.m. Monday through Thursday.

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.

Textbook refunds are available with a receipt within the first 5 days of each quarter. Textbooks, supplies, software, snack items, change, clothing, gifts, and greeting cards are available at both Walla Walla and Clarkston.

Espresso Bar, Campus Ticket Office, Post Office, and Fax Machine services are available in Walla Walla.

### ***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 with the Discover on-line computer program.

Assessments to determine career interests and strengths.

Resume and job-hunting assistance.

### ***Child Care***

509.527.4544 - Walla Walla (First Flight) • 509.758.1779 - Clarkston (Tender Care)

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

Short term personal counseling services are available to WWCC students whose personal concerns are interfering with their educational success. Professional counselors provide support, teach coping skills, interpret career assessments and help students access community resources. Various support groups and workshops are offered throughout the year. Counseling is confidential and free to students.

### ***Disability Support Services***

509.527.4262 - Walla Walla • 509.527.4412 (TDD)  
509.758.1718 - Clarkston

Students with physical, learning or other disabilities may request accommodations by contacting the Coordinator of Disability Services on the Walla Walla campus or the Coordinator of Student Services, in Clarkston. After establishing the functional impact of the disability, the Coordinator will issue reasonable accommodations to assure that the student has fair access to the educational setting.

### ***IMPACT! Life Transitions Program***

509.524.5166 - Walla Walla • 1.888.922.1716 (Toll Free)

IMPACT! assists individuals who face obstacles to becoming self-sufficient. FREE services are offered that allow participants to renew self-confidence, develop job-search skills and connect to college and/or community programs. Support services and resources provide persons going through life transitions with tools to create a plan of action. IMPACT! offers Instructional services geared toward realistic and appropriate job opportunities with a comprehensive curricula focusing on aptitude and skill assessment. Day and evening classes are available.

## ***Employment***

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### ***Work Source***

509.527.4279 - Walla Walla • 509.758.1716 - Clarkston

[www.go2worksource.com](http://www.go2worksource.com)

A Work Source employment specialist is available on both campuses to assist students and the public with job placement and referral to campus & community opportunities. Assistance with résumé development, job seeking skills and access to local, state, and national labor market information is also provided. Services are also provided for dislocated workers and Worker Retraining students.



## ***STUDENT PROGRAMS, SERVICES AND RESOURCES***

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### ***Food Service***

509.527.4272 - Walla Walla • 509.758.3339 - Clarkston

Walatsa Café: Breakfast and lunch are prepared and served by students in the Culinary Arts Program 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 Walla Walla Campus Business Services counter.

CC's: A local vendor, CC's, provides coffee services, snacks, light breakfast and lunch items from 7:00 a.m. to 1:00 p.m. Monday through Friday at the Clarkston Campus.

### ***Health Insurance***

509.527.4300 - Walla Walla • 509.758.1718 - Clarkston

Reduced rates are available for student accident and medical insurance policies. Information is available at the Cashier's Counter and the office of the Vice President of Student Services.

### ***Honors Program***

509.527.4212 - 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 participation in Arts and Lecture Series Activities. The Honors Program at WWCC is affiliated with Phi Theta Kappa, the national Honor Society for two-year Colleges. 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 • 509.758.1714 - Clarkston

The Walla Walla campus and Clarkston Center libraries offer a comprehensive selection of resources and services. Library staff serves

as your personal guide in effective use of the library and its website for assignments, projects and lifelong learning.

The WWCC Libraries Home Page is the place to begin your research. Here you find a portal to your library account, an online catalog for locating books and media, an entrance to article databases and links to web-based reference materials and 24/7 research assistance. Explore us further at [www.wwcc.edu/library](http://www.wwcc.edu/library).

Obtain and use your WALNet library card to check out books, CDs, DVDs, headphones, laptops, course reserves and to request materials from other libraries. Student/staff identification numbers (S.I.D.) facilitate a connection to library databases off-campus while at work, home or on a trip. Clarkston Center students may also be eligible for a VALNet library card from their local public library and additional services.

Libraries maintain computer workstations and print capabilities for research purposes, space for individual and collaborative study and rooms, carrels for viewing/listening activities and wifi connections for laptops. Borrowing privileges are extended to students and staff from library collections throughout the country with timely courier service for books and DVDs and electronic delivery of articles to your email account.

During the academic year, we are open extended evening and weekend hours. Hours will vary when classes are not in session, during breaks and in the summer. Please call or check our website for the most current schedule.

### ***Multicultural Services***

509.527.4300 - Walla Walla

WWCC is committed to helping ALL students succeed. Multicultural Services offers support that enhances student academic and cultural skills and provides student advising, mentoring, and leadership training. The goal of Multicultural Services is to help students and staff develop diversity awareness and learn to appreciate and accept all cultures on campus.

### ***Opportunity Grant***

509.527.4373 - Walla Walla • 509.758.1721 - Clarkston

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.

### ***Publications***

509.527.4261 - Walla Walla • 509.758.1718 - Clarkston

The Walla Walla Campus ASB produces a weekly publication, The Warrior Weekly, featuring student news, events, and ads. 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 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.

**For the most current information see: [www.wwcc.edu](http://www.wwcc.edu)**



## ***STUDENT PROGRAMS, SERVICES AND RESOURCES***

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### ***Student Development Center***

509.527.4262 - Walla Walla • 509.758.1718 - Clarkston

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***

Placement testing: Degree seeking students are required to take a placement assessment prior to registering for classes. Assessment is a tool that identifies the student's current skill levels in math, reading and writing. Students must have applied for admission to the college, and have a student identification number prior to taking the placement test. This assessment is not a pass or fail test. The "score" on assessment simply indicates the appropriate starting point for each student enrolling in core subjects.

In addition, testing staff provide services for both WWCC students and off-campus students enrolled in Distance Learning and/or Telecourses. A lab is available for students needing to take make-up exams and accommodates special testing needs. Testing is available during open lab hours or by appointment. Current testing hours are found on the WWCC website or at the Student Development Center.

GED Test Administration: Walla Walla Community College is an official GED (General Educational Development) test center in Walla Walla and Clarkston. The GED testing service is available in English and Spanish to persons 19 years and older or to persons 16 to 18 years who are released by their local high schools. After passing the GED test, the student receives a certificate from the State of Washington. Acquiring a certificate shows that the person has knowledge in the tested areas. The GED service is administered by the testing staff of the Student Development Center at 509.527.4267 in Walla Walla or at 509.758.1707 in Clarkston. Individuals must pay the GED testing fee prior to taking the exam.

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

Students planning to transfer to colleges and universities should make an appointment to meet with a transfer advisor. 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 by providing academic support 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. Students must also be degree seeking with plans to transfer to a 4 year university.

### ***TRIO/Educational Talent Search (ETS)***

509.524.5157 - Walla Walla • 509.758.1721 - Clarkston

The ETS program is a federal grant program that provides academic, career, and financial advising to its participants from area middle schools and high schools. The program encourages students to graduate from high school and continue on to the postsecondary school of their choice.

### ***Tutoring Services***

509.524.5181 - Walla Walla • 509.758.3339 - Clarkston

Students who need assistance with Math, Science or Writing may drop in to meet with a member of the tutoring staff at either the Center for Academic Success (CAS) in Walla Walla or the Math and Science Center in Clarkston. Online tutoring is also available.

Bilingual Language Assistance Program: This program offers individualized instructional support and tutoring in a variety of subjects for second language learners. 509.527.4304 - Walla Walla.

### ***Veteran's Affairs Office***

509.527.1864 - Walla Walla • 509.758.1718 - Clarkston

This office provides assistance to individuals with entitlement to VA Education Benefits. Located in the Student Development Center, staff can be reached by phone or by email at [doreen.kennedy@wwcc.edu](mailto:doreen.kennedy@wwcc.edu). Please see the Veteran's Affairs Office for information regarding benefits and application procedures. For questions regarding veteran tuition discounts, please see the Office of Admissions and Records (OAR).

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



## ***STUDENT PROGRAMS, SERVICES AND RESOURCES***

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### ***Women's Center***

509.527.4554 - Walla Walla

The Women's Center, located between the Main Building and the Dome, provides support and referral services to all students at WWCC. The Center addresses the obstacles and needs of individuals with personal, professional, and/or educational barriers. As a place of retreat and support, students are welcome to participate in any activities, share ideas & thoughts as well as be a part of the Women's Center Club. Community service/AmeriCorps SIS program information and coordination is based within the Women's Center.

### ***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

### ***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.



# 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 eleven Centers of Excellence in the state designed to build and sustain Washington's competitive advantage, [www.agcenterofexcellence.com](http://www.agcenterofexcellence.com).

### ***Center for Business and Professional Development***

The Center for Business and Professional Development provides quality education and training opportunities 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, video conferences, and online courses.

A local advisory board helps determine the needs and wishes of the community, suggests programs, and promotes and helps implement them.

### ***Community Education and Lifelong Learning***

The Office of Community Education and Lifelong Learning provides a wide range of educational opportunities for lifelong learners from 9 to 90. Community Education classes, Kids College, seniors' programming, including Quest: An Institute for Learning in the Third Age, are all developed in this office. Most of the programs are not for credit and many are student supported and not funded by the State. Courses may be offered upon request if there is sufficient demand for them. In addition to taking senior specific programming, adults 60+ years old can audit regular academic classes for reduced tuition. For additional information call 509.527.4329 in Walla Walla and 509.758.1756 in Clarkston.

### ***Foundation***

The Walla Walla Community College Foundation, chartered in 1982, exists to support the rigor and relevancy of the College. Through generous contributions from individuals and businesses, the Foundation has the privilege of distributing hundreds of thousands of dollars in scholarship assistance to deserving students. It also plays a formidable role in raising resources to build buildings, equip facilities, and enhance the learning laboratory at Walla Walla Community College.

### ***The Institute for Enology and Viticulture***

The Institute is dedicated to premium wine education and training and includes a teaching winery and vineyard. The Institute was started in January 2000. The teaching winery located on the Walla Walla campus includes: a Hospitality Training Center, a certified wine laboratory, classrooms, and a full-production winery. The teaching vineyards are located both on campus and at the Port of Walla Walla and include a certified nursery and several acres of wine grape varieties that support the Institute's wine production program. In addition, it is a demonstration vineyard that includes a variety of water-application systems, trellising systems, and a wind machine.

The Institute for Enology and Viticulture offers courses with internships that lead to both a one-year Certificate and Associate in Applied Arts and Sciences degree in Enology and Viticulture. Courses are also tailored to meet the specific needs of the wine industry with special emphasis given to Washington grape varieties and wines. Flexibility of the courses allows for seasonal instruction, short courses, and seminars. The Institute also offers courses in sensory evaluation, wine appreciation, consumer education, wine marketing, and hospitality training. For current information, interested students should contact: 509.524.5170; fax 509.522.9895.

### ***William A. Grant Water & Environmental Center (WEC)***

The William A. Grant Water and Environmental Center (WEC) is a unique community and college facility whose mission is to: Provide a welcoming and supportive place where people with diverse interests and values can learn, share knowledge and work together to create a healthy and sustainable natural environment that enhances the economic well-being of our region.

Since its formation in 2007, the WEC has worked to bring Walla Walla Basin stakeholders together in a common goal and vision centered around our mission. The WEC serves and supports the efforts of stakeholders to resolve complex water and environmental issues and concerns while also serving as a place of learning and stewardship for community members and college students. The work we perform is multidimensional in approach and responsive to the emerging natural resource and outreach needs of the Walla Walla Basin.







# **ADDITIONAL EDUCATIONAL OPPORTUNITIES**







## ADDITIONAL EDUCATIONAL OPPORTUNITIES

### 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

#### Business Administration/Office Technology

Degrees leading to careers in the following areas: accounting technology, bookkeeper, office assistant, and legal, medical, executive, and financial administrative assistants.

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

#### Early Childhood and Educational Support

Classes are provided with parents and children learning together. Options include a 45-credit certificate in Child and Family Services and Associate in Arts Degree with emphasis in Early Childhood. The program prepares students for employment in preschool, primary and secondary school settings in paraprofessional and teacher aide roles. Forty-five credit certificate AA and AAAS Degree options are available.

#### 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

509.758.1706 – 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

509.758.1711 - 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.

#### 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.



## ***ADDITIONAL EDUCATIONAL OPPORTUNITIES***

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### ***Transitional Studies***

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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.

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 and writing placement. Current college tuition rates apply.

#### ***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 have permission from the last high school they attended). These courses are designed to upgrade basic skills in reading, writing, math, science, and social studies to the eighth grade level. Students are pre-assessed using CASAS prior to entering the program in order to determine placement level. Instruction is delivered in lectures, lab settings, grouped courses, or via computers. Cost is \$25.

#### ***High School Completion***

509.527.4685 – Walla Walla

Walla Walla Community College is authorized by the State of Washington to grant the Adult High School Diploma to qualified applicants 19 years or older. Persons wanting this credential should provide the Student Development Center with records of past education and work experience. The student must be 19 years of age or older, or if between the ages of 16 to 18, must have a release signed by the local high school. Upon successful completion, the student will receive a Certificate of Educational Competence (High School Diploma). Students 19 and over are eligible for a reduced tuition.

#### ***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 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. Classes are \$25. Testing fees are \$15 per test.

#### ***English as a Second Language***

Courses in English as a second language are offered to non-native English-speaking students. Instruction is designed to help students acquire skills in understanding, speaking, reading, and writing English needed to fully engage in all aspects of life and work. Students are assessed using CASAS at entry and placed at one of the five levels consistent with English Fluency. Progress is determined individually using CASAS post assessments. Classes are \$25.

#### ***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 certificate in a high-demand career. Students are assessed at entry using CASAS to determine qualification based on a minimum reading and math score. Ongoing pre and post CASAS assessment is required.

### ***Health Care Bridge Program***

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509.527.4462 – Walla Walla

The Health Care Bridge Program strives to recruit and retain bilingual, limited English proficiency, or students with limited basic education skills who desire to attain a degree or certification in health care and public safety professions. Upon entrance to this program, students will receive advising on goal-setting and acquiring funding sources to complete a degree offered in Health Sciences Division.

### ***High School Programs***

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#### ***Alternative Education Program***

509.527.4324 or 509.527.4687 - 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 20 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 can directly inquire about AEP. The program, which is a joint venture 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 WWCC COMPASS placement test prior to meeting with the Director of High School Programs.

#### ***High School Completion Program***

509.527.4304 or 509.527.4348 - Walla Walla • 509.758.1708 - Clarkston

The Adult High School Completion program 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 WWCC COMPASS placement test prior to meeting with an advisor. Washington residents who are 19 years old or older pay a reduced tuition which is available in the fee schedule. Non-residents are eligible for this program, but may be subject to paying out-of-state tuition rates.



## ***ADDITIONAL EDUCATIONAL OPPORTUNITIES***

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### ***Running Start Program***

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 academically qualified 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 fees to the college based on their course load 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 and pay the associated fees for application, registration, and transcription.







# DEGREES







## **Degrees**

Each degree includes area 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 (MRPDTA)].

## **Academic Transfer Information**

Walla Walla Community College offers course in most academic areas. Transfer students, by earning an Associate in Arts (AA) Degree or Associate in Science (AS) Degree, can satisfy general university requirements normally taken during the freshman and sophomore years. With the assistance of an academic advisor, students can also organize their studies to satisfy the lower-division requirements of most college majors. Earning the AA or AS Degree prepares most students to transfer with junior standing to all public and most private baccalaureate institutions in Washington State. However, programs or departments within a college or university may have special requirements for lower division students; it is best to consult the transfer institution's catalog to determine these requirements. The AS Degree will serve those students intending to complete the required coursework for pre-professional programs at selected baccalaureate institutions.

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.

### **Transfer to Four-Year College or University**

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.

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.

### **Student's Right in The Transfer Process**

The Higher Education Coordinating Board for the State of Washington has published a "Policy on Intercollege Transfer and Articulation Among Washington Public Colleges and Universities," which spells out the student's rights in the transfer process.

This policy states, in part, "Students have the right to expect fair treatment from the public colleges and universities of Washington, both sending and receiving institutions. They have, in turn, the responsibility of seeking out current information pertaining to their educational objectives and for acquiring appropriate information when they change their academic plans. When a student changes a major or degree program, the student shall assume full responsibility for meeting the new requirements. Colleges shall make every effort to help students make transitions as smoothly as is feasible."

## **Pre-Professional Associate Degrees**

In some cases, the direct transfer AA Degree is not the most appropriate transfer plan. Students who wish to design their transfer program to a specific department within a baccalaureate institution might find it useful to work with advisors at both the community college and the university to assure that general and special departmental requirements and prerequisites are met prior to transfer. Please consult your advisor or the Transfer Center located in the Student Development Center on the Walla Walla campus or Student Services at the Clarkston 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.

## **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), 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.

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.

## **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, 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.

## **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 .....	[S]



## 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
<b>Associate in Arts—DTA*</b>	This degree is designed to transfer to bachelor's of arts degrees at Washington public four-year institutions. This degree is appropriate for students planning to major in the arts, humanities and social sciences.	90
<b>Associate in Arts—DTA* (Emphasis in Agriculture)</b>	WWCC has articulated many associate in arts degrees with an emphasis in agriculture with both Washington State University and the University of Idaho.	90+
<b>Assoc. in Arts—DTA* (Emphasis in Criminal Justice)</b>	This degree is designed for students transferring to a four-year institution to major in criminal justice/justice studies.	90
<b>Associate in Business—DTA/MRP**</b>	This degree is designed for students transferring to a four-year institution to major in business.	93 or more
<b>Associate in Science—Option I</b>	This degree is designed for students majoring in biological sciences, chemistry, geology or environmental/resource sciences & earth science.	90
<b>Associate in Science—Option II</b>	This degree is designed for students majoring in engineering, computer science, physics & atmospheric sciences.	90
<b>Associate in Elementary Education— DTA/MRP</b>	This Associate degree is designed for students transferring to a four-year institution to major in elementary education.	93
<b>Associate in Math Education—DTA/MRP</b>	This Associate degree is for students planning to major in secondary math education at a baccalaureate institution.	90
<b>Associate in Applied Science— Early Childhood Education</b>	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
<b>Associate in Biology—DTA/MRP**</b>	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
<b>Associate in Secondary Education Earth &amp; Space Science—DTA/MRP**</b>	This Associate degree is for students planning to earn teacher certification in Earth and Space Science at the secondary level.	90-100

\*DTA stands for Direct Transfer Agreement

\*\*MRP stands for Major Related Program



## DEGREES

### DIVERSITY [D]:

**5 credits, must be [D] designated. This is met through the following distribution areas and does not increase the # of credits required for the degree. (Effective: Fall 2010)**

HPER 268 is a [D] elective.

### COMMUNICATIONS [C]:

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

#### ENGLISH I

ENGL& 101 English Composition I 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 minimum of 15 credits from three different subject areas including one literature course. 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.**

#### ART

ART& 100 Art Appreciation 5

ART 124\* Women in Art 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 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 245 American Literature 5

ENGL 250 Literature of American Immigration 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 260 Modern Hispanic/Latino Literature 5

ENGL 265 [D] World Literature 5

ENGL 270 Detective & Spy Novels 3

ENGL 271 Science Fiction & Fantasy Literature 5

ENGL 272 Medicine & Literature 3

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 Percep. 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

HUM 201 Latino Arts & Culture I 3

HUM 202 Latino Arts & Culture II 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.

#### 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

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 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 in Art History 5

WST 251 \*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.**

#### 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

### PHYSICAL ED [PE]:

**Three (3) unduplicated activity classes required. Waived for military service and by physician recommendation only. A maximum of six (6) physical education activity credits will be counted toward the AA Degree.**

ACTIVITY CLASSES HPER and DANCE 100-199

### ELECTIVES: 24 credits

**Other college-level courses, of which a maximum of 15 credits 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.**

**9 CREDITS (FULLY TRANSFERABLE)**

**15 CREDITS (COLLEGE-LEVEL)**

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



# DEGREES

**ENGLISH**  
 \_\_\_\_\_ ABE  
 \_\_\_\_\_ 77  
 \_\_\_\_\_ 87  
 \_\_\_\_\_ 97

**COMPASS**  
**Placement:**

**READING**  
 \_\_\_\_\_ ABE  
 \_\_\_\_\_ 78  
 \_\_\_\_\_ 88  
 \_\_\_\_\_ 98

**COMPASS**  
**Placement:**

**MATH**  
 \_\_\_\_\_ ABE  
 \_\_\_\_\_ 49  
 \_\_\_\_\_ 50  
 \_\_\_\_\_ 65  
 \_\_\_\_\_ 95

**COMPASS**  
**Placement:**

## NATURAL SCIENCE [NS]:

**A minimum of 15 credits from two different subject areas, including one lab science. No more than 5 credits in mathematics allowed. No more than 10 credits allowed from any one subject area.**

### AGRICULTURE

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

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

### ANATOMY & PHYSIOLOGY

BIOL& 251 Human A & P I 5  
 BIOL& 252 Human A & P II 5  
 BIOL& 253 Human A & P 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 5 (non lab)

### NUTRITION

NUTR& 101 Nutrition 5 (non lab)

### OCEANOGRAPHY

OCEA& 101 Intro to Oceanography 5

### PHYSICS

PHYS 110 Conceptual Physics 5  
 PHYS 121 College Physics I 5  
 PHYS 122 College Physics II 5  
 PHYS 123 College Physics III 5  
 PHYS 201 Physics for Science & Eng I 5  
 PHYS 202 Physics for Science & Eng II 5  
 PHYS 203 Physics for Science & Eng 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

### 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& 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& 110 Chemical Concepts 5  
 CHEM& 121 Intro to Chemistry 5  
 CHEM& 122 Intro to Organic Chemistry 5  
 CHEM& 123 Intro to Biochemistry 5

### 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

## SOCIAL SCIENCE [S]:

**A minimum of 15 credits from three different subject areas, including one course from anthropology or psychology or sociology or history. No more than 10 credits allowed from any one subject area.**

### 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 Environ. 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 [D] \*Women in US History 5  
 HIST 240 Western Minority History 5  
 HIST 250 [D] 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 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 219 Health Psychology 5  
 PSYC&220 Abnormal Psychology 5  
 PSYC 224 Environmental Psychology 5

### SOCIOLOGY

SOC& 101 Intro to Sociology 5  
 SOC& 201 Social Problems 5  
 SOC 204 Drugs and Society 5  
 SOC 205 [D] Racial/Ethnic Relations 5  
 SOC 206 [D] Soc Gerontology & Aging Rev 5  
 SOC 208 [D] Soc of Intim & Fam Relations 5  
 SOC 209 Intro to Neighborhood Dev 3  
 SOC 210 Contemporary Social Issues 5  
 SOC 215 Diversity Viewpoints 5  
 SOC 220 [D] \*Gender & Society 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

## \*EQUIVALENT CROSS-LISTED COURSES:

**Students may receive credit for only one of the cross-listed courses in each of the following pairs:**

AGRI 222 or POLS 222  
 HIST 120 or POLS 120  
 HIST 211 or POLS 211

HIST 212 or POLS 212  
 HIST& 215 or WST 215  
 WST 113 or PSYC 113

WST 121 or BIOL 121  
 WST 124 or ART 124  
 WST 139 or PSYC 139

WST 220 or SOC 220  
 WST 251 or ENGL 251





## AS: Associate in Science, Option I

Biological Sciences, Environmental/Resource Sciences, Chemistry, Geology, and Earth Science  
Effective Fall 2009

**Credits  
Required:  
90**

### PRE-MAJOR PROGRAM [NS]:

**Thirty (30) Credits**

Sequences should not be broken up between institutions.

#### Chemistry Sequence

(for Science Majors)

**Fifteen (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)

**Fifteen (15) credits. Choose one of the following sequences:**

#### BIOLOGY

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

**OR**

#### PHYSICS

PHYS 121 College Physics I 5  
PHYS 122 College Physics II 5  
PHYS 123 College Physics III 5

**OR**

#### PHYSICS

PHYS 201 Physics for Sci & Eng I 5  
PHYS 202 Physics for Sci & Eng II 5  
PHYS 203 Physics for Sci & Eng III 5

#### Natural Science

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 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

#### OCEANOGRAPHY

OCEA& 101 Intro to Oceanography 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)

#### PHYSICS

PHYS 110 Conceptual Physics 5  
PHYS 121 College Physics I 5  
PHYS 122 College Physics II 5  
PHYS 123 College Physics III 5  
PHYS 201 Physics for Science & Eng I 5  
PHYS 202 Physics for Science & Eng II 5  
PHYS 203 Physics for Science & Eng 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:

**9 credits**

The remaining nine (9) 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. Four (4) 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.

### PHYSICAL ED [PE]:

**Three (3) unduplicated activity classes required. Waived for military service and by physician recommendation only. A maximum of six (6) physical education activity credits will be counted toward the AS Degree.**

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. A cumulative GPA of 2.0 or higher is required for successful completion of this degree.

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](http://www.wvcc.edu/programs)

Revised 06/10



## COMMUNICATIONS [C]:

**At least 8 credits, including one course from each of the two subject areas. Minimum 5 credits in English I & II area.**

### ENGLISH I & II

ENGL& 101 English Composition I 5  
ENGL& 102 English Composition II 5

### Communication Studies

CMST 102 Interpersonal Communication 3  
CMST 105 Oral Interpretation 3  
CMST 201 Intercultural Communication 5  
CMST& 220 Public Speaking 5

## HUMANITIES & SOCIAL SCIENCES

**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 in Art 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 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 245 American Literature 5  
ENGL 250 Literature of American Immigration 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 260 Modern Hispanic/Latino Literature 5  
ENGL 265 World Literature 5  
ENGL 270 Detective & Spy Novels 3  
ENGL 271 Science Fiction & Fantasy Literature 5  
ENGL 272 Medicine & 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  
HUM 201 Latino Arts & Culture I 3  
HUM 202 Latino Arts & Culture II 3

### 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 Practices 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 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 in Art 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 240 Western Minority 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 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 219 Health Psychology 5  
PSYC& 220 Abnormal Psychology 5  
PSYC 224 Environmental Psychology 5

### SOCIOLOGY

SOC& 101 Intro to Sociology 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 209 Intro to Neighborhood Dev 3  
SOC 210 Contemporary Social Issues 5  
SOC 215 Diversity Viewpoints 5  
SOC 220 \*Gender & Society 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: Associate in Science, Option II

### Engineering, Computer Science, Physics & Atmospheric Sciences

Effective Fall 2009

**Credits  
Required:  
90**

### PRE-MAJOR PROGRAM [NS]:

Twenty (20) Credits

#### Physics Sequence

**Fifteen (15) credits. Sequence should not be broken up between institutions.**

#### PHYSICS

PHYS 121	College Physics I	5	<b>OR</b>	PHYS 201	Physics for Sci & Eng I	5
PHYS 122	College Physics II	5		PHYS 202	Physics for Sci & Eng II	5
PHYS 123	College Physics III	5		PHYS 203	Physics for Sci & Eng 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.**

#### Natural Science

#### 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& 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
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#### 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)
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#### OCEANOGRAPHY

OCEA& 101	Intro to Oceanography	5
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#### PHYSICS

PHYS 110	Conceptual Physics	5
PHYS 121	College Physics I	5
PHYS 122	College Physics II	5
PHYS 123	College Physics III	5
PHYS 201	Physics for Science & Eng I	5
PHYS 202	Physics for Science & Eng II	5
PHYS 203	Physics for Science & Eng III	5

#### WOMEN'S STUDIES

WST 121	*Biology of Women	3 (non lab)
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### QUANTITATIVE SKILLS [Q]:

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

#### MATH

MATH& 151	Calculus I	5	MATH 201	Intro to Statistics	5	MATH& 254	Calculus IV	5
MATH& 152	Calculus II	5	MATH 220	Linear Algebra	5			
MATH& 153	Calculus III	5	MATH 238	Differential Equations	5			

### ELECTIVES: 29 credits

**The remaining twenty-nine (29) 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, 24 of the 29 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.**

### PHYSICAL ED [PE]:

**Three (3) unduplicated activity classes required. Waived for military service and by physician recommendation only. A maximum of six (6) physical education activity credits will be counted toward the AS Degree.**

**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. A cumulative GPA of 2.0 or higher is required for successful completion of this degree.

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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For the most current information see: [www.wbcc.edu/programs](http://www.wbcc.edu/programs)

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## COMMUNICATIONS [C]: At least 8 credits, including one course from each of the two subject areas. Minimum 5 credits in English I & II area.

### ENGLISH I & II

ENGL& 101 English Composition I 5  
ENGL& 102 English Composition II 5

### Communication Studies

CMST 102 Interpersonal Communication 3  
CMST 105 Oral Interpretation 3  
CMST 201 Intercultural Communication 5  
CMST& 220 Public Speaking 5

## HUMANITIES & SOCIAL SCIENCES

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 in Art 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 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 245 American Literature 5  
ENGL 250 Literature of American Immigration 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 260 Modern Hispanic/Latino Literature 5  
ENGL 265 World Literature 5  
ENGL 270 Detective & Spy Novels 3  
ENGL 271 Science Fiction & Fantasy Literature 5  
ENGL 272 Medicine & Literature 3

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  
HUM 201 Latino Arts & Culture I 3  
HUM 202 Latino Arts & Culture II 3

### 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 Practices 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 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 in Art 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 240 Western Minority 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 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 219 Health Psychology 5  
PSYC& 220 Abnormal Psychology 5  
PSYC 224 Environmental Psychology 5

### SOCIOLOGY

SOC& 101 Intro to Sociology 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 209 Intro to Neighborhood Dev 3  
SOC 210 Contemporary Social Issues 5  
SOC 215 Diversity Viewpoints 5  
SOC 220\*Gender & Society 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

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## DEGREES

### Associate in Business – DTA/MRP

This transfer agreement ensures that a student who completes an Associate in Business – DTA degree will have satisfied the lower division general education (or core) requirements and lower division business requirements at the Washington public baccalaureate institutions, subject to the provisos listed in the ICRC Handbook. Students must earn a cumulative grade point average of at least a 2.0. In addition, students must earn a “C” or above in all courses marked with an asterisk (\*). Please note that admission for many business schools is competitive, and higher GPA’s and course grades are often required. It is strongly recommended that students contact the baccalaureate-granting Business School early in their Associate in Business-DTA program to be advised about additional requirements (e.g. GPA) and procedures for admission.

#### Communication Skills (13-15 credits)

* ENGL&	101	(5)	
* ENGL&	102	(5)	
CMST&	220 or	(5)	For CWU or WSU, choose CMST& 220.
CMST	102, 201	(3, 5)	

#### Quantitative Skills (10 credits)

(Intermediate Algebra proficiency must be demonstrated.)

* MATH	115	(5)
* MATH&	148	(5)

#### Humanities (15 credits)

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

***A minimum of 15 credits from three different subject areas including one literature course. 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.***

Foreign language may be required for international business majors and is required for admission to UW.

#### Social Sciences (15 credits)

* ECON&	201	(5)	
* ECON&	202	(5)	
Additional Soc. Sci.		(5)	For WSU, choose PSYC& 100 or SOC& 101 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)		For WWU, Manufacturing Management requires specific science courses for admission to the major.
Science	(5)	For WWU, Manufacturing Management requires specific science courses for admission to the major.
* MATH 201	(5)	

#### Business Specific Courses (20 credits)

* ACCT&	201	(5)
* ACCT&	202	(5)
* ACCT&	203	(5)
* BUS&	201	(5)

#### General Electives (5 credits)

Recommended:

BUS&	101	(5)	
CS	115	(5)	Required by WSU.
CS	110	(5)	Required by WSU. Recommended by CWU.
Foreign Language		(5)	Foreign language may be required for international business majors and is required for admission to UW.
POLS		(5)	WSU requires a POLS course to meet graduation requirements.

Other electives can include preparation for a business major.

**Total 93-95 credits**



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**Associate in Biology – DTA/MRP**

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This degree is applicable to students planning to prepare for upper division Bachelor's degree majors in Biology. Students must earn 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. 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.

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**Communication Skills (15 credits)**

* ENGL&	101	(5)
* ENGL&	102	(5)
* CMST&	220 or	(5)
CMST	201	

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**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)
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**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.

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**Social Sciences (15 credits)**

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

A minimum of 15 credits from three different subject areas, including one course from anthropology or psychology or sociology or history. No more than 10 credits allowed from any one subject area.

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**Natural Sciences (30 credits)**

* BIOL& 211, 212, 213	(15)
* CHEM& 161, 162, 163	(15)

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**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.

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 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 coursed required for this degree. Please note that minimum grade point averages (GPAs) are established by each institution and higher GPAs 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.

#### Communication Skills (15 credits)

ENGL&	101	(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) |
|     | Recommended:             | ENGL 149                     |     |
| (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           | (5) |
| (d) | ECON& | 201, 202 or   | (5) |
|     | ECON  | 200 or        |     |
|     | POLS& | 202 or        |     |
|     | GEOG  | 201           |     |

#### Natural Sciences (15 credits)

Choose 1 from each area:

- |     |       |                       |     |     |       |                                      |     |
|-----|-------|-----------------------|-----|-----|-------|--------------------------------------|-----|
| (a) | BIOL& | 100, 175 or           | (5) | (c) | CHEM& | 110, 121, 122, 123, 161, 162, 163 or | (5) |
|     | BIOL  | 130                   |     |     | PHYS  | 110, 121, 122, 123, 201, 202, 203    |     |
| (b) | ASTR& | 110 or                | (5) |     |       |                                      |     |
|     | ASTR  | 115, 120 or           |     |     |       |                                      |     |
|     | ENVS& | 101 or                |     |     |       |                                      |     |
|     | GEOG  | 105, 170, 210, 211 or |     |     |       |                                      |     |
|     | GEOL& | 101, 103, 110, 208 or |     |     |       |                                      |     |
|     | GEOL  | 115, 130 or           |     |     |       |                                      |     |
|     | OCEA& | 101                   |     |     |       |                                      |     |

#### Gender/Culture (5 credits)

CMST	201	HIST	250	PSYC	113	SOC	206	WST	139
ENGL	210	HPER	268	PSYC	139	SOC	208	WST	200
ENGL	251	HUM	110	PSYC	205	SOC	215	WST	215
ENGL	265	HUM	201, 202	SOC&	101	SOC	220	WST	220
HIST&	215	MUSC&	105	SOC	205	WST	113		

#### Education Core (8 credits)

EDUC&	202	(5)
ED	111	(3)

#### Electives (5 credits)

##### Recommended

- |       |                                 |     |
|-------|---------------------------------|-----|
| CS    | 100, 105, 110                   | (5) |
| ED    | 137,                            | (5) |
|       | 231, 232, 236, 255, 261, 265 or |     |
| EDUC& | 203                             |     |

*Note: WSU requires a fourth science.*

**Total 93 credits**

For the most current information see: [www.wvcc.edu](http://www.wvcc.edu)



## 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: 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.

#### Communication Skills (15 credits)

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

#### Quantitative Skills (5 credits)

##### Choose One:

MATH&	107 <i>or</i>	(5)
MATH	115 <i>or</i>	(5)
MATH&	141 <i>or</i>	(5)
MATH&	148 <i>or</i>	(5)
MATH&	151 <i>or</i>	(5)
MATH	201 <i>or</i>	(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 <i>or</i>	(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.

#### 54 Credits:

##### Required Courses: (33 Credits)

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&	114	(3)	Child Development
EDUC&	203	(3)	Exceptional Children

##### Elective Courses: (choose 21 additional credits)

ECE	136	(3)	Environments for Young Children
ECE	160	(3)	Instructional Strategies Special Needs Children
ECE	219	(3)	Child, Family & Community Relationships
ECE	232	(4)	Literature and Art for Young Children
ECE	236	(4)	Music & Movement for Young Children
ECE	240	(3)	Programs for Infants & Toddlers
ECE	242	(3)	Growth, Development & Guidance for School Aged
ECE	255	(3)	Children at Risk
ECE	265	(3)	Instructional Strategies for ESL
ECE	275	(3)	Administration of Early Learning Programs

**Total 94 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 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.

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#### Communication Skills (15 credits)

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

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#### 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)

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#### 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.

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#### Social Sciences (15 credits)

A minimum of 15 credits from two different subject areas, including PSYC& 100.

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

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

#### 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.

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#### Diversity

5 credits, must be [D] designated. This is met through the distribution areas and does not increase the # of credits required for the degree. (Effective: Fall 2010) See web for updated list of diversity courses.

CMST	201	PSYC	205
ENGL	210	SOC	205
ENGL	251	SOC	206
ENGL	265	SOC	208
HIST&	215	SOC	220
HIST	250	WST	113
HPER	268	WST	200
HUM	110	WST	215
MUSC&	105	WST	220
PSYC	113		

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#### Education Core (8 credits)

EDUC&	202	(5)
ED	111	(3)

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#### 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. Recommendations include MATH 201 and MATH 238.

**Total 90 credits**



## DEGREES

### Associate in Secondary Education Earth and Space Science – DTA/MRP

This DTA agreement is the best preparation for a student planning transfer to PLU, EWU, CWU, WWU for a BA in Geology/Earth Space Science with a clear career goal for teacher certification in Earth and Space Science Education and for students planning to transfer to the BS in General Science and teacher certification in Earth and Space Science at WSU.

Students considering BS in Geology/Earth and Space Science with a possible interest in teacher certification should follow the AS-Option I degree.

Students must earn a "C" or above in all courses required for this degree. Please note that minimum grade point averages (GPAs) are established by each institution and higher GPAs are often required. Meeting the minimum requirements for this degree does not guarantee admission to the transfer institution. It is strongly recommended that students contact the baccalaureate granting education school early in their program to be advised about additional graduation requirements and procedures for admission.

#### Communication Skills (15 credits)

* ENGL&	101	(5)
* ENGL&	102	(5)
* CMST&	220	(5)

#### Quantitative Skills (10 credits)

Intermediate Algebra Proficiency must be demonstrated.

* MATH&	142	(5)
* MATH	201	(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.

#### Social Sciences (15 credits)

A minimum of 15 credits from two different subject areas, including PSYC& 100.

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

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

#### Natural Sciences (30-40 credits\*)

GEOL& 101	(5)	
GEOL& 103	(5)	
CHEM& 161, 162	(10)	[CHEM& 163 (5) – if required*]
PHYS 121, 122 or	(10)	[PHYS 123 or 203 (5) – if required*]
PHYS 201, 202	(10)	

\*CWU, EWU, WWU, and PLU require 30 credits. WSU requires 40 credits due to the requirement of a full year sequence in both General Chemistry and Physics (15 credits in each, not 10 credits). Students heading to WSU should be advised to consider completing full year sequences rather than transfer in the middle of the sequences.

#### Electives (10 credits)

Recommended additional courses in astronomy, oceanography or meteorology (related to endorsement competency requirements).

The baccalaureate institutions will accept 5 quarter credits of EDUC& 202 Intro to Education.

A maximum of 5 credits in college-level courses typically not regarded as transferable is allowed in the elective category. All other electives must be fully transferable as defined by the receiving institution.

**Total 90-100 credits**



- 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.

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

ENGL 097 .....	Expository Writing
ENGL& 101 .....	English Composition
BUS 137 .....	Business Communications
WRITE 100 .....	Applied Writing
WRITE 110 .....	Technical Writing

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

BUS 112 .....	Business Mathematics
CUL 107 .....	Culinary Measurements and Calculations
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

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

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

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



### ***Certificates and Endorsements***

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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.

### ***Professional-Technical Information***

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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.







# AREAS OF STUDY







## Related Instruction

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

## Accounting Technology

AAAS, CERT

<http://www.c.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.

**Mission:** Because we believe the most critical factor of success is confidence, we make every effort to foster self-esteem throughout the department, empowering students to perform successfully in business-related careers and/or at the baccalaureate level.

### 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.

### Career Opportunities:

- Tax Preparer
- Bookkeeper
- Payroll Preparer
- Accounting Manager
- Internal Auditor
- Government Accountant
- Government Auditor

## Degrees

### Associate in Applied Arts and Sciences

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.



# ACCOUNTING

- 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, Prin of Accounting I .....	5
BUS 112, Business Mathematics (M) .....	5
BUS& 101, Intro to Business .....	5
CMST& 220, Public Speaking (O) .....	5
<b>Total Credits .....</b>	<b>20</b>
Quarter Two	Credits
ACCT& 202, Prin 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
<b>Total Credits .....</b>	<b>20</b>
Quarter Three	Credits
ACCT& 203, Prin of Accounting III .....	5
BUS 137, Business Communications II (W) .....	5
BUS 217, Computer Software Applications .....	5
OT 218, Desktop Calculator .....	5
<b>Total Credits .....</b>	<b>20</b>
<b>Year One Total .....</b>	<b>60</b>

## 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
<b>Total Credits .....</b>	<b>20-23</b>
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
<b>Total Credits .....</b>	<b>15-18</b>

## Quarter Three

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
<b>Total Credits .....</b>	<b>15-18</b>
<b>Year Two Total .....</b>	<b>50-59</b>
<b>Grand Total .....</b>	<b>110-119</b>

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

## Certificates

### Bookkeeping Certificate

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

**Degree available at/via: [Walla Walla] [Clarkston]**

#### Degree 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.



## ADULT BASIC ED – AGRI-BUSINESS

### 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
<b>Total Credits .....</b>	<b>20</b>

Quarter Two	Credits
ACCT& 201, Prin 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
<b>Total Credits .....</b>	<b>25</b>

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
<b>Total Credits .....</b>	<b>25-28</b>
<b>Year One Total .....</b>	<b>70-73</b>
<b>Grand Total .....</b>	<b>70-73</b>

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

### Adult Basic Education

<http://wwcc.edu/abe>

Terri Trick 509.527.4348 [terri.trick@wwcc.edu](mailto:terri.trick@wwcc.edu)  
Janet Danley- Clk 509.758.1703 [janet.danley@wwcc.edu](mailto: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.

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

### Agri-Business

AA, AAAS, CERT

<http://wwcc.edu/agbusiness>

Debora Frazier 509.527.4689 [debbie.frazier@wwcc.edu](mailto: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.

**Mission:** Inspiring students to reach their fullest potential in terminal, transfer, and job-related courses of study.

**Program Level Outcomes:**

- To market, recruit, and retain students in programs within the division.
- Certify programs using industry skill standards.
- Articulate programs horizontally with other WWCC programs and vertically with four-year universities and regional high schools.

**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.

## Career Opportunities:

- Farm Managers
- Sales Associates
- Commodity Brokers
- Store Managers
- Consultants

## Degrees

### Associate in Arts

#### *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.

## 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
<b>Total Credits .....</b>	<b>21</b>

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

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

## YEAR TWO

Quarter One	Credits
ACCT& 201, Prin of Accounting I .....	5
ECON& 202, Macroeconomics .....	5
Humanities Elective* .....	5
Social Science Elective** .....	5
<b>Total Credits .....</b>	<b>20</b>

Quarter Two	Credits
ACCT& 202, Prin of Accounting II .....	5
Agriculture Elective* .....	5
Humanities Elective* .....	5
MATH 201, Introduction to Statistics .....	5
<b>Total Credits .....</b>	<b>20</b>

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

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.



# AGRI-BUSINESS – AGRICULTURE SCIENCE AND TECH.

## Degrees

### Associate in Applied Arts and Sciences

#### 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.
- 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.

#### Agri-Business Certificate

Upon completion of the first three quarters students may earn a Agri-Business Certificate. (EPC: 110C).

#### 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
<b>Total Credits .....</b>	<b>19</b>

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
<b>Total Credits .....</b>	<b>18</b>

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
<b>Total Credits .....</b>	<b>16</b>

Quarter Four	Credits
AGRI 192, Cooperative Seminar .....	1
AGRI 191, Cooperative Work Experience .....	10
<b>Total Credits .....</b>	<b>11</b>
<b>Year One Total .....</b>	<b>64</b>

#### 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
<b>Total Credits .....</b>	<b>18</b>

Quarter Two	Credits
Agriculture Elective** .....	5
Animal Science Elective*** .....	5
OCSUP 101, Job Psychology: Workplace and Educational Success Skills (R) .....	3
OCSUP 102, Oral Communication in the Workplace (O) .....	3
<b>Total Credits .....</b>	<b>16</b>

Quarter Three	Credits
AGRI 220, Agricultural Finance * .....	5
AGRI 222, Agricultural Policy .....	5
Crop Science Elective*** .....	5
<b>Total Credits .....</b>	<b>15</b>
<b>Year Two Total .....</b>	<b>49</b>
<b>Grand Total .....</b>	<b>113</b>

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 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

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, WRITE 110

(L) - AGPR 299

(M) - MATH 065

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

(R) - BUS 157, OCSUP 101, PSYC 111, PSYC& 100, WMGT 192, WMGT 292

## Agriculture Science and Technology

AA, AA-DTA, AAAS, CERT

<http://wwcc.edu/agscience>

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Michael Moramarco 509.527.4223 [michael.moramarco@wwcc.edu](mailto:michael.moramarco@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/

For the most current information see: [www.wwcc.edu](http://www.wwcc.edu)



## AGRICULTURE SCIENCE AND TECH.

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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.

**Mission:** Inspiring students to reach their fullest potential in terminal, transfer, and job-related courses of study.

### Program Level Outcomes:

- To market, recruit, and retain students in programs within the division.
- Certify programs using industry skill standards.
- Articulate programs horizontally with other WWCC programs and vertically with four-year universities and regional high schools.

**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.

### Career Opportunities:

- Farm/Ranch Managers
- Sales Representatives
- Agricultural Technicians
- Field Personnel

- Greenhouse/Nursery Personnel

**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 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.

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## Degrees

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### Associate in Applied Arts and Sciences

#### ***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:

- 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 and discuss the management procedures within specific production schemes for each species of farm animal.
- 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.
- 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.



# AGRICULTURE SCIENCE AND TECH.

## Agriculture Science and Technology - Animal Science Certificate

Upon completion of the first three quarters students may earn an Agriculture Science and Technology - Animal Science Certificate. (EPC: 105C).

### 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
<b>Total Credits .....</b>	<b>18</b>

Quarter Two	Credits
AGPR 110, Introduction to Livestock Production .....	5
AGPR 112, Feeds and Feeding .....	5
AGPR 116, Meat Science I .....	5
AGPR 299, Leadership (L) .....	1
<b>Total Credits .....</b>	<b>16</b>

Quarter Three	Credits
AGPR 115, Preventative Veterinary Medical Care .....	5
AGPR 140, Agriculture Safety and Health .....	3
CMST& 220, Public Speaking (O) .....	5
MATH 065, Introductory Algebra (M) .....	5
<b>Total Credits .....</b>	<b>18</b>

Quarter Four	Credits
AGRI 191, Cooperative Work Experience .....	10
<b>Total Credits .....</b>	<b>10</b>
<b>Year One Total .....</b>	<b>62</b>

### YEAR TWO

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

Quarter Two	Credits
AGRI 221, Agricultural Marketing .....	5
Agriculture Elective* .....	5
WRITE 100, Applied Writing (W) .....	3
<b>Total Credits .....</b>	<b>13</b>

Quarter Three	Credits
AGRI 103, Farm and Ranch Business Management .....	5
AGRI 222, Agricultural Policy .....	5
Agriculture Elective* .....	5
OCSUP 101, Job Psychology: Workplace and Educational Success Skills (R) 3	
<b>Total Credits .....</b>	<b>18</b>
<b>Year Two Total .....</b>	<b>46</b>

**Grand Total .....** 108

EPC: 105B

\* Approved Electives for Agri-Science and Technology Degree: Any course with a prefix of AGRI, AGPR, CET, DT, EV, ENVS, PMT, 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, WRITE 110

(L) - AGPR 299

(M) - MATH 065

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

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

## Degrees

### Associate in Applied Arts and Sciences

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 and discuss the management procedures within specific production schemes for each species of farm animal.
- 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.
- 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.

### Agriculture Science and Technology - Plant and Soil Science Certificate

Upon completion of the first three quarters students may earn an Agriculture Science and Technology - Plant and Soil Science Certificate. (EPC: 110E).

### YEAR ONE

Quarter One	Credits
AGPR 100, Orientation to Agriculture (J) .....	3
AGPR 113, Plant Anatomy and Morphology .....	3
AGPR 120, Agricultural Chemistry .....	5
AGPR 299, Leadership (L) .....	1
AGRI 108, Computers in Agriculture .....	5
<b>Total Credits .....</b>	<b>17</b>



# AGRICULTURE SCIENCE AND TECH. – ALLIED HEALTH AND SAFETY

Quarter Two	Credits
AGPR 110, Introduction to Livestock Production .....	5
AGRI 215, Plant Diseases and Insects .....	5
Agriculture Elective* .....	5
MATH 065, Introductory Algebra (M) .....	5
<b>Total Credits .....</b>	<b>20</b>

Quarter Three	Credits
AGPR 105, Weed Biology and Identification .....	5
AGPR 114, Plant Physiology .....	5
AGPR 215, Field Crop Production .....	5
<b>Total Credits .....</b>	<b>15</b>

Quarter Four	Credits
AGRI 191, Cooperative Work Experience .....	10
<b>Total Credits .....</b>	<b>10</b>
<b>Year One Total .....</b>	<b>62</b>

## YEAR TWO

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

Quarter Two	Credits
AGPR 202, Soils Fertility and Management .....	5
AGRI 221, Agricultural Marketing .....	5
CMST& 220, Public Speaking (O) .....	5
WRITE 100, Applied Writing (W) .....	3
<b>Total Credits .....</b>	<b>18</b>

Quarter Three	Credits
AGPR 140, Agriculture Safety and Health .....	3
AGRI 222, Agricultural Policy .....	5
Agriculture Elective* .....	5
OCSUP 101, Job Psychology: Workplace and Educational Success Skills (R) 3	
<b>Total Credits .....</b>	<b>16</b>
<b>Year Two Total .....</b>	<b>49</b>
<b>Grand Total .....</b>	<b>111</b>

EPC: 105A

\* Approved Electives for Agri-Science and Technology Degree: Any course with a prefix of AGRI, AGPR, CET, DT, EV, ENVS, PMT, 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, WRITE 110

(L) - AGPR 299

(M) - MATH 065

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

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

## Allied Health and Safety Education

### CERT

<http://wwcc.edu/alliedhealth>

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**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 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 variety of educational levels and differing learning outcomes that range from obtaining and maintaining job skills, training for new career, and personal growth. Allied Health and Safety Education includes the following programs / courses:

- Alcohol and Chemical Dependency (ALCDA)
- Cardio Pulmonary Resuscitation (CPR)
- Fire Science (FCA)
- Health Occupations (HO)
- Industrial First Aid (IFA)
- Medical Assisting (MEDA)

**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 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. Nursing Assistant, Phlebotomy, EMT-B, and Medical Assisting require a separate application for entry.

**Certificates:** 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
- Phlebotomy (is offered annually)
- Medical Assisting (starts in Fall quarter)
- Spanish Medical Interpreter (starts in Fall quarter - Walla Walla Campus only)
- Chemical Dependency Counseling
- Fire Science (starts in Fall quarter of every even numbered year)
- Distance learning program partnerships in:
  - Medical Laboratory Technology (Wenatchee Valley College)
  - Physical Therapy Assistant (Whatcom Community College)

The following of courses are offered to help students meet necessary state requirements and/or provide enrichment for increased information:

- Phlebotomy Technician course is offered on an annual basis.

For the most current information see: [www.wwcc.edu](http://www.wwcc.edu)



## ALLIED HEALTH AND SAFETY

- Nursing Assistant Program provides training in basic nursing care under state and federal guidelines.
- 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

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 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 the test.

### Certificates

#### Certificate

##### **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 or Spanish in order to obtain the minimum level of oral, written or reading 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 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.

#### **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
<b>Total Credits</b>	<b>12.8</b>

##### **Quarter Two** **Credits**

HO 174, Transcultural Competency for Health Professionals	2
HO 182, Fundamentals of Medical Interpreting II	10
<b>Total Credits</b>	<b>12</b>
<b>Year One Total</b>	<b>24.8</b>
<b>Grand Total</b>	<b>24.8</b>

EPC: 438

*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 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.*

*Students must have their high school diploma or GED before entering the program.*

*\* Waiver of prerequisites for Healthcare Professionals with current credentials.*

*Students must have their high school diploma or GED before entering the program.*

### Endorsements

#### Endorsement

##### **Emergency Medical Technician (EMT-B)**

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-B)	10
<b>Total Credits</b>	<b>10</b>

EPC: 363W

#### Endorsement

##### **First Responder**

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. First Responders are initial caregivers in an emergency situation and have knowledge and skill level above basic first aid and below the Emergency Medical Technician. Students who successfully complete the class are eligible to take the state certification exam.

##### **Quarter One** **Credits**

HO 132, First Responder	6
<b>Total Credits</b>	<b>6</b>

EPC: 363X

For the most current information see: [www.wvcc.edu](http://www.wvcc.edu)



## ALLIED HEALTH AND SAFETY – ANTHROPOLOGY

### Endorsement

#### Pre-Nursing Assistant

This endorsement has been developed as a precursor for students interested in taking the Nursing Assistant Training Program at a later time. Students who successfully complete the program will receive a certificate.

Quarter One	Credits
HO 090, Pre-Nursing Assistant .....	6
<b>Total Credits .....</b>	<b>6</b>

EPC: 329

### Endorsement

#### Nursing Assistant

The Nursing Assistant program provides training in basic nursing care under state and federal guidelines.

Quarter One	Credits
HO 100, Nursing Assistant .....	6
<b>Total Credits .....</b>	<b>6</b>

EPC: 329

### Endorsement

#### Nursing Assistant/Advanced

This endorsement is designed as an enrichment class for Certified Nursing Assistants. The course provides additional knowledge and clinical components for the CNA desiring more advanced training.

Quarter One	Credits
HO 102, Nursing Assistant/Advanced .....	6
<b>Total Credits .....</b>	<b>6</b>

EPC: 329X

### Endorsement

#### Phlebotomy

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	Credits
HO 106, Phlebotomy .....	9
<b>Total Credits .....</b>	<b>9</b>

EPC: 382

## American Sign Language

<http://>

**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>

Susan Palmer

509.527.4545

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

**Department Overview:** Anthropology studies the origin as well as the physical, social and cultural development of humans. Anthropologists may 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.

**Mission:** The mission of the Social Sciences Division is to provide opportunities for students to better understand individual and group behavior, and develop skills to explore and analyze past and present society and culture.

#### Program Level Outcomes:

- Prepare students to transfer to four-year institutions.
- Introduce concepts, terminology, and factual evidence of the respective disciplines using appropriate classroom assessment techniques.
- Develop written and oral communication and critical thinking skills that require analysis and synthesis of course content.
- Provide opportunities to better understand the impact of diverse cultures in historical context on individual and group behavior.

**Preparation for Success:** A major in Anthropology is strengthened by studies in statistics, history, social sciences, and humanities. The ability to utilize computers for research purposes is mandatory in most disciplines.

**Career Opportunities:** Anthropologists will find opportunities performing policy research for consulting firms, nonprofit organizations, and social service agencies in such areas as crime, ethnic conflict, public health, and refugee policy. These social scientists also will be employed by various companies in product development, marketing, and advertising. Others are employed in human resources in conflict resolution and in issues relating to diverse workforces. As construction projects increase, archaeologists will be needed to perform preliminary excavations in order to preserve historical artifacts.



## Art

<http://wwcc.edu/art>

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Nanqi You 509.527.4583 [nanqi@wwcc.edu](mailto: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. From personal expression to visual communication, students gain an understanding of the potential of visual work and its context.

**Mission:** As part of the Humanities Division, the Art Department shares the mission of the other performing and fine arts: to inspire students to discover their potential and to achieve their goals in speech communications, fine arts, drama, and music by providing a wide variety of guided presentation and performance opportunities, a nurturing and challenging atmosphere, and challenging standards of instruction aimed especially for small groups and individuals.

### Program Level Outcomes:

- To provide learning opportunities and challenges for students planning to transfer to baccalaureate institutions for the purpose of pursuing major studies in Fine Arts.
- To provide learning opportunities and challenges for students wishing to fulfill recreational interests in Fine Arts.
- To enrich Fine Arts opportunities offered and available to the people of the WWCC service area.
- To provide learning opportunities and challenges for students wishing to pursue occupational and professional careers in Fine Arts.
- To guide and nurture students' development as emphatic and critical audience/responders to the Fine Arts of their peers as well as those forms of expression that have stood the test of time and public scrutiny.
- To encourage openness to diverse ways of cultural expression as manifested in the Fine Arts.
- To encourage life-long learning and expression in the Fine Arts.
- To provide instruction in the fundamentals of public speaking.

**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 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.

**Career Opportunities:** Artists often find careers in architecture, industrial design, fashion design, theatre design, graphic design, photography, game art design, advertising and web design. Many create original artwork in a variety of media and techniques. Artists often teach in elementary, secondary, and higher education and in private studios.

**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. Trained artists typically fit into one of four categories. Art directors formulate design concepts and presentation approaches for visual communications media. Craft artists create or reproduce handmade objects for exhibition and sale. Fine artists, including painters, sculptors, and illustrators create original artwork, using a variety of media and techniques. Multi-media artists and animators create special effects, animation, or other visual images on film, on video, or with computers or other electronic media.

## Astronomy

<http://wwcc.edu/astronomy>

Steve May 509.527.4278 [steve.may@wwcc.edu](mailto:steve.may@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.

**Mission:** The Science Division seeks to provide students with a diverse array of physical and life science classes through which they will develop an increased awareness and understanding of scientific knowledge and the scientific method of investigation by which this knowledge has been gained.

### 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.



## ***ASTRONOMY – AUTO BODY REPAIR TECHNOLOGY***

- 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 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 into most Allied Health related programs.

**Preparation for Success:** Students interested in a major in Astronomy should take additional courses in physics, geology and mathematics.

**Career Opportunities:** Astronomy bachelor's or master's degree holders often enter a field unrelated to astronomy, and they are qualified to work in planetariums running science shows, to assist astronomers doing research, and to operate space-based and ground-based telescopes and other astronomical instrumentation.

Persons with only a bachelor's degree in physics or astronomy are not qualified to enter most physicist or astronomer research jobs but may qualify for a wide range of positions related to engineering, mathematics, computer science, and environmental science. Those who meet state certification requirements can become high school physics teachers, an occupation in strong demand in many school districts. Most states require new teachers to obtain a master's degree in education.

### **Auto Body Repair Technology**

AAAS, CERT

<http://wwcc.edu/autobody>

Daniel Norton 509.527.4569 [daniel.norton@wwcc.edu](mailto: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.

**Mission:** The mission of the Auto Body Repair Technology program is to provide high quality technical instruction in all aspects of body repair and painting with a solid foundation of the basics and exposure to the most current technologies and methods. This is accomplished through the provision of instruction in a simulated actual body shop environment and industry experienced instructors.

#### **Program Level Outcomes:**

- Complete NATEF self-assessment and on-site program review.
- Qualify for NATEF program certification in all four collision repair and refinish areas.
- Update Autobody Repair Technology program curriculum in accordance with industry skill standards.
- Enhance student quality and quantity.
- Enhance student retention and completion rates.

**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. 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.

**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.



# AUTO BODY REPAIR TECHNOLOGY – AUTOMOTIVE REPAIR TECHNOLOGY

## Career Opportunities:

- Auto Body Repair Technician
- Custom Painter
- Motor Pool Maintainer
- Automobile Manufacturer
- Shop Supervisor
- Body Shop Owner
- Insurance Appraiser
- Auto Detailer
- Auto Body Supply Representative
- Paint and Equipment Manufacturer Representative

## Degrees

### Associate in Applied Arts and Sciences

#### **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.

**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.

#### **Auto Body Repair Technology Certificate**

Upon completion of the year one requirements students may earn an Auto Body Repair Technology Certificate. (EPC: 709C).

## YEAR ONE

### Quarter One Credits

ABT 161, Auto Body Repair .....	21
OCSUP 101, Job Psychology: Workplace and Educational Success Skills (R) .....	3
<b>Total Credits .....</b>	<b>24</b>

### Quarter Two Credits

ABT 162, Auto Body Repair II* .....	21
OCSUP 106, Applied Mathematics I (M) .....	5
<b>Total Credits .....</b>	<b>26</b>

### Quarter Three Credits

ABT 163, Auto Body Refinishing .....	21
OCSUP 102, Oral Communication in the Workplace (O) .....	3
<b>Total Credits .....</b>	<b>24</b>
<b>Year One Total .....</b>	<b>74</b>

## YEAR TWO

### Quarter One Credits

ABT 264, Unibody Rebuilding .....	21
WRITE 100, Applied Writing (W) .....	3
<b>Total Credits .....</b>	<b>24</b>

### Quarter Two Credits

ABT 265, Electrical Mechanical .....	21
OCSUP 103, Job Seeking Skills (J) .....	3
<b>Total Credits .....</b>	<b>24</b>

### Quarter Three Credits

ABT 299, Leadership (L) .....	1
ABT 266, Damage Estimating and Shop Operation .....	21
<b>Total Credits .....</b>	<b>22</b>
<b>Year Two Total .....</b>	<b>70</b>
<b>Grand Total .....</b>	<b>144</b>

EPC: 709

\* Students may complete ABT 162, Auto Body Repair II for 21 credits or ABT 162 for 14 credits and WELD 141, Welding Basics for 7 credits to satisfy this requirement.

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, WRITE 110

(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**

### AAAS, CERT

<http://wwcc.edu/automechanics>

Michael Adams 509.527.4676 michael.adams@wwcc.edu

James Haun 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



## ***AUTOMOTIVE REPAIR TECHNOLOGY***

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an advisory board composed of local and regional industry members annually. The Automotive Repair Technology program maintains an active Skills USA (VICA) student leadership organization and an Automotive Technology club.

**Mission:** The mission of the Automotive Repair Technology program is to provide high quality technical instruction in all mechanical aspects of automotive mechanical repair. This is accomplished through the provision of instruction in a working automotive repair shop and conducted by industry experienced instructors.

### **Program Level Outcomes:**

- Maintain 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 program of instruction.
- Maintain and enhance the Walla Walla High School and other high school articulation arrangements.
- Expand student recruitment initiatives with local and outlying high schools.
- 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.

**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 and grinding machines to rebuild brakes; 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 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. For more information, please contact Jim Haun 509.527.4693, james.haun@wwcc.edu

### **Career Opportunities:**

- Automotive Repair Technician
- Automotive Maintenance Technician
- Automobile Dealership Technician
- Automotive Parts Counterman
- Alternative Fuels Vehicle Technician
- Automotive Service Consultant
- Master Automotive Technician
- Automotive Electrician
- Automotive Specialty Technician
- Automotive Machinist

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## **Degrees**

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### **Associate in Applied Arts and Sciences**

#### ***Associate in Applied Arts and Sciences Degree in Automotive Repair Technology***

This technical degree prepares the student for a career in auto mechanics. Individuals wishing to update their technical knowledge related to the automotive industry may also benefit from participation in this two-year degree program.

#### ***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.

**Transferability:** The AAAS Degree is designed for students planning to enter their chosen career upon graduation. Often



# AUTOMOTIVE REPAIR TECHNOLOGY – BIOLOGICAL SCIENCES

only selected credits are considered transferable to public or private baccalaureate institutions.

## **Automotive Repair Technology Certificate**

Upon completion of the first three quarters students may earn an Automotive Repair Technology Certificate. (EPC: 712C).

### **YEAR ONE**

<b>Quarter One</b>	<b>Credits</b>
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
<b>Total Credits .....</b>	<b>26</b>

<b>Quarter Two</b>	<b>Credits</b>
AMM 161, Electrical and Electronics .....	21
WRITE 100, Applied Writing (W) .....	3
<b>Total Credits .....</b>	<b>24</b>

<b>Quarter Three</b>	<b>Credits</b>
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
<b>Total Credits .....</b>	<b>28</b>
<b>Year One Total .....</b>	<b>78</b>

### **YEAR TWO**

<b>Quarter One</b>	<b>Credits</b>
AMM 210, Engine Rebuild .....	21
OCSUP 102, Oral Communication in the Workplace (O) .....	3
<b>Total Credits .....</b>	<b>24</b>

<b>Quarter Two</b>	<b>Credits</b>
AMM 224, Automatic Transmission/Transaxles .....	13
AMM 225, Manual Drive Train and Axles .....	8
OCSUP 103, Job Seeking Skills (J) .....	3
<b>Total Credits .....</b>	<b>24</b>

<b>Quarter Three</b>	<b>Credits</b>
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
<b>Total Credits .....</b>	<b>22</b>
<b>Year Two Total .....</b>	<b>70</b>
<b>Grand Total .....</b>	<b>148</b>

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, WRITE 110

(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**

<http://wwcc.edu/biology>

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Lori Loseth- Clk	509.758.1710	lori.loseth@wwcc.edu

**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.

**Mission:** The Science Division seeks to provide students with a diverse array of physical and life science classes through which they will develop an increased awareness and understanding of scientific knowledge and the scientific method of investigation by which this knowledge has been gained.

### **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 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 into most Allied Health related programs.

**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.

**Career Opportunities:** Opportunities for those with a bachelor's or master's degree in biological science are expected to increase. Some positions may include: science or engineering technicians or health technologists and technicians.



Those who meet state certification requirements can become high school biology teachers. Most states require new teachers to obtain a master's degree in education.

### ***Business Administration***

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AA-DTA, AAAS, CERT

<http://wwcc.edu/business>

Dan Biagi

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**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.

**Mission:** Because we believe the most critical factor of success is confidence, we make every effort to foster self-esteem throughout the department, empowering students to perform successfully in business-related careers and/or at the baccalaureate level.

#### **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 Business and Management Upon completion of the two-year program of study. The Business Administration Department also offers an Applied Arts and Sciences Degree in Retailing. One-year certificates are available Upon completion of the first year of study in the AAAS Degree programs.

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.

#### **Career Opportunities:**

- Administrative Services
- Advertisers
- Marketers
- Financial Managers
- Real Estate Managers
- Food Service Managers
- Business Owners
- Retailing Managers

**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 and advisor within the Business Administration Department and become familiar with the degree requirements.

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### Degrees

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#### **Associate in Applied Arts and Sciences**

##### ***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 analytical and critical-thinking skills with direct application to business environments.
- 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.
- Demonstrate sound management decisions based upon planning and examination of appropriate alternatives.



## ***BUSINESS ADMINISTRATION – CARPENTRY***

- Demonstrate an understanding of budgeting and inventory control systems.
- Apply retail concepts as they relate to apparel and non-apparel merchandise.
- Understand buying and promotion techniques necessary for proper retail management.
- Establish and maintain effective working relationships in multicultural settings.
- Applies Technology to Task & Understands overall intent and proper procedures for setup and operation.
- Problem Solving recognizes problems and devises and implements plan of action.
- Creative Thinking generates new ideas.
- Participates as a Member of a Team & contributes to group effort.
- Serves Clients/Customers & works to satisfy customers expectations.

**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.

### ***Business and Management Certificate***

Upon completion of the year one requirements students may earn a Business and Management Certificate. (EPC: 502C).

#### ***YEAR ONE***

<b>Quarter One</b>	<b>Credits</b>
ACCT& 201, Prin of Accounting I .....	5
BUS 181, Cooperative Work Experience I .....	2 - 5
BUS 182, Business Leadership Seminar I .....	3
BUS 210, Marketing .....	5
BUS& 101, Intro to Business .....	5
CS 110, Introduction to Computers and Applications .....	5
<b>Total Credits .....</b>	<b>25-28</b>

<b>Quarter Two</b>	<b>Credits</b>
BUS 136, Business Communications I .....	5
BUS 191, Cooperative Work Experience II .....	2 - 5
BUS 192, Business Leadership Seminar II (L) .....	3
BUS 215, Advertising .....	5
BUS 217, Computer Software Applications .....	5
<b>Total Credits .....</b>	<b>20-23</b>

<b>Quarter Three</b>	<b>Credits</b>
BUS 137, Business Communications II (W) .....	5
BUS 189, Principles of Management .....	5
BUS 197, Electronic Commerce: A Business Perspective .....	5
<b>Total Credits .....</b>	<b>15</b>
<b>Year One Total .....</b>	<b>60-66</b>

#### ***YEAR TWO***

<b>Quarter One</b>	<b>Credits</b>
BUS 102, Customer Service .....	5
BUS 112, Business Mathematics (M) .....	5
BUS 187, Principles of Selling .....	5
<b>Total Credits .....</b>	<b>15</b>

<b>Quarter Two</b>	<b>Credits</b>
BUS 287, Retailing .....	5
CMST& 220, Public Speaking (O) .....	5
ECON& 201, Microeconomics .....	5
<b>Total Credits .....</b>	<b>15</b>

<b>Quarter Three</b>	<b>Credits</b>
BUS 157, Human Relations in Business (R) .....	5
BUS 291, Cooperative Work Experience III .....	2 - 5
BUS 292, Business Leadership Seminar III (J) .....	3
<b>Total Credits .....</b>	<b>10-13</b>
<b>Year Two Total .....</b>	<b>40-43</b>
<b>Grand Total .....</b>	<b>100-109</b>

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

## ***Carpentry***

**AAAS, CERT**

<http://wwcc.edu/carpentry>

Larry Harding

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

**Department Overview:** 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.

**Mission:** To provide students a comprehensive educational experience using current industry standards applied to the carpentry curriculum. To allow students the most hands-on experience with a wide variety of tasks to gain a widespread knowledge of carpentry and complete construction of a house.

**Program Level Outcomes:**

- Develop marketable technical and interpersonal skills in the trade, 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 industry.
- 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.

**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.

### Career Opportunities:

- Construction Managers / Supervisors
- Experienced Carpenters
- Carpenters' Assistants

**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.

## Degrees

### Associate in Applied Arts and Sciences

#### **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 and doors.
- Layout and install floor systems.
- Perform tile work.
- Set trusses and construct roofing systems.
- Insert installation and hang drywall.
- Perform concrete work including stem walls.
- Apply paint to both the interior and exterior.
- Demonstrate green building practices.
- Install sheetrock.

**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.

### Carpentry Certificate

Upon completion of the year one requirements students may earn a Carpentry Certificate. (EPC: 745C).

### YEAR ONE

Quarter One	Credits
CPR 051, Basic Life Support (BLS) for Healthcare Providers .....	4
CARP 181, Introduction to Carpentry .....	18
IFA 022, Medic First Aid Basic .....	4
OCSUP 106, Applied Mathematics I (M) .....	5
<b>Total Credits .....</b>	<b>23.8</b>

Quarter Two	Credits
CARP 182, On-Site Work: Exterior .....	18
OCSUP 102, Oral Communication in the Workplace (O) .....	3
<b>Total Credits .....</b>	<b>21</b>

Quarter Three	Credits
CARP 183, On-Site Work: Interior Finish .....	18
OCSUP 103, Job Seeking Skills (J) .....	3
<b>Total Credits .....</b>	<b>21</b>
<b>Year One Total .....</b>	<b>65.8</b>

### YEAR TWO

Quarter One	Credits
CARP 284, Advanced Work in Layout* .....	18
WRITE 100, Applied Writing (W) .....	3
<b>Total Credits .....</b>	<b>21</b>

Quarter Two	Credits
CARP 285, Advanced Blueprint Reading II* .....	18
OCSUP 101, Job Psychology: Workplace and Educational Success Skills (R) .....	3
<b>Total Credits .....</b>	<b>21</b>

Quarter Three	Credits
CARP 299, Leadership (L) .....	1
CARP 286, Advanced On-Site Work* .....	18
<b>Total Credits .....</b>	<b>19</b>
<b>Year Two Total .....</b>	<b>61</b>
<b>Grand Total .....</b>	<b>126.8</b>

EPC: 745

\* CARP 191, Cooperative Work Experience may be substituted for CARP 284, 285 or 286 with instructor permission.



## CARPENTRY – CIVIL ENGINEERING TECHNOLOGY

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, WRITE 110

(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

<http://wwcc.edu/chemistry>

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**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.

**Mission:** The Science Division seeks to provide students with a diverse array of physical and life science classes through which they will develop an increased awareness and understanding of scientific knowledge and the scientific method of investigation by which this knowledge has been gained.

#### 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 into most Allied Health related programs.

**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.

**Career Opportunities:** Chemists and materials scientists held about 91,000 jobs in 2002. About 44 percent of all chemists and material scientists are employed in manufacturing firms—mostly in the chemical manufacturing industry, which includes firms that produce plastics and synthetic materials, drugs, soaps and cleaners, pesticides and fertilizers, paint, industrial organic chemicals, and other chemical products. About 15 percent of chemists and material scientists work in scientific research and development services; another 13 percent work in architectural, engineering, and related services. In addition, thousands of persons with a background in chemistry and materials science hold teaching positions in high schools and in colleges and universities.

A bachelor's degree in chemistry or a related discipline usually is the minimum educational requirement for entry-level chemist jobs.

### Civil Engineering Technology

AAAS, CERT

<http://wwcc.edu/civilengineering>

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

**Department Overview:** Civil Engineering Technology educates students in the design and development of civil projects with an emphasis on the understanding of social, ethical, safety, and health related issues that pertain to the practice of civil engineering. Students gain a sound knowledge of the fundamental principles of civil engineering technology 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.

**Mission:** To provide quality instruction in Civil Engineering Technology for the industry and individuals.

#### 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.
- 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.



# CIVIL ENGINEERING TECHNOLOGY

**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, or to continue their education.

**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 estimate construction costs and specify materials to be used, and some may even prepare drawings or perform land-surveying duties. Technicians may set up and monitor instruments used to study traffic conditions. Civil engineering, considered to be one of the oldest engineering disciplines, encompasses many specialties. The major specialties within civil engineering are structural, water resources, environmental, construction, transportation, and geotechnical engineering. Due to their involvement in relatively all aspects of twenty first century culture, the demand for Civil Engineering Technicians is prominent. Cities, counties, state and federal agencies 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.

## Career Opportunities:

- Project Engineers
- Design Technicians
- Private Consultants
- Surveyor Technicians
- Inspectors
- CADD Designers

## Degrees

### Associate in Applied Arts and Sciences

#### *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.
- Determine forces and stresses in elementary structural systems.
- 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.

## Engineering Graphics Certificate

Upon completion of the year one requirements students may earn a Engineering Graphics Certificate. (EPC: 612C).

### YEAR ONE

#### Quarter One Credits

CET 103, Engineering Concepts and Problems .....	5
ENGL 097, Basic Expository Writing (W) .....	5
ENGR& 111, Engineering Graphics I * .....	4
MATH 065, Introductory Algebra (M) .....	5
<b>Total Credits .....</b>	<b>19</b>

#### Quarter Two Credits

CET 151, Computer Aided Drafting and Design * .....	3
CET 166, Introduction to Hydrology .....	3
CET 242, Properties of Materials * .....	4
CET Elective .....	4
PSYC 140, Career and Life Planning (J) .....	3
<b>Total Credits .....</b>	<b>17</b>

#### Quarter Three Credits

CET 100, Estimating .....	3
CET 160, Elementary Surveying * .....	6
CET Elective** .....	4
OCSUP 108, Applied Mathematics II or MATH& 142, Pre-Calculus II or	
MATH& 151, Calculus I*** .....	5
<b>Total Credits .....</b>	<b>18</b>
<b>Year One Total .....</b>	<b>54</b>



# CIVIL ENGINEERING TECHNOLOGY – COLLABORATIVE LEADERSHIP STUDIES

## YEAR TWO

Quarter One	Credits
CET 152, Advanced CADD Problems .....	3
CET 161, Advanced Surveying * .....	6
CET 223, Hydraulics .....	4
ENGR& 214, Statics * .....	5
<b>Total Credits .....</b>	<b>18</b>

Quarter Two	Credits
CET 224, Soil Mechanics for Construction .....	4
CET 263, Transportation and Highway Engineering .....	4
CMST& 220, Public Speaking (O) .....	5
ENGR& 225, Mechanics of Materials * .....	5
<b>Total Credits .....</b>	<b>18</b>

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
PSYC& 100, General Psychology (R) .....	5
<b>Total Credits .....</b>	<b>21</b>
<b>Year Two Total .....</b>	<b>57</b>
<b>Grand Total .....</b>	<b>111</b>

EPC: 612

\* These asterisked CET courses are required for completion of the certificate (17 credits) or the degree (42 credits).

The student must have at least 15 non-asterisked CET credits for certificate or 37 credits for degree.

\*\* Any Civil Engineering Technology (CET) course or any Math course (MATH 095, MATH& 141 or higher) not required for the degree may be used for the elective requirement.

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, WRITE 110

(L) - CET 299, CLS 180

(M) - MATH 065

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

(R) - OCSUP 101, PSYC 111, PSYC& 100

- 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:** Transferability of credits to baccalaureate institutions in Washington State is course specific.

## YEAR ONE

Quarter One	Credits
CET Elective* .....	4
ELECT ENG1, ENGL 097, Basic Expository Writing (W) .....	5
ENGR& 111, Engineering Graphics I .....	4
MATH 065, Introductory Algebra (M) .....	5
<b>Total Credits .....</b>	<b>18</b>

Quarter Two	Credits
CET 100, Estimating .....	3
CET 160, Elementary Surveying .....	6
CET Elective* .....	4
OCSUP 108, Applied Mathematics II or MATH& 142, Pre-Calculus II or MATH& 151, Calculus I .....	5
<b>Total Credits .....</b>	<b>18</b>

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
<b>Total Credits .....</b>	<b>17</b>
<b>Year One Total .....</b>	<b>53</b>
<b>Grand Total .....</b>	<b>53</b>

EPC: 603C

\* Any Civil Engineering Technology (CET) course not required for the certificate may be used for the elective requirement.

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, ELECT ENG1, ENGL& 101, WRITE 100, WRITE 110

(M) - MATH 065

## Collaborative Leadership Studies

<http://wwcc.edu/wec>

Richard Bireley 509.524.5208 richard.bireley@wwcc.edu

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

**Department Overview:** The Collaborative Leadership Studies program offers leadership development courses, including collaborative processes, communication, facilitation, interest-based problem solving, conflict resolution, and team building. This program will provide professional improvement, workforce development, and continuing education. Courses will be offered on campus, online and delivered on site.

## Certificates

### Certificate

#### Surveying Certificate

This degree prepares the student for employment at the Technician II level with most city, county, or federal agencies.

**Degree available at/via: [Walla Walla]**

#### Degree Outcomes:

- Solve problems using Autocad.
- Make dimension drawings using ANSI standards.
- Use GPS receivers.
- Set up and use transits, theodolites and levels.



## Commercial Truck Driving

### CERT

<http://wwcc.edu/truckdriving>

Steven Harvey 509.527.3681 [steven.harvey@wwcc.edu](mailto: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 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.

**Mission:** Walla Walla Community College Commercial Truck Driving Program offers courses that develop marketable skills, and instill and promote a positive work ethic that will enhance all students abilities to achieve their goals in a safe and professional manner.

#### 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:** WWCC offers a Truck Driver Training Certificate and a Advanced Truck Driver Training Certificate. Students may also earn a 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.

#### Career Opportunities:

- C. R. England
- Sherman Brothers Trucking
- Gainey Transportation Services
- Swift Transportation Co., Inc
- Gordon Trucking, Inc.
- Trans-System
- Interstate Distributor Co.
- U.S. Xpress
- Puget Sound Truck Lines
- Werner Enterprises
- Averitt Express
- Covenant Transport
- CRST Malone
- CRST Van Expedited
- Hot CDL Jobs

## Certificates

### Certificate

#### 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.

#### Degree available at/via: [Walla Walla]

#### Degree 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.
- Identify career options and plan employment with a company that is a good fit for you.



# COMMERCIAL TRUCK DRIVING – COMPUTER SCIENCE

## 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

## Certificates

### Certificate

#### 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.

**Degree available at/via:** [Walla Walla]

## YEAR ONE

Quarter One	Credits
TRK 191, Cooperative Work Experience .....	18
Total Credits .....	18
Year One Total .....	18
Grand Total .....	18

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.

**Mission:** The Humanities Division seeks to enrich students' lives through exploration of the diversity of human expressions and cultures as well as to build a foundation for life-long learning - including successful future academic achievement - through writing, literature, language arts and philosophy.

#### Program Level Outcomes:

- To provide a variety of courses in order to enrich students' lives and build a foundation for lifetime learning.
- To provide students with a variety of courses that prepare them for transfer to four year institutions with academic skills needed to succeed in upper division work.
- To encourage students to explore and develop critical thinking and creative thinking.
- To help students develop and perfect writing skills.

- To assist students in appreciating, understanding, and using the terminology and concepts of each course.
- To develop increased aesthetic appreciation as well as increased cultural awareness.

**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.

**Career Opportunities:** Public Relations provides a wide range of career opportunities which may include: public relation firms, media (reporting, advertising), public affairs (chambers of commerce, councils on tourism), business and industry (consulting firms, marketing companies), nonprofit organizations, and educational institutions.

**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

AAAS, CERT

<http://wwcc.edu/computer>

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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:** 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.

**Mission:** To develop employable students, while encouraging life-long learning programs that meet industry skill standards for high-demand computer science careers.

#### 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.



# COMPUTER SCIENCE

**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.

**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.

## Career Opportunities:

- Computer Support Specialist
- Technical Support Specialist
- Systems Administrator
- Professional Equipment Sales Representative
- Software Publicists Computer Systems Designer
- Digital Imaging Support Specialist
- Web Design/Development
- Graphic Design/Publication Layout

## Degrees

### Associate in Applied Arts and Sciences

#### *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] [Clarkston] [Online (partial)]

#### Degree Outcomes:

- Demonstrate the ability to critically and logically think and organize to solve computer science related problems and processes.
- 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 including but not limited to: database, software design

and development, networking, operating systems, programming languages, security.

- Demonstrate knowledge and application of ethical and privacy issues relating to the computer science field.
- Demonstrate knowledge and application of customer service skills.
- Demonstrate ethical use of computers.

**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.

#### *Informatics in Networking Certificate*

Upon completion of the year one requirements students may earn a Informatics in Networking Certificate. (EPC: 527C).

#### 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
<b>Total Credits .....</b>	<b>18</b>

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
<b>Total Credits .....</b>	<b>20</b>

Quarter Three	Credits
BUS 102, Customer Service (R) .....	5
CS 130, PC Support and Maintenance I .....	5
CS 220, Digital Imaging Foundations .....	5
<b>Total Credits .....</b>	<b>15</b>
<b>Year One Total .....</b>	<b>53</b>

#### 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
<b>Total Credits .....</b>	<b>20</b>

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
<b>Total Credits .....</b>	<b>20</b>

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
CS 292, Cooperative Seminar II (L) .....	3
<b>Total Credits .....</b>	<b>20</b>
<b>Year Two Total .....</b>	<b>60</b>
<b>Grand Total .....</b>	<b>113</b>

EPC: 527



# COMPUTER SCIENCE

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

- (W) - BUS 137, ENGL& 101  
(L) - CS 292  
(M) - BUS 112, MATH 095  
(O) - CMST 102, CMST& 220, OCSUP 102  
(R) - BUS 102, PSYC 111, PSYC& 100

## Degrees

### Associate in Applied Arts and Sciences

#### 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.
- 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 including but not limited to: database, software design and development, networking, operating systems, programming languages, security.
- 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
<b>Total Credits .....</b>	<b>18</b>

Quarter Two	Credits
BUS 112, Business Mathematics (M) .....	5
CS 121, Problem Solving with Programming .....	5
CS 125, Operating Systems .....	5
<b>Total Credits .....</b>	<b>15</b>

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
<b>Total Credits .....</b>	<b>20</b>
<b>Year One Total .....</b>	<b>53</b>

#### 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
<b>Total Credits .....</b>	<b>15</b>

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
<b>Total Credits .....</b>	<b>20</b>

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
CS 292, Cooperative Seminar II (J) .....	3
<b>Total Credits .....</b>	<b>20</b>
<b>Year Two Total .....</b>	<b>55</b>
<b>Grand Total .....</b>	<b>108</b>

EPC: 507

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

- (J) - CS 292  
(W) - BUS 137, ENGL& 101  
(M) - BUS 112  
(O) - CMST 102, CMST& 220  
(R) - BUS 102, PSYC& 100

## Degrees

### Associate in Applied Arts and Sciences

#### 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)]**

#### 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
<b>Total Credits .....</b>	<b>18</b>

Quarter Two	Credits
BUS 112, Business Mathematics (M) .....	5
CS 121, Problem Solving with Programming .....	5
CS 125, Operating Systems .....	5
<b>Total Credits .....</b>	<b>15</b>



# COMPUTER SCIENCE

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
<b>Total Credits .....</b>	<b>20</b>
<b>Year One Total .....</b>	<b>53</b>

## 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
<b>Total Credits .....</b>	<b>20</b>

Quarter Two	Credits
CS 141, Computer Science I JAVA .....	5
CS 231, Application Development .....	5
CS 245, Advanced Database Development .....	5
<b>Total Credits .....</b>	<b>15</b>

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
CS 292, Cooperative Seminar II (J) .....	3
<b>Total Credits .....</b>	<b>20</b>
<b>Year Two Total .....</b>	<b>55</b>
<b>Grand Total .....</b>	<b>108</b>

EPC: 501

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

(J) - CS 292

(W) - BUS 137

(M) - BUS 112

(O) - CMST 102, CMST& 220

(R) - BUS 102

## Certificates

### Certificate

#### 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.

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

## YEAR ONE

Quarter One	Credits
CS 110, Introduction to Computers and Applications .....	5
CS 115, Introduction to Computer & Information Technology .....	5
CS 235, Introduction to Database Design and Theory .....	5
CS 240, Application Integration using VBA .....	5
<b>Total Credits .....</b>	<b>20</b>

Quarter Two	Credits
BUS 112, Business Mathematics (M) .....	5
CS 121, Problem Solving with Programming .....	5
CS 231, Application Development .....	5
CS 245, Advanced Database Development .....	5
<b>Total Credits .....</b>	<b>20</b>

For the most current information see: [www.wvcc.edu](http://www.wvcc.edu)

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 230, Visual Basic Programming .....	5
<b>Total Credits .....</b>	<b>20</b>
<b>Year One Total .....</b>	<b>60</b>
<b>Grand Total .....</b>	<b>60</b>

EPC: 501C

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

## Certificates

### Certificate

#### Informatics in Digital Design Certificate

This certificate provides the basic knowledge in the fields of digital publishing 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.
- 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 including but not limited to: database, software design and development, networking, operating systems, programming languages, security.
- 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
<b>Total Credits .....</b>	<b>15</b>

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
<b>Total Credits .....</b>	<b>20</b>



## COMPUTER SCIENCE – COSMETOLOGY

### 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
<b>Total Credits</b> .....	<b>20</b>
<b>Year One Total</b> .....	<b>55</b>
<b>Grand Total</b> .....	<b>55</b>

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

## Cosmetology

### AAAS

<http://wwcc.edu/cosmetology>

Nicole Cabezas 509.527.4228 [nicole.cabezas@wwcc.edu](mailto:nicole.cabezas@wwcc.edu)  
Janice Howell 509.527.4220 [janice.howell@wwcc.edu](mailto:janice.howell@wwcc.edu)

### 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.

**Mission:** The WWCC Cosmetology program is dedicated to preparing a diverse student body for successful licensure exam, career entry, advancement, and lifelong learning in the field of cosmetology.

### Program Level Outcomes:

- To market, recruit, and retain students in programs within the division.
- Certify programs using industry skill standards.

**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 program. 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. Students are advised to consult their physicians as to possible health problems (i.e., allergies, asthma, dermatitis, etc.) before enrolling.

The Instructor-Trainee program requires a current Washington State cosmetology license and one year of current work experience in a salon. The instructor's permission is required for admission into the program.

### Career Opportunities:

- Skin Care Specialists
- Day Spa Personnel
- Hairdressers
- Hairstylists
- Cosmetologists
- Manicurists
- Pedicurists

## Degrees

### Associate in Applied Arts and Sciences

#### **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.



# COSMETOLOGY – CRIMINAL JUSTICE

- 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
COSM 111, Principles and Procedures of Cosmetology I .....	11
COSM 112, Practical Application I .....	11
IFA 022, Medic First Aid Basic .....	4
MATH 049, Mathematics I (M) .....	5
<b>Total Credits .....</b>	<b>27.4</b>

Quarter Two	Credits
COSM 121, Principles and Procedures of Cosmetology II .....	11
COSM 122, Practical Application II .....	11
WRITE 100, Applied Writing (W) .....	3
<b>Total Credits .....</b>	<b>25</b>

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
<b>Total Credits .....</b>	<b>25</b>

Quarter Four	Credits
COSM 299, Leadership (L) .....	1
COSM 270, Practical Application VI .....	11
<b>Total Credits .....</b>	<b>12</b>
<b>Year One Total .....</b>	<b>89.4</b>

## 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
<b>Total Credits .....</b>	<b>25</b>

Quarter Two	Credits
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
<b>Total Credits .....</b>	<b>25.4-25.7</b>
<b>Year Two Total .....</b>	<b>50.4-50.7</b>
<b>Grand Total .....</b>	<b>139.8-140.1</b>

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, WRITE 110

(L) - COSM 299

(M) - BUS 112, MATH 049, OCSUP 106

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

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

## Criminal Justice

<http://wwcc.edu/criminaljustice>

Jim Peitersen

509.527.4601

james.peitersen@wwcc.edu

**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 for particular specializations for career advancement and/or transfer to baccalaureate institutions.

**Mission:** The mission of the Social Sciences Division is to provide opportunities for students to better understand individual and group behavior, and develop skills to explore and analyze past and present society and culture.

### Program Level Outcomes:

- Prepare students to transfer to four-year institutions.
- Introduce concepts, terminology, and factual evidence of the respective disciplines using appropriate classroom assessment techniques.
- Develop written and oral communication and critical thinking skills that require analysis and synthesis of course content.
- Provide opportunities to better understand the impact of diverse cultures in historical context on individual and group behavior.

## Degrees

### Direct Transfer Agreement

#### 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
<b>Total Credits .....</b>	<b>16</b>

Quarter Two	Credits
Lab Science Elective .....	5
ENGL& 102, English Composition II .....	5
PSYC 160, Psychology of Criminal Behavior .....	5
<b>Total Credits .....</b>	<b>15</b>

For the most current information see: [www.wwcc.edu](http://www.wwcc.edu)



## CRIMINAL JUSTICE – CULINARY ARTS

### Quarter Three

	Credits
CMST& 220, Public Speaking .....	5
Physical Education Elective .....	1
PHIL 131, Introduction to Ethics .....	5
SOC 204, Drugs and Society .....	5
<b>Total Credits .....</b>	<b>16</b>
<b>Year One Total .....</b>	<b>47</b>

### YEAR TWO

#### Quarter One

	Credits
CHEM& 110, Chemical Concepts with Lab .....	5
CJ& 112, Criminology .....	5
Literature Elective .....	5
Physical Education Elective .....	1
<b>Total Credits .....</b>	<b>16</b>

#### Quarter Two

	Credits
CJ& 110, Criminal Law * .....	3
MATH 201, Statistics or higher Math*** .....	5
Lab Science Elective .....	5
<b>Total Credits .....</b>	<b>13</b>

#### Quarter Three

	Credits
CJ 202, Crime and Delinquency .....	5
Humanities Elective .....	5
SOC 205, Racial and Ethnic Relations ** .....	5
<b>Total Credits .....</b>	<b>15</b>
<b>Year Two Total .....</b>	<b>44</b>
<b>Grand Total .....</b>	<b>91</b>

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.

\* PSCI 204, Constitutional Law may be taken in place of CJ 103, Introduction to Criminal Law.

\*\* 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.

## Culinary Arts

### AAAS, CERT

<http://wwcc.edu/culinaryarts>

Jay EntriKin	509.527.4272	jay.entrikin@wwcc.edu
Gregory Schnorr	509.524.5177	gregory.schnorr@WWCC.EDU
Robert Wood	509.540.1080	robert.wood@wwcc.edu

### 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 Culinary Arts Program at WWCC 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.

**Mission:** The Culinary Arts program is dedicated to providing a quality professional culinary education to prepare individuals for entry into the food service and hospitality industry. Using the core values of excellence, leadership, professionalism, ethics and respect, individuals gain the knowledge and skills necessary to be successful in the industry while enabling them to grow into leadership and management positions.

### Program Level Outcomes:

- Prepare graduates to enter the food service and hospitality industry with the knowledge and skills necessary to be successful.
- Provide opportunities and support for professional life long learning in the hospitality industry through the seminars and conferences.
- Collaborate with local industry partners to strengthen our community.

**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 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](http://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 Robert Wood at 509-524-5173.

#### Step 2:

- 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 3:

- 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.

For the most current information see: [www.wwcc.edu](http://www.wwcc.edu)



# CULINARY ARTS

## Step 4:

- 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 5:

- 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 as of March 1, 2009, and who have a completed, accurate Financial Aid File by May 1, 2009, will be given first priority consideration for financial aid funds.

## Step 6:

- Students interested in pursuing a certificate or degree in Culinary Arts are required to submit a 500 word essay to Chef Robert Wood [robert.wood@wwcc.edu](mailto:robert.wood@wwcc.edu) outlining their personal interest in Culinary Arts and why they believe that this training would benefit them in their career pursuits. Students are encouraged to submit their essay at least 90 days in advance of the fall or spring quarter start dates. Once your essay has been received, you will be notified and scheduled for a personal interview.

New students are admitted into the program in the Fall and Spring Quarters. All applicants will be notified of their status regarding entry dates. We will also contact you with information and requirements for New Student Orientation, advising, and registration.

## Career Opportunities:

- Cook
- Kitchen Manager
- Banquet Manager
- Pastry Chef
- Sous Chef
- Chef
- Executive Chef
- Food and Beverage Director
- Independent Restaurant Operator

## Degrees

### Associate in Applied Arts and Sciences

#### **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.

## Culinary Arts Certificate

Upon completion of the year one requirements students may earn a Culinary Arts Certificate. (EPC: 850C).

## YEAR ONE

Quarter One	Credits
BUS 112, Business Mathematics (M) .....	5
CUL 100, ServSafe .....	2
CUL 110, Introduction to the Culinary Arts .....	3
CUL 112, Soups, Stocks and Sauces .....	3
CUL 114, Culinary Arts Methods .....	3
IFA 022, Medic First Aid Basic .....	4
<b>Total Credits .....</b>	<b>16.4</b>

Quarter Two	Credits
CS 110, Introduction to Computers and Applications .....	5
CUL 104, Service Management .....	3
CUL 140, Food and Culture .....	3
CUL 141, American Regional and Latin American Cooking .....	6
CUL 142, Classical French and European Cooking .....	6
WRITE 100, Applied Writing (W) .....	3
<b>Total Credits .....</b>	<b>26</b>

Quarter Three	Credits
CUL 150, Introduction to Baking .....	7.5
CUL 151, Advanced Baking and Pastry .....	7.5
CUL 155, Eco Gastronomy .....	2
CUL 210, Wine with Food .....	1
OCSUP 102, Oral Communication in the Workplace (O) .....	3
<b>Total Credits .....</b>	<b>21</b>



## CULINARY ARTS – DIESEL TECHNOLOGY

### Quarter Four

	Credits
CUL 292, Cooperative Seminar .....	1
CUL 291, Cooperative Work Experience .....	10 - 15
<b>Total Credits .....</b>	<b>11-16</b>
<b>Year One Total .....</b>	<b>74.4-79.4</b>

### YEAR TWO

#### Quarter One

	Credits
CUL 108, Nutrition for Culinary Arts .....	3
CUL 207, Menu Development .....	3
CUL 131, Culinary Competency .....	10
PSYC& 100, General Psychology (R) .....	5
<b>Total Credits .....</b>	<b>21</b>

#### Quarter Two

	Credits
CUL 160, Plated Desserts .....	2
CUL 215, Food and Beverage Management .....	3
CUL 217, Asian Cooking and Garde Manger .....	6
CUL 219, Catering Management .....	3
OCSUP 103, Job Seeking Skills (J) .....	3
OCSUP 299, Principles of Leadership (L) .....	1
<b>Total Credits .....</b>	<b>18</b>
<b>Year Two Total .....</b>	<b>39</b>
<b>Grand Total .....</b>	<b>113.4-118.4</b>

EPC: 850

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, WRITE 110

(L) - OCSUP 299

(M) - BUS 112, CUL 107, MATH 049, OCSUP 106

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

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

## Dance

<http://wwcc.edu/dance>

Sylvia Bushman	509.527.4307	sylvia.bushman@wwcc.edu
Jackie Hightower	509.529.2800	jackie.hightower@wwcc.edu

**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. Experienced dancers may audition for acceptance as members of the award-winning WWCC dance teams.

**Mission:** The mission of the Physical Education and Recreation Division is to provide knowledge that encourages positive lifestyle practices, attitudes and values. The division is committed to promoting continual self-assessment and personal growth to enrich the quality of life.

#### Program Level Outcomes:

- Diverse Offerings - create a balance between lifetime activity and team sport opportunities.
- Attractive Offerings - Create and modify courses to meet student interest. We want students to take our courses even after they have satisfied the PE requirement for graduation.

- Incorporate "Lifelong Learning" as the primary core ability in all HPER and DANCE courses.

## Diesel Technology

AAAS, CERT

<http://wwcc.edu/diesealequipment>

David Bailey	509.529.2600	david.bailey@wwcc.edu
Richard Hellie	509.5200	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.

**Mission:** The goal of the Diesel Technology program is to prepare individuals for careers as Diesel and Heavy Equipment mechanics and occupations related to the field. Upon satisfactory completion, the student will meet the entry-level performance requirements.

#### Program Level Outcomes:

- Understand the construction, function, and general service of all major equipment components.
- Diagnose mechanical malfunctions and performance problems.
- Make decisions as to disposition of worn parts (i.e., "usable as is", "should be reconditioned or replaced", etc.).
- Operate precision diagnostic and repair equipment.
- Read and interpret repair manuals.
- Understand the importance of good public relations with customers, employer, and fellow employees.
- Understand basic shop operation.
- Be cognizant of overhead and labor cost in relationship to profit.
- Understand apprenticeship and how it functions.
- Be informed on methods of seeking employment.

**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.

For the most current information see: [www.wwcc.edu](http://www.wwcc.edu)



# DIESEL 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.

## Career Opportunities:

- Heavy-Duty Truck Repair
- Heavy Equipment Repair
- Medium-Duty Vehicle Repair
- Agricultural Equipment Repair
- Logging Equipment Repair
- Forklift Repair
- Mining Equipment Repair

**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.

## Degrees

### Associate in Applied Arts and Sciences

#### **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.

## Diesel Technology Certificate

Upon completion of the year one requirements students may earn a Diesel Technology Certificate. (EPC: 775C).

### YEAR ONE

Quarter One	Credits
DT 181, Engines I .....	14
DT 151, Shop Fundamentals/Forklift Training .....	9
OCSUP 106, Applied Mathematics I (M) .....	5
WELD 141, Welding Basics .....	4
<b>Total Credits .....</b>	<b>32</b>

Quarter Two	Credits
DT 162, Machinery Repair I .....	10
DT 180, Suspension and Alignment .....	5
DT 185, Drive Trains .....	5
OCSUP 102, Oral Communication in the Workplace (O) .....	3
<b>Total Credits .....</b>	<b>23</b>

Quarter Three	Credits
DT 163, Machinery Repair II .....	8
DT 187, Heating and Air Conditioning .....	5
DT 183, Electronics I .....	5
DT 299, Leadership (L) .....	1
DT 189, Preventive Maintenance .....	5
<b>Total Credits .....</b>	<b>24</b>
<b>Year One Total .....</b>	<b>79</b>

### YEAR TWO

Quarter One	Credits
DT 266, Advanced Equipment Repair I .....	10
DT 284, Hydraulics .....	5
DT 280, Brakes and Air Systems .....	5
WRITE 100, Applied Writing (W) .....	3
<b>Total Credits .....</b>	<b>23</b>

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
<b>Total Credits .....</b>	<b>23</b>

Quarter Three	Credits
DT 192, Cooperative Seminar (R) .....	1
DT 191, Cooperative Work Experience** .....	12 - 15
<b>Total Credits .....</b>	<b>13-16</b>
<b>Year Two Total .....</b>	<b>59-62</b>
<b>Grand Total .....</b>	<b>138-141</b>

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, WRITE 110

(L) - CLS 180, DT 299

(M) - BUS 112, MATH 049, OCSUP 106

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

(R) - BUS 157, DT 192, PSYC& 100



## DRAMA – EARLY CHILDHOOD EDUCATION

### Drama

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<http://www.wwcc.edu/theatrearts>

Kevin Loomer

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**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.

**Mission:** As part of the Humanities Division, the Art Department shares the mission of the other performing and fine arts: to inspire students to discover their potential and to achieve their goals in speech communications, fine arts, drama, and music by providing a wide variety of guided presentation and performance opportunities, a nurturing and challenging atmosphere, and challenging standards of instruction aimed especially for small groups and individuals.

#### Program Level Outcomes:

- To provide learning opportunities and challenges for students planning to transfer to baccalaureate institutions for the purpose of pursuing major studies in Fine Arts.
- To provide learning opportunities and challenges for students wishing to fulfill recreational interests in Fine Arts.
- To enrich Fine Arts opportunities offered and available to the people of the WWCC service area.
- To provide learning opportunities and challenges for students wishing to pursue occupational and professional careers in Fine Arts.
- To guide and nurture students' development as emphatic and critical audience/responders to the Fine Arts of their peers as well as those forms of expression that have stood the test of time and public scrutiny.
- To encourage openness to diverse ways of cultural expression as manifested in the Fine Arts.
- To encourage life-long learning and expression in the Fine Arts.
- To provide instruction in the fundamentals of public speaking.

**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 Theatre

Appreciation, Acting, and courses in dramatic literature.

**Career Opportunities:** Careers in theatre arts go beyond performance in stage, radio, television, video, and motion picture productions. Careers are also found in technical areas of theatrical production; costumers, sound and light technicians, carpenters, set designers, and business managers are essential to the field. Some actors do narration work for advertisements, animated features, recorded books, and other electronic media. Many theatre arts graduates teach theatre in high school and college theatre departments.

**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

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AAAS, CERT

<http://www.wwcc.edu/earlychildhood>

Melinda Brennan

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Michelle Meyer

509.527.4637

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**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.

For the most current information see: [www.wwcc.edu](http://www.wwcc.edu)



## DRAMA – EARLY CHILDHOOD EDUCATION

**Mission:** The mission of the Early Childhood Education program is to provide educational and training opportunities to a diverse population of students who plan to work with children and their families in programs providing care and early education.

### Program Level Outcomes:

- Implement competency-based education, skill standards, and certification in program curricula.
- Provide and maintain a model learning environment.

**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.

**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.

**Entrance Requirements:** Students may begin their study in these 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 required to enroll in ECE and ED courses above 100 level. Some courses also require permission of the faculty advisor to enroll.

### Career Opportunities:

- Pre-School Teacher or Assistant
- Child Care Provider
- Child Care Center Teacher
- Child Care Center Director
- Paraeducator

**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 1.877.527.4333 or 509.527.5744.

## Degrees

### Associate in Applied Arts and Sciences

#### *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.

**Degree available at/via:** [Walla Walla] [Clarkston]

### Degree Outcomes:

- Demonstrate competency in instructing and caring for children in early learning settings to include 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 learning settings.
- Demonstrate knowledge of strategies to promote, facilitate and extend learning for all children.
- Understand child development and how to facilitate learning.
- 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.

### Early Childhood Education Certificate

Upon completion of the year one requirements students may earn a Early Childhood Education Certificate. (EPC: 402C).

### 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
ED 265, Instructional Strategies English as a Second Language .....	3
ECE 144, Early Childhood Education Seminar* .....	1
<b>Total Credits .....</b>	<b>14</b>

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
ENGL 097, Basic Expository Writing (W) .....	5
<b>Total Credits .....</b>	<b>18</b>

Quarter Three	Credits
CMST& 220, Public Speaking (O) .....	5
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
<b>Total Credits .....</b>	<b>18</b>
<b>Year One Total .....</b>	<b>50</b>



# EARLY CHILDHOOD EDUCATION – EDUCATION PARAPROFESSIONAL

## 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
EDUC& 114, Child Development .....	3
MATH 065, Introductory Algebra (M) .....	5
<b>Total Credits .....</b>	<b>17</b>

Quarter Two	Credits
ECE 219, Child, Family and Community Relationships .....	3
ECE 242, Growth, Development and Guidance for School Ageds .....	3
ECE 261, Current Issues and Trends in Education .....	3
ECE 299, Leadership (L) .....	1
ECE 291, Cooperative Work Experience II**** .....	3
OCSUP 103, Job Seeking Skills (J) .....	3
<b>Total Credits .....</b>	<b>16</b>

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
PSYC& 100, General Psychology (R) .....	5
<b>Total Credits .....</b>	<b>18</b>
<b>Year Two Total .....</b>	<b>51</b>
<b>Grand Total .....</b>	<b>101</b>

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 144, Seminar may be substituted for ECE 148, Introduction to Childcare. 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) - ENGL 097, 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

## Economics

<http://wwcc.edu/economics>

Debora Frazier 509.527.4689 debbie.frazier@wwcc.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,

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.

**Mission:** The mission of the Social Sciences Division is to provide opportunities for students to better understand individual and group behavior, and develop skills to explore and analyze past and present society and culture.

### Program Level Outcomes:

- Prepare students to transfer to four-year institutions.
- Introduce concepts, terminology, and factual evidence of the respective disciplines using appropriate classroom assessment techniques.
- Develop written and oral communication and critical thinking skills that require analysis and synthesis of course content.
- Provide opportunities to better understand the impact of diverse cultures in historical context on individual and group behavior.

**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.

**Career Opportunities:** A major in economics is useful preparation for various careers because it develops analytical skills that can be used in many ways. Rising demand for economists stem from the growing complexity of the global economy, competition and increased reliance on quantitative methods for analyzing and forecasting business, sales, and other economic trends. People holding degrees in economics are increasingly recruited for positions of responsibility and authority in government, business and industry. Careers as a professional economist generally require graduate training. A greater need for economic analysis in virtually every industry should result in additional jobs for those trained in economics.

## Education Paraprofessional

AAAS, CERT

<http://wwcc.edu/education>

Melinda Brennan

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Michelle Meyer

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

**Department Overview:** Education Paraprofessional prepares students to enter the workforce as highly skilled paraeducators to fill an ever-expanding need in today's educational arena. The Education Paraprofessional curriculum is reviewed by an advisory board composed of local and regional educators.

**Mission:** The mission of the Education Paraprofessional Program is to provide educational and training opportunities

For the most current information see: [www.wwcc.edu](http://www.wwcc.edu)



## EDUCATION PARAPROFESSIONAL

to a diverse population of students who plan to work with children, youth and their families in school settings.

### Program Level Outcomes:

- Implement competency-based education, skill standards, and certification in program curricula.

**Degrees:** Students may earn an Associate in Applied Arts and Sciences Degree in Education Paraprofessional Upon completion of the two-year program of study. A Education Paraprofessional Certificate is available Upon completion of one year of the program.

An Associate in Applied Science-Transfer (AAS-T) degree in Elementary Education is also offered for students who plan to transfer.

**Industry Description:** Paraprofessionals are assistants in classroom settings who provide instructional support for pre K-12 classroom teachers. In recent years, there has been a significant increase in the number of paraeducators in the educational system as well as a shift in their roles and responsibilities. By providing students with individualized instruction, teacher assistants tutor and assist children in learning course material. Teacher assistants also supervise students in the cafeteria and playground. They record grades, set up equipment, and help prepare materials for instruction. Teacher assistants also are called teacher aides, instructional aides, paraeducators, or paraprofessionals. The new federal legislation, "No Child Left Behind", requires newly hired paraeducators to complete two years of college, an Associates Degree, or to pass a rigorous test.

**Entrance Requirements:** Students may begin their study in these programs 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 required to enroll in ECE and ED courses above 100 level. Some courses also require permission of the faculty advisor to enroll.

### Career Opportunities:

- Paraeducator
- Classroom Assistant
- Tutor
- Home School Liaison
- Bilingual Assistant
- Speech/Language Specialist

**Other Information:** State of Washington core competencies are included in Education Paraprofessional coursework. The Education Paraprofessional coursework is typically offered in late afternoon, evenings and on weekends to accommodate students who are working.

## Degrees

### Associate in Applied Arts and Sciences

#### *Associate in Applied Arts and Sciences Degree in Education Paraprofessional*

This technical degree prepares the student for employment 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.

**Degree available at/via:** [Walla Walla] [Clarkston]

### Degree Outcomes:

- Demonstrate competency in assisting in instruction of students in a school setting to include cognitive, physical and social emotional development of the child.
- Assist in implementation of school curriculum.
- Demonstrate appropriate professional and ethical behavior in school setting.
- Demonstrate knowledge of strategies to promote, facilitate and extend learning for all students.
- Understand child development and how to facilitate learning.
- 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.

### Paraeducator Certificate

Upon completion of the year one requirements students may earn a Paraeducator Certificate. (EPC: 839C).

### YEAR ONE

Quarter One	Credits
ED 175, Educational Assessment, Observation and Record Keeping .....	3
ED 232, Childrens Art and Literature for Educators .....	4
ED 255, Children at Risk .....	3
ED 265, Instructional Strategies English as a Second Language .....	3
ECE 144, Early Childhood Education Seminar* .....	1
<b>Total Credits .....</b>	<b>14</b>

Quarter Two	Credits
ECE 234, Child Nutrition, Health and Safety .....	3
ED 231, Curriculum Development .....	3
ED 236, Music and Movement .....	4
ED 191, Cooperative Work Experience** .....	3
ENGL 097, Basic Expository Writing (W) .....	5
<b>Total Credits .....</b>	<b>18</b>

Quarter Three	Credits
CMST& 220, Public Speaking (O) .....	5
ECE 150, Math & Science for Early Childhood .....	4
ED 160, Instructional Strategies Special Needs Students .....	3
ED 200, Practicum I: Teaching Young Children *** .....	3
ECE 144, Early Childhood Education Seminar* .....	1
OCSUP 299, Principles of Leadership (L) .....	1
<b>Total Credits .....</b>	<b>17</b>
<b>Year One Total .....</b>	<b>49</b>



# EDUCATION PARAPROFESSIONAL – ENERGY SYSTEMS TECHNOLOGY

## YEAR TWO

Quarter One	Credits
ECE 136, Environments for Young Children .....	3
ED 170, Guiding Behavior of Young Children .....	3
EDUC& 114, Child Development .....	3
EDUC& 202, Introduction to Education .....	5
MATH 065, Introductory Algebra (M) .....	5
<b>Total Credits .....</b>	<b>19</b>

Quarter Two	Credits
ECE 219, Child, Family and Community Relationships .....	3
ECE 242, Growth, Development and Guidance for School Ageds .....	3
ED 261, Current Issues and Trends in Education .....	3
ECE 144, Early Childhood Education Seminar* .....	1
ED 291, Cooperative Work Experience II**** .....	3
OCSUP 103, Job Seeking Skills (J) .....	3
<b>Total Credits .....</b>	<b>16</b>

Quarter Three	Credits
ED 137, Language Development and Literacy .....	3
ED 210, Practicum II: Teaching Young Children *** .....	3
EDUC& 203, Exceptional Child .....	3
PSYC& 100, General Psychology (R) .....	5
<b>Total Credits .....</b>	<b>14</b>
<b>Year Two Total .....</b>	<b>49</b>
<b>Grand Total .....</b>	<b>98</b>

EPC: 839

A certificate is available Upon completion of 36 ED credits and 9 credits of related instruction.

\* A maximum of 4 credits of ECE 144, Early Childhood Education Seminar is allowed, but only 2 credits is required. ECE 144 may be taken any quarter.

\*\* Students must complete at least one quarter of ED 191, Cooperative Work Experience I or ED 291, Cooperative Work Experience II before enrolling in practicum course.

\*\*\* A minimum of 3 credits ED 200, Practicum I: Teaching Young Children or ED 210, Practicum II: Teaching Young Children is required to complete a certificate.

\*\*\*\* 3 credits of ED 191, Cooperative Work Experience are required for the certificate and 6 credits of ED 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) - ENGL 097, 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

## Energy Systems Technology

AAAS, CERT

<http://wwcc.edu/energy>

Michael Houdak 509.527.4252 michael.houdak@wwcc.edu

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

**Department Overview:** Energy Systems Technology is designed to meet the emerging needs of the expanding energy industry. Students learn the principles of energy as they relate to electricity and refrigeration and air conditioning. The first year of the program emphasizes theories, principles and

basics of energy. Curriculum in the second year is driven by the student's interests, as he/she selects one of two specialty fields within the industry: Refrigeration and Air Conditioning or Electrical. Refrigeration and Air Conditioning students leave the program with skills necessary to begin immediate employment, while the Electrical degree is designed as a pre-apprenticeship preparation. Energy Systems Technology curriculum is reviewed by an advisory board composed of local and regional industry members.

**Mission:** To provide foundational and new technical education for the sustainable industries of electrical, heating, ventilation, air conditioning and refrigeration, and generation, with energy conservation and environmental training.

### Program Level Outcomes:

- Develop marketable technical and interpersonal skills in the trade, 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 industry.
- 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.

**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:** Production, transmission and utilization of energy have expanded rapidly during the past decade and are projected to continue at a robust level of growth in southeastern Washington. Southeastern Washington is a major producer of electrical power including hydroelectric power from dams on the Columbia and Snake Rivers, gas fired energy generation plants and the emerging technology of the wind turbine. This expansion combined with a growing retirement eligible workforce continues to have a significant impact on the expansion of employment opportunities for technically trained energy systems technicians in the area.

Energy Systems Technology encompasses two subspecialty areas of study: Refrigeration and Air Conditioning and Electrical. Refrigeration and Air Conditioning Technicians are involved in the design, fabrication, installation, service and maintenance of heating, cooling, refrigeration controls 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



# ENERGY SYSTEMS TECHNOLOGY

voltage industrial electrical wiring, as well as DC and AC motor controls and electrical distribution systems.

**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.

## Career Opportunities:

- Electrician
- Instrument Technician
- Control Technician
- Relay Technician
- Meter Technician
- Millwright
- Refrigeration and Air Conditioning
- Installer/Technician
- Industrial Mechanic
- Furnace Installer/Mechanic
- Service Manager

## Degrees

### Associate in Applied Arts and Sciences

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 knowledge of electrical safety, theory, vocabulary, and calculations of series, parallel, and combination circuits involving Direct and Alternating Current.
- Demonstrate basic knowledge of electrical theory, vocabulary, capacitors, resistive-inductive-capacitive reactance in series and parallel circuits, filters, resonance, single and three-phase transformers, DC generators, DC motors, Three-Phase Alternators, Three-phase and single phase Motors.
- Recognize emergency situations and react accordingly.
- Design, assemble and test various types of electrical control circuits.
- Describe proper safety procedures for working with

pressurized systems and vessels, electric energy, heat, cold, rotating machinery, chemicals, and moving heavy objects.

- Demonstrate the ability to test SS devices.
- Troubleshoot operational system using PLC.
- Read N.E.C. 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.

## Refrigeration and Air Conditioning Certificate

Upon completion of the first three quarters students may earn a Refrigeration and Air Conditioning Certificate. (EPC: 703C).

### 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
<b>Total Credits .....</b>	<b>18</b>

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
<b>Total Credits .....</b>	<b>23</b>

Quarter Three	Credits
EST 120, Air Conditioning Systems .....	6
EST 130, Introduction to Controls .....	5
EST 150, Electric Motor and Controls .....	6
EST 200, Ductwork Design and Fabrication .....	3
OCSUP 101, Job Psychology: Workplace and Educational Success Skills (R) .....	3
<b>Total Credits .....</b>	<b>23</b>

Quarter Four	Credits
EST 191, Cooperative Work Experience* .....	12
EST 192, Cooperative Seminar (L)* .....	2
<b>Total Credits .....</b>	<b>14</b>
<b>Year One Total .....</b>	<b>78</b>

### 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
<b>Total Credits .....</b>	<b>18</b>

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
<b>Total Credits .....</b>	<b>21</b>
<b>Year Two Total .....</b>	<b>39</b>
<b>Grand Total .....</b>	<b>117</b>

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

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, WRITE 110  
 (L) - EST 192  
 (M) - MATH 050, OCSUP 106  
 (O) - CMST 102, CMST& 220, OCSUP 102  
 (R) - OCSUP 101, PSYC 111, PSYC& 100

## Degrees

### Associate in Applied Arts and Sciences

#### 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.
- Demonstrate operational knowledge of heat; electric, gas, oil, heat pumps, gas piping, venting, and hydraulic.
- 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.
- Measure or calculate pressures, temperature, superheat, subcooling, compression ratio, plot pressure enthalpy diagram, and measure voltage, current on RAC systems.
- Demonstrate an understanding of air flow, psychrometrics, energy measurement and conservation.

**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.

## Electrical Certificate

Upon completion of the first three quarters students may earn an Electrical Certificate. (EPC: 703C).

### 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
<b>Total Credits .....</b>	<b>16</b>

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
<b>Total Credits .....</b>	<b>16</b>

Quarter Three	Credits
EST 130, Introduction to Controls .....	5
EST 150, Electric Motor and Controls .....	6
EST 159, Hydraulics and Pneumatics .....	3
EST 254, Generators / Alternators / Transformers .....	5
<b>Total Credits .....</b>	<b>19</b>

Quarter Four	Credits
EST 191, Cooperative Work Experience**** .....	18
EST 192, Cooperative Seminar (L)**** .....	2
<b>Total Credits .....</b>	<b>20</b>
<b>Year One Total .....</b>	<b>71</b>

### YEAR TWO

Quarter One	Credits
EST 240, Intro to Basic Electronics .....	5
EST 249, Power Generation and Distribution .....	5
OCSUP 102, Oral Communication in the Workplace (O) .....	3
<b>Total Credits .....</b>	<b>13</b>

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
<b>Total Credits .....</b>	<b>13</b>

Quarter Three	Credits
TRK 101, CDL Training*** .....	12
<b>Total Credits .....</b>	<b>12</b>
<b>Year Two Total .....</b>	<b>38</b>
<b>Grand Total .....</b>	<b>109</b>

EPC: 784

\* Students are required to complete either OCSUP 107, Intro to Technical Math or MATH 065, Introductory Algebra for a AAAS degree. 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, WRITE 110  
 (L) - EST 192  
 (M) - MATH 065, OCSUP 107  
 (O) - CMST 102, CMST& 220, OCSUP 102  
 (R) - OCSUP 101, PSYC 111, PSYC& 100

For the most current information see: [www.wvcc.edu](http://www.wvcc.edu)



## English

<http://wwcc.edu/english>

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Nanqi You	509.527.4583	<a href="mailto:nanqi@wwcc.edu">nanqi@wwcc.edu</a>
Virginia McConnell- Clk	509.758.1709	<a href="mailto:virginia.mcconnell@wwcc.edu">virginia.mcconnell@wwcc.edu</a>

**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.

**Mission:** The Humanities Division seeks to enrich students' lives through exploration of the diversity of human expressions and cultures as well as to build a foundation for life-long learning - including successful future academic achievement - through writing, literature, language arts and philosophy.

### Program Level Outcomes:

- To provide a variety of courses in order to enrich students' lives and build a foundation for lifetime learning.
- To provide students with a variety of courses that prepare them for transfer to four year institutions with academic skills needed to succeed in upper division work.
- To encourage students to explore and develop critical thinking and creative thinking.
- To help students develop and perfect writing skills.
- To assist students in appreciating, understanding, and using the terminology and concepts of each course.
- To develop increased aesthetic appreciation as well as increased cultural awareness.

**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.

**Career Opportunities:** A college degree in English is an

excellent foundation for a variety of careers that require good communication skills. English majors routinely find employment in education, business, and technology.

**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>

Ellen Harley	509.527.3688	<a href="mailto:ellen.harley@wwcc.edu">ellen.harley@wwcc.edu</a>
Janet Danley- Clk	509.758.1703	<a href="mailto:janet.danley@wwcc.edu">janet.danley@wwcc.edu</a>

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

**Department Overview:** The ESL Department's mission is to elevate students' aspirations and to provide basic skills instruction that will enable students to further their education in preparation for entering the workforce and better participate in the social, cultural, and economic environment. Courses in English as a Second Language are offered to LEP (limited English proficient) students. Students are tested and placed at one of six levels according to their ability, and progress is determined by CASAS testing. English as a Second Language 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 language teaching techniques to meet the needs of students. The teachers and students work together in a communicative classroom setting with special emphasis given to community, civic, personal, and workplace topics.

**Entrance Requirements:** Non-native speakers are placed by CASAS Form 20 in Levels I thru V. Registration takes place in the Multi-Cultural Center. Students may register any time during the quarter and there is a \$25 fee per quarter.



## **Enology and Viticulture**

AAAS, CERT

<http://wwcc.edu/wine>

Valerie Fayette 509.524.5175 [valerie.fayette@wwcc.edu](mailto:valerie.fayette@wwcc.edu)

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

**Department Overview:** The Institute 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 and a certified nursery 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 chemical analyses.

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, with special emphasis given to Southeastern Washington wine grape varieties and wines. 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.

**Mission:** The mission of the Walla Walla Institute for Enology and Viticulture is to facilitate alliances with vintners and viticulturists in the Walla Walla Valley Appellation and the State of Washington, as well as to promote the economic development of the wine industry and to provide education and training for those in this industry.

**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 farming wine grapes, is available Upon completion of the first year of the program. An Enology Certificate, which is dedicated to the science of wine making, is available 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.

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 Enology and Viticulture, and take electives based upon their intended degree program. The AA Degree contains many of the prerequisite courses for transfer to the Washington

Sate University for students wanting to pursue a B.S. Degree in Viticulture and/or Enology.

**Industry Description:** Wine production in the state of Washington has rapidly grown to become a \$3 billion industry, with more than 30,000 acres of vineyards, 275 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 70 in only ten 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 may enter the program fall, winter or spring quarter, however, due to course sequencing it is recommended to begin in the fall. The Student Development Center offers a placement test and student orientation both of which must be completed prior to admittance to the program. 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 Institutes instructors. Students are required to have instructor permission prior to enrolling in the program. After acceptance to the program, students will be required to make a deposit. Students enrolling in courses focusing on winemaking must be 18 years of age or older and must be able to lift 50 lbs.

### **Career Opportunities:**

- Vineyard Managers
- Cellar Masters
- Viticulturists
- Winemakers
- Lab Technicians
- Wine Sales and Promotion
- Vineyard and Winery Equipment Sales Representative

**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.

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## Degrees

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### **Associate in Applied Arts and Sciences**

#### ***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).



# ENOLOGY AND VITICULTURE

**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 can readily adjust their coursework to facilitate this transfer. Core professional technical courses for this program are open-entry and open-exit in most instances. Support and related instruction courses are offered on a quarterly basis and some are available via Extended Learning.

## YEAR ONE

Quarter One	Credits
AGPR 120, Agricultural Chemistry ***	5
AGPR 201, Basic Soil Science	5
EV 196, Viticulture Practicum I	1
EV 107, Winemaking for Viticulture	5
WMGT 112C, Hydraulics and Soil	1
WMGT 112D, Plant Water Use	1
<b>Total Credits</b>	<b>18</b>

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
<b>Total Credits</b>	<b>19</b>

Quarter Three	Credits
AGPR 105, Weed Biology and Identification	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
<b>Total Credits</b>	<b>21</b>
<b>Year One Total</b>	<b>58</b>

## YEAR TWO

Quarter One	Credits
CMST& 220, Public Speaking (O)	5
EV 286, Winemaking Practicum I	3

ENGL& 101, English Composition I (W)	5
EV 203, Science of Winemaking I	3
<b>Total Credits</b>	<b>16</b>

Quarter Two	Credits
EV Elective Offering(s)**	5
EV 287, Winemaking Practicum II	1
EV 108, Wine Industry Marketplace (J)	3
EV 204, Science of Winemaking II	5
PSYC& 100, General Psychology (R)	5
<b>Total Credits</b>	<b>19</b>

Quarter Three	Credits
AGRI 211, Small Business Management	5
EV Elective Offering(s)**	5
EV 288, Winemaking Practicum III	1
EV 205, Science of Winemaking III	5
<b>Total Credits</b>	<b>16</b>
<b>Year Two Total</b>	<b>51</b>
<b>Grand Total</b>	<b>109</b>

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: 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 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, CMST& 220, OCSUP 102

(R) - BUS 102, BUS 157, OCSUP 101, PSYC 111, PSYC& 100

## Certificates

### Certificate

#### 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 growing grapes. 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.

**Degree available at/via: [Walla Walla]**

## Degree Outcomes:

- Plan and equip a new vineyard, propagate grape vines, and provide post-planting care.



## ENOLOGY AND VITICULTURE

- 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.

(L) - EV 299

(M) - MATH 065

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

(R) - BUS 102, BUS 157, OCSUP 101, PSYC 111, PSYC& 100

### YEAR ONE

Quarter One	Credits
AGPR 120, Agricultural Chemistry ***	5
AGPR 201, Basic Soil Science	5
EV 196, Viticulture Practicum I	1
EV 107, Winemaking for Viticulture	5
WMGT 112C, Hydraulics and Soil	1
WMGT 112D, Plant Water Use	1
<b>Total Credits</b>	<b>18</b>

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
<b>Total Credits</b>	<b>19</b>

Quarter Three	Credits
AGPR 105, Weed Biology and Identification	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
<b>Total Credits</b>	<b>21</b>
<b>Year One Total</b>	<b>58</b>
<b>Grand Total</b>	<b>58</b>

EPC: 121C

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

\* 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: 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 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

## Certificates

### Certificate

#### 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.

#### 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.

### YEAR ONE

Quarter One	Credits
CMST& 220, Public Speaking (O)**	5
ENGL& 101, English Composition I (W)	5
EV 203, Science of Winemaking I	3
EV 286, Winemaking Practicum I	1 - 3
<b>Total Credits</b>	<b>14-16</b>

Quarter Two	Credits
EV Elective Offering(s)*	5
EV 287, Winemaking Practicum II	1
EV 108, Wine Industry Marketplace (J)	3
EV 204, Science of Winemaking II	5
PSYC& 100, General Psychology (R)	5
<b>Total Credits</b>	<b>19</b>

Quarter Three	Credits
AGRI 211, Small Business Management	5
EV Elective Offering(s)*	5
EV 288, Winemaking Practicum III	1
EV 205, Science of Winemaking III	5
<b>Total Credits</b>	<b>16</b>
<b>Year One Total</b>	<b>49-51</b>
<b>Grand Total</b>	<b>49-51</b>



## ENOLOGY AND VITICULTURE – FARRIER SCIENCE

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.

\* EV elective offerings: 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, CMST& 220, OCSUP 102

(R) - BUS 102, BUS 157, OCSUP 101, PSYC 111, PSYC& 100

### Environmental Studies

<http://www.wbcc.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.

**Mission:** The Science Division seeks to provide students with a diverse array of physical and life science classes through which they will develop an increased awareness and understanding of scientific knowledge and the scientific method of investigation by which this knowledge has been gained.

**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 into most Allied Health related programs.

### Family and Consumer Studies

<http://wwwcc.edu/parenteducation>

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

**Department Overview:** Parent Education courses are offered to help promote the development of knowledge and skills for strong and healthy families. Courses are offered for parents and their toddlers or preschool age children. These courses include topics based on participant interest and need and are offered both on campus and at off-campus locations. Family and Consumer Studies 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.

### Farrier Science

AAAS, CERT

<http://wwwcc.edu/farrier>

Jeffrey Engler 509.527.42911 [jeffrey.engler@wwwcc.edu](mailto:jeffrey.engler@wwwcc.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.

**Mission:** Walla Walla Community College's Farrier Science program trains students to become professional, prepared farriers with the knowledge and skills necessary to work on many types of horses.

**Program Level Outcomes:**

- Implement competency-based education, skill standards, and program certification.



## **FARRIER SCIENCE – FIRE SCIENCE**

- 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 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.

### **Degrees**

#### **Associate in Applied Arts and Sciences**

##### **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.

#### **Farrier Science Certificate**

Upon completion of the year one requirements students may earn a Farrier Science Certificate. (EPC: 120C).

#### **YEAR ONE**

<b>Quarter One</b>	<b>Credits</b>
ART 115, Drawing for Farrier Science .....	1
FRR 194, Basic Shoeing .....	18
WRITE 100, Applied Writing (W) .....	3
<b>Total Credits .....</b>	<b>22</b>

<b>Quarter Two</b>	<b>Credits</b>
BIOL 170, Applied Equine Biology .....	3
FRR 195, Intermediate Shoeing .....	18
FRR 162, Small Business Management for Farriers .....	2
OCSUP 102, Oral Communication in the Workplace (O) .....	3
<b>Total Credits .....</b>	<b>26</b>

<b>Quarter Three</b>	<b>Credits</b>
FRR 197, Advanced Shoeing .....	18
FRR 299, Leadership (L) .....	1
OCSUP 101, Job Psychology: Workplace and Educational Success Skills (R) .....	3
<b>Total Credits .....</b>	<b>22</b>
<b>Year One Total .....</b>	<b>70</b>

#### **YEAR TWO**

<b>Quarter One</b>	<b>Credits</b>
FRR 245, Advanced Hoof Preparation and Shoeing .....	16
OCSUP 106, Applied Mathematics I (M) .....	5
<b>Total Credits .....</b>	<b>21</b>

<b>Quarter Two</b>	<b>Credits</b>
FRR 255, Advanced Forging - Homemade Shoe Unit .....	16
OCSUP 103, Job Seeking Skills (J) .....	3
<b>Total Credits .....</b>	<b>19</b>

<b>Quarter Three</b>	<b>Credits</b>
FRR 283, Therapeutic Shoeing .....	16
<b>Total Credits .....</b>	<b>16</b>
<b>Year Two Total .....</b>	<b>56</b>
<b>Grand Total .....</b>	<b>126</b>

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, WRITE 110

(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**

**AAAS, CERT**

<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

For the most current information see: [www.wwcc.edu](http://www.wwcc.edu)



## FIRE SCIENCE

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.

**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.

### Career Opportunities:

- Firefighters
- Fire Inspectors
- Emergency Medical Technicians (EMT)

- Forest Service Firefighters
- Forest Service Fire Inspectors
- Forest Service Fire Prevention Specialists

**Other Information:** Students are encouraged to apply for positions in the sleeper program, in which lodging is provided in exchange for taking calls.

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## Degrees

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### Associate in Applied Arts and Sciences

#### ***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.



# FIRE SCIENCE – FRENCH

## Fire Science Certificate

Upon completion of the year one requirements students may earn a Fire Science Certificate. (EPC: 828C).

### YEAR ONE

Quarter One	Credits
CMST& 220, Public Speaking (O) .....	5
FCA 100, Introduction to Firefighting (J) .....	4
WRITE 100, Applied Writing * .....	3
<b>Total Credits</b> .....	<b>12</b>

Quarter Two	Credits
FCA 111, Fundamentals of Firefighting .....	5
FCA 137, Fire Protection Systems .....	3
MATH& 107, Math in Society (M) .....	5
<b>Total Credits</b> .....	<b>13</b>

Quarter Three	Credits
FCA 115, Advanced Firefighting .....	8
FCA 177, Wildland Fire Management .....	3
HO 130, Emergency Medical Technician - Basic (EMT-B) Program .....	10
<b>Total Credits</b> .....	<b>21</b>
<b>Year One Total</b> .....	<b>46</b>

### YEAR TWO

Quarter One	Credits
CHEM& 110, Chemical Concepts with Lab .....	5
ENGL& 101, English Composition I (W) .....	5
FCA 105, Hydraulics .....	3
FCA 160, Fire Tactics I .....	3
<b>Total Credits</b> .....	<b>16</b>

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
<b>Total Credits</b> .....	<b>17</b>

Quarter Three	Credits
FCA 285, Public Safety Educator I .....	2
FCA 152, Building Construction .....	3
FCA 299, Leadership (L) .....	3
SOC& 101, Introduction to Sociology .....	5
<b>Total Credits</b> .....	<b>13</b>
<b>Year Two Total</b> .....	<b>46</b>
<b>Grand Total</b> .....	<b>92</b>

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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Edith Liebrand

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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.

**Mission:** The Humanities Division seeks to enrich students' lives through exploration of the diversity of human expressions and cultures as well as to build a foundation for life-long learning - including successful future academic achievement - through writing, literature, language arts and philosophy.

### Program Level Outcomes:

- To provide a variety of courses in order to enrich students' lives and build a foundation for lifetime learning.
- To provide students with a variety of courses that prepare them for transfer to four year institutions with academic skills needed to succeed in upper division work.
- To encourage students to explore and develop critical thinking and creative thinking.
- To help students develop and perfect writing skills.
- To assist students in appreciating, understanding, and using the terminology and concepts of each course.
- To develop increased aesthetic appreciation as well as increased cultural awareness.

**Entrance Requirements:** There is no prerequisite for FRCH& 121. The series of French courses numbered FRCH& 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.



**Career Opportunities:** In preparing to meet the challenges of a rapidly changing and interdependent world, modern language expertise plays an increasingly important role. In many areas (business, education, communications, social work, technical and engineering positions, science, law, medicine, etc.), knowledge of a second language is not only desirable but necessary.

**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.wwcc.edu/geography>

Michael Mahan 509.527.4692 michael.mahan@wwcc.edu

**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.

**Mission:** The Science Division seeks to provide students with a diverse array of physical and life science classes through which they will develop an increased awareness and understanding of scientific knowledge and the scientific method of investigation by which this knowledge has been gained.

#### **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.

**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.

**Career Opportunities:** Geographers analyze distributions of physical and cultural phenomena on local, regional, continental, and global scales. Economic geographers study the distribution of resources and economic activities. Political geographers are concerned with the relationship of geography to political phenomena, whereas cultural geographers study the geography of cultural phenomena. Physical geographers study variations in climate, vegetation, soil, and landforms and their implications for human activity. Urban and transportation geographers study cities and metropolitan areas, while regional geographers study the physical, economic, political, and cultural characteristics of regions ranging in size from a congressional district to entire continents. Medical geographers study health-care delivery systems, epidemiology (the study of the causes and control of epidemics), and the effect of the environment on health.

### Geology

<http://wwcc.edu/geology>

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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.

**Mission:** The Science Division seeks to provide students with a diverse array of physical and life science classes through which they will develop an increased awareness and understanding of scientific knowledge and the scientific method of investigation by which this knowledge has been gained.

#### **Program Level Outcomes: Goals:**

- 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 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.

**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.

**Career Opportunities:** Geologists often begin their careers in field exploration or as research assistants or technicians in laboratories or offices. They are given more difficult assignments as they gain experience. Eventually, they may be promoted to project leader, program manager, or some other management and research position.

A bachelor's degree is adequate for a few entry-level positions, but geologists increasingly need a master's degree in a natural science. A master's degree also is the minimum educational requirement for most entry-level research positions in private industry, Federal agencies, and State geological surveys. A doctoral degree is necessary for most high-level research positions.

## History

<http://wwcc.edu/history>

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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.

**Mission:** The mission of the Social Sciences Division is to provide opportunities for students to better understand individual and group behavior, and develop skills to explore and analyze past and present society and culture.

**Program Level Outcomes:**

- Prepare students to transfer to four-year institutions.

- Introduce concepts, terminology, and factual evidence of the respective disciplines using appropriate classroom assessment techniques.
- Develop written and oral communication and critical thinking skills that require analysis and synthesis of course content.
- Provide opportunities to better understand the impact of diverse cultures in historical context on individual and group behavior.

**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 course in the social sciences and humanities.

**Career Opportunities:** History provides a wide range of career opportunities which may include: government agencies (archives, libraries, museums, parks) politics, law firms, nonprofit organizations, journalism and education.

## 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, 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.

**Mission:** The Humanities Division seeks to enrich students' lives through exploration of the diversity of human expressions and cultures as well as to build a foundation for life-long learning - including successful future academic achievement - through writing, literature, language arts and philosophy.

**Program Level Outcomes:**

- To provide a variety of courses in order to enrich students' lives and build a foundation for lifetime learning.
- To provide students with a variety of courses that prepare them for transfer to four year institutions with academic skills needed to succeed in upper division work.
- To encourage students to explore and develop critical thinking and creative thinking.
- To help students develop and perfect writing skills.
- To assist students in appreciating, understanding, and using the terminology and concepts of each course.
- To develop increased aesthetic appreciation as well as increased cultural awareness.



## John Deere Dealership Management

### AAAS

<http://wwcc.edu/johndeeremanagement>

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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.

**Mission:** Training the workforce to success in industry, is a journey not a destination.

#### **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 manufacture. 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.

#### **Career Opportunities:**

- Service Technician
- Equipment Sales Personnel
- Dealership Managers
- John Deere Careers Page

## Degrees

### Associate in Applied Arts and Sciences

#### ***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.



# JOHN DEERE DEALERSHIP MANAGEMENT – JOHN DEERE TECHNOLOGY

**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 .....	2
<b>Total Credits .....</b>	<b>21</b>

Quarter Two	Credits
JDAS 190, Cooperative Work Experience I .....	16
<b>Total Credits .....</b>	<b>16</b>

Quarter Three	Credits
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
<b>Total Credits .....</b>	<b>23</b>

Quarter Four	Credits
JDAS 191, Cooperative Work Experience II** .....	16
<b>Total Credits .....</b>	<b>16</b>
<b>Year One Total .....</b>	<b>76</b>

## YEAR TWO

Quarter One	Credits
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
<b>Total Credits .....</b>	<b>26</b>

Quarter Two	Credits
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
<b>Total Credits .....</b>	<b>21</b>

Quarter Three	Credits
AGPR 140, Agriculture Safety and Health *** .....	3
AGPR 215, Field Crop Production ^^ .....	5
AGRI 222, Agricultural Policy .....	5
JDAS 221, Ag Management Solutions .....	1
JDAS 230, John Deere Harvesting Equipment .....	2
<b>Total Credits .....</b>	<b>16</b>
<b>Year Two Total .....</b>	<b>63</b>
<b>Grand Total .....</b>	<b>139</b>

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.

**Mission:** Provide education and training to prepare students to become John Deere professionals. Inspire positive work ethic, good communication skills, and strong technical skills needed in John Deere organizations.



## 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 manufacture. 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 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.

## Career Opportunities:

- Service Technician
- Equipment Sales Personnel
- Dealership Managers
- John Deere Careers Page

## Degrees

### Associate in Applied Arts and Sciences

#### **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
WRITE 100, Applied Writing (W)	3
<b>Total Credits</b>	<b>25</b>

Quarter Two	Credits
JD 190, Cooperative Work Experience I	16
<b>Total Credits</b>	<b>16</b>

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
WELD 141, Welding Basics	4
<b>Total Credits</b>	<b>25</b>

Quarter Four	Credits
JD 191, Cooperative Work Experience II	16
<b>Total Credits</b>	<b>16</b>
<b>Year One Total</b>	<b>82</b>

## YEAR TWO

Quarter One	Credits
JD 205, John Deere Hydraulics	9
JD 210, John Deere Power Train	9
OCSUP 101, Job Psychology: Workplace and Educational Success Skills (R)	3
<b>Total Credits</b>	<b>21</b>



# JOHN DEERE TECHNOLOGY – MATHEMATICS

## Quarter Two

JD 290, Cooperative Work Experience III .....	16
<b>Total Credits .....</b>	<b>16</b>

## Quarter Three

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
OCSUP 299, Principles of Leadership (L) .....	1
<b>Total Credits .....</b>	<b>25</b>
<b>Year Two Total .....</b>	<b>62</b>
<b>Grand Total .....</b>	<b>144</b>

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, WRITE 110

(L) - AGPR 299, BUS 192, OCSUP 299, POLS 125

(M) - MATH 049, OCSUP 106

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

(R) - BUS 157, OCSUP 101, PSYC 111, PSYC& 100, WMGT 192, WMGT 292

## Library

<http://wwcc.edu/library>

**Department Overview:** The Library Department provides instructional resources and services to students, faculty, staff, and community patrons. Its resources are appropriate to the curriculum in both format and content. Its collections are well-organized and easily available, its technology is current, and its service is fast, courteous and knowledgeable. Instruction in using the library is provided through individual consultation, to courses, or to students who enroll in LIB 110, Introduction to Information Resources.

**Other Information:** Materials can be accessed in person, on-line, through inter-library loan, and through the Walnet system. Individuals may learn about resources and opportunities by taking LIB courses.

## 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.

**Mission:** To inspire, motivate, and support students in the development of their mathematical knowledge. To help students deepen their understanding of the significance of mathematics in our world and in their life goals.

### Program Level Outcomes:

- To prepare students to transfer to four-year institutions.
- To incorporate critical thinking experiences in each of the course offerings.
- To provide a wide range of courses satisfying the Quantitative Skills requirement for degrees offered by the college.
- To demonstrate that mathematics is not simply memorize and repeat discipline (skill and drill).
- To ensure that our course offerings/content remain current and relevant.
- To ensure that our faculty in the division are fully qualified and accessible to students.

**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.

**Career Opportunities:** Mathematics is the foundation upon which many other academic disciplines are built. Mathematics is used extensively in physics, statistics, engineering, and operations research. Many other fields, such as, chemistry, business and industrial management, economics, finance, geology, life sciences, and behavioral sciences are also dependent on mathematics. Some professionals, including statisticians and operations research analysts, are specialists in a particular branch of mathematics. Some pursue a graduate degree in mathematics to prepare themselves for research in the field of mathematics.



**Other Information:** The Math Lab, located in the Center for Academic Success, is a great place for students to work on math, whether or not they need help. The Math Lab is a comfortable and supportive atmosphere for students to come together and study, in groups or individually. There are tutors available to answer questions. The Math Lab does not provide long blocks of uninterrupted one-on-one tutoring.

### Medical Assisting

#### CERT

<http://wwcc.edu/medicalassisting>

Tami Mitchell 509.527.4330 tami.mitchell@wwcc.edu

**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.

**Mission:** Walla Walla Community College and the Medical Assisting program inspires students to discover their potential and to achieve their goals by providing diverse and challenging learning opportunities.

**Our mission is reflected in:**

**Excellence:** The environment is characterized by mutual respect and the pursuit of knowledge in an atmosphere grounded in tradition and with a focus on the future.

**Student Success:** Each student is valued as an individual within a diverse group and is supported to accomplish his/her career goals.

**Faculty Support:** Our faculty provides quality instruction that promotes critical thinking and analytical reasoning. Life long learning is emphasized.

**Partnerships:** The college partners with business, industry and other schools to contribute as a partner for economic development and stability.

#### Program Level Outcomes:

- To prepare WWCC Medical Assisting program graduates as competent entry level medical assistants having the knowledge base necessary for success in credentialing examinations and professional practice.
- To ensure that WWCC Medical Assisting program graduates are capable of performing the psychomotor skills expected of an entry level medical assistant in all the basic competencies of the profession.
- WWCC Medical Assisting program graduates will model professional behaviors which are exemplar of the high standards required by industry, their profession, and the larger community of healthcare providers, ensuring success as entry level medical assistants.

**Degrees:** 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.

**Entrance Requirements:** The Medical Assisting Program may be completed in four quarters of full time study, consisting of 61.5 credits of programmatic and related instruction. Depending upon placement testing, students may need to complete additional prerequisite coursework in computer and keyboarding skills.

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### Certificates

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#### Certificate

##### **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.



## MEDICAL ASSISTING – MUSIC

**Degree available at/via:** [Walla Walla]

### Degree Outcomes:

- Demonstrate characteristics of a patient advocate professional while serving as part of a team approach in the health care system. (affective)
- Recognize and respond effectively to verbal, nonverbal, and written communication in classroom, laboratory, and clinical settings. (cognitive)
- Properly perform patient education within the scope of practice and as directed by the physician in health maintenance, disease prevention, and compliance with the patient's treatment plan. (cognitive)
- Demonstrate proper application of the principles of aseptic technique and infection control in the laboratory and clinical settings. (psychomotor)
- Demonstrate ability to perform CLIA-waived laboratory tests, obtaining and analyzing appropriate specimens and reporting results within the scope of practice and as directed by the physician. (psychomotor)
- Display the ability to obtain, evaluate, and record patient history while employing critical thinking skills. (cognitive)
- Perform administrative functions including bookkeeping and financial procedures related to insurance reimbursement. (cognitive)
- Properly assist with patient examinations, procedures, and treatments within the scope of practice and as directed by the physician. (psychomotor)
- Render patient service with full respect for the dignity of their clients. (affective)
- Demonstrate understanding of the legal implications associated with confidentiality issues regarding patients and medical records. (cognitive)

**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
<b>Total Credits</b>	<b>18</b>

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
<b>Total Credits</b>	<b>14.5</b>

Quarter Three	Credits
MEDA 125, Clinical Procedures	10
MEDA 144, Medical Office Administrative Procedures *	5
MEDA 145, Office Emergencies for Medical Assistants	1
OT 232, Medical Insurance Procedures	5
<b>Total Credits</b>	<b>21</b>

Quarter Four	Credits
MEDA 191, Medical Assisting Practicum	7
MEDA 192, Medical Assisting Seminar (L)	1
<b>Total Credits</b>	<b>8</b>
<b>Year One Total</b>	<b>61.5</b>
<b>Grand Total</b>	<b>61.5</b>

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.

\* Students may take either MEDA 144, Medical Office Administrative Procedures or OT 231, Medical Office Procedures.

\*\* 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) - BUS 137, ENGL& 101, WRITE 100

(L) - MEDA 192

(M) - MEDA 105

(R) - MEDA 114

## Music

<http://wwcc.edu/music>

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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.

**Mission:** The Music department seeks to inspire students to discover their potential and to succeed in achieving their goals by providing a wide variety of guided appreciation and performance opportunities, a nurturing, creative atmosphere, and a challenging learning environment. The music curriculum is designed to guide each student along a path of musical enrichment, a lifelong exploration of the creative act of making and experiencing music.

### Program Level Outcomes:

- To encourage, guide, and nurture student's life-long appreciation of music.
- To provide learning opportunities for music students seeking to transfer to four-year institutions as well as those who have recreational interests in music.



## MUSIC – NURSING

- To enrich musical opportunities offered and available in the Walla Walla Valley.
- To encourage openness to diverse ways of cultural expression as manifested in music.
- To provide learning opportunities and challenges for students wishing to pursue occupational and professional careers in music.

**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.

**Career Opportunities:** A degree in music education prepares graduates to teach music in public elementary and secondary schools. A master or doctoral degree is usually required to teach music in colleges and universities. Musicians also teach in private schools and recreational associations as well instructing individual students in private instruction. Numerous opportunities are also available in the field of professional performance.

## Nursing

### ADN, CERT

<http://wwcc.edu/nursing>

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Susan Rammelsberg- Clk	509.758.1705	susan.rammelsberg@wwcc.edu

**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](http://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](http://www.nlnac.org)).

**Mission:** The nursing program operates within the framework and endorses the mission of Walla Walla Community College by providing an opportunity for students to discover their potential and achieve their goals. The mission of the nursing program is to promote the art and science of nursing by

developing professional, caring and competent nurses who are dedicated to enhancing the wellness of a culturally diverse population.

### Program Level 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.

**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 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).

**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.

### Career Opportunities:

- Acute Care Nurse
- Office/Clinic Nurse
- Extended Care Facility Nurse
- Home Health Nurse
- School Nurse
- Charge Nurse

**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.



## Degrees

### Associate Degree Nursing

#### 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]

**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: 2.5 for high school Chemistry, 2.0 for all college level classes.

**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 one year of high school chemistry (grade must be 2.5 or better), with the high school graduation date being within the past five years, or a five credit college level introductory chemistry course with a lab. Grade must be 2.0 or better.

**Mathematics:** Eligible to enter Math 095 (Intermediate Algebra) based on:

- Placement Tests offered by WWCC's Student Development Center, or
- Completion of Mathematics 065 Introductory Algebra (C- or better), or
- Evaluation of high school transcripts by the Math Department for proper placement.

**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:**

BIOL& 251, Human A & P I .....	5 credits
BIOL& 252, Human A & P II .....	5
BIOL& 260, Microbiology .....	5
ENGL& 101, English Composition .....	5

#### **BEFORE THE END OF FIRST YEAR (Support Courses):**

PSYC& 100, General Psychology .....	5 credits (by the end of fall quarter)
PSYC& 200, Lifespan Psychology .....	5 credits (by the end of winter quarter)
NUTR& 101, Nutrition .....	5 credits (by the end of spring quarter)

#### **BEFORE THE END OF WINTER QUARTER, SECOND YEAR (Support Course):**

CMST 102, Interpersonal Comm or .....	3 credits
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
<b>Total Credits .....</b>	<b>11</b>

Quarter Two	Credits
NURS 101, Beginning Nursing Concepts I .....	6
NURS 111, Practicum I .....	4
<b>Total Credits .....</b>	<b>10</b>

Quarter Three	Credits
NURS 102, Beginning Nursing Concepts II .....	6
NURS 112, Practicum II .....	4
NURS 197, Professional Development II .....	1
<b>Total Credits .....</b>	<b>11</b>
<b>Year One Total .....</b>	<b>32</b>

Quarter Four (Practical Nurse quarter – OPTIONAL)	Credits
NURS 103, Practical Nursing or .....	
NURS 104, LPN to ADN Transition .....	5
NURS 113, Practicum or .....	
NURS 114, Practicum: LPN to ADN Transition .....	7
<b>Total Credits .....</b>	<b>12</b>

#### **YEAR TWO**

Quarter One	Credits
NURS 200, Advanced Nursing Concepts I .....	7
NURS 210, Practicum III .....	6
<b>Total Credits .....</b>	<b>13</b>

Quarter Two	Credits
NURS 201, Advanced Nursing Concepts II .....	6
NURS 211, Practicum IV .....	6
NURS 232, Professional Development III .....	1
<b>Total Credits .....</b>	<b>13</b>

Quarter Three	Credits
NURS 202, Advanced Nursing Concepts III .....	7
NURS 212, Practicum V .....	6
<b>Total Credits .....</b>	<b>13</b>
<b>Year Two Total .....</b>	<b>39</b>

**TOTAL Nursing Credits .....71**  
**TOTAL PROGRAM CREDITS\* .....109**

*\*Includes support courses (38 cr). Does not include optional year one quarter four.  
 EPC: 323*



## NURSING – OCCUPATIONAL SUPPORT

### Certificates

#### Certificate

##### Practical Nursing

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).

**Degree available at/via:** [Walla Walla] [Clarkston]

**Program requirements for admission:** For a complete listing of program requirements prior to entering the PN program, please see the ADN requirements on the previous page.

#### 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 .....	5
NURS 113, Practicum or .....	
NURS 114, Practicum: LPN to ADN Transition .....	7
Total Credits .....	12

### Nutrition

<http://wwcc.edu/nutrition>

Jill Emigh 509.527.4558 [jill.emigh@wwcc.edu](mailto:jill.emigh@wwcc.edu)

**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.

**Mission:** The Science Division seeks to provide students with a diverse array of physical and life science classes through which

they will develop an increased awareness and understanding of scientific knowledge and the scientific method of investigation by which this knowledge has been gained.

#### 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 into most Allied Health related programs.

### Occupational Support

<http://wwcc.edu/ocsup>

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Jennifer Leber 509.527.4247 [jennifer.leber@wwcc.edu](mailto:jennifer.leber@wwcc.edu)  
Chad Miltenberger- Clk 509.527.4247 [chad.miltenberger@wwcc.edu](mailto:chad.miltenberger@wwcc.edu)

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

**Department Overview:** Occupational Support provides a series of courses in related instruction to include: communications, mathematics, and career planning that is designed to improve the students' opportunities in obtaining, maintaining, and advancing in their areas of employment.

**Degrees:** To meet the completion requirements of the AAAS degree, students are required to complete a minimum of 18 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.

**Entrance Requirements:** A placement test offered by the Student Development Center must be completed prior to enrolling in OCSUP courses.



## Oceanography

<http://www.wvcc.edu/oceanography>

Michael Mahan 509.527.4692 michael.mahan@wvcc.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.

**Mission:** The Science Division seeks to provide students with a diverse array of physical and life science classes through which they will develop an increased awareness and understanding of scientific knowledge and the scientific method of investigation by which this knowledge has been gained.

### 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 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 into most Allied Health related programs.

**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.

**Career Opportunities:** Environmental scientists (Oceanographers) and often begin their careers in field exploration or as research assistants or technicians in laboratories or offices. They are given more difficult assignments as they gain experience. Eventually, they may be promoted to project leader, program manager, or some other management and research position.

A bachelor's degree is adequate for a few entry-level positions, but environmental scientists and geoscientists increasingly need a master's degree in a natural science. A master's degree also is the minimum educational requirement for most entry-level research positions in private industry, Federal agencies, and State geological surveys. A doctoral degree is necessary for most high-level research positions.

## Office Technology

AAAS, CERT

<http://www.wvcc.edu/office>

Dan Biagi	509.527.4235	daniel.biagi@wvcc.edu
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Lisa Greenville- Clk	509.758.1715	lisa.greenville@wvcc.edu
Linda Lane- Clk	509.758.1724	linda.lane@wvcc.edu

### 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.

**Mission:** Because we believe the most critical factor of success is confidence, we make every effort to foster self-esteem throughout the department, empowering students to perform successfully in business-related careers and/or at the baccalaureate level.

### 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: Executive Administrative Assistant, Financial Administrative Assistant, Legal Administrative Assistant or Medical Administrative Assistant. Certificates in: Office Assistant, Legal Administrative Assistant, Medical Billing and Coding or 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.

### Career Opportunities:

- Bookkeeping Clerk
- Executive Administrative Assistant
- Financial Administrative Assistant
- Legal Administrative Assistant
- Legal Assistant
- Medical Administrative Assistant
- Medical Billing & Coding Clerk
- Medical Transcriptionist
- Office Assistant

## Degrees

### Associate in Applied Arts and Sciences

#### ***Associate in Applied Arts and Sciences Degree in Executive Administrative Assistant***

This technical degree prepares the student for immediate 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
<b>Total Credits .....</b>	<b>20</b>

Quarter Two	Credits
ACCT& 201, Prin of Accounting I * .....	5
CS 110, Introduction to Computers and Applications .....	5
OT 126, Intermediate Word Processing .....	5
<b>Total Credits .....</b>	<b>15</b>

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
<b>Total Credits .....</b>	<b>20</b>
<b>Year One Total .....</b>	<b>55</b>

### **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 .....	5
CMST 102, Interpersonal Communication (O) .....	3
<b>Total Credits .....</b>	<b>18-21</b>

Quarter Two	Credits
BUS 102, Customer Service .....	5
BUS 191, Cooperative Work Experience II .....	2 - 5
BUS 192, Business Leadership Seminar II (L) .....	3
OT 115, Specialized Transcription I .....	5
<b>Total Credits .....</b>	<b>15-18</b>

Quarter Three	Credits
BUS 291, Cooperative Work Experience III .....	2 - 5
BUS 292, Business Leadership Seminar III (J) .....	3
CS 222, Desktop Publishing (InDesign) .....	5
OT 127, Word Processing Applications .....	5
OT 200, Office Simulation .....	5
<b>Total Credits .....</b>	<b>20-23</b>
<b>Year Two Total .....</b>	<b>53-62</b>
<b>Grand Total .....</b>	<b>108-117</b>

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 292

(W) - BUS 137

(L) - BUS 192

(M) - BUS 112

(O) - CMST 102, CMST& 220

(R) - BUS 157



## Degrees

### Associate in Applied Arts and Sciences

#### **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, 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 112, Business Mathematics (M) .....	5
BUS 136, Business Communications I .....	5
OT 122, Records Management .....	5
OT 125, Introduction to Word Processing .....	5
<b>Total Credits</b> .....	<b>20</b>

Quarter Two	Credits
ACCT& 201, Prin of Accounting I * .....	5
CS 110, Introduction to Computers and Applications .....	5
OT 126, Intermediate Word Processing .....	5
<b>Total Credits</b> .....	<b>15</b>

Quarter Three	Credits
ACCT& 202, Prin of Accounting II .....	5
BUS 137, Business Communications II (W) .....	5
BUS 217, Computer Software Applications .....	5
OT 222, Records Management II .....	5
<b>Total Credits</b> .....	<b>20</b>
<b>Year One Total</b> .....	<b>55</b>

#### **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 .....	5
OT 218, Desktop Calculator .....	5
<b>Total Credits</b> .....	<b>20-23</b>

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
<b>Total Credits</b> .....	<b>13-16</b>

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
<b>Total Credits</b> .....	<b>20-23</b>
<b>Year Two Total</b> .....	<b>53-62</b>
<b>Grand Total</b> .....	<b>108-117</b>

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

## Degrees

### Associate in Applied Arts and Sciences

#### **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., 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.



# OFFICE TECHNOLOGY

## 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
<b>Total Credits .....</b>	<b>20</b>

Quarter Two	Credits
BUS 112, Business Mathematics (M) .....	5
CS 110, Introduction to Computers and Applications .....	5
OT 126, Intermediate Word Processing .....	5
<b>Total Credits .....</b>	<b>15</b>

Quarter Three	Credits
BIOL 119, Human Anatomy for Medical Office Professionals .....	5
BUS 137, Business Communications II (W) .....	5
OT 127, Word Processing Applications .....	5
OT 222, Records Management II .....	5
<b>Total Credits .....</b>	<b>20</b>
<b>Year One Total .....</b>	<b>55</b>

## YEAR TWO

Quarter One	Credits
ACCT& 201, Prin of Accounting I * .....	5
BUS 181, Cooperative Work Experience I .....	2 - 5
BUS 182, Business Leadership Seminar I .....	3
CMST 102, Interpersonal Communication (O) .....	3
OT 231, Medical Office Procedures .....	5
OT 280, Medical Terminology .....	5
<b>Total Credits .....</b>	<b>23-26</b>

Quarter Two	Credits
BUS 191, Cooperative Work Experience II .....	2 - 5
BUS 192, Business Leadership Seminar II (L) .....	3
OT 115, Specialized Transcription I .....	5
OT 218, Desktop Calculator .....	5
OT 234, Medical Coding .....	5
<b>Total Credits .....</b>	<b>20-23</b>

Quarter Three	Credits
BUS 291, Cooperative Work Experience III .....	2 - 5
BUS 292, Business Leadership Seminar III (J) .....	3
OT 116, Specialized Transcription II .....	5
OT 200, Office Simulation .....	5
OT 232, Medical Insurance Procedures .....	5
<b>Total Credits .....</b>	<b>20-23</b>
<b>Year Two Total .....</b>	<b>63-72</b>
<b>Grand Total .....</b>	<b>118-127</b>

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

## Degrees

### Associate in Applied Arts and Sciences

#### 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., 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
<b>Total Credits .....</b>	<b>20</b>

Quarter Two	Credits
ACCT& 201, Prin of Accounting I * .....	5
CS 110, Introduction to Computers and Applications .....	5
OT 126, Intermediate Word Processing .....	5
<b>Total Credits .....</b>	<b>15</b>

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
<b>Total Credits .....</b>	<b>23</b>
<b>Year One Total .....</b>	<b>58</b>

## 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 .....	5
OT 228, Legal Document Processing I .....	5
<b>Total Credits .....</b>	<b>20-23</b>



## OFFICE TECHNOLOGY

### Quarter Two

	Credits
BUS 191, Cooperative Work Experience II .....	2 - 5
BUS 192, Business Leadership Seminar II (L) .....	3
OT 115, Specialized Transcription I .....	5
OT 229, Legal Document Processing II .....	5
<b>Total Credits .....</b>	<b>15-18</b>

### 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
<b>Total Credits .....</b>	<b>15-18</b>
<b>Year Two Total .....</b>	<b>50-59</b>
<b>Grand Total .....</b>	<b>108-117</b>

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

## Certificates

### Certificate

#### 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.

**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.

### 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
<b>Total Credits .....</b>	<b>20</b>

#### Quarter Two

	Credits
BUS 112, Business Mathematics (M) .....	5
BUS 137, Business Communications II (W) .....	5
OT 126, Intermediate Word Processing .....	5
<b>Total Credits .....</b>	<b>15</b>

#### 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
<b>Total Credits .....</b>	<b>20</b>
<b>Year One Total .....</b>	<b>60</b>

### YEAR TWO

#### Quarter One

	Credits
ACCT& 201, Prin 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
<b>Total Credits .....</b>	<b>20-23</b>

**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

## Certificates

### Certificate

#### 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.

**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.



## OFFICE TECHNOLOGY – OUTDOOR POWER EQUIPMENT

- 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
<b>Total Credits .....</b>	<b>25</b>

#### 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
<b>Total Credits .....</b>	<b>25</b>

#### Quarter Three Credits

ACCT& 201, Prin 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
<b>Total Credits .....</b>	<b>20-23</b>

**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

## Certificates

### Certificate

#### 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.

**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.

### 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
<b>Total Credits .....</b>	<b>20</b>

#### Quarter Two Credits

BUS 112, Business Mathematics (M) .....	5
BUS 157, Human Relations in Business (R) .....	5
CS 110, Introduction to Computers and Applications .....	5
OT 115, Specialized Transcription I .....	5
<b>Total Credits .....</b>	<b>20</b>

#### Quarter Three Credits

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 116, Specialized Transcription II .....	5
OT 126, Intermediate Word Processing .....	5
<b>Total Credits .....</b>	<b>20-23</b>

**Year One Total ..... 60-63**

**Grand Total ..... 60-63**

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

## Outdoor Power Equipment

### CERT

<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 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.



## OUTDOOR POWER EQUIPMENT

**Mission:** The Outdoor Power Equipment program is dedicated to improving the skills of both novice and experienced technicians through increased fundamental and technical knowledge while learning in a shop environment with hands-on repair of consumer, commercial and recreational equipment.

### Program Level Outcomes:

- Implement competency-based education and skill standards.
- Develop 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 with benefits.
- 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:** Students may earn a Certificate as an Outdoor Power and Turf Equipment Technician Upon completion of three quarters of course instruction.

**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.

### Career Opportunities:

- Outdoor Power Equipment & other Small Engine Mechanic
- arm Equipment Mechanic
- Motorcycle Mechanic
- Recreational Vehicle Service Technician

- Parts Salesperson
- Combining WWCC's Outdoor Power Equipment certificate and the EETC certification increases opportunity for advancement within various career fields.

## Certificates

### Certificate

#### **Outdoor Power and Turf Equipment Technician Certificate**

Students may earn a Certificate as an Outdoor Power and Turf Equipment Technician Upon completion of three quarters of course instruction. This certificate allows students to acquire the master competencies to complete four EETC Certification Tests.

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

### Degree Outcomes:

- Identify different types of inventory control and ordering practices.
- Paint and condition turf equipment.
- Demonstrate proper handling, usage, and disposal of common chemicals and sealants used in the shop.
- Perform routine maintenance procedures and diagnostics on two- and four-cycle gasoline engine repair.
- Understand theory and diagnosis of starting and charging systems, testing, and rebuilding.
- Disassemble, diagnose, and repair transmissions, differentials, and drive axles.
- Operate and observe diesel engine operation and perform necessary timing and adjustments.
- Troubleshoot wide area mowers and specialty mowers, drive systems, hinge and pivot repair, deck repair, and spindle replacement.

### 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
<b>Total Credits .....</b>	<b>18</b>

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
<b>Total Credits .....</b>	<b>24</b>

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
<b>Total Credits .....</b>	<b>26</b>
<b>Year One Total .....</b>	<b>68</b>



# OUTDOOR POWER EQUIPMENT – PHYSICAL EDUCATION AND RECREATION

## 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
<b>Total Credits .....</b>	<b>14</b>
<b>Year Two Total .....</b>	<b>14</b>
<b>Grand Total .....</b>	<b>82</b>

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

## Philosophy

<http://wwcc.edu/philosophy>

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James Bower- Clk 509.758.1771 james.bower@wwcc.edu

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

**Department Overview:** Philosophy courses ask fundamental questions about how we can improve our thinking, our moral and political values, and our understanding of the meaning of life. Philosophy courses examine great ideas from the past as well as contemporary thinkers.

**Mission:** The Humanities Division seeks to enrich students' lives through exploration of the diversity of human expressions and cultures as well as to build a foundation for life-long learning - including successful future academic achievement - through writing, literature, language arts and philosophy.

### Program Level Outcomes:

- To provide a variety of courses in order to enrich students' lives and build a foundation for lifetime learning.
- To provide students with a variety of courses that prepare them for transfer to four year institutions with academic skills needed to succeed in upper division work.
- To encourage students to explore and develop critical thinking and creative thinking.
- To help students develop and perfect writing skills.
- To assist students in appreciating, understanding, and using the terminology and concepts of each course.
- To develop increased aesthetic appreciation as well as increased cultural awareness.

**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.

**Career Opportunities:** Most philosophy majors pursue college and university teaching careers; others, however, find rewarding careers in business, government, journalism, law, and human services, all of which are best pursued after earning a post-baccalaureate degree.

## Physical Education and Recreation

<http://wwcc.edu/pe>

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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.

**Mission:** The mission of the Physical Education and Recreation Division is to provide knowledge that encourages positive lifestyle practices, attitudes and values. The division is committed to promoting continual self-assessment and personal growth to enrich the quality of life.

### Program Level Outcomes:

- Diverse Offerings - create a balance between lifetime activity and team sport opportunities.
- Attractive Offerings - Create and modify courses to meet student interest. We want students to take our courses even after they have satisfied the PE requirement for graduation.
- Incorporate "Lifelong Learning" as the primary core ability in all HPER courses.

**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.

**Career Opportunities:** An increasing number of employers require fitness workers to have a bachelor's degree in a field related to health or fitness, such as exercise science or physical education. Some employers allow workers to substitute a college degree for certification, but most employers who require a bachelor's degree require both a degree and certification.



## Physics

<http://wwcc.edu/physics>

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Frank Skorina 509.527.4578 [frank.skorina@wwcc.edu](mailto: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 not limited to, the study of mechanics, gravitation, oscillations, fluids, thermodynamics, waves, optics, electricity, magnetism, relativity, quantum physics, and nuclear physics.

**Mission:** The Science Division seeks to provide students with a diverse array of physical and life science classes through which they will develop an increased awareness and understanding of scientific knowledge and the scientific method of investigation by which this knowledge has been gained.

### 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 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.

**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.

**Career Opportunities:** Persons with a physics background continue to be in demand in the areas of information technology, semiconductor technology, and other applied sciences. This trend is expected to continue; however, many of the new workers will have job titles such as computer software engineer, computer programmer, engineer, and systems developer, rather than physicist.

Opportunities may be more numerous for those with a master's degree, particularly graduates from programs preparing students for applied research and development, product design, and manufacturing positions in private industry. Many of these positions, however, will have titles other than physicist, such as engineer or computer scientist.

Persons with a bachelor's degree in physics or astronomy are not qualified to enter most physicist or astronomer research jobs but may qualify for a wide range of positions related to engineering, mathematics, computer science, and environmental science. Those who meet state certification requirements can become high school physics teachers, an occupation in strong demand in many school districts. Most states require new teachers to obtain a master's degree in education.

**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.

- 1) Student's interested in pursuing a major in physics, engineering, or other physical sciences should enroll in the 3-quarter sequence PHYS 201, 202, 203, a calculus-based series.
- 2) The other 3-quarter sequence, PHYS 121, 122, 123, 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.
- 3) For the student interested in a general survey of the science of physics, PHYS 110, a one-quarter, conceptual course is offered.

## Political Science

<http://wwcc.edu/politicalscience>

Jim Peitersen 509.527.4601 [james.peitersen@wwcc.edu](mailto: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.

**Mission:** The mission of the Social Sciences Division is to provide opportunities for students to better understand individual and group behavior, and develop skills to explore and analyze past and present society and culture.

### Program Level Outcomes:

- Prepare students to transfer to four-year institutions.
- Introduce concepts, terminology, and factual evidence of the respective disciplines using appropriate classroom assessment techniques.



## ***POLITICAL SCIENCE – PROFESSIONAL GOLF MANAGEMENT***

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- Develop written and oral communication and critical thinking skills that require analysis and synthesis of course content.
- Provide opportunities to better understand the impact of diverse cultures in historical context on individual and group behavior.

**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.

**Career Opportunities:** Political scientists study the origin, development, and operation of political systems and public policy. They conduct research on a wide range of subjects, such as relations between the United States and other countries, the institutions and political life of nations, the politics of rural vs. urban areas, and the decisions of the U.S. Supreme Court. Political science offers a wide range of career opportunities which may include: government agencies (archives, libraries, museums, parks) politics, law firms, nonprofit organizations, journalism and education.

### ***Professional Golf Management***

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AAAS, CERT

<http://wwcc.edu/golf>

Mike Rostollan 509.529.5678 [mike.rostollan@wwcc.edu](mailto: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.

**Mission:** To provide a comprehensive technical program and career training in Professional Golf Management which teaches the necessary skills and abilities needed for students to succeed in the professional golf industry.

**Program Level Outcomes:**

- Develop marketable technical and interpersonal skills in the trade, 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 industry.
- 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.

**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.

**Career Opportunities:**

- Club Professionals
- Equipment Manufacturer Representatives
- General Managers
- Golf Instructors/Coaches
- Golf Director
- Assistant Golf Professional

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### **Degrees**

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Associate in Applied Arts and Sciences

***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.

**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.

## Professional Golf Management Certificate

Upon completion of the first three quarters students may earn a Professional Golf Management Certificate. (EPC: 176C).

### 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
<b>Total Credits</b> .....	<b>22</b>
Quarter Two	Credits
ACCT& 201, Prin 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
<b>Total Credits</b> .....	<b>24</b>
Quarter Three	Credits
PGM 191, Cooperative Work Experience .....	18
PGM 192, Cooperative Seminar (R) .....	2
<b>Total Credits</b> .....	<b>20</b>
Quarter Four	Credits
PGM 291, Cooperative Work Experience II .....	18
PGM 292, Cooperative Seminar II (L) .....	2
<b>Total Credits</b> .....	<b>20</b>
<b>Year One Total</b> .....	<b>86</b>

### 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
<b>Total Credits</b> .....	<b>21</b>
Quarter Two	Credits
ACCT& 202, Prin of Accounting II .....	5
PGM 202, Golf Management IV .....	5
PGM 212, Teaching the Advanced Player .....	2
TURF 211, Turf Management .....	5
<b>Total Credits</b> .....	<b>17</b>
<b>Year Two Total</b> .....	<b>38</b>
<b>Grand Total</b> .....	<b>124</b>

EPC: 176

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, WRITE 110

(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>

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**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.

**Mission:** The mission of the Social Sciences Division is to provide opportunities for students to better understand individual and group behavior, and develop skills to explore and analyze past and present society and culture.

### Program Level Outcomes:

- Prepare students to transfer to four-year institutions.
- Introduce concepts, terminology, and factual evidence of the respective disciplines using appropriate classroom assessment techniques.
- Develop written and oral communication and critical thinking skills that require analysis and synthesis of course content.
- Provide opportunities to better understand the impact of diverse cultures in historical context on individual and group behavior.

**Preparation for Success:** A major in Psychology is strengthened by studies in research and statistics, as well as courses in anatomy and physiology.

**Career Opportunities:** Psychologists study the human mind and human behavior. Research psychologists investigate the physical, cognitive, emotional, or social aspects of human behavior. Psychologists in applied fields provide mental health care in hospitals, clinics, schools, or private settings.



## PSYCHOLOGY – SOCIOLOGY

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Psychologists apply their knowledge to a wide range of endeavors, including health and human services, computer science, management, education, law, and sports. In addition to a variety of work settings, psychologists may specialize in a number of different areas. Clinical and counseling psychologists work in counseling centers, independent or group practices, hospitals, or clinics helping mentally and emotionally disturbed clients adjust to life, or helping medical and surgical patients deal with illnesses or injuries.

Other fields in psychology include health, brain, counseling, school, and organizational and developmental psychology. Typically, a Master's degree or Ph.D. is required to pursue a professional career.

Employment may be found in clinics, social service agencies, business and industry, schools and universities, hospitals, corrections, human resources, and government services. Many psychologists are self-employed in private practice.

**Other Information:** Psychologists possess a wide range of personal characteristics as they constantly seek new information about people, things, and ideas. Intellectual curiosity and creativity, and the ability to think logically and methodically are fundamental personal traits. Objectivity, open-mindedness, and systematic work habits, as well as excellent written and oral communication skills, are important in all kinds of psychological research.

### Reading

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<http://www.wwcc.edu/reading>

Barbara Hoffman 509.527.4645 [barbara.hoffman@wwcc.edu](mailto:barbara.hoffman@wwcc.edu)

**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

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<http://www.wwcc.edu/science>

Michael Mahan 509.527.4692 [michael.mahan@wwcc.edu](mailto:michael.mahan@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.

**Mission:** The Science Division seeks to provide students with a diverse array of physical and life science classes through which they will develop an increased awareness and understanding of scientific knowledge and the scientific method of investigation by which this knowledge has been gained.

#### **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

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<http://www.wwcc.edu/sociology>

Susan Palmer 509.527.4545 [susan.palmer@wwcc.edu](mailto: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.

**Mission:** The mission of the Social Sciences Division is to provide opportunities for students to better understand individual and group behavior, and develop skills to explore and analyze past and present society and culture.



## SOCIOLOGY – TURF MANAGEMENT

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**Preparation for Success:** A major in Sociology is strengthened by studies in history, research and statistics.

**Career Opportunities:** A sociological approach is useful for many fields of study, as well as a variety of occupations. Many sociology students prepare for careers in criminal justice, social services, social research, health care, and other fields with an emphasis in social relationships and social structures.

Many individuals with training in a social science discipline teach in colleges and universities and in secondary and elementary schools.

### Spanish

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<http://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.

**Mission:** The Humanities Division seeks to enrich students' lives through exploration of the diversity of human expressions and cultures as well as to build a foundation for life-long learning - including successful future academic achievement - through writing, literature, language arts and philosophy.

#### **Program Level Outcomes:**

- To provide a variety of courses in order to enrich students' lives and build a foundation for lifetime learning.
- To provide students with a variety of courses that prepare them for transfer to four year institutions with academic skills needed to succeed in upper division work.
- To encourage students to explore and develop critical thinking and creative thinking.
- To help students develop and perfect writing skills.
- To assist students in appreciating, understanding, and using the terminology and concepts of each course.
- To develop increased aesthetic appreciation as well as increased cultural awareness.

**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.

**Career Opportunities:** Proficiency in more than one modern language increases potential for employment many areas, including business, education, medicine, technology, and social work. In our rapidly changing and interdependent world, knowledge of a second language is not only desirable but necessary.

### Turf Management

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AAAS, CERT

<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.

**Mission:** To provide comprehensive technical programs and career training to improve the lives and livelihood of qualified and willing students in the Pacific Northwest and beyond.

#### **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.



## TURF MANAGEMENT

**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.

### Career Opportunities:

- Assistant Golf Course Superintendents
- Assistant Sports Turf Managers
- Landscape Maintenance and Construction Crew Supervisors
- Parks Department Grounds Keepers
- School District Grounds Keepers
- Turf Technicians

**Other Information:** All courses are offered on campus or through Distance Learning. For more information on Distance Learning please contact the Turf Management program.

## Degrees

### Associate in Applied Arts and Sciences

#### ***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 (full)]

### 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 Technology, Turf Service Equipment Service Technician, and/or Water Management may be recommended to fulfill a student's areas of focus for the Turf Management Degree.

### ***Turf Management Certificate***

Upon completion of the first three quarters students may earn a Turf Management Certificate. (EPC: 160C).

### **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
<b>Total Credits .....</b>	<b>22</b>

Quarter Two	Credits
AGPR 202, Soils Fertility and Management .....	5
CMST& 220, Public Speaking (O) .....	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
<b>Total Credits .....</b>	<b>24</b>

Quarter Three	Credits
TURF 191, Cooperative Work Experience .....	16 - 25
TURF 192, Cooperative Seminar (R) .....	2
<b>Total Credits .....</b>	<b>18-27</b>

Quarter Four	Credits
TURF 291, Cooperative Work Experience II .....	16 - 25
TURF 292, Cooperative Seminar II (L) .....	2
<b>Total Credits .....</b>	<b>18-27</b>
<b>Year One Total .....</b>	<b>82-100</b>

### **YEAR TWO**

Quarter One	Credits
AGPR 140, Agriculture Safety and Health .....	3
TST 252, Turf Equipment Fundamentals .....	3
TURF 201, Turf Physiology .....	6
TURF 221, Landscape Maintenance and Construction .....	5
WRITE 100, Applied Writing (W) .....	3
<b>Total Credits .....</b>	<b>20</b>



# TURF MANAGEMENT – WATER MANAGEMENT

## Quarter Two

	Credits
AGPR 105, Weed Biology and Identification .....	5
TURF 211, Turf Management .....	5
TURF 231, Pesticides Licensing .....	3
WMGT 225, Irrigation Design .....	6
<b>Total Credits .....</b>	<b>19</b>
<b>Year Two Total .....</b>	<b>39</b>
<b>Grand Total .....</b>	<b>121-139</b>

EPC: 160

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, WRITE 110

(L) - CLS 180, TURF 292, TURF 299

(M) - BUS 112, MATH 049, OCSUP 106, OCSUP 108

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

(R) - TURF 192

## Water Management

AAAS, CERT

<http://wwcc.edu/water>

Gerald Anhorn 509.524.4809 gerald.anhorn@wwcc.edu

Greg Farrens 509.527.4250 greg.farrens@wwcc.edu

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.

**Mission:** The mission of the Water Management Program is the education of students (both novice and experienced) in the

newest technologies to provide conservation of water, energy and natural resources.

### 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



# WATER MANAGEMENT

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.

## Career Opportunities:

- Water District Manager
- Designer/Specifier
- Conservation District Personnel
- Installation Foreman
- Service Technician
- Field Technician
- Wholesale/Retail Sales Personnel
- Irrigation Manager
- Consultant
- Contractor
- Water Auditor

## Degrees

### Associate in Applied Arts and Sciences

#### ***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.
- Demonstrate competence with computer aided drafting software.
- Design basic drip systems.
- Analyze irrigation pumps and controls in relation to a complete irrigation system.
- Perform soil moisture measurements and water scheduling.
- 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.

## ***Irrigation Technology Certificate***

Upon completion of the first three quarters students may earn a Irrigation Technology Certificate. (EPC: 130C).

### **YEAR ONE**

<b>Quarter One</b>	<b>Credits</b>
EST 131, Principles of Electricity Theory *	5
OCSUP 106, Applied Mathematics I (M)	5
WMGT 100, Orientation to Irrigation	3
WMGT 112, Irrigation Principles	5
WMGT 135, Cultures of Water **	3
<b>Total Credits</b>	<b>21</b>

<b>Quarter Two</b>	<b>Credits</b>
CLS 180, Workforce Leadership Development	2
ENGR& 111, Engineering Graphics I	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
<b>Total Credits</b>	<b>22</b>

<b>Quarter Three</b>	<b>Credits</b>
WMGT 191, Cooperative Work Experience	16
WMGT 192, Cooperative Seminar (R)	2
<b>Total Credits</b>	<b>18</b>

<b>Quarter Four</b>	<b>Credits</b>
WMGT 291, Cooperative Work Experience II	18
WMGT 292, Cooperative Seminar II (L)	2
<b>Total Credits</b>	<b>20</b>
<b>Year One Total</b>	<b>81</b>

### **YEAR TWO**

<b>Quarter One</b>	<b>Credits</b>
AGPR 201, Basic Soil Science	5
CET 223, Hydraulics	4
OCSUP 103, Job Seeking Skills (J)	3
WMGT 204, Water Policy **	3
WMGT 241, Advanced Irrigation Systems	5
<b>Total Credits</b>	<b>20</b>

<b>Quarter Two</b>	<b>Credits</b>
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
WRITE 100, Applied Writing (W)	3
<b>Total Credits</b>	<b>20</b>

**Year Two Total ..... 40**

**Grand Total ..... 121**

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.

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



# WATER MANAGEMENT – WATERSHED ECOLOGY

(W) - BUS 137, ENGL 097, ENGL& 101, WRITE 100, WRITE 110

(L) - BUS 192, CLS 180, POLS 125, WMGT 292

(M) - BUS 112, MATH 050, OCSUP 106

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

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

Year One Total .....60

## Degrees

### Associate in Applied Arts and Sciences

#### **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:**

- 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
WMGT 112, Irrigation Principles .....	5
WMGT 135, Cultures of Water ** .....	3
WMGT 139, Watershed Management .....	3
WRITE 100, Applied Writing (W) .....	3
<b>Total Credits .....</b>	<b>14</b>

Quarter Two	Credits
CET 250, Introduction to GIS .....	3
CLS 180, Workforce Leadership Development (L) .....	2
WMGT Elective* .....	3
ENGR& 111, Engineering Graphics I .....	4
WMGT 230, Water and Energy Conservation *** .....	3
<b>Total Credits .....</b>	<b>15</b>

Quarter Three	Credits
BIOL 130, General Ecology .....	5
CET 160, Elementary Surveying .....	6
CET 251, Advanced GIS .....	3
OCSUP 108, Applied Mathematics II (M) .....	5
<b>Total Credits .....</b>	<b>19</b>

Quarter Four	Credits
WMGT 191, Cooperative Work Experience .....	10
WMGT 192, Cooperative Seminar (R) .....	2
<b>Total Credits .....</b>	<b>12</b>

#### **YEAR TWO**

Quarter One	Credits
AGPR 113, Plant Anatomy and Morphology .....	3
AGPR 201, Basic Soil Science .....	5
CET 223, Hydraulics .....	4
OCSUP 103, Job Seeking Skills (J) .....	3
WMGT 204, Water Policy ** .....	3
<b>Total Credits .....</b>	<b>18</b>

Quarter Two	Credits
CET 166, Introduction to Hydrology .....	3
CMST 102, Interpersonal Communication (O) .....	3
WMGT 220, Drip Irrigation *** .....	3
WMGT 221, Pump Applications .....	3
WMGT 225, Irrigation Design .....	6
<b>Total Credits .....</b>	<b>18</b>

Year Two Total .....36

Grand Total .....96

EPC: 130A

\* Electives include WMGT 110, Lawn and Turf Irrigation or WMGT 143, Lawn and Turf Troubleshooting.

\*\* 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.

\*\*\*\* If student's placement test score does not place them into OCSUP 108, Applied Math II, the student will have to complete OCSUP 106, Applied Math I and/or OCSUP 107, Intro to Technical Math with appropriate grade.

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

(M) - OCSUP 108

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

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

## Watershed Ecology

AAAS, CERT

<http://www.wbcc.edu/watershedecology>

**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.

**Mission:** Provide education and training to prepare students to work as environmental technicians. This includes advanced



## WATERSHED ECOLOGY

technical skills and experience, along with the completion of an AAAS degree and two years of relevant hands-on application of knowledge.

### 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 three quarters 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.

### Career Opportunities:

- Forest and conservation technicians
- Biological technicians Environmental science and protection technicians
- Environmental engineering technicians
- Aquatic Science Technician
- Biological Aide
- Biology Specimen Technician
- Conservation Agent
- Environmental Compliance Technician
- Environmental Engineering Assistant/Technician
- Environmental Technician
- Field Sampling Technician
- Grazing Aid
- Ground Water Technician
- Laboratory Associate
- Soil Technologist

**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 freshwater fish.
- 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.
- Familiar with restoration practices used to improve fish habitat and water quality, including techniques to stabilize slopes, and restore degraded stream channels.
- 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.
- Ability to write reports and give presentations.

**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.

### Watershed Ecology Certificate

Upon completion of the year one requirements students may earn a Watershed Ecology Certificate. (EPC: 165C).

### YEAR ONE

Quarter One	Credits
AGPR 113, Plant Anatomy and Morphology .....	3
Elective .....	3 - 5
WMGT 135, Cultures of Water .....	3
WMGT 139, Watershed Management .....	3
WRITE 100, Applied Writing (W) .....	3
<b>Total Credits .....</b>	<b>15-17</b>

### Degrees

#### Associate in Applied Arts and Sciences

#### **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.



## WATERSHED ECOLOGY – WELDING TECHNOLOGY

Quarter Two		Credits
CET 166, Introduction to Hydrology .....	3	
Elective .....	3 - 5	
ENGR& 111, Engineering Graphics I .....	4	
<b>Total Credits .....</b>	<b>10-12</b>	

Quarter Three		Credits
Elective .....	3 - 5	
<b>Total Credits .....</b>	<b>3-5</b>	

Quarter Four		Credits
WMGT 191, Cooperative Work Experience .....	4 - 10	
WMGT 192, Cooperative Seminar (R) .....	2	
<b>Total Credits .....</b>	<b>6-12</b>	
<b>Year One Total .....</b>	<b>34-46</b>	

### YEAR TWO

Quarter One		Credits
AGPR 201, Basic Soil Science .....	5	
BIOL 130, General Ecology .....	5	
WMGT 112, Irrigation Principles .....	5	
WMGT 204, Water Policy .....	3	
<b>Total Credits .....</b>	<b>18</b>	

Quarter Two		Credits
CET 250, Introduction to GIS .....	3	
OCSUP 103, Job Seeking Skills (J) .....	3	
WMGT 221, Pump Applications .....	3	
WMGT 230, Water and Energy Conservation .....	3	
<b>Total Credits .....</b>	<b>12</b>	

Quarter Three		Credits
CET 160, Elementary Surveying .....	6	
CET 251, Advanced GIS .....	3	
CLS 180, Workforce Leadership Development (L) .....	2	
OCSUP 102, Oral Communication in the Workplace (O) .....	3	
<b>Total Credits .....</b>	<b>14</b>	
<b>Year Two Total .....</b>	<b>44</b>	
<b>Grand Total .....</b>	<b>78-90</b>	

EPC: 165

\* Students are required to complete OCSUP 108, Applied Mathematics II or equivalent. Elective choices (depending on placement test results) include: OCSUP 106, OCSUP 107, OCSUP 108, CET 223, CS 100, CS 110, GEOG 105, GEOL& 101, AGPR 101, OCEA& 101, WMGT 220, MATH 065, MATH 095, or any college level Math or Science course.

\*\* WMGT 135, Cultures of Water and WMGT 204, Water Policy are offered during fall quarter every other year.

Students are required to complete a minimum of 45 credits for the Watershed Ecology Certificate.

\*\*\* 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, WRITE 110

(L) - CLS 180, WMGT 292

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

(R) - OCSUP 101, PSYC 111, WMGT 192

## Welding Technology

AAAS, CERT

<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) standards, increases the students' understanding of welding, 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 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.

**Mission:** The mission of the Welding program is to provide quality training for entry-level skills and the related technical knowledge necessary for entry and advancement in the metals welding industry.

### Program Level Outcomes:

- Assure the Welding program is in full compliance with AWS standards and the needs of the metals welding industry.
- Upgrade welding curriculum in terms of relevance to employer technical needs in the region.
- Enhance student enrollment, retention, and completion rates.
- Fully institutionalize aluminum and stainless steel welding certificate programs.

**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 the first year of instruction in the program.

**Industry Description:** Welding is a joining process that produces coalescence of materials by heating them to the welding temperature forming a permanent bond. Due to the strength of this bond, 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,



## **WELDING TECHNOLOGY – WIND TURBINE TECHNOLOGY**

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, 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.

### **Career Opportunities:**

- Trade Unions
- Gas Companies
- Fabrication Companies
- Manufacturing Companies
- Facility or Equipment Maintenance

## **Degrees**

### **Associate in Applied Arts and Sciences**

#### ***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 welding experience using stainless steel and aluminum alloys.
- Demonstrate welding mild steel, stainless steel and aluminum alloys using semi-automatic equipment/procedures.

**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.

### ***Welding Technology Certificate***

Upon completion of the year one requirements students may earn a Welding Technology Certificate. (EPC: 814C).

#### **YEAR ONE**

<b>Quarter One</b>	<b>Credits</b>
WELD 151, Shielded Metal Arc Welding I .....	17
ENGR& 111, Engineering Graphics I .....	4
<b>Total Credits .....</b>	<b>21</b>
<b>Quarter Two</b>	<b>Credits</b>
WELD 152, Shielded Metal Arc Welding II .....	17
OCSUP 106, Applied Mathematics I (M) .....	5
<b>Total Credits .....</b>	<b>22</b>
<b>Quarter Three</b>	<b>Credits</b>
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
<b>Total Credits .....</b>	<b>23</b>
<b>Year One Total .....</b>	<b>66</b>

#### **YEAR TWO**

<b>Quarter One</b>	<b>Credits</b>
WELD 254, Shielded Metal Arc - Pipe .....	17
OCSUP 102, Oral Communication in the Workplace (O) .....	3
<b>Total Credits .....</b>	<b>20</b>
<b>Quarter Two</b>	<b>Credits</b>
WELD 255, Gas Tungsten Arc Welding .....	17
OCSUP 103, Job Seeking Skills (J) .....	3
<b>Total Credits .....</b>	<b>20</b>
<b>Quarter Three</b>	<b>Credits</b>
WELD 256, Gas Metal Arc Welding .....	17
WELD 299, Leadership (L) .....	1
<b>Total Credits .....</b>	<b>18</b>
<b>Year Two Total .....</b>	<b>58</b>
<b>Grand Total .....</b>	<b>124</b>

EPC: 814

\* A student may complete either CET 149, Blue Print Reading or ENGR& 111, Engineering Graphics.

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, WRITE 110

(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

## **Wind Turbine Technology**

**<http://www.wvcc.edu/wind>**

James Bradshaw

509.524.5233

james.bradshaw@wvcc.edu

### ***Program available at/via: [Walla Walla]***

**Department Overview:** The Wind Turbine Technology



## WIND TURBINE TECHNOLOGY – WRITING

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curriculum is under development. The College is currently in the process of hiring a Director of Energy Systems Technology and plans to release the certificate and degree sequence information upon his/her hire. Thank you for your continued patience during this time.

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 power generation, distribution, electrical theory and control mechanisms, safety 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.

**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 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 generators and wind turbines will increase. In recent years wind farms are cropping up all over southeastern Washington with plans for more.

### Career Opportunities:

- Wind Technician
- High Voltage Technician
- Electronic Technician
- Relay Technician

## Women's Studies

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<http://wwcc.edu/womenstudies>

Linda Andrews	509.527.4641	<a href="mailto:linda.andrews@wwcc.edu">linda.andrews@wwcc.edu</a>
Susan Palmer	509.527.4545	<a href="mailto:susan.palmer@wwcc.edu">susan.palmer@wwcc.edu</a>
Jim Peitersen	509.527.4601	<a href="mailto:james.peitersen@wwcc.edu">james.peitersen@wwcc.edu</a>

### 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.

**Mission:** The mission of the Social Sciences Division is to provide opportunities for students to better understand individual and group behavior, and develop skills to explore and analyze past and present society and culture.

### Program Level Outcomes:

- Prepare students to transfer to four-year institutions.
- Introduce concepts, terminology, and factual evidence of the respective disciplines using appropriate classroom assessment techniques.
- Develop written and oral communication and critical thinking skills that require analysis and synthesis of course content.
- Provide opportunities to better understand the impact of diverse cultures in historical context on individual and group behavior.

**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 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 93 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:** A major in Women's Studies is strengthened by studies in psychology and sociology.

## Writing

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<http://wwcc.edu/writing>

Darlene Snider      509.527.4265      [darlene.snider@wwcc.edu](mailto:darlene.snider@wwcc.edu)

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

**Department Overview:** Writing courses help students better understand and appreciate the English language. 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.

For the most current information see: [www.wwcc.edu](http://www.wwcc.edu)







# **COURSE DESCRIPTIONS**







### ***Accounting Technology***

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**ACCT 115 Integrated Computer Applications for Acct.**      **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***

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**ABE 001 ABE Level I**      **1 - 18 Credits**  
Instruction in reading, writing, and computational skills for individuals whose reading and/or computational grade level is 0-1. Placement is determined by intake test. Prerequisite: All 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 following the Underage Admissions policy, which is available in the Student Development Center.

**ABE 002 ABE Level II**      **1 - 18 Credits**  
Instruction in reading, writing, and computational skills for individuals whose reading and/or computational grade level is 2-3. Placement is determined by intake test. Prerequisite: All 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 following the Underage Admissions policy, which is available in the Student Development Center.

**ABE 003 ABE Level III**      **1 - 18 Credits**  
Instruction in reading, writing, and computational skills for individuals whose reading and/or computational grade level is 4-5. Placement is determined by intake test. Prerequisite: All 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 following the Underage Admissions policy, which is available in the Student Development Center.

**ABE 004 ABE Level IV**      **1 - 18 Credits**  
Instruction in reading, writing, and computational skills for individuals whose reading and/or computational grade level is 6-8. Placement is determined by intake test. Prerequisite: All 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 following the Underage Admissions policy, which is available in the Student Development Center.

**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



## **ADULT BASIC EDUCATION – AGRI-BUSINESS**

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first quarter of enrollment. Students can register for three consecutive 1-3 credit courses. The course must meet for at least ten hours and no more than 30 hours per quarter. State-mandated pre-testing and assessment testing as well as the college's registration process are included.

### **ABE 013 ABE Math Level II 1 - 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 of grades 4-5 as determined by intake placement test, or by instructor permission. 1. Placement is determined by intake test. 2. Placement and enrollment will be based upon WorkFirst eligibility. 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 - 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 minimum of grades 6-8 as 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.

### **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: Reading and writing skills at grade levels 3-5 as 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.

### **ABE 016 ABE Reading and Writing Level III 1 - 5 Credits**

Focus is on the development of reading skills to be used to comprehend, analyze, evaluate and infer from a variety of written material at an intermediate level, and on the development of writing skills to be used to write several connected paragraphs using correct punctuation, capitalization, usage, spelling, and more sophisticated sentence structure. Prerequisites: Reading and writing skills at the 6-8 grade level as 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.

### **ABE 066 Basic e-Learning 1 - 9 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**

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### **GED 025 GED Preparation 1 - 18 Credits**

Provided in both traditional and bilingual settings, this course assists the student in preparing to pass the tests required for the General Education Development (GED). Emphasizes the areas of writing skills, natural science, social science, mathematics, literature and the arts. 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 following the Underage Admissions policy, which is available in the Student Development Center.

## **Agri-Business**

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### **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. Includes use of a computerized record keeping system.

### **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 or 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-BUSINESS – AGRICULTURE SCIENCE***

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### **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 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 098. 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 098. Student may not earn credit for both AGPR 101 and ENV& 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.

For the most current information see: [www.wcc.edu](http://www.wcc.edu)



## ***AGRICULTURE SCIENCE – ALCOHOL AND CHEMICAL DEPENDENCY***

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### **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 158 Greenhouse Crop Production I 1 - 5 Credits**

Provides an opportunity to work with greenhouse crops. Instruction and demonstrations on propagation, care, and marketing of bedding plants, which are produced for resale.

### **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 agriculture industry, supplemental to courses currently offered. Prerequisite: Instructor permission.

### **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 230 HIV/AIDS Education .4 - .7 Credit**

HIV/Aids Education provides the health care 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 ALCDA 230 and HO 110.

### **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.



## ***ALCOHOL AND CHEMICAL DEPENDENCY – ALLIED HEALTH AND SAFETY***

### **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 090 Pre-Nursing Assistant**

**6 Credits**

Provides the Fundamentals of Care Giving as a foundation for the beginner healthcare provider. The course has been developed as a precursor for students interested in taking the Nursing Assistant Training Program at a later time. Successful completion of the course will earn a Fundamentals of Care Giving certificate. Prerequisite: Required placement testing READ 078 or CASAS Level IV.

### **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.

### **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 First 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 and 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 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.

### **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 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.

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## ***American Sign Language***

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**ASL& 121 American Sign Language I [H] 5 Credits**

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**

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. Prerequisite: C- or better in ASL& 121 or equivalent course. Formerly COMM 108, American Sign Language II.

**ASL& 123 American Sign Language III [H] 5 Credits**

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.

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## ***Anthropology***

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**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. 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. Formerly ANTH 202, Cultural Anthropology.

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## ***Art***

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**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 102 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 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 124 Women Artists: A Historical Survey [H] 5 Credits**  
Focuses on the unique artistic contributions of women artists through history from the middle ages to the present. 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 – AUTO BODY REPAIR**

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**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 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 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***

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**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 098. 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 098.

**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 098.

## ***Auto Body Repair Technology***

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**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.



## ***AUTO BODY REPAIR – AUTOMOTIVE REPAIR***

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### **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.

### **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***

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### **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.

### **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



## ***AUTOMOTIVE REPAIR***

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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.

### **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.

### **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



## ***AUTOMOTIVE REPAIR – BIOLOGICAL SCIENCES***

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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.

### **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; 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***

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### **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 098. Formerly BIO 110, Survey of Biology.

### **BIOL 119 Human Anatomy for Medical Office Professionals 5 Credits**

Provides the comprehensive anatomy knowledge base required for successful job performance as a medical administrative assistant, medical billing and insurance specialist, medical coder or medical transcriptionist. Anatomy



## BIOLOGICAL SCIENCES

of all major body systems is analyzed. This course does not include a lab. Prerequisite: Appropriate placement score or grade of C or higher in ENGL 087 or BUS 136; or permission of the Science Division Chair or designee. Recommended: OT 280; READ 098. Formerly BIO 119.

### **BIOL 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 098. Student may not earn credit for both BIOL 121 and WST 121. Formerly BIO 121.

### **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 098. 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 098. 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 098. Formerly BIO 170.

### **BIOL& 175 Human Biology w/ Lab [NS] 5 Credits**

Evolution, ecology, nutrition, the functioning of cells, tissues, and the major organ systems will form the core of this course. Emphasis is on providing sufficient background materials to enable student to make informed decisions relating to the biological aspects of the human body. This course is designed primarily for the non-science major. Lecture is supported by video presentations, dissections, possible field trips and outside speakers. Lab work required. This course does not fulfill the requirements for the Nursing program. Prerequisite: Appropriate placement score or grade of C or higher in ENGL 087; or permission of the Science Division Chair or designee.

Recommended: READ 098. Formerly BIO 120, Bio of the Human Organism.

### **BIOL 202 Vertebrate Zoology [NS] 5 Credits**

The biology and classification of vertebrate animals followed by units on comparative animal physiology, genetics and evolution. Lectures are supported by dissection, experiments, and field trips. Lab work required. Prerequisite: BIOL& 212. Formerly BIO 202.

### **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. Prerequisites: BIOL& 100, or BIOL& 160, or BIOL& 211, or BIOL 130.

### **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 098.

### **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 098. Formerly BIO 221.



## **BIOLOGICAL SCIENCES – BUSINESS ADMINISTRATION**

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**BIOL 240 Principles of Conservation [NS] 5 Credits**  
History, philosophical paradigms, central concepts, techniques, and challenges of conserving major natural resources in varied social, economic, and political contexts. This course does not include a lab. Prerequisite: BIOL& 100 or 211 or BIOL 130. Formerly BIO 240.

**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. 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**

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**BUS 091 Cooperative Work Experience IV 1 - 5 Credits**  
Students enrolled in co-op are employed in occupations directly related to career choices; consequently, work experience becomes a practical laboratory for reinforcing in-school occupational education. Students earn both pay and college credit for work. Prerequisites: Co-enrollment in related business leadership class and coordinators permission. Formerly BA 091.

**BUS 092 Cooperative Work Experience V 1 - 5 Credits**  
Students enrolled in co-op are employed in occupations directly related to career choices; consequently, work experience becomes a practical laboratory for reinforcing in-school occupational education. Students earn both pay and college credit for work. Prerequisites: Co-enrollment in related business leadership class and coordinators permission. Formerly BA 092.

**BUS 093 Cooperative Work Experience VI 1 - 5 Credits**  
Students enrolled in co-op are employed in occupations directly related to career choices; consequently, work experience becomes a practical laboratory for reinforcing in-school occupational education. Students earn both pay and college credit for work. Prerequisites: Co-enrollment in related business leadership class and coordinators permission. Formerly BA 093.

**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***

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### **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 153 Economic Survey I**

**4 Credits**

Develop the background necessary to conduct a marketing research project, including: tools of research, planning and design, methodologies of research design, and presenting the results of research. Formerly BA 153.

### **BUS 154 Economic Survey II**

**4 Credits**

Plan a research project that includes describing problem(s) to be solved, reviewing related literature, deciding on statistical method that will be used, selecting the style and format of the research, conducting the research, and writing the research report. Prerequisite: BUS 153. Formerly BA 154.

### **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 158 Problem Solving in Human Relations**

**5 Credits**

Problem solving and decision making by using a step-by-step flow-chart process for simple to complex problems in human relations. Develops critical and analytical thinking skills for solving problems by using tools which are be applied to new and unfamiliar situations and problems. Tools: PMI (Pluses, Minus, Interesting), CAF (Consider All Factors), C&S (Consequences and Sequel), AGO (Aims, Goals, Objectives), FIP (First Important Priorities), APC (Alternatives, Possibilities, Choices), OPV (Other People's Views), EBS (Examine Both Sides), ADI (Agreement, Disagreement, Irrelevance). Prerequisite: BUS 157. Formerly BA 158.

### **BUS 160 Merchandise Display**

**5 Credits**

Explores in-store and window displays and their importance to businesses. Major emphasis will be placed on the techniques used in producing the different types of displays. Formerly BA 160.

### **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 and instructor permission. Formerly BA 191.

### **BUS 192 Business Leadership Seminar II**

**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 192.

### **BUS 193 Business Leadership III**

**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 192.

### **BUS 194 Entrepreneurship Development**

**5 Credits**

An entrepreneur, facing risk and uncertainty, considers resources in new and different ways in hopes of creating value; this is often done through a new business venture. This course will help develop students' analytical and critical skills. Students will review the steps for opening a business and complete a business plan clearly evaluating and illuminating the opportunity for entrepreneurial success. Formerly BA 194.



## ***BUSINESS ADMINISTRATION – CARDIO-PULMONARY RESUSCITATION***

### **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**

**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 202 Introduction to Business Law II**

**5 Credits**

Continuance of BUS 251, emphasis on the Uniform Commercial Code, sales and leases, negotiable instruments, secured transactions and bankruptcy, agency and business organizations, employment laws, wills, property, and basic legal research. Prerequisite: BUS& 201. Formerly BA 252.

### **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.

### **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 and instructor permission. Formerly BA 291.

### **BUS 292 Business Leadership Seminar III**

**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 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 049 Pediatric Basic Life Support**

**.2 Credit**

Designed for the general public and provides instruction in basic skills of CPR for the infant and child, and is based on standards established by the American Heart Association. The basic skills of CPR, relief of foreign-body airway obstruction, as well as prevention and safety components are provided. This is basic CPR training offered for the general public and does not meet AHA healthcare provider requirements.

### **CPR 050 AED**

**.2 Credit**

The purpose of AED training is to familiarize the student with the proper use of Automatic External Defibrillators as



## ***CARDIO-PULMONARY RESUSCITATION – CARPENTRY***

established by American Heart Association protocols for public access defibrillation. This course is supplemental to Basic CPR training for the general public. Must have AHA CPR card issued within the last two years to enroll.

### **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 054 ACLS Renewal 1.6 Credits**

Provides instruction in the theory and practical components of Advanced Cardiac Life Support (ACLS) using standards and guidelines established by the American Heart Association. Student must have an AHA ACLS card issued within the last two years 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.

## ***Carpentry***

### **CARP 181 Introduction to Carpentry 1 - 18 Credits**

Introduction to the construction industry and principles of residential building construction. On-site work that includes excavation, footings, foundations, wall framing, trusses, sheathing and tool safety. Prerequisite: Instructor permission.

### **CARP 182 On-Site Work: Exterior Finish 1 - 18 Credits**

Continue to build upon skills in framing methods, roof framing, siding, roofing materials, and insulation installment. Students will gain knowledge in learning how to work with blueprints that are used in construction. Topics range from building materials, the proper and safe use of tools and machines, and the major processes of building construction. On-site work including: exterior finish, roofing, insulation, sheetrock, taping, and texture. Prerequisite: CARP 181 or instructor permission.

### **CARP 183 On-Site Work: Interior Finish 1 - 18 Credits**

On-site work including: installation of door frames, doors, interior wall finish, window and door trim, installation of cabinets and flooring. Prerequisite: CARP 182 or instructor permission.

### **CARP 191 Cooperative Work Experience 1 - 18 Credits**

Opportunity to work in jobs directly related to the construction industry. This formal training period is agreed upon by the student, employer, and instructor. Prerequisite: Instructor permission. Co-requisite: CARP 192.

### **CARP 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: CARP 191.

### **CARP 199 Special Topics 1 - 5 Credits**

Study and train to meet established local needs in the carpentry industry, supplemental to courses currently offered. Prerequisite: Instructor permission.

### **CARP 284 Advanced Work in Layout 1 - 18 Credits**

Advanced work in layout of building, roof framing, and use of level and transit will be covered. Estimating materials for site, study of concrete types and their importance in the trade, and types of fasteners and their uses. Prerequisite: CARP 183 or instructor permission.

### **CARP 285 Advanced Blueprint Reading 1 - 18 Credits**

Definitions of architectural symbols; to understand plumbing, electrical, heating, ventilation, and air conditioning (HVAC) systems and applications; the layout and construction of chimney and fireplaces will be covered. Prerequisite: CARP 284 or instructor permission.

### **CARP 286 Advanced On-Site Work 1 - 18 Credits**

Advanced work on-site including: tile work, siding, concrete layout and estimating costs. Preparation for the journeyman examination. Prerequisite: CARP 285 or instructor permission.

### **CARP 297 Special Projects 1 - 18 Credits**

Project-oriented experiences in the area or applications not covered in the standard carpentry curriculum. Prerequisite: Instructor permission, based on evaluation of student's education and work experience.

### **CARP 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.



## ***Chemistry***

**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 098. 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 098; 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, genetic expression, and biotechnology. Lab work required. Prerequisite: CHEM& 122. Formerly CHEM 109, Biochemistry for Health Sciences.

**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 098. 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 (qualitative analysis). 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.

**ENGR& 112 Engineering Graphics II 4 Credits**

Introduction to visual and reasoning skills necessary for graphical solution of engineering and construction problems with an emphasis on point, line, and plane problems. Prerequisite: ENGR& 111 or instructor permission. Formerly CET 143, Descriptive Geometry.

**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 149 Blue Print Reading 3 Credits**

Introduction to the basic concepts of engineering drawings.

**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.



## CIVIL ENGINEERING

### **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**

**3 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.

### **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**

**4 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.



## ***CIVIL ENGINEERING – COMMERCIAL TRUCK DRIVING***

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### **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-spacial 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.

## ***Collaborative Leadership Studies***

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### **CLS 180 Workforce Leadership Development**

**2 Credits**

The Collaborative Leadership Studies program offers leadership development courses, including collaborative processes, communication, facilitation, interest-based problem solving, conflict resolution, and team building. This program will provide professional improvement, workforce development, and continuing education. Courses will be offered on campus, online and delivered on site.

## ***College Experience***

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### **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.

### **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***

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### **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.



## **COMMERCIAL TRUCK DRIVING – COMPUTER SCIENCE**

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**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***

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**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 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. 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.

### ***Computer Science***

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**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 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 191 Cooperative Work Experience 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 192 Cooperative Seminar 1 - 3 Credits**

Explore issues related to their cooperative work experience focusing on effective workplace relationships. Students will learn leadership skills, resume skills, cover letters and interview techniques.

## **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.

## **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 I 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 250 Multimedia Authoring 5 Credits**  
Uses leading Multimedia Authoring Tool as the main software environment. Students will be introduced to the principle features and capabilities of the application by integrating

text, graphics, animation, digital video and sound to create interactive multimedia.

**CS 251 Advanced Computer Design 5 Credits**  
Computer-generated design and its practical application in advertising and promotion is presented. Advanced techniques in computer graphic design principles and an introduction to lettering skills and typefaces. Emphasis is on font selection, use, and the role of typography as a communication and design element.

**CS 253 Webserver Management 5 Credits**  
Survey of the tools, techniques, and best practices used to create, maintain, and manage a web server. Dozens of hands-on projects are used to facilitate valuable practice and simulate real-life scenarios experienced by network administrators.

**CS 254 Digital Imaging Portfolio 5 Credits**  
The digital publishing and multimedia fields encompass a wide array of occupations involving almost every sector of society. Jobs and careers are always emerging in the fast-paced, ever-changing world of digital media. The instructor will assign Digital Publishing Occupational and Employment Development topics for exploration and development. In addition the student will be expected to develop a portfolio of projects that demonstrate their technological knowledge.

**CS 255 Macintosh Operating System 5 Credits**  
Explores the Macintosh Operating systems. Learn how to use the Apple operating systems such as Mac OS X. All basic operating system tools will be covered from virtual memory to specific use of Macintosh applications.

**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.

**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 269 CCNP I****5 Credits**

Explores advanced routing and using Cisco routers connected in local-area networks (LANs) and wide-area networks (WANs) typically found at medium to large network sites. Upon completion of this training course, the student is able to select and implement the appropriate Cisco IOS services required to build a scalable routed network. The first in a sequence of four courses that prepares students to take Cisco's CCNP certification exam.

**CS 270 CCNP 2****5 Credits**

Focuses on remote access to Cisco routers connected in local-area networks (LANs) and wide-area networks (WANs) typically found at medium to large network sites. Upon completion of this training course, the student is able to select and implement the appropriate Cisco IOS services required to create remote access to corporate networks. The second in a sequence of four courses that prepares students to take Cisco's CCNP certification exams.

**CS 271 CCNP 3****5 Credits**

Explores the design and building of Cisco multi-layer switched networks typically found at medium to large network sites. Upon completion of this training course, the student is able to select and implement the appropriate Cisco switching services required to create switched corporate networks. The third in a sequence of four courses that prepares students to take Cisco's CCNP certification exams.

**CS 272 CCNP 4****5 Credits**

Explores troubleshooting Cisco-based internetwork typically found at medium to large network sites. Upon completion of this training course, the student is able to debug and fix a wide range of internetworking problems that might appear in complex corporate networks. This is the fourth in a sequence of four courses that prepares students to take Cisco's CCNP certification exams.

**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.

**CS 276 Windows Server****5 Credits**

Introduction to the management of a Windows Server 2003. 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

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**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.



## ***COSMETOLOGY – CRIMINAL JUSTICE***

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**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, make-up, 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.

**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, makeup, 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. Total of 1700

hours, including non-credited courses. 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***

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**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 098. 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.

### **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.

### **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 098. 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 098.

### **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 098.

### **CJ 210 Working in the Juvenile 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.

### **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 Arts***

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### **CUL 100 ServSafe**

**2 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.

### **CUL 101 Introduction to Professional Cooking**

**5 Credits**

Introduction to the history of culinary arts and major influences of the hospitality industry. Topics include modern food service, history of uniforms, organization of modern kitchen, and careers in the food industry.

### **CUL 102 Skill Development I**

**15 Credits**

Introduction to the basic cooking fundamentals. Topics include equipment, knife skills, classical cuts, stock soup, sauce production, timing, station organization and culinary terminology. Students will also be introduced to vegetable and starch cookery. Prerequisite: CUL 101.

### **CUL 103 Skill Development II**

**12 Credits**

Focuses on cooking fundamentals and classical preparations. Topics include basic methods of cooking, braising, roasting, sauteing, steaming, and poaching. An introduction to protein cooking will also be covered. Prerequisite: CUL 102.

### **CUL 104 Service Management**

**3 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. Prerequisite: CUL 110.

### **CUL 107 Culinary Measurements and Calculations**

**4 Credits**

Designed to teach students the basic units of measure and conversions, business management skills, and cost inventory skills necessary for kitchen management. Topics include purchasing, kitchen ratios, metric measurements and yield percentages. Prerequisite: Appropriate math placement score.

### **CUL 108 Nutrition for Culinary Arts**

**3 Credits**

Introductory nutrition course designed for students entering the food service and hospitality industry. Students will study information related to the interaction of nutrients in the body and factors which govern nutrient requirements. Prerequisite: CUL 110.

### **CUL 110 Introduction to the Culinary Arts**

**3 Credits**

Provides an introduction to the hospitality and culinary arts profession. Reviews the history of foodservice and the importance of French cuisine to the traditions and skill



## CULINARY ARTS

sets associated with Culinary Arts. Introduces students to topics in Culinary Math, Menu Development, Food Service Systems, Career Options and the terminology associated with commercial food procedures and operations. Prerequisite: Instructor permission.

### **CUL 111 Basic Culinary Principles 3 Credits**

Introduction to the basic culinary principles of classical knife cuts, stock preparations, classic mother sauces and soup preparations.

### **CUL 112 Soups, Stocks and Sauces 6 Credits**

Learn the techniques of classical and contemporary soups, stocks and sauces. Roux based sauces, emulsions, purees, stock preparations and a variety of soups will be explored. Prerequisite: Instructor permission. Co-requisite: CUL 114.

### **CUL 114 Culinary Arts Methods 6 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. Ingredient identification, Equipment operation and Knife Skills are included. Prerequisite: Instructor permission. Co-requisite: CUL 112.

### **CUL 116 Conversational Spanish for Hospitality 3 Credits**

Introduction to basic Spanish, written and oral, for professionals in the restaurant and hospitality management industry. Focuses on essentials of workplace Spanish applicable to usage in the hospitality industry (i.e. restaurant, hotel, kitchen, front line culinary).

### **CUL 131 Culinary Competency I 1 - 10 Credits**

Participate in the service and preparation of food for cafe guests under the supervision of the instructor in order to practice the skills and techniques taught in their classes. This course will provide the learning environment (kitchen laboratory) in which the students may continue their studies beyond the time provided for their normally scheduled classes. Prerequisite: CUL 110 or 101.

### **CUL 140 Food and Culture 3 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. The course will discuss the nature of food selection, agricultural systems, religion, ethnicity and technology in its relationship to foodways from a cultural historical perspective. Overall themes to be covered include: Culture and Food Trends, Food Classification and Communication, Agriculture and Its Impact on Foodways, Taste, Smell and Adaptive Mind, Food and Social Media.

### **CUL 141 American Regional and Latin American Cooking 6 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 learn food specialties of Mexico and other Central American countries, exploring regional variations, food ingredients and the impact of culture, geography and ethnicity on regional cooking styles. Prerequisite: CUL 110.

### **CUL 142 Classical French and Mediterranean Cooking 6 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: CUL 110.

### **CUL 150 Introduction to Baking 7.5 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.

### **CUL 151 Advanced Baking and Pastry 7.5 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: Instructor permission.

### **CUL 155 Eco Gastronomy 2 Credits**

Examination of culinary arts in context with the global food supply. It 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.

### **CUL 160 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: CUL 110.

### **CUL 190 Culinary Practical I 1 Credit**

Students will demonstrate culinary skills in the following areas: soup, sauce, fabrication and preparation of main dish item and appropriate accompaniments. Students will also demonstrate classic knife cuts.

### **CUL 191 Culinary Internship 3 Credits**

Opportunity to work in jobs directly related to the culinary arts industry. This is a non-paid position and requires 10 hours per week. Co-requisite: CUL 192.



## **CULINARY ARTS – DANCE**

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### **CUL 192 Culinary 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: CUL 191.

### **CUL 199 Special Topics**

**1 - 5 Credits**

Study and train to meet established local needs in the culinary arts industry, supplemental to courses currently offered. Prerequisite: Instructor permission.

### **CUL 202 Professional Cooking I**

**12 Credits**

Focuses on professional cooking fundamentals to include baked goods and pastries. Students will learn basic principles and techniques used in the preparation of baked goods and pastries. Prerequisite: CUL 103.

### **CUL 203 Professional Cooking II**

**12 Credits**

Introduction to vegetarian and nutritional cooking. Students will be introduced to various international cuisines including: French, Italian and Eastern Block. Students will use wine as a major flavoring ingredient. Prerequisite: CUL 202.

### **CUL 206 Restaurant Law**

**2 Credits**

Provides an overview of legal issues and requirements associated with the food service industry. Topics include contract law, forms of business enterprise, legal obligations of owners and employees, liability, and operating within state and federal regulations.

### **CUL 207 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 with emphasis on concept, clarity, cost, price and efficiency. Prerequisite: CUL 110 or 101.

### **CUL 210 Wine with Food**

**1 Credit**

Introduction to the wine industry and grape varieties. Focus is on understanding the flavor components of different wines 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.

### **CUL 215 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.

### **CUL 217 Pan Asian Cooking**

**6 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. To expose the students to the fundamentals cold food preparation and cold food display techniques. Prerequisite: CUL 110.

### **CUL 219 Garde Manger and Catering**

**3 Credits**

Learn techniques of cold food preparation in buffet and catering applications, including appetizers, canapes, pate, sausages, terrines, buffet salads, buffet design, lay-out and execution and menu planning.

### **CUL 290 Culinary Practical II**

**1 Credit**

Demonstrate culinary skills in the following areas: soup, sauce, fabrication and preparation of main dish item and appropriate accompaniments, salad and dressing, and forcemeats. Classic knife cuts will also be demonstrated. Co-requisite: CUL 203.

### **CUL 291 Cooperative Work Experience**

**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: CUL 292.

### **CUL 292 Cooperative Seminar**

**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: CUL 291.

### **CUL 297 Special Projects**

**1 - 15 Credits**

Project-oriented experiences in the area or applications not covered in the standard culinary arts curriculum. Prerequisite: Instructor permission, based on evaluation of student's education and work experience.

## ***Dance***

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### **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 – DIESEL TECHNOLOGY***

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### **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 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. Prerequisite: Instructor permission.

### **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***

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### **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.

### **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.

### **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.

**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.



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**Drama**

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**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.

**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 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.

**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 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.



## **DRAMA – EARLY CHILDHOOD EDUCATION**

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**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.

**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***

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**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 129 CDA, Orientation and Pre-assessment I** 5 Credits  
The CDA program is a national effort to train, assess, and grant a professional credential to child care and preschool personnel. Emphasis on working in a center-based model with three-five year old children. The student examines and refines each of the functional areas to meet specific needs. Writing proficiency is emphasized. Coursework provides 55 hours of the required training for the CDA. Recommended: READ 088.

**ECE 130 CDA, Orientation and Pre-assessment II** 5 Credits  
Continuance of ECE 129, includes participation through on-the-job observations and initial and final self-evaluations. Includes participation in either the process of a training plan or in completion of the CDA credentialing process. Writing proficiency is emphasized. Coursework provides 55 hours of the required training for the CDA. 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



## **EARLY CHILDHOOD EDUCATION**

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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.

### **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



## ***EARLY CHILDHOOD EDUCATION – EDUCATION PARAPROFESSIONAL***

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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 Ageds** **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 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.

### **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.

## ***Economics***

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### **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 Paraprofessional***

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### **ED 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.

### **ED 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& 114 Child Development** **3 Credits**

Survey of development and behavior of the child, prenatal to eight years of age. Discuss the characteristics of physical, intellectual, social, and emotional development of the young child. Topics include child development, theories of child development, heredity, pregnancy and birth, impact of family, concerns for early childhood professionals, physical development, emotional and social development, intellectual development. Recommended: READ 088. Formerly ECE/ED 141, Child Development.

### **ED 137 Language Development and Literacy** **3 Credits**

Understand and explore language development and literacy from birth through elementary school. Topics include typical



## **EDUCATION PARAPROFESSIONAL**

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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 ED 137 and ECE 137.

### **ED 160 Instructional Strategies Special Needs Students 3 Credits**

Provides the technical knowledge to modify behavioral difficulties and to program efficient educational sequences to remediate specific students skill deficits. Topics include analysis of basic learning principles, considerations in selecting reinforcement, special techniques for training low-level skills, and adaptive design to teach specific skills and/or concepts. Recommended: READ 088. Student may not earn credit for both ED 160 and ECE 160.

### **ED 170 Guiding Behavior of Young Children 3 Credits**

Study of classroom behavior management. Assists the student in gaining practical and theoretical information relating to successful 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 ED 170 and ECE 170.

### **ED 175 Educational Assessment, Observation and Record Keeping 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, including self-assessment are covered and anti-bias curriculum is introduced. Recommended: READ 088. Student may not earn credit for both ED 175 and ECE 175.

### **ED 191 Cooperative Work Experience 1 - 3 Credits**

Opportunity to receive hands-on training in the school setting. This formal training period is agreed upon by the student, employer, and instructor. Prerequisite: Instructor permission. Recommended: READ 088.

### **ED 199 Special Topics 1 - 5 Credits**

Study and train to meet established local needs in the education field, supplemental to courses currently offered. Prerequisite: Instructor permission. Recommended: READ 088.

### **ED 200 Practicum I: Teaching Young Children 3 Credits**

Provides the paraeducator student experience in an actual classroom setting. Gain experience in implementing prior knowledge and skill in planning and assisting as an education paraprofessional. Forty hours of lab required. Prerequisite: ECE 191 and instructor permission. Recommended: READ 088.

### **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.

### **ED 210 Practicum II: Teaching Young Children 3 Credits**

Second year students assume the role of paraeducator assisting in the classroom. The student will increase experience in implementing prior knowledge and skill in planning and assisting as an education paraprofessional. Forty hours of lab required. Prerequisite: ED 200, ECE 191 and instructor permission. Recommended: READ 088.

### **ED 231 Curriculum Development 3 Credits**

Provides a basic knowledge of developmentally appropriate curriculum. Students develop competence in the establishment of long-range and short-term goals and objectives, as well as selection, presentation, and evaluation of a variety of 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 ED 231 and ECE 231.

### **ED 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 ED 232 and ECE 232.

### **ED 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 ED 236 and ECE 236.

### **ED 255 Children at Risk 3 Credits**

Caring for children from families affected by substance abuse and other risk factors. Topics include values clarification, family characteristics, families in treatment, empowerment. Recommended: READ 088. Student may not earn credit for both ED 255 and ECE 255.



## ***EDUCATION PARAPROFESSIONAL – ENERGY SYSTEMS***

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**ED 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 ED 261 and ECE 261.

**ED 265 Instructional Strategies English as a Second Language 3 Credits**  
Develop a basic understanding of second language acquisition. A variety of instructional strategies are covered to address skill development in monolingual and bilingual students. Recommended: READ 088.

**ED 285 Legal, Safety, and Health Issues 3 Credits**  
Learn health and safety methods and procedures for children and study aspects of child abuse and neglect laws, reporting procedures, HIV/AIDS prevention, blood borne pathogen education, and first aid. Basic education, special education, and categorical program requirements are overviewed as well as Code of Ethics. Recommended: READ 088.

**ED 291 Cooperative Work Experience II 1 - 3 Credits**  
Opportunity to receive hands-on training in the school setting. This formal training period is agreed upon by the student, employer, and instructor. Prerequisite: Instructor permission. Recommended: READ 088.

**ED 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.

### ***Energy Systems Technology***

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**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 and dPTHP 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 098, 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.

**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 5 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 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 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 249 Power Generation and Distribution 5 Credits**

Introduction to the common components and applications of electrical generation and distribution systems of operation and maintenance of those systems. Prerequisites: EST 131 and 132; 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.

### **EST 254 Generators / Alternators / Transformers 5 Credits**

Introduction to the concept of power generation and transformers, preparing the student to install, troubleshoot, service and repair. Prerequisites: EST 131 and 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



## ENERGY SYSTEMS – ENGLISH

pipng, 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 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.

**EST 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.

### English

**ENGL 059 Vocabulary 1 - 2 Credits**  
Learn to improve communication skills by broadening vocabulary. Instruction is individualized and based on students' goals. Formerly ENG 059.

**ENGL 077 Writing Fundamentals II 1 - 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 086 Spelling I 1 - 2 Credits**  
A self-paced course that emphasizes basic spelling rules and principles, dictionary use, and writing as an approach to better spelling. A listening test is given to determine the student's individualized program. Formerly ENG 086.

**ENGL 087 Writing Fundamentals III 1 - 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 092 Special Topics in Writing I 1 - 5 Credits**  
Provides an opportunity to improve identified and specific areas of writing skills. Individualized instruction according to students' goals. Formerly ENG 092.

**ENGL 093 Special Topics in Writing II 1 - 5 Credits**  
Provides an opportunity to review a specific area of writing. Individualized instruction according to students' goals. Formerly ENG 093.

**ENGL 094 Special Topics in Writing III 1 - 5 Credits**  
Provides an opportunity to review a specific area of writing. Individualized instruction according to students' goals. Formerly ENG 094.

**ENGL 095 Individualized Study Skills 1 - 5 Credits**  
Improve student efficiency in the areas of listening and note taking, time management, textbook reading strategies, concentration, memory improvement, exam preparation, and test anxiety. Each topic may be taken as an individual credit for up to five credits in one quarter. Prerequisite: Appropriate placement score. Formerly ENG 095.

**ENGL 096 Spelling II 1 - 2 Credits**  
Continuance of ENGL 086, Spelling I in a self-paced format. The student continues to work on individual areas of need determined by the listening test given in the previous course. Prerequisite: Completion of two credits of ENGL 086. Formerly ENG 096.

**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.

**ENGL& 111 Introduction to Literature [H] 5 Credits**  
Introduction to poetry, fiction, drama, and non-fiction from around the world. Formerly LIT 140, Intro to Literature.

**ENGL& 112 Introduction to Fiction [H] 5 Credits**  
Study of 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 introduction to a wide variety of established poets. Formerly LIT 142, Intro to Poetry.



## ENGLISH

<b>ENGL 115 Arthurian Literature [H]</b> <b>3 Credits</b> Survey of selected Arthurian legends found in literature, film, music and art from the middle ages to the modern period. Formerly LIT 111.	<b>ENGL 210 Myth and Folklore [D, H]</b> <b>5 Credits</b> Study of the myths and folktales of the world with an emphasis on literature and culture. Formerly LIT 210.
<b>ENGL 118 Baseball Literature and American Culture [H]</b> <b>5 Credits</b> 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 098 or higher.	<b>ENGL 212 African-American Literature [H]</b> <b>3 Credits</b> An overview, analysis, and celebration of major African-American writers. Formerly LIT 212.
<b>ENGL 120 Creative Writing I</b> <b>3 Credits</b> 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.	<b>ENGL 245 American Literature [H]</b> <b>5 Credits</b> Study of influential American literary voices and styles from settlement times through the present. Formerly LIT 245.
<b>ENGL 130 Creative Writing II</b> <b>3 Credits</b> 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 130.	<b>ENGL 250 Literature of American Immigration [H]</b> <b>5 Credits</b> Examines the American immigrant experience through literature--fiction, poetry, personal memoir, and letters. Formerly LIT 250.
<b>ENGL 140 Creative Writing III</b> <b>3 Credits</b> 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 140.	<b>ENGL 251 Voices of Women in Literature [D, H]</b> <b>5 Credits</b> Survey of 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. Formerly LIT 251.
<b>ENGL 144 Introduction to Film [H]</b> <b>5 Credits</b> Study of selected films with emphasis on story, character, and criticism. Formerly LIT 144.	<b>ENGL 256 Literature of the American West [H]</b> <b>5 Credits</b> Examines the Western experience and mythology in Literature. Formerly LIT 256.
<b>ENGL 147 Comic Books and Graphic Novels [H]</b> <b>5 Credits</b> Introduction to the graphic sequential narrative as literature and art. 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.	<b>ENGL 257 Literature of the Inland Northwest [H]</b> <b>5 Credits</b> Examines the historical and contemporary literature of the Inland Northwest in fiction, poetry, personal memoir, and letters from various cultures. Formerly LIT 257.
<b>ENGL 149 Classic Childrens Literature [H]</b> <b>5 Credits</b> Introduction to literary fiction directed to children. Formerly LIT 149.	<b>ENGL 260 Modern Hispanic and Latino Literature [H]</b> <b>5 Credits</b> Study of modern Hispanic writers in English translation. Formerly LIT 260.
<b>ENGL 164 Japanese Literature [H]</b> <b>3 Credits</b> English translations of Japanese literature from early times to the present. Included are examples of waka, haiku, and renga poetry, the world's first novel (Tale of Genji), and 20th century novels by Kawabata, Mishima, Tanizaki. At least one film by the modern master Kurosawa will also be studied. Formerly LIT 164.	<b>ENGL 261 Native American Literature [H]</b> <b>3 Credits</b> Study of traditions, cultures, myths, roles, and problems facing Native Americans through essay, narrative, story, oratory, poetry, film, and song. Recommended: READ 098. Formerly LIT 261.
	<b>ENGL 265 World Literature [D, H]</b> <b>5 Credits</b> Introduction to some of the world's great literary traditions, both ancient and modern, featuring poetry, story, and drama. Formerly LIT 265.
	<b>ENGL 270 Detective and Spy Novels [H]</b> <b>3 Credits</b> Survey of selected thriller literature from 1840 to the present. Formerly LIT 270.
	<b>ENGL 271 Science Fiction and Fantasy Literature [H]</b> <b>5 Credits</b> Study of science fiction and fantasy genres with an emphasis on their emergence as significant literature. Formerly LIT 271.



## ENGLISH – ENGLISH AS A SECOND LANGUAGE

**ENGL 272 Medicine and Literature [H]** **3 Credits**  
Exploration of both the literary and ethical import of a variety of topics related to the medical field. A variety of literary genres (poetry, fiction, non-fiction) and movies treat a wide range of topics. Formerly LIT 272.

**ENGL 277 The Bible as Literature [H]** **3 Credits**  
Introductory study of the principle forms of literature represented in the Bible. Formerly LIT 277.

**ENGL 290 Favorite Writers I [H]** **2 Credits**  
Examines representative work of a single outstanding literary figure, or a select cadre of authors representing either a uniform point-of-view, a specific genre, a gender, or a response to an issue. An example of the first instance of a single outstanding writer is a course designed around Earnest Hemingway. An example of the second instance of a cadre of writers is, say, Feminism: Virginia Woolf, Ursula Le Guin and Alice Walker. Flexible course, coming either in two-, three-, or five-credit formats. As a two-credit course, it could work as an Honors Seminar, though it would not be limited to Honors Students. As a three-credit course it could focus one writer in particular, and as a five-credit literature offering it could explore a contemporary issue, like terrorism (with the possibility of linking with another discipline), or it might explore a unique genre that our other literary courses do not adequately address, similar to graphic novels. Flexibility allows instructors to follow their special interests, and it provides a format for instructors to design a literature offering that addresses issues of the day. Prerequisite: College Level Reading Skills. Formerly LIT 290.

### ***English as a Second Language***

**ESL 001 Educational Interview** **1 - 3 Credits**  
Linked with leveled ESL courses, meets for at least ten hours per quarter. State-mandated pre-testing and assessment testing as well as the College's registration process are included.

**ESL 005 ESL Level I** **1 - 11 Credits**  
Offered to non-literate second language speakers. Students will acquire the basic literacy skills to proceed to ESL 010. Prerequisite: Placement by CASAS oral screen.

**ESL 010 ESL Level II** **1 - 11 Credits**  
Offered to students who are literate in their own language or progressed from ESL 005. Students will be able to read small blocks of simple text and write simple sentences. Prerequisite: Placement by CASAS or completion of ESL 005.

**ESL 012 ESL Writing I** **1 - 4.5 Credits**  
Based on the fundamentals of English grammar, progresses from vocabulary development to sentence-level grammatical instruction. Also, offers grammar structures in context.

**ESL 013 ESL Writing II** **1 - 4.5 Credits**  
Students write narrative descriptions and short essays on familiar topics such as customs in native country. This course

offers grammar structures in context. Computers are used for editing and proofreading. Prerequisite: CASAS (form 20) 210.

**ESL 014 Oral Communication** **1 - 4.5 Credits**  
For students needing skills in verbal communication at a basic level. Students will use familiar (memorized or routine) oral phrases, questions and social conversation to increase both speaking and listening comprehension. Students will acquire the basic speaking skills to proceed to ESL 015.

**ESL 015 Communication** **1 - 4.5 Credits**  
Study and practice in pronunciation of North American English (NAE). Prerequisite: ESL 010 or instructor permission.

**ESL 016 Health Occupations - Skill Building** **1 - 4.5 Credits**  
Introduction course for ABE, ESL, and pre-college students who are integrated into Health Occupations programs (Pre-NA, NAC, Phlebotomy). Students must be co-enrolled in an ABE, ESL, GED or pre-college class. Prerequisite: Permission of the Transitional Studies Department.

**ESL 017 ESL for Pre Nursing Assistant** **1 - 3.5 Credits**  
Intermediate course for ESL students interested in the Pre-Nursing Assistant program. Students must be co-enrolled in ESL Level IV, V, or VI. Prerequisite: Permission of the Transitional Studies Department.

**ESL 018 ESL for Nursing Assistant** **1 - 3.5 Credits**  
Intermediate course for ESL students interested in becoming a Nursing Assistant. Students must be co-enrolled in ESL Level IV, V, or VI. Prerequisite: Permission of the Transitional Studies Department.

**ESL 019 ESL Health Occupational Bridge** **1 - 2 Credits**  
Advanced course for ESL students interested in health occupations. Students must be co-enrolled in ESL Level IV, V, or VI. Prerequisite: Permission of the Transitional Studies Department.

**ESL 020 ESL Level III** **1 - 11 Credits**  
Enables students to satisfy survival needs and routine work/social demands, handle work that involves oral and written instructions, comprehend basic citizenship skills, and communicate with native speakers. The students will apply basic sentence, fundamental spelling, and punctuation rules. Prerequisite: Placement by CASAS or completion of ESL 010.

**ESL 030 ESL Level IV** **1 - 11 Credits**  
Enables students to satisfy survival needs and routine work/social demands and communicate with native English speakers on familiar topics. Prerequisite: Placement by CASAS or completion of ESL 020. Students may co-enroll in ESL Health Occupation courses with permission of the Transitional Studies Department.

**ESL 040 Integrated Career Pathways I** **1 - 11 Credits**  
Designed for pre-professional technical or academic preparatory students who need to improve their English language skills. Prerequisite: Placement by CASAS or



## **ENGLISH AS A SECOND LANGUAGE – ENOLOGY AND VITICULTURE**

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completion of ESL 030. Student may co-enroll in a professional-technical course with the support of ESL instructor.

**ESL 060 Multi-Level ESL** 1 - 11 Credits  
Offered for ESL students in levels I-VI.

**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***

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**EV 100 Orientation to the Wine Industry** 1 Credit  
Overview of the wine industry in the Walla Walla Valley and the state of Washington. This is an extension of the course entitled: "Vine to Wine" and is required for students majoring in Viticulture or Enology. Students will enhance their knowledge of this growing industry and its current and future impact. Students will gain a deeper understanding and appreciation for the art and skill that go into crafting premium wines. Must be at least 21 years old or by instructor permission.

**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 Winemaking for Viticulture** 5 Credits  
A survey of the grape varieties and the different winemaking practices employed in wine producing regions throughout the world. In the vineyard, students will also participate in the fall grape harvest as well as in the propagation of vine cutting.

**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.

**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 182 Wines of the Pacific Coast** 1 Credit  
An introduction to the wine regions of the Pacific Coast, as well as a study in the varieties they produce. Emphasis will be on Chile, California, Oregon and the grape growing regions of Eastern Washington. Each evening's study will include particulars about climate, soil, and unique facets about the region of the night. An organoleptic assessment of representative regional samples will culminate each lesson.

**EV 186 Small Lot Winemaking** 1 Credit  
Designed for the home winemaker, this is a five-week course in which students will learn basic winemaking principles including fruit processing, juice additions, alcoholic and malo-lactic fermentations, and wine preservation and aging. Participants will crush and press Walla Walla Valley grapes and then take home their own five-gallon carboy of freshly pressed juice to finish into wine. Oak chips are optional.

**EV 187 Wines of the Walla Walla Valley** 1 Credit  
An introduction to the Walla Walla Valley wine region. Topics include history, viticultural practices and winemaking styles. Sensory evaluation of representative wines will be explored. 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 191 Cooperative Work Experience** 1 - 3 Credits  
Opportunity to work in jobs directly related to the enology and viticulture industry. This formal training period is agreed upon by the student, employer, and instructor. Prerequisite: Instructor permission.



## **ENOLOGY AND VITICULTURE**

- EV 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: EV 191.
- 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**  
Basic sensory science and how sensory evaluation relates to oak barrel selection, fining and filtration, blending, as well to wine defects are explored. Compounds responsible for specific aroma and flavor components are discussed. In addition to the continued monitoring of the wine produced in EV 203, students will learn how to care for and maintain oak barrels. Prerequisites: At least 21 years old and instructor permission.
- 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 233 Financial Management for Vineyard Wineries** **2 Credits**  
Financial and accounting principles and practices specific to winery and vineyard operations management. Special consideration will be paid to legal compliance issues derived from the 3-Tier alcohol distribution system, the cyclical production of wine grapes as an agricultural crop, as well as evaluating ROI of winery and vineyard equipment investments.
- EV 243 Wine Marketing Programs** **3 Credits**  
Enables the potential wine marketer to evaluate the risks and benefits of establishing a winery distribution system.
- 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. Prerequisites: 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 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 087; or permission of the Science Division Chair or designee. Recommended: READ 098. 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.

## ***Family and Consumer Studies***

### **FCS 009 Career Development for Displaced Homemakers 1 - 8 Credits**

A career development and life planning course that specifically addresses the needs of displaced homemakers 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 to the workplace. There are no class fees for eligible displaced homemakers.

### **FCS 040 Baby and You I 2 Credits**

Observation and classroom experience for parents and infants birth to 12 months. Development of the infant and the changing family relationships are studied. Parents attend class with their infant.

### **FCS 041 Baby and You II 2 Credits**

Observation and classroom experience for parents and infants birth to 12 months. Development of the infant and the changing family relationships are studied. Parents attend class with their infant.

### **FCS 042 Baby and You III 2 Credits**

Observation and classroom experience for parents and infants birth to 12 months. Development of the infant and

the changing family relationships are studied. Parents attend class with their infant.

### **FCS 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.

### **FCS 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.

### **FCS 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.

### **FCS 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.

### **FCS 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.

### **FCS 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.

### **FCS 070 Parent Toddler Relationships 2 Credits**

Group observation and participation experience for parents of three year olds to study and discuss relevant parenting topics. Discussions are enhanced through the use of current literature, videos, and guest speakers. Observing and interfacing with children three years old provide the laboratory experience.

### **FCS 071 Parent Toddler Relationships 2 Credits**

Group observation and participation experience for parents of three 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 interfacing with children three years-old provide the laboratory experience.

**FCS 072 Parent Toddler Relationships 2 Credits**  
Group observation and participation experience for parents of three 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 interfacing with children three years old provide the laboratory experience.

**FCS 100 Parent Cooperative Preschool 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.

**FCS 101 Parent Cooperative Preschool 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.

**FCS 102 Parent Cooperative Preschool 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.

### ***Farrier Science***

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**FRR 161 Record Keeping for Farriers 2 Credits**  
Introduction to basic record keeping for farriers. Includes record keeping and other information needed for small businesses.

**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.

**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 113 Intermediate Firefighting** 6 Credits

Enhances information discussed in FCA 111, Fundamentals of Firefighting. Taught in accordance with National Fire Protection Association (NFPA) standards. Topics include hazardous materials, fire behavior, use and types of extinguishers, advanced ventilation, search and rescue, forcible entry techniques, ropes and knots, and techniques in salvage and overhaul. Prerequisite: FCA 111 or instructor permission.

### **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 111 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 177 Wildland Fire Management** 3 Credits

Designed for the company officer, initial attack incident commander, and other firefighters that are confronted with a wildland/urban interface fire situation and will focus on strategy and tactical decisions than minimize property damage. Students will participate in a simulated fire incident, being required to evaluate the situation, order and deploy attack and support resources, and safely and effectively provide control of the situation. Prerequisite: FCA 111 or instructor permission.

### **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***

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### **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***

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### **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. Prerequisite: Appropriate placement score or grade of C or higher in ENGL 087; or permission of the Science Division Chair or designee. Recommended: READ 098.

### **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 098.

### **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***

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**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. 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 098; word processing and spreadsheet skills.

**GEOG 211 Introduction to Climate and Climate Change [NS] 5 Credits**  
Study of the global climate system. Examines the various factors that influence climate, including the interactions between the atmosphere, ocean, land, and biosphere. Other topics include specific climate classifications, local climates, human interactions and influences on climate, climates of the past, possible climates of the future, and climate models. 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 098.

### ***Geology***

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**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 098. 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 098. 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 098. 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. 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 098.

**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 098.

**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 098. Formerly GEOL 210, Pacific Northwest Geology.

### ***High School Completion***

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**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 Contemporary Affairs 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 040 General Science I 1 - 5 Credits**  
Introduction to the physical sciences, including topics from the fields of physics, astronomy, and geology. Emphasis on understanding the scientific method in preparation for advancement to college level science courses.

**HSC 041 General Science II 1 - 5 Credits**  
Introduction to the life sciences, including topics from the fields of biology, chemistry, and environmental science. Emphasis



## ***HIGH SCHOOL COMPLETION – HISTORY***

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on understanding the scientific method in preparation for advancement to college level science courses.

### **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.

## ***History***

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### **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 098. 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 098. 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 098. 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 098. Student may not earn credit for both HIST 120 and POLS 120.

### **HIST& 126 World Civilization I [H, SS] 5 Credits**

Introduction to the history of world cultures from a global perspective, dealing with the development of human civilizations from ancient origins. Recommended: READ 098. 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 the history of world cultures from a global perspective, dealing with the development of human

civilizations from approximately 1000 years ago to about 200 years ago. Recommended: READ 098. 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, over the last 200 years. Focuses on the impact of industrialization on democratization, the rise and fall of Western hegemony, war and revolution in 20th century culture, and the emergence of a global village. Recommended: READ 098. 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 1840s. Recommended: READ 098. 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 1840s to World War I. Recommended: READ 098. 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 098. Formerly HIST 203, American History III.

### **HIST 205 American Environmental History [SS] 5 Credits**

Explores the natural environment of America with special emphasis upon the ways in which different cultural groups have perceived, used, managed, and conserved the American environment from the colonial period to the present. The course also examines changing attitudes and behaviors toward nature with specific attention toward past and present conservation and the emergence of the environmental movement. The course will require student reading of primary and secondary sources, as well as critical thinking and communication skills. Recommended: READ 098.

### **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



## ***HISTORY – HUMANITIES***

Century. Recommended: READ 098. 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 nation's position on significant international issues from the Spanish-American War to the present. Recommended: READ 098. 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 098. 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 098. Student may not earn credit for both HIST& 215 and WST 215. Formerly HIST 280, Women in US History.

**HIST 240 Western Minority History [SS] 5 Credits**  
A general examination of the specific minority groups that helped explore, settle, and develop the Western United States. Cultural, religious, political, and socio-economic differences between the Native American societies and the dominant Spanish and American societies will be examined. Special attention will be given to examining, discussing, and challenging the traditional histories concerning the region. Recommended: READ 098.

**HIST 250 Introduction to Latin America [D, SS] 5 Credits**  
Provides a brief introduction to Latin America, from Pre-Columbia origins, conquest, to colonial times; to independence and modern states. Students are not expected to have previous knowledge or background related to this subject. Recommended: READ 098.

**HIST 255 Traditional East Asian Civilization [SS] 5 Credits**  
Survey of Chinese and Japanese history and culture from prehistory to present. Recommended: READ 098.

**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 098.

**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 098.

**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 [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.

**HUM& 116 Humanities I [H] 5 Credits**  
Study of selections of art, theatre, music, literature, philosophy, architecture and culture in the ancient world. Formerly HUM 101, Intro to Humanities I.

**HUM& 117 Humanities II [H] 5 Credits**  
Study of selections of art, theatre, music, literature, philosophy, architecture and culture in the middle ages and the renaissance. Formerly HUM 102, Intro to Humanities II.

**HUM& 118 Humanities III [H] 5 Credits**  
Study of selections of art, theatre, music, literature, philosophy, architecture and culture in the modern world. Formerly HUM 103, Intro to Humanities III.

**HUM 220 Honors Seminar: Cultural Inquiries Through Study and Service 2 Credits**  
Provides an opportunity for the study of political, linguistic and cultural borders. Students will investigate ways that language, literature and popular culture can be used to explore the lines between different societies. Service learning opportunities will permit analysis of boundaries explored in the course. Prerequisite: Enrolled in the Honors Program or instructor permission.

**HUM 299 Special Topics 1 - 5 Credits**  
Opportunity for students to pursue special interests and topics in the humanities. Requires working with humanities



## ***INDUSTRIAL FIRST AID – JOHN DEERE DEALERSHIP MANAGEMENT***

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.

#### **IFA 024 Pediatric First Aid .6 Credit**

A training course in basic emergency care with a focus on infants and children. CPR and first aid are integrated into one course, allowing the student to function with one set of priorities beginning with airway, breathing, and circulation following the same priorities of care used by professionals. Emphasizes prevention strategies and development of the seven skills of patient care.

### ***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 2 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 JDAS 135 and JD 135.

#### **JDAS 190 Cooperative Work Experience I 1 - 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 JDAS 190 and JD 190.

#### **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 1 Credit**

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 225 John Deere Planting Equipment 1 Credit**

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 in both JDAS 225 and JD 225.



## ***JOHN DEERE DEALERSHIP MANAGEMENT – JOHN DEERE TECHNOLOGY***

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**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***

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**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.

**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.



## ***JOHN DEERE TECHNOLOGY – MATHEMATICS***

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### **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.

## ***Library***

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### **LIB 110 Introduction to Information Resources 1 - 5 Credits**

Introduction to the student to computer-based research and print resources. Resources used will include library information

networks, online catalogs, and the Internet. Students learn strategies for locating, evaluating, and citing resources.

## ***Mathematics***

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### **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.

### **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.



## **MATHEMATICS**

### **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.

### **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.

**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 098.

**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 098.

**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 098.

**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**  
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: MEDA 191.

## 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. Formerly MUS 101, Music Appreciation.



## **MUSIC**

<b>MUSC 106 Music Theory I [HP]</b>	<b>5 Credits</b>	<b>MUSC 122 Stage/Pep Band II</b>	<b>2 Credits</b>
Basic musical concepts and terminology through analysis, listening and keyboard practice; part writing, composition; ear training and sight singing. Formerly MUS 106.		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.	
<b>MUSC 107 Music Theory II [HP]</b>	<b>5 Credits</b>	<b>MUSC 123 Stage/Pep Band III</b>	<b>2 Credits</b>
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.		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.	
<b>MUSC 108 Music Theory III [HP]</b>	<b>5 Credits</b>	<b>MUSC 126 Jazz Combo I [HP]</b>	<b>1 - 3 Credits</b>
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.		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.	
<b>MUSC 110 History of American Music [H]</b>	<b>5 Credits</b>	<b>MUSC 127 Jazz Combo II [HP]</b>	<b>1 - 3 Credits</b>
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.		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.	
<b>MUSC 113 Choral Singing I</b>	<b>1 - 3 Credits</b>	<b>MUSC 128 Jazz Combo III [HP]</b>	<b>1 - 3 Credits</b>
Beginning instruction in the techniques of group vocal performance in preparation for the summer musical. Formerly MUS 113.		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.	
<b>MUSC 114 Choral Singing II</b>	<b>3 Credits</b>	<b>MUSC 130 Piano Fundamentals/Blues</b>	<b>1 - 2 Credits</b>
Intermediate instruction in the techniques of group vocal performance in preparation for the summer musical. Formerly MUS 114.		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.	
<b>MUSC 115 Choral Singing III</b>	<b>3 Credits</b>	<b>MUSC 131 Applied Music I</b>	<b>1 - 2 Credits</b>
Advanced instruction in the technique of group vocal performance in preparation for the summer musical. Formerly MUS 115.		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.	
<b>MUSC 116 College Voice I [HP]</b>	<b>1 - 2 Credits</b>	<b>MUSC 132 Applied Music II</b>	<b>1 - 2 Credits</b>
Voice training for interested students who can benefit from the study of the fundamentals of singing. Formerly MUS 116.		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.	
<b>MUSC 117 College Voice II [HP]</b>	<b>1 - 2 Credits</b>	<b>MUSC 133 Applied Music III</b>	<b>1 - 2 Credits</b>
Voice training for interested students who can benefit from the study of the fundamentals of singing. Formerly MUS 117.		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.	
<b>MUSC 118 College Voice III [HP]</b>	<b>1 - 2 Credits</b>		
Voice training for interested students who can benefit from the study of the fundamentals of singing. Formerly MUS 118.			
<b>MUSC 121 Stage/Pep Band I</b>	<b>2 Credits</b>		
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 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.

**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.



## ***MUSIC – NURSING***

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**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***

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**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** 5 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** 5 Credits  
The focus of this course is assisting LPN's 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.



## ***NURSING – OCCUPATIONAL SUPPORT***

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### **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.

### **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 Summer Practicum**

**7 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 Summer Transition Practicum: LPN to ADN**

**7 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***

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### **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. Prerequisite: Appropriate placement score or grade of C or higher in ENGL 087; or permission of the Science Division Chair or designee. Recommended: READ 098; CHEM& 110 or high school chemistry. Formerly NUTR 165, General Nutrition.

## ***Occupational Support***

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### **OCSUP 076 Career Pathways I**

**1 - 4 Credits**

Introductory course aimed to enhance student's work readiness through coursework and skill development in the following areas: classroom and workplace writing, review of math/science concepts, professionalism, critical thinking, job search skills and conversational formatting as it relates to the work environment. Prerequisite: Permission of the Transitional Studies Department.



## OCCUPATIONAL SUPPORT – OFFICE TECHNOLOGY

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### OCSUP 077 Career Pathways II

1 - 4 Credits

Aims to enhance student's work readiness through coursework and skill development in the following areas: classroom and workplace writing, review of math/science concepts, professionalism, critical thinking, job search skills and conversational formatting as it relates to the work environment. Prerequisite: Permission of the Transitional Studies Department.

### OCSUP 078 Career Pathways III

1 - 4 Credits

Advanced course aimed to enhance student's work readiness through coursework and skill development in the following areas: classroom and workplace writing, review of math/science concepts, professionalism, critical thinking, job search skills and conversational formatting as it relates to the work environment. Prerequisite: Permission of the Transitional Studies Department.

### 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.

### 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.

### 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 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 grade of C- or better in OCSUP 107, 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***

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### 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 098. Formerly OCE 101, Intro to Oceanography.

## ***Office Technology***

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### 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.



## OFFICE TECHNOLOGY

### **OT 115 Specialized Transcription I**

**5 Credits**

Fundamental course in transcribing business documents from audio tapes or CD's using word processing software. Instruction on developing listening skills by applying correct grammar, punctuation, and format to business documents. Designed specifically for executive, legal, or medical majors. Recommended: BUS 136 and OT 120.

### **OT 116 Specialized Transcription II**

**5 Credits**

Advanced course in transcribing medical documents from audio tapes or CD's using word processing software. 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 120.

### **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.

### **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. Recommended: BUS 136 and OT 120.

### **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 219 Office Machines**

**5 Credits**

Develops job competency on the desktop calculator using the ten-key touch method and special features of the machine to solve common business problems with speed, accuracy, and efficiency. In addition, students gain 10-hours of experience operating high-end copiers, postage meter, fax machine, and multi-line switchboard.

### **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 Document Processing I**

**5 Credits**

Includes legal typing experience typical of any law office. Provides a legal procedures background as well as legal terminology. Emphasizes understanding the legal processes, developing expertise in legal typing, and understanding legal office procedures. Introduces approximately 800 terms which are utilized within the legal office to help students correctly spell, pronounce, and define. Students continue improving speed and accuracy rates as well as completing speed and accuracy diagnostic drills. Students utilize a word processing system to complete documents.

### **OT 229 Legal Document Processing II**

**5 Credits**

Continuance of OT 228, which includes legal vocabulary from the Legal Studies: Terminology and Transcription textbook. Students complete jobs typical of a legal environment. Students complete the Legal Office Procedures packet, where they gain insight into the various tasks of a legal administrative assistant. Students continue improving speed and accuracy rates as well as completing speed and accuracy diagnostic drills. Students utilize word processing systems to complete documents, conclusively.



## ***OFFICE TECHNOLOGY – OUTDOOR POWER EQUIPMENT***

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**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. In addition, diagnosis coding from the ICD, 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 procedural (CPT) 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 098.

**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***

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**TST 120 Shop Management** **3 Credits**  
Focuses on setting up and maintaining effective shop record systems, tools, parts, equipment ordering, and overall shop maintenance and layout.

**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**  
Explores introducing, perfecting, and evaluating basic safety and shop skills necessary for the successful turf equipment manager. Instruction and shop performance exercises in safety; hand and machine tool operation, use, and maintenance; hardware identification; and other basic shop skills. 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.

**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 and OPE Attachments** **1 - 17 Credits**

Comprehensive study of basic electrical emphasizing fundamentals and safety, component diagnostic and repair, and electro-hydraulic theory necessary for EETC technician certification. Other topics include OPE attachments such as rotary mowers, chainsaws, string trimmers/brushcutters, edgers, and tiller safety, repair and adjustment.

**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. Prerequisite: TST 151 or instructor permission.

**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. Prerequisite: TST 151.

**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.



## ***OUTDOOR POWER EQUIPMENT – PHYSICAL EDUCATION AND RECREATION***

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**TST 252 Turf Equipment Fundamentals** **3 Credits**  
Gas and diesel engines, electrical, power trains, and hydraulics to perform simple tune-up and repairs will be covered.

**TST 255 Advanced Diesel and Electrical** **1 - 17 Credits**  
In-depth study on the theory, operation, and service procedures necessary to maintain modern compact diesels used in compact tractor and turf equipment. Topics include electro-hydraulics, computer controls, and in-depth trouble shooting as it pertains to compact and commercial equipment. Prerequisite: TST 157.

**TST 256 Advanced Hydraulics and Reels** **1 - 17 Credits**  
In-depth study of advanced hydraulic systems, servo controls, and hydraulic clutch packs emphasizing hands on testing and diagnosing. Topics include reel products, grinding techniques, and rebuilding procedures. Prerequisite: TST 255.

**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***

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**PHIL& 101 Introduction to Philosophy [H]** **5 Credits**  
Study of the basic ideas in western philosophy. Recommended: READ 098 and ENGL 097. Formerly PHIL 101, Intro to Philosophy I.

**PHIL 103 Asian Philosophy [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 098 and ENGL 097.

### ***Physical Education and Recreation***

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**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.

**HPER 105 Jogging [PE]** **1 Credit**  
Sports activity course emphasizing methods, benefits, and techniques of jogging to encourage fitness, pleasure, and safety.

**HPER 106 Karate [PE]** **1 Credit**  
Sports activity course emphasizing the skills and mental discipline of karate.

**HPER 107 Tone Zone 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.

**HPER 108 Tone Zone 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.

**HPER 109 Tone Zone 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.

**HPER 110 Speed Training I [PE]** **1 Credit**  
Sports activities course emphasizing speed and agility.

**HPER 111 Cross Training Cardio II [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 112 Tone Zone for Corrections & Law Enforcement 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.

**HPER 113 Recreational Games [PE] 1 Credit**  
Sports activity course emphasizing games for various age and skill groups.

**HPER 116 Beginning Tennis [PE] 1 Credit**  
Sports activity course emphasizing rules, skills, and strategies of tennis.

**HPER 117 Intermediate Tennis [PE] 1 Credit**  
Sports activity course emphasizing skills, rules, and strategies of competitive tennis will be covered.

**HPER 118 Skiing/Snowboarding I [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.

**HPER 120 Beginning Golf [PE] 1 Credit**  
Provides instruction in the basics of golf in order to develop correct technique from the first swing onward.

**HPER 121 Intermediate Golf [PE] 1 Credit**  
Skills, rules, and strategies of competitive golf will be covered.

**HPER 122 Weight Training I [PE] 1 Credit**  
Sports activities course emphasizing the safety, techniques, benefits, methods, and practice of weight training.

**HPER 123 Weight Training II [PE] 1 Credit**  
Sports activities course emphasizing the safety, techniques, benefits, methods, and practice of weight training.

**HPER 124 Weight Training III [PE] 1 Credit**  
Sports activities course involving conditioning with various weight devices and involving development of personal goals and conditioning program.

**HPER 125 Bowling [PE] 1 Credit**  
Sports activities course emphasizing the safety, rules, skills, and strategies of bowling.

**HPER 128 Aqua Aerobics [PE] 1 Credit**  
A cardio workout in the pool with less impact on your joints.

**HPER 129 Basic Swimming [PE] 1 Credit**  
Teaches the basic swimming strokes, water safety skills and proper pre-workout stretching for all swimmers, beginning to advanced.

**HPER 130 Lifeguard Training [PE] 1 Credit**  
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 131 Skiing/Snowboarding II [PE] 1 Credit**  
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 132 Aqua Aerobics II [PE] 1 Credit**  
A cardio workout in the pool with less impact on your joints.

**HPER 133 Aqua Aerobics III [PE] 1 Credit**  
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.

**HPER 144 Walking I [PE] 1 Credit**  
Students to learn the proper way to walk to enhance physical fitness and to develop a lifelong skill.

**HPER 145 Racquetball I [PE] 1 Credit**  
Sports activities course emphasizing racquetball fundamentals, strategies, and appropriate conditioning.

**HPER 146 Racquetball II [PE] 1 Credit**  
Sports activity course emphasizing the safety, rules, skills, strategies, and techniques of playing racquetball competitively.

**HPER 147 Walking II [PE] 1 Credit**  
Learn the proper way to walk, enhancing and evaluating their own fitness level while developing a lifetime activity.

**HPER 148 Walking III [PE] 1 Credit**  
Learn the proper way to walk, enhancing and evaluating their own fitness level while developing a lifetime activity.

**HPER 154 Speed Training II [PE] 1 Credit**  
Sports activities course emphasizing speed and agility.

**HPER 155 Speed Training III [PE] 1 Credit**  
Sports activities course emphasizing speed and agility.



## ***PHYSICAL EDUCATION AND RECREATION***

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**HPER 160 Basic Rodeo Skills and Rules [PE] 2 Credits**  
Sports activity course emphasizing skills, rules and strategies of college rodeo.

**HPER 161 Intermediate Rodeo Skills and Rules [PE] 2 Credits**  
Sports activity course emphasizing skills, rules and strategies of college rodeo.

**HPER 162 Advanced Rodeo Skills and Rules [PE] 2 Credits**  
Sports activity course emphasizing skills, rules and strategies of college rodeo.

**HPER 166 Beginning Yoga I [PE] 1 Credit**  
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.

**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.

**HPER 168 Yoga to Go I [PE] 1 Credit**  
Yoga To Go I, II & III offers students with some yoga experience three levels of training to develop an advanced practice. The 1 credit courses are offered sequentially each quarter, but each section stands alone and can be taken separately or together depending on the students need and self-assessment.

**HPER 169 Yoga to Go II [PE] 1 Credit**  
Yoga To Go I, II & III offers students with some yoga experience three levels of training to develop an advanced practice. The 1 credit courses are offered sequentially each quarter, but each section stands alone and can be taken separately or together depending on the students need and self-assessment.

**HPER 170 Yoga to Go III [PE] 1 Credit**  
Yoga To Go I, II & III offers students with some yoga experience three levels of training to develop an advanced practice. The 1 credit courses are offered sequentially each quarter, but each section stands alone and can be taken separately or together depending on the students need and self-assessment.

**HPER 171 Basketball Skills and Rules [PE] 2 Credits**  
Sports activity course emphasizing skills, rules and strategies of basketball.

**HPER 172 Baseball/Softball Skills and Rules [PE] 2 Credits**  
Sports activity course emphasizing skills, rules and strategies of baseball.

**HPER 174 Volleyball Skills and Rules [PE] 2 Credits**  
Sports activity course emphasizing skills, rules and strategies of volleyball.

**HPER 176 Golf Skills and Rules [PE] 2 Credits**  
Sports activity course emphasizing skills, rules and strategies of golf.

**HPER 177 Soccer Skills and Rules [PE] 2 Credits**  
Sports activity course emphasizing the rules, skills, techniques, methods, and strategies of competitive soccer.

**HPER 181 Basketball Methods and Materials [PE] 2 Credits**  
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 182 Baseball/Softball Methods and Materials [PE] 2 Credits**  
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 184 Volleyball Methods and Materials [PE] 2 Credits**  
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 186 Golf Methods and Materials [PE] 2 Credits**  
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 187 Soccer Methods and Materials [PE] 2 Credits**  
Overview of several different methods of play and the latest developments in pertinent equipment and materials.

**HPER 188 Basic Fitness I [PE] 1 Credit**  
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 189 Basic Fitness II [PE] 1 Credit**  
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 190 Basic Fitness III [PE] 1 - 2 Credits**  
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 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.



## ***PHYSICAL EDUCATION AND RECREATION – PHYSICS***

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### **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.

### **HPER 268 Diversity in Sports**

**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, Paraolympics, 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.

### **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.

### **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.

## ***Physics***

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### **PHYS 110 Conceptual Physics [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 098.

### **PHYS 121 College Physics I [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 098; basic knowledge of trigonometry.

### **PHYS 122 College Physics II [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 121.

### **PHYS 123 College Physics III [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 122.

### **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 201 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 098. Co-requisite: MATH& 151.

### **PHYS 202 Physics for Science and Engineering II [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 201. Co-requisite: MATH& 152.



## ***PHYSICS – PROFESSIONAL GOLF MANAGEMENT***

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### **PHYS 203 Physics for Science and Engineering III [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 202. Co-requisite: MATH& 153.

## ***Political Science***

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### **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 098. Student may not earn credit for both HIST 120 and POLS 120. Formerly PSCI 120.

### **POLS 125 Student Leadership I [SS]**

**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 to how our national government works in response to legitimate political needs. Content is provided via: lecture, discussion, videos and current supplementary readings. Recommended: READ 098. 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 098. 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 098. 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 098. 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 098. Student may not earn credit for both POLS 222 and AGRI 222. Formerly PSCI 222.

## ***Professional Golf Management***

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### **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. Prerequisite: Instructor permission.

### **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. Prerequisite: Instructor permission.

### **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. Prerequisite: Instructor permission.

### **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. Prerequisite: Instructor permission.



## ***PROFESSIONAL GOLF MANAGEMENT – PSYCHOLOGY***

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### **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. Prerequisite: Instructor permission.

### **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. Prerequisite: Instructor permission.

### **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. Prerequisite: Instructor permission.

### **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. Prerequisite: Instructor permission.

### **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. Prerequisite: Instructor permission.

### **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. Prerequisite: PGM 121.

### **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.

### **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***

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### **PSYC 050 Partners in Parenting**

**5 Credits**

This course focuses on the psychological, social, and legal issues with regard to family relationships. Topics include: dating, cohabitation, the cycle of marriage, divorce, domestic



violence, child abuse and neglect, democratic parenting, safety issues and child proofing a home, communication patterns and skills. Formerly PSY 050.

## **PSYC 095 Skills for Success I 1 - 3 Credits**

Assists students in achieving self-fulfillment and harmonious interpersonal relationships by developing the skills necessary for functioning successfully as group members. Includes techniques for critical thinking, decision-making procedures, goal setting, communication, group problem solving, teamwork, leadership, multicultural and diversity awareness, and career/life planning. Formerly PSY 095.

## **PSYC 096 Skills for Success II 3 Credits**

Emphasizes skills for functioning successfully as a group member and for achieving self-fulfillment and harmonious interpersonal relations. Includes techniques for critical thinking, decision-making procedures, goal setting, communication, group problem solving, teamwork, leadership, multicultural and diversity awareness, and career/life planning. Formerly PSY 096.

## **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 study should be a clearer understanding of individual behavior. Critical thinking skills and practical applications are emphasized. Recommended: READ 098. 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 and nudity. Prerequisite: Appropriate placement score or grade of C or higher in ENGL 097. Recommended: READ 098. Student may not earn credit for both PSYC 113 and WST 113. High school students need written permission from parents to enroll in course. Formerly PSY 113.

## **PSYC 139 Psychology of Women [SS] 5 Credits**

Historical and cultural development of growing up female. Social and psychological perspectives of female identity, traditional and nontraditional roles, values, sexuality, dependency, and the changing perception of femininity and masculinity will be examined. Student may not earn credit for both PSYC 139 and WST 139. 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 098. 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. Formerly PSY 196.

## **PSYC& 200 Lifespan Psychology [SS] 5 Credits**

In-depth study of human development focusing on the physical, cognitive, and psychosocial domains of each of the stages of the life span from birth to death. Recommended: READ 098. 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 098. Formerly PSY 205. [SS]

## **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. Recommended: READ 098. 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. Formerly PSY 250, Abnormal Psychology.



## **PSYCHOLOGY – SOCIOLOGY**

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**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. Formerly PSY 224.

**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 in which the student will explore interventions to promote an awareness of current environmental difficulties. Formerly PSY 225.

**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.

### ***Reading***

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**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***

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**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***

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**SOC& 101 Introduction to Sociology [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. Prerequisite or Co-requisite: SOC& 101 or PSYC& 100. Requires 30 hours per credit.

**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. Prerequisite or Co-requisite: SOC& 101 or PSYC& 100. Requires 30 hours per credit.

**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. Prerequisite or Co-requisite: SOC& 101 or PSYC& 100 Requires 30 hours per credit.

**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. Prerequisite or Co-requisite: SOC 101& or PSYC& 100. Requires 30 hours per credit.

**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 098.

**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.

**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. The institutional impact of the aging revolution.

**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.

**SOC 209 Introduction to Neighborhood Development [SS] 3 Credits**  
Expose students to fundamentals of grassroots neighborhood organization work. Course will feature a weekly theme discussion with accompanying fieldwork.

**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 215 Diversity Viewpoints [SS] 5 Credits**  
Interdisciplinary course that focuses on social behavior, cross-cultural communication, and cultural competence in community and society.

**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 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.

**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 town, 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 complete by the following winter quarter. This course is available to current participants in the Sherwood Trust Community Leadership Program.

**SOC 227 Community Leadership Service Project [SS] 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 complete by the following winter quarter. This course is available to current participants in the Sherwood Trust Community Leadership Program.

**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. A concentration will be given to assessing health maintenance, correlations within the health care systems, individual well-being, real-perceived illnesses, and the notion of our medicalized body. Review how social stress, health behaviors, the environment, and the distribution of illnesses in the United States have impacted our health and health care system. A medical sociology concentration is helpful for students interested in nursing, health care administration, medical technology, social work, pre-medicine or pharmacy. Recommended: READ 098.

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## **Spanish**

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**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.

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## **Turf Management**

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**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 MANAGEMENT— WATER MANAGEMENT***

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### **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 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 Pesticides Licensing**

**3 Credits**

Preparation for the State of Washington pesticide licensing exam.

### **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.

### **TURF 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.

## ***Water Management***

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### **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**

**3 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**

**3 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.



## ***WATER MANAGEMENT – WATERSHED ECOLOGY***

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### **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**

**3 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.

### **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***

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### **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.



## ***WATERSHED ECOLOGY – WELDING TECHNOLOGY***

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### **NR 200 Field Botany**

**3 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.

### **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, endocrinology, and behavioral ecology. Hands on lab experience with fish taxonomy and anatomy.

### **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***

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### **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 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 electrode practice, shop work practice, demonstrations, and classroom presentations. Prerequisite: WELD 151 or instructor permission.

### **WELD 153 Shielded Metal Arc Welding III**

**1 - 17 Credits**

Additional experience and training in safe arc welding procedures and the opportunity to take 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.

### ***Women's Studies***

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**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 098. Student may not earn credit for both WST 113 and PSYC 113. High school students need written permission from parents to enroll in course.

**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 098. Student may not earn credit for both WST 121 and BIOL 121.

**WST 124 Women Artists: A Historical Survey [H]** 5 Credits  
Focuses on the unique artistic contributions of women artists through history from the middle ages to present. Student may not earn credit for both WST 124 and ART 124.

**WST 139 Psychology of Women [SS]** 5 Credits  
The historical and cultural development of women. Social and psychological perspectives of female identity, traditional and nontraditional roles, values, sexuality, dependency, and the changing perception of femininity and masculinity will be examined. Student may not earn credit for both WST 139 and PSYC 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.

**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.

**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 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.

**WST 251 Voices of Women in Literature [H]** 5 Credits  
Survey of 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 WST 251 and ENGL 251.

### ***Writing***

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**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.

**WRITE 110 Technical Writing** 3 Credits  
Students learn how to outline material and write technical description, sets of instructions, job application letters/resumes. In addition, they are assigned a semiformal scientific/technical report. Prerequisite: Placement by entrance assessment or C or better in ENGL 097.



# **FACULTY, STAFF AND ADMINISTRATORS**







## FACULTY, STAFF AND ADMINISTRATORS

### **Ackerman, Rhonda**

Secretary Senior, Auto Mechanics Technology

### **Adams, Jeffrey**

Instructor, Spanish

*B.A., Eastern Oregon University; M.A., University of Washington*

### **Adams, Michael D.**

Instructor, Auto Mechanics Technology

*A.A.S., Wyoming Technical Institute, Inc.*

### **Adamski, Kathleen Martin**

Instructor, Nursing

*B.S.N., Western Washington University; M.N., University of Washington*

### **Anderson, Brad**

Information Technology System Specialist 2, Technology Services

### **Anderson, Brenda**

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### **Anderson, James L.**

Campus Café and Catering Supervisor

### **Anderson, Michael**

Maintenance Mechanic 2, Facility Services

### **Andrews, Linda**

Instructor, English and Literature

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### **Angus, Claudia L.**

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### **Anhorn, Gerald J.**

Instructor, Water Management

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### **Anthony, Lynn E.**

Instructor, Information Technology Certificate; Coyote Ridge Correction Center

*B.S., University of California, Riverside*

### **Aycock, Shirley**

Program Coordinator, Athletics

### **Bailey, David**

Instructor, Diesel Equipment Mechanics

*Vocational Certificate, Wyoming Technical Institute*

### **Baker, Forrest R.**

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### **Banks, Emily S.**

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### **Barila, Teri**

Community Network Administrator

*B.S., American University; M.S., University of Maryland*

### **Barton, Buster**

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*A.A., Walla Walla Community College*

### **Becker, Patricia**

Instructor, Nursing

*P.N. Certificate, Walla Walla Community College; A.D.N., Columbia Basin College; B.S.N., M.S.N., Washington State University*

### **Becker, Robert L.**

Instructor, Nursing

*A.D.N., Walla Walla Community College; B.S.N., University of the State of New York; M.N., University of Washington*

### **Bellmore, Gail**

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### **Benefiel, Gary**

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Grounds and Nursery Services Specialist 2, Facility Services

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Instructor, Mathematics and Civil Engineering Technology; Clarkston Campus

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### **Bloom, Cheryl**

Program Assistant, Testing, Student Development Center

### **Boatman, Jacqueline**

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### **Bodnar, Chad A.**

Head Men's and Women's Soccer Coach, Professional Technical Advisor

*B.A., Washington State University*

### **Boone, Gary L.**

Procurement and Supply Specialist 2, Purchasing Department

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### **Boone, John D.**

Instructor, Information Technology Certificate; Washington State

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*A.A., Orange Coast Community College; B.A., Whitman College*

### **Bowen, Samantha**

Project Manager, Walla Walla Early Learning Coalition/Born Learning Coordinator

### **Bower, James**

Instructor, Humanities; Clarkston Campus

*B.A., California State University, Fullerton; M.A., Emmanuel School of Religion; M.Ed., East Tennessee State University*

### **Boyd, Paul G.**

Instructor, Transitional Studies

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Instructor, English/Literature

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Auto Body Repair Technology Instructor; Washington State Penitentiary

*B.A., Central Washington University; A.S., Columbia Basin College*

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Project Coordinator, Snake River Salmon Recovery Board

*B.S., University of Wisconsin; M.S., Utah State University*

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Secretary Senior, Business Education, Transitional Studies, Early Childhood  
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Director of Human Resources  
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Vocational Technical Certificate; Compost Facility Managers Certification;  
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Tester

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### **Hazeltine, Bobbi**

Women's Basketball Coach; Assistant Athletic Director, Women's Programs;  
Financial aid Advisor; and Instructor

### **A.L.A., North Idaho College; B.S., M.Ed., University of Idaho**

### **Hector, Frances**

Secretary Senior, John Deere Technology and Diesel Mechanics  
B.S., Sacramento State University

### **Helgeson, Hildy**

Secretary Senior, Distance Learning

### **Hellie, Richard**

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Center; Neonatal Nurse Practitioner, NCC Certification; Pediatric  
Nurse Practitioner Advanced Certificate, Hunter College; Family Nurse  
Practitioner, Washington State University

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### **Hockett, Jessica**

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Program Specialist 2, Office of Admissions and Records

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### **Madsen, Sandra**

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B.S., *Lewis-Clark State College*

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B.S., M.Ed., *University of Idaho*

### **Mahan, Lindsey K.**

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### **Mahan, Michael F.**

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### **Manderscheid, Becky**

Secretary Senior, Nursing Education

### **Markwalter, Heather R.**

Retention Specialist, Clarkston Campus  
A.A., B.A., *New Mexico State University*; M.S., *Troy State University*

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### **Martin, Steve**

Director, Snake River Salmon Recovery Board  
B.S., M.S., *Eastern Washington University*

### **Martinez, Maria**

Custodian 1, Facility Services

### **Mason, Bradley**

Coordinator, Allied Health and Safety Education  
*Respiratory Therapist Certificate, Creighton University; R.R.T.*

### **May, Steve**

Instructor, Astronomy, Geology and Physics  
B.S., *Western Washington University*; M.S., *Stanford University*

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### **McFadyen, Carol**

Instructor, Nursing; Clarkston Campus  
B.S.N., *Oregon Health Sciences University*; M.N., *University of Washington*; Ph.D., *Washington State University*

### **Meagher, Carolyn**

Office Assistant 3, Education Program, Washington State Penitentiary

### **Meier, Janelle**

Library and Archives Paraprofessional 6, Library Services  
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Transportation and Diesel Job Shop Coordinator

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Maintenance Mechanic 2, Facility Services  
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### **Miller, Debbie Sue**

Fiscal Analyst 3, Business Services

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Coordinator, Grant Management and Tech Prep  
B.S., Oregon State University; M.Ed., Walla Walla University; Ed.Admin., Lewis  
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Practical Nursing Certificate, A.A.A.S., A.D.N., Walla Walla Community College

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### **Ramsey, Marleen**

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### **Scudder, Chris**

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Technical School Diploma, Maicop P.T.S., Russia; Certificate of Completion  
Auto Body Program, Walla Walla Community College

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Fiscal Technician 2, Business Services  
Business Administration/Accounting Certificate, Kinman Business University

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Enrollment and Course Information Coordinator  
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Automotive Mechanic Trainee

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B.S., University of Puget Sound; M.S., D.A., Idaho State University

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*B.A., University of Asmara, Ethiopia*

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Director, Retention Services  
*A.A., Walla Walla Community College; B.A., Eastern Washington University; M.S.W., Walla Walla University*

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Instructional and Electronic Services Librarian  
*B.A., Marylhurst University; M.L.S., Emporia State University; M.A. Marylhurst University*

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Retail Clerk Lead, Bookstore

**Whittenberg, Mary**

Secretary Supervisor, Clarkston Campus

**Wilde, Del**

Instructor, John Deere Agricultural Technology; Director Trades and Technology III  
*Vocational Technical Certificate*

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Program Coordinator, The Center for Enology and Viticulture

**Willis, Sue**

Director, Budgets, Grants and Contracts; Business Services  
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Office Assistant 2, Education Program, Washington State Penitentiary

**York, Deana**

Coordinator, Life Transitions Program (IMPACT!)  
*B.A., M.Ed., Central Washington University*

**You, Nanqi**

Instructor, Computer Science, Art, and Humanities  
*B.A., Xi'an Foreign Languages University; M.A., 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; B.S., Eastern Washington University*

**Zaragoza, Rosaura**

Office Assistant 3, Transitional Studies







# CAMPUS MAPS







# Walla Walla Campus Map

## The Buildings of Walla Walla Community College

### Campus Loop Buildings

- 510** – Dietrich Activity Center (Gym, DDD)
- 514** – Parent Child Center (JJJ)
- 518** – Women's Center (HHH)
- 520** – Main Building (AAA)
- 535** – Health Science & Performing Arts (RRR)
- 537** – Technology Center (TTT)
- 540** – China Pavilion (CCC)
- 540.5** – Facilities
- 550** – Prof.-Technical Building (LLL)

### Water Center Drive Buildings

- 611** – First Flight Day Care
- 621** – John Deere Training Center (MMM)
- 623** – Diesel Mechanics (NNN)
- 625** – Farrier/Grounds Maintenance (FFF)
- 629** – Applied Tech. Training Ctr. (ATT)
- 630** – Greenhouse (GGG)
- 640** – Water & Environmental Center (WWW)

### E. Isaacs Buildings

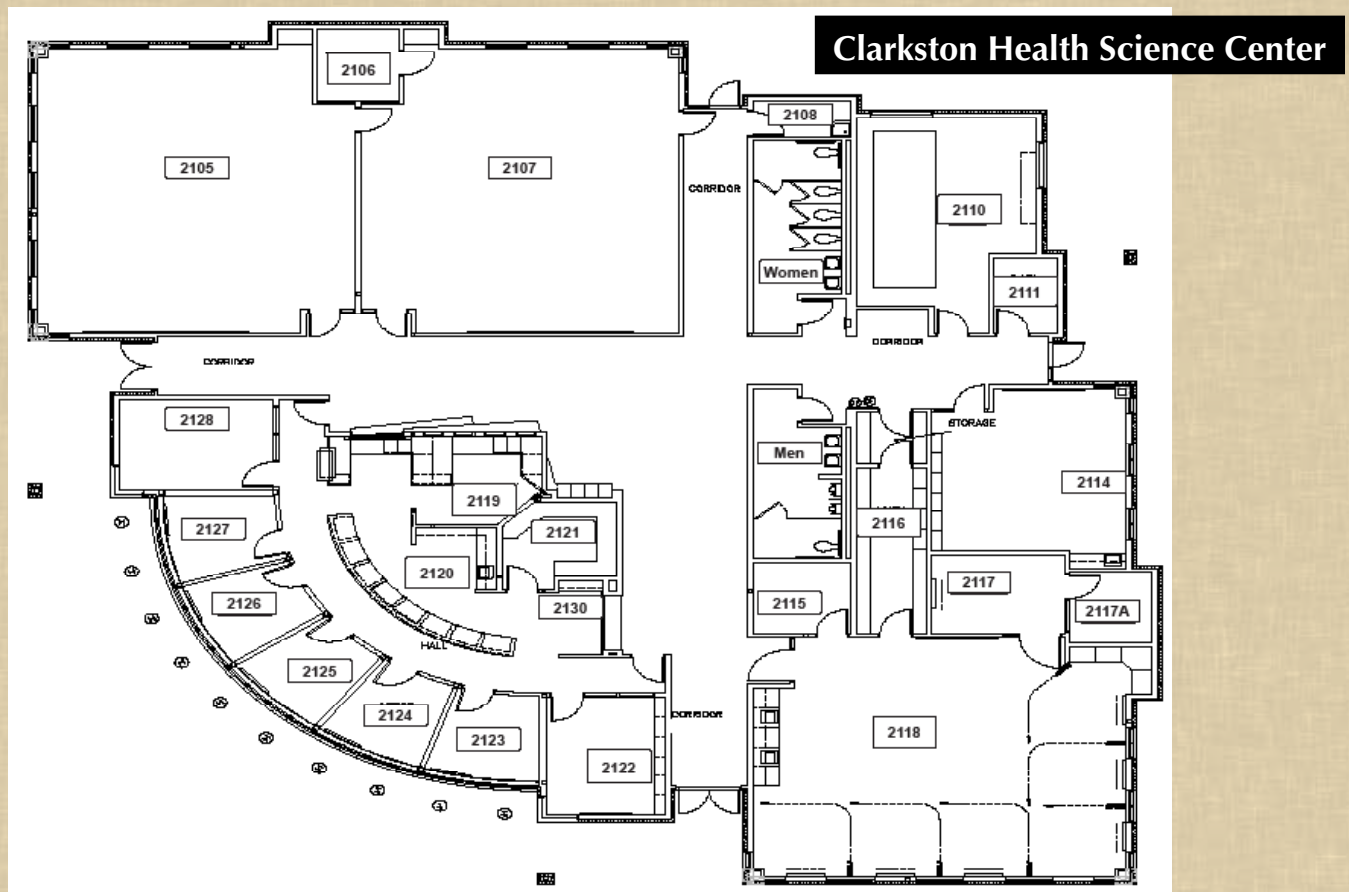
- 2933 E. Isaacs** – Gilbert Building (GIL)
- 3020 E. Isaacs** – Center for Enology & Viticulture (EEE)
- 3060 E. Isaacs** – Automotive Repair Technology (QQQ)
- Interchange Rd. Building** (1/4 mile east)
- 37** – Craik Building (CRK)





## Clarkston Campus Map

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## ***Clarkston Map Legend***

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### **Administration**

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170 Janet Danley, Director of Clarkston Campus  
175 Business /Admissions Office

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### **Student Services**

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113 Carol Bennett, Coordinator  
114 ASB Office  
115 Heather Markwalter, TRIO Counselor  
116 Chad Miltenberger, Vocational Counselor

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### **Upper Level**

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LCV/Literacy Council-- Jane Warthen  
222 Library-- Jackson Vance  
201 ITV Room  
Math/Science Learning Lab

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### **Campus Offices**

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111 Mary Whittenberg, Worksource  
119 Lisa Greenville, Computer Technology  
124 Linda Lane, Business Technology  
126a Jane Carroll, Office Technology  
126b Part Time Instructors  
126c Devon Gustafson, Psychology  
126e Debbie Scharnhorst, IT  
130 Jim Bower, Humanities  
146 Kelly Thelen, Medical Assisting  
147 Ginny McConnell, English  
150 Barbara Blasey, Mathematics  
152 Cyndi Gill, Science  
163A Lori Loseth, Nursing  
2118 Stephanie Carpenter, Nursing  
2124 Carol McFayden, Nursing  
2125 Todd Carpenter, Nursing  
2126 Jenny Charlo, Nursing  
2127 Sue Rammelsberg, Nursing  
2128 Kim Heroff, Nursing





Walla Walla Community College  
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