



2008-2010 COURSE CATALOG

Walla Walla Community College
... Your Best Choice



If you've seen our catalog before, you've probably already noticed this catalog is smaller; more concise; more compact. Why? Sustainability—just one of Walla Walla Community College's efforts to meet the needs of today's important ecological needs without compromising the ability to meet those needs in the future. Additional information for students can be found in your student handbook and college promotional materials.

You'll be faced with many choices as you walk down your educational path, and WWCC is here to help. This catalog contains technical information to help you prepare for the challenges of the future and to expand your opportunities. Our dedicated staff will help you reach your potential through academic advising and career planning. We'll provide encouragement and assistance along the way, but ultimately, it's up to you. Whether you're in a career training program or university transfer, you've made your best choice in choosing WWCC for your higher education. But, it doesn't have to stop here. Our AA transfer degree allows you to continue on to a four-year college with junior status. And you can even get a four-year degree in several of our programs on campus through our WSU partnerships.

Check us out because we're glad you're here. And if you have questions or need additional information, feel free to call the Student Development Center at 509.527.4262 or our Admissions Office at 509.527.4283. Our toll-free number is 977.992.9922 or you can visit our website at www.wwcc.edu.

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
Associational 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
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
First Response Hotline - Clarkston	758-1485
First Response Hotline - Walla Walla	524-5222
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	527-4323
Impact! (Displaced Homemakers)	524-5166 • Toll Free: 888-922-1716
Instruction Administration	527-4289
Library Services	527-4294
Payroll Office	527-4205
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/Worker Retraining	527-1865
Workforce Education	527-4684
Worksource (Employment Security)	527-4279
WSU Learning Center	529-5959

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ADMISSIONS & Registration

Getting Started



NEW STUDENT CHECK LIST/ENROLLMENT STEP 1

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.

Step 1... Admissions	You may apply online or submit an application to the Office of Admissions & Records. Once your application has been processed, you will receive an acceptance letter that includes your Student ID number.
Step 2... Financial Assistance	For priority funding: Complete your FAFSA by March 1 of each year Provide supporting documents & WWCC data sheet by May 1 Scholarships, Grants, Loans & Work-study programs are available
Step 3... Placement Testing/Assessment	Complete placement testing for accurate assessment of your current skill levels. Placement testing schedules are available online or in the Student Development Center.
Step 4... New Student Orientation	For Fall Priority Registration, students must complete a New Student Orientation. Dates & sign up for Orientation may be found online or at the Student Development Center. For subsequent quarters, New Student Information Sessions are also offered.
Step 5... Educational Advising & Career Exploration	Students are assigned an advisor based on their program of study and are required to meet quarterly for educational planning and to obtain their quarterly registration access number. Career exploration services are available through the Student Development Center.
Step 6... Registration & Payment	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 "Underage 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. Permanent residence in the State of Washington is evidenced by physical presence in the state as well as having a sufficient number of permanent Washington documents. Documentation should be dated 1 year and 1 day prior to the commencement of the quarter for which the student is applying for residency status.

These documents can include:

- Voter's registration
- Washington State Driver's License
- Bank Accounts
- Federal Tax Return (required)
- Car Registration or Car Insurance Card

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 509.527.4283.

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 509.527.4283.

Non-Resident, U.S. Citizens

U.S. citizens from Idaho may enroll for a maximum of ten credits and pay resident tuition and fees. Registering for more than ten credits will require payment of the non-resident fee in addition to resident tuition. Tuition for non-resident U.S. citizens is illustrated in Column D of the quarterly class schedule. Check the current quarterly class schedule for the most recent fee schedule.

How to Enroll in classes at WWCC

STUDENT CATEGORY	ENROLLMENT PROCEDURES
New students working on a degree or certificate	<ul style="list-style-type: none"> • 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
Students working on a degree or certificate, transferring credits from another college	<ul style="list-style-type: none"> • Submit application for Admission - FREE! • Take Compass placement test (if necessary) • Submit official transcripts from other colleges • Attend New Student Orientation for Priority Registration
Students returning after an interruption in their enrollment at this college.	<ul style="list-style-type: none"> • 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)
Students in the Running Start Program	<ul style="list-style-type: none"> • 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
Students in the Tech Prep Program	<ul style="list-style-type: none"> • Submit application for Admission - FREE! • Work with High school personnel to determine which classes are eligible
Students in the Alternative Education Program (AEP)	<ul style="list-style-type: none"> • Schedule appointment for interview with Alternative Education Program Director • Obtain release from appropriate high school (current enrollment) • Submit application for Admission - FREE! • Take Compass placement test • Submit AEP application (obtained during interview) & high school transcript(s) • Attend AEP Orientation
Students under age 18 not enrolled in Running Start, AEP or other specific age appropriate coursework who do not have a high school diploma or equivalent.	<ul style="list-style-type: none"> • Download the Underage forms online at: http://www.wwcc.edu/CMS/index.php?id=507 • 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
Students attending English as a Second Language (ESL), Adult Basic Education (ABE) or GED preparation courses	<ul style="list-style-type: none"> • Contact the Transitional Studies Department at 509.527.4304 for registration information
Students planning to take Extended Learning, Quest, Community Education	<ul style="list-style-type: none"> • Submit application for Admission - FREE! • Extended Learning students, contact: 509.527.4443 • Community Education & Quest students, contact: 509.527.4561
ALL STUDENTS: <ul style="list-style-type: none"> • Register for classes • Obtain Student ID when required • Pay Tuition & Fees • Purchase Textbooks & Supplies when appropriate 	

SPECIAL ADMISSIONS POLICIES AND PROCEDURES	
Students in High School Completion (AHSC) who are 19 yrs of age and older	<ul style="list-style-type: none"> • 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
International Students with F1 or F2 Visa	<ul style="list-style-type: none"> • Submit application for Admission (must be completed 30 days prior to the beginning of the quarter for reporting to INS) • 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 500 score/ 173 on computer based version) • 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 Data Sheet. Applications are available on the web at www.fafsa.ed.gov or at www.wwcc.edu, and paper applications may be obtained at the Financial Aid Office or a high school counselors' office. The on-line 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 according to the following schedule:

A complete listing of the notification schedule for files completed can be viewed at the WWCC Financial Aid Office website: http://www.wwcc.edu/CMS/fileadmin/PDF/financial_aid/Awarding_Timelines_08-09.pdf

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.

LOAN PROGRAMS

Federal Stafford Loan	A federal loan program with deferred repayment and variable interest rates. Funds are available through participating banks or other lending institutions.
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.
WWCC Short Term Loan	Limited funds available to students in need up to \$300 per quarter. Short term loans must be paid back by the end of the quarter.

SCHOLARSHIPS

WWCC Foundation Scholarships	A variety of scholarships funded by the WWCC foundation. Foundation scholarship application is available online at www.wwcc.edu . 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.

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
³ / ₄ time (9-11 credits)	9 credits per quarter	5-8 credits per quarter	5 credits per quarter
¹ / ₂ time (6-8 credits)	6 credits per quarter	3-5 credits per quarter	3 credits per quarter
Less than ¹ / ₂ time (1-5 credits)	all credits enrolled for		total credits enrolled

Only grades of A, B, C, D, P, and S will count as completed credits. Grades of F, Z, Y, I, N, and W 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 http://www.wwcc.edu/CMS/fileadmin/PDF/Testing/Spring_2008_Placement_Test.pdf 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.

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 509.527.4267 - 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. Students are able to make schedule changes online through

ENROLLMENT STEP 6 CONTINUED

the first week of the quarter. The last day to add classes (excluding summer quarter) with permission of the instructor is the 10th 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 get 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. An automatic payment plan is also available. Tuition and fees are due ten days prior to the beginning of the quarter.



ACADEMIC
Information

Walla Walla
Community College

... Your Best Choice



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.

Credit Hours

Each course offers a specified number of credits, usually determined by the number of hours the class meets each week. The number of credits for each course is listed in the course description in the college catalog and the quarterly class schedule. Full-time status, as well as amounts of tuition and fees, may vary for students depending on program enrollment. For more information on specific programs, contact the program advisor.

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 admissions form 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. For nursing program admittance, it is highly recommended that the official transcripts be postmarked prior to April 1 to meet the April 15 nursing deadline.

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

Approved Advanced Placement scores of 3 or higher will be recognized for credit. Official test results should be sent to 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. The student must secure a "Petition for Credit by Examination" form in the Office of Admissions and Records. 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

Criminal Justice AAAS Degree: students who have completed the Department of Corrections Washington Training Commission classes may petition WWCC, sign up and pay \$15 per credit to transcript up to 15 elective credits.

Fire Command Administration Program: FCA100, Introduction to Fire Fighting, 1 credit course will be waived for individuals who have three years volunteer experience or one year paid experience or one year resident fire fighting experience. Fire apprenticeship courses will translate directly as Fire Command Administration program credit.

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.

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 2008-2009 academic year, full-time tuition and mandatory fees are estimated to cost 2,970 for one year (15 credits per three quarters) for Washington State residents and \$4,086 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. The 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.

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 holiday 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. Check the quarterly schedule for details.		

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 at the Office of Admissions and Records.

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.

ACADEMIC INFORMATION

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.
- 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 registrar's office to obtain the appropriate form.

- 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 still appear on the student's transcript but will not be used in calculating the gpa.

- 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 during the first 10 days of the quarter, provided the addition is approved by the instructor, the student's advisor, and a wait list doesn't exist for the course. Lab classes that allow continuous enrollment can be added at most times with instructor permission.

A student may drop a course based on the dates in the quarterly schedule. To drop a course, the student must complete the proper forms at the Office of Admissions and Records. It is the student's responsibility to initiate a drop. 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 get their quarter grades and grades for the previous three quarters by getting an unofficial copy of their transcript on the website: <http://www.wwcc.edu/sos/> or by leaving a self-addressed and stamped envelope at the Office of Admissions and Records.

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 repeat any course for which a grade of "C-" or lower was received. When such a course is repeated, the second grade is substituted for the first grade in computing the gpa. Both grades remain as part of the student's permanent record.

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

The course must be repeated at Walla Walla Community College or the repeat will not be shown on the WWCC transcript, and the gpa will not be recalculated.

The Office of Admissions and Records implements the grade forgiveness process automatically, usually by the third week of the following quarter.

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 mailing, a \$15.00 fee is charged. See web admissions directions for downloading the request form and the fax number. 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

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.
4. Students placed on academic probation or suspension may appeal to the Academic Standards Review Board for reconsideration if they feel that unusual circumstances beyond their control contributed to their low academic achievement.
5. After academic suspension of one quarter (fall, winter, spring), a student must contact the Vice President of Instruction for a hearing before the Academic Standards Review Board for re-instatement to the College. If re-admission is allowed, the student will remain on academic probation until achieving a quarterly 2.0 gpa

Plagiarism/Cheating

Walla Walla Community College does not tolerate plagiarism, cheating, or any other form of academic dishonesty. Any student who cheats or plagiarizes the work of others is subject to disciplinary action as defined by the Student Code of Conduct.

1. Plagiarism occurs when one uses someone else's work and passes it off as one's own; in other words, it is defined as the unacknowledged use of somebody else's words or ideas.
2. Plagiarism occurs when, without acknowledgement, one buys, borrows, or otherwise uses another person's written material or other information for the purpose of fulfilling or partially fulfilling any assignment or task required as part of the students' program of instruction at the college. Any student who plagiarizes shall be subject to disciplinary action.
3. Any student who aids or abets the accomplishment of such activity as defined in subsection 1 above shall also be subject to disciplinary action.
4. An instructor may take reasonable action against any student who is deemed to have been guilty of plagiarism or cheating. The course of action might include but not be limited to:
 - (a) student receives warning and lowered grade;
 - (b) student receives failing grade for the course;
 - (c) student is dropped from course;
 - (d) student is recommended for suspension or dismissal from the College;
 - (e) case is referred to civil action.

Refer to the Student Code of Conduct for the complete policy and procedures, available to all students through the Vice President of Student Services and Student Activities office.

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. Certificates need to be awarded at least one quarter prior to earning the same degree.

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. Students must seal their records each quarter.



STUDENT PROGRAMS

Services and Resources

Walla Walla Community College

... Your Best Choice



STUDENT PROGRAMS, SERVICES AND RESOURCES

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 are 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.

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 10 days of each quarter. Other services include: Text books, supplies, software, snack items, change, Clothing, gifts, greeting cards, Espresso Bar, Campus Ticket Office - Walla Walla, Post Office, fax machine service - Walla Walla.

Child Care

509.527.4544 - Walla Walla • 509.758.1779 - Clarkston

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

Clubs & Organizations

509.527.4261 - Walla Walla • 509.758.1718 - Clarkston

Any group of students can form a club to promote their common interests. 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 Support Services. After establishing the functional impact of the disability, the Coordinator will issue reasonable accommodations; e.g., modification to testing, sign language interpreters, adjustable tables, note-taker.

Displaced Homemaker Program

509.524.5166 - Walla Walla • 1.888.922.1716 (Toll Free)

IMPACT! allows participants to develop job-search skills, offers instructional services geared toward realistic and appropriate job opportunities, and provides comprehensive curricula focusing on aptitude and skill assessment. Day and evening classes are available in Walla Walla, Clarkston, and surrounding counties.

Employment

Work Source

509.527.4279 - Walla Walla • 509.758.1716 - Clarkston

<http://www.wa.gov/esd/ws/walla2>

A Job specialist is available on the Walla Walla Campus to assist students and the public with job placement and referral for campus & community job 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.

Food Service

509.527.4272 - Walla Walla • 509.758.3339 - Clarkston

Culinary 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

509.527.4208 - Walla Walla • 509.758.1718 - Clarkston

Reduced rates are available for student accident and medical insurance policies. Claim forms are available from the Student Activities Director.

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.

Honors Program

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. Transcripts of Honors

graduates announce 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.

Honors students may also participate in the Honors Club, Phi Theta Kappa, which makes field trips around the region and sponsors other social events. Interested students may contact the Honors Program Committee through the WWCC Academic Education Office at 509.527.4212.

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 and Clarkston campus libraries offer a comprehensive selection of resources and services with library staff serving 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. It's not only where you find the online catalog for locating books and journals, it's a portal into accessing your library account, using a dictionary, perusing an electronic book, reading an online article, using interlibrary loan borrowing and emailing a reference librarian. Explore us further at www.wvcc.edu/library.

Obtain and use your WALNet - Walla Walla • and VALNet (Clarkston/Lewiston) 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 at home or on a trip.

Libraries maintain computer workstations and print capabilities for research purposes, space for individual and collaborative study and rooms and carrels for viewing/listening activities. Borrowing privileges are extended to students and staff from library collections throughout the country and regionally with timely courier service and electronic document delivery. Please call or check the WWCC website for the days and hours of operation.

Multicultural Services

509.529.4440 - Walla Walla

WWCC is committed to helping ALL students succeed, and the Multicultural Services Program insures support through programs that enhance student academic and cultural skills. The Multicultural Center provides student advising, mentoring, and leadership training. With the Center's support, students develop diversity awareness and learn to appreciate and accept all cultures on campus. The goal of Multicultural Services is to help students and staff work successfully with the challenges of a diverse campus life.

Opportunity Grant

509.527.4263 - 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.

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, various college success classes, and . Students are also able to purchase handbooks in the Bookstore throughout the academic year. 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 test prior to registering for classes. Assessment is a tool that identifies the student's 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. Sometimes referred to as an assessment test, it is not a test that can be passed or failed. The "score" on assessment simply indicates the appropriate starting point for each student enrolling in core subjects.

In addition, staff provide testing 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. An appointment must be made for testing arrangements. 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) center for administering GED tests 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 PROGRAMS, SERVICES AND RESOURCES

Student Development Center at 509.527.4267 - Walla Walla. Individuals must pay the GED testing fee prior to taking the exam. There is also a fee for retakes. GED service is also available at the Clarkston Center at 509.758.1707.

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 for 250 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.

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

Individual Tutoring: WWCC provides individual tutoring services in many subject areas to students who have demonstrated a need for assistance, and currently have a C grade or lower in the course for which they request tutoring. Students must have an instructor recommendation to be eligible for tutoring. 509.529.5511 - Walla Walla • 509.75.1772 - Clarkston

Center for Academic Success (CAS): Students who need assistance with Math or Science may drop in to meet with a member of the

Math, Writing & Science Lab Staff. 509.527.5511 - Walla Walla • 509.758.3339 - Clarkston (Math & Science Center)

Bilingual Language Assistance Program: This program offers individualized instructional support and tutoring in a variety of subjects for second language learners. 509.527.3684 - Walla Walla.

Veteran's Information

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.jones@wwcc.edu. Please see the Veteran's Clerk 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.

Women's Center

509.527.4554 - Walla Walla

The Women's Center, located between the Main Building and the Dome, is open M - Th, 8 a.m. – 4 p.m., and 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.

WorkFirst

WorkFirst provides training for parents with dependent children who meet income requirements. Priority is given to TANF (Temporary Assistance to Needy Families) recipients. 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

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. Call 509.524.4790 in Walla Walla or 509.758.1711 in Clarkston.

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 Learning Center

509.529.5959 - Walla Walla

Washington State University's Learning Center is located in Room 73 on the Walla Walla Campus. WSU offers Bachelors and Masters degrees in Nursing and a Bachelors degree in Elementary Education. Class modalities vary including onsite courses and ITV. Information is also available for students wishing to transfer to any of WSU's campuses or complete one of WSU's online Bachelors degrees.



EXTENDED
Learning
Walla Walla
Community College

... Your Best Choice



EXTENDED LEARNING

Extended Learning provides a wide variety of programs to fit the needs of individuals and agencies within the community. Professional-Technical and academic courses provide an opportunity to develop or improve job skills, while community service courses add to the traditional college offerings. Community education coordinates programs and distance learning to provide interactive teleconferences, seminars, business, and in-service training.

Agriculture Center of Excellence

The WWCC Agriculture Center of Excellence is designed to respond to workforce training needs and related interests of educational institutions, agriculture businesses and industries in Southwest Washington and beyond. This includes the expansion/strengthening of existing programs and creation of new program options to meet the education and training needs of an industry that now includes rural, urban and related agriculture dimensions. A Center of Excellence is an organization that functions as a resource to other educational institutions and industry, serving as the nucleus for development of curriculum, skill standards and promoting technological advancements. Centers of Excellence identify Best Practices and provide workforce training services to industry and educational institutions upon request.

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.

Distance Learning

The Distance Learning Program is designed to help clients who are in need of post-secondary educational service but who cannot attend fixed time and fixed location classes.

Distance learning students may take selected courses or earn certificates and professional-technical degrees via distance learning. Some on-campus students will use Distance Learning to take courses that they otherwise could not take due to schedule conflicts, and others will use Distance Learning to shorten the time they must be away from home and current employment.

Call 509.527.4331 in Walla Walla for more information.

Evening College

The College offers a comprehensive program during the late afternoons and evenings similar to offerings during the daily schedule. Most classes start at the beginning of each quarter, and meet regularly (either one or two sessions per week). Academic, Professional-Technical, Extended Learning, and Transitional Studies classes are offered during Evening College hours.

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 Professional 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.

Walla Walla Area Small Business Center

The Walla Walla Area Small Business Center provides business skills development advising, training, and related technical assistance to small business owners, operators, and entrepreneurs in order to improve their potential for business success as evidenced by innovation, growth, expansion, and an ability to compete successfully in a global economic environment. Technical assistance is provided to address critical issues impacting the effectiveness and efficiency of business operations, processes and procedures.

The Small Business Center is affiliated with the WSU Partnership for Rural Improvement. The goals of the consortium are to help communities, educational institutions, and public agencies provide community and rural services.

William A. Grant Water & Environmental Center (WEC)

Faced with the challenges of restoring the watershed, recovering fish runs, and better managing limited water resources, organizations in the Walla Walla Valley have come together in a spirit of collaboration and cooperation to create the Walla Walla Community College William A. Grant Water & Environmental Center.

The William A. Grant Water & Environmental Center (WEC) opened on October 12, 2007. The WEC stands as an example of the region's commitment of conserving, managing, and enhancing the Walla Walla Watershed. The building itself is evidence of a milestone in progress towards addressing water management and environmental restoration issues. The WEC cooperates with all interested parties to create an academic and community-based learning environment.

PRE-COLLEGE

Transitional Studies

The College is committed to helping all students acquire the skills needed to reach their educational and occupational goals. The Transitional Studies Department offers a variety of courses and services to help students upgrade skills in reading, writing, communicating, and mathematics. High school classes that meet Washington State graduation requirements are also offered. Instruction in the English language for non-English speakers is available daily. Please refer to the Department section of the catalog for more information on ABE, GED and ESL.

Health Care Bridge Program

The Health Care Bridge Program strives to recruit and retain bilingual and limited English students 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 in the Health Sciences. For more information call 509.527.4462 in Walla Walla.

HIGH SCHOOL PROGRAMS

Alternative Education Program

509.527.4262 - Walla Walla

The Alternative Education Program provides students an educational opportunity outside the traditional high school system. Selected students between 16 and 20 years of age, who have not earned a high school diploma, but have a sufficient amount of time to complete high school requirements, may be eligible to participate. The program, which is a joint venture with the local school districts, covers the cost of tuition and books for program participants.

High School Completion Program

509.527.4262 - Walla Walla • 509.758.1718 - Clarkston

The 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 complete a placement test prior to meeting with their advisor. Washington residents enrolled in high school completion classes who are under 19 years of age pay full tuition and must have a release from their high school to participate in the program. Residents who are 19 or older pay \$11 per credit. Non-residents need to inquire about the fee schedule at the Student Development Center.

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. 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.

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, present an acceptable portfolio as defined by the program, and pay the associated fees for application, registration, and transcription.

Information subject to change.

COMMUNICATIONS [C]:**At least 13 credits, including one course from each of the three subject areas.****ENGLISH I**

ENG 101 English Composition I 5

ENGLISH II

ENG 102 English Composition II 5

SPEECH

SPCH 101 Fundamentals of Speech 5

SPCH 102 Oral Communications & Interpersonal Relationships 3

SPCH 105 Oral Interpretation 3

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

HISTORY

HIST 101 * Western Civilization I 5

HIST 102 * Western Civilization II 5

HIST 103 * Western Civilization III 5

HIST 105 * World History (Ancient/Medieval) 5

HIST 107 * World History (Early Modern) 5

HIST 109 * World History (Modern) 5

HUMANITIES

HUM 101 Intro to Humanities I 5

HUM 102 Intro to Humanities II 5

HUM 103 Intro to Humanities III 5

HUM 106 Film Technique & Artistry 5

HUM 107 American Culture in Film 5

HUM 109 World Arts & Culture 5

HUM 110 Four Perspectives on the

History of Ideas 5

HUM 201 Latino Arts & Culture I 3

HUM 202 Latino Arts & Culture II 3

LITERATURE

LIT 111 Arthurian Literature 3

LIT 120 Baseball Lit. & American Culture 3

LIT 140 Intro to Literature 5

LIT 141 Intro to Fiction 5

LIT 142 Intro to Poetry 5

LIT 144 Intro to Film 5

LIT 147 Comic Books & Graphic Novels 5

LIT 149 Classic Children's Literature 5

LIT 210 Myth & Folklore 5

LIT 212 African-American Literature 3

LIT 245 American Literature 5

LIT 250 Literature of American Immigration 5

LIT 251 * Voices of Women in Literature 5

LIT 256 Literature of the American West 5

LIT 257 Literature of the Inland Northwest 5

LIT 260 Modern Hispanic & Latino Lit. 5

LIT 261 Native American Literature 3

LIT 265 World Literature 5

LIT 270 Mystery & Spy Novels 3

LIT 271 Science Fiction & Fantasy Literature 5

LIT 272 Medicine & Literature 3

LIT 277 The Bible as Literature 3

MODERN LANGUAGES

(max. 5 credits @ 100 level)

FREN 101, 102, 103 French I, II, III 5 ea.

FREN 201, 202, 203 French IV, V, VI 5 ea.

SPAN 101, 102, 103 Spanish I, II, III 5 ea.

SPAN 201, 202, 203 Spanish IV, V, VI 5 ea.

MUSIC

MUS 101 Music Appreciation 5

MUS 110 History of American Music 5

PERFORMANCE/FINE ARTS [HP]

(max. 5 credits)

ART 101, 102, 103, 104, 105, 106, 107, 130, 131, 132, 140, 151, 152, 153, 160, 161, 162, 167, 168, 169, 260, 261, 262

THEA 151, 152, 153, 251, 252, 253, 271, 272, 273, 290, 291, 292, 295, 296, 297

MUS 106, 107, 108, 116, 117, 118, 126, 127, 128, 161, 162, 163, 164, 206, 207, 208, 216, 217, 218, 226, 227, 228, 261, 262, 263

PHILOSOPHY

PHIL 101 Intro to Philosophy 5

PHIL 103 Asian Philosophy 5

PHIL 120 Critical Thinking 5

PHIL 131 Intro to Ethics 5

PHIL 205 Philosophy of Religion 5

PHIL 220 Symbolic Logic 5

THEATRE

THEA 101 Theatre Appreciation 5

THEA 225 Representative Plays 5

THEA 226 Asian Plays 5

WOMEN'S STUDIES

WST 124 * Women in Art History 5

WST 251 * Voices of Women in Literature 5

SOCIAL SCIENCE [S]:**A minimum of 15 credits from three different subject areas, including one course from anthropology or psychology or sociology. No more than 10 credits allowed from any one subject area.****AGRICULTURE**

AGRI 202 * Microeconomics in Agriculture 5

AGRI 222 * Ag Policy 5

ANTHROPOLOGY

ANTH 101 Intro to Anthropology 5

ANTH 202 Cultural Anthropology 5

BUSINESS

BA 101 Intro to Business 5

CRIMINAL JUSTICE

CJ 101 Intro to Criminal Justice 5

CJ 106 Criminology 5

CJ 202 Crime & Delinquency 5

CJ 206 Psychology for Criminal Justice 5

ECONOMICS

ECON 200 Survey of Economics 5

ECON 201 Fund of Macroeconomics 5

ECON 202 * Fund of Microeconomics 5

EDUCATION

ED 110 Intro to Education 5

GEOGRAPHY

GEOG 201 Intro to World Regional Geography 5

HISTORY

HIST 101 * Western Civilization I 5

HIST 102 * Western Civilization II 5

HIST 103 * Western Civilization III 5

HIST 105 * World History (Ancient/Medieval) 5

HIST 107 * World History (Early Modern) 5

HIST 109 * World History (Modern) 5

HIST 120 * American Presidency 5

HIST 201 American History I 5

HIST 202 American History II 5

HIST 203 American History III 5

HIST 205 American Environmental History 5

HIST 210 Northwest History 5

HIST 211 * U.S. in World Affairs I 5

HIST 212 * U.S. in World Affairs II 5

HIST 240 Western Minority History 5

HIST 250 Intro to Latin America 5

HIST 255 Traditional East Asian Civilization 5

HIST 256 Modern East Asian Civilization 5

HIST 262 The Modern Middle East 5

HIST 280 * Women in US History 5

POLITICAL SCIENCE

PSCI 101 American National Government 5

PSCI 120 * American Presidency 5

PSCI 211 * U.S. in World Affairs I 5

PSCI 212 * U.S. in World Affairs II 5

PSCI 222 * Ag Policy 5

PSYCHOLOGY

PSY 101 Intro to Psychology 5

PSY 103 Developmental Psychology 5

PSY 111 Interpersonal Relationships 3

PSY 113 * Human Sexuality 5

PSY 139 * Psychology of Women 5

PSY 205 Social Psychology 5

PSY 219 Health Psychology 5

PSY 224 Environmental Psychology 5

PSY 250 Abnormal Psychology 5

SOCIOLOGY

SOC 101 Intro to Sociology 5

SOC 201 Intro Social Problems 5

SOC 204 Drugs and Society 5

SOC 205 Racial/Ethnic Relations 5

SOC 208 Sociology of Intimate & Family

Relationships 5

SOC 209 Intro to Neighborhood Dev. 3

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 220 * Gender & Society 5

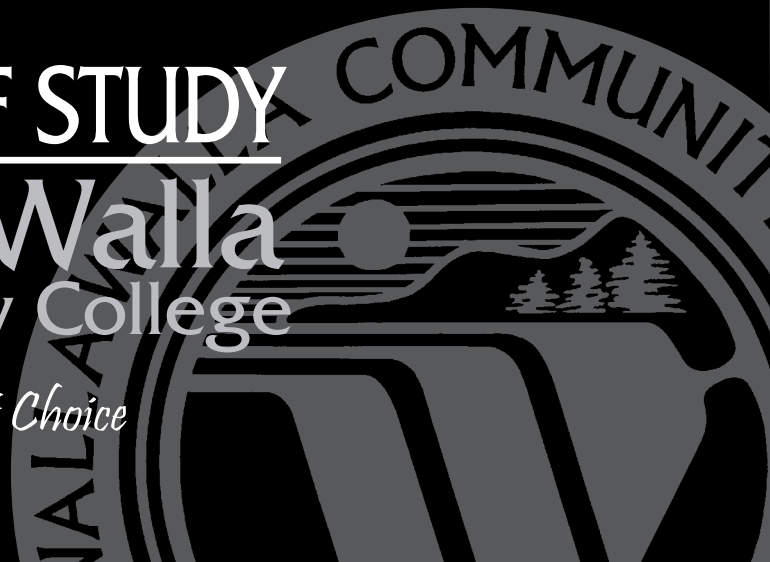
WST 280 * Women in U.S. History 5

ENGLISH _____ ABE _____ 77 _____ 87 _____ 97	<h2 style="margin: 0;">NATURAL SCIENCE [NS]:</h2>	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.												
ASSET/ COMPASS Placement:	AGRICULTURE AGPR 101 * Intro to Environmental Sciences 5 AGPR 201 Basic Soil Science 5 ANATOMY & PHYSIOLOGY BIO 210 Human Anatomy/Physiology I 5 BIO 211 Human Anatomy/Physiology II 5 BIO 212 Human Anatomy/Physiology III 5 ASTRONOMY ASTR 110 The Solar System 5 ASTR 115 Stellar Astronomy 5 ASTR 120 Galaxies, the Universe & Cosmology 5 BIOLOGY BIO 110 Survey of Biology 5 BIO 120 Human Biology 5 BIO 121 * Biology of Women 3 (non lab) BIO 151 Cell Biology 5 BIO 230 Microbiology 5 BIO 240 Principles of Conservation 5 (non lab) BOTANY BIO 152 General Botany 5 BIO 221 Systematic Botany 5 CHEMISTRY CHEM 101 Chemistry 5 CHEM 107 General Chem (Health Sciences) 5 CHEM 108 Organic Chem (Health Sciences) 5 CHEM 109 Biochemistry (Health Sciences) 5	ECOLOGY BIO 130 General Ecology 5 ENVIRONMENTAL SCIENCE ESCI 101 * Intro to Environmental Science 5 GEOGRAPHY GEOG 105 Physical Geography 5 GEOG 170 Intro to Maps & Cartography 5 GEOG 210 Intro to Weather 5 GEOG 211 Intro to Climate, Climate Change 5 GEOLOGY GEOL 101 Physical Geology 5 GEOL 115 Survey of Earth Science 5 GEOL 120 Environmental Earth Science 5 GEOL 130 History of Life on Earth 5 (non lab) GEOL 201 Historical Geology 5 GEOL 210 Pacific Northwest Geology 5 MATHEMATICS (max. 5 credits/non lab) MATH 107 Mathematics: A Practical Exp. 5 MATH 109 Precalculus I 5 MATH 110 Precalculus II 5 MATH 115 Finite Math 5 MATH 121 Survey of Calculus 5 MATH 124 Calculus w/Anal. Geometry I 5	MATH 125 Calculus w/Anal. Geometry II 5 MATH 126 Calculus w/Anal. Geometry III 5 MATH 201 Intro to Statistics 5 MATH 205 Math for Elementary Teachers I 5 MATH 206 Math for Elementary Teachers II 5 MATH 220 Linear Algebra 5 MATH 224 Calculus w/Anal. Geometry IV 5 MATH 238 Differential Equations 5 NUTRITION NUTR 165 General Nutrition 5 (non lab) OCEANOGRAPHY OCE 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 BIO 153 General Zoology 5 BIO 202 Vertebrate Zoology 5											
READING _____ ABE _____ 78 _____ 88 _____ 98	ASSET/ COMPASS Placement:	STUDY SKILLS _____ ENG 95 _____ PSY 100 College Experience _____ CE 100												
ASSET/ COMPASS Placement:	<h2 style="margin: 0;">QUANTITATIVE SKILLS [Q]:</h2>	5 credits from one of the following subject areas.												
MATH _____ ABE _____ 49 _____ 50 _____ 65 _____ 95	ASSET/ COMPASS Placement:	MATH MATH 107 Mathematics: A Practical Exp. 5 MATH 109 Precalculus I 5 MATH 110 Precalculus II 5 MATH 115 Finite Math 5 MATH 121 Survey of Calculus 5 MATH 124 Calculus w/Anal. Geometry I 5 MATH 125 Calculus w/Anal. Geometry II 5 SYMBOLIC REASONING PHIL 220 Symbolic Logic 5 QUANTITATIVE REASONING CS 131 Intro To Computer Science 5												
ASSET/ COMPASS Placement:	<h2 style="margin: 0;">PHYSICAL ED [PE]:</h2>	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 _____ _____ _____ _____												
ASSET/ COMPASS Placement:	<h2 style="margin: 0;">ELECTIVES:</h2>	<h3 style="margin: 0; text-align: right;">27 credits</h3> <p style="margin: 5px 0;">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.</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%; text-align: left; border-bottom: 1px solid black;">12 CREDITS (FULLY TRANSFERABLE)</th> <th style="width: 50%; text-align: left; border-bottom: 1px solid black;">15 CREDITS (COLLEGE-LEVEL)</th> </tr> </thead> <tbody> <tr><td>_____</td><td>_____</td></tr> <tr><td>_____</td><td>_____</td></tr> <tr><td>_____</td><td>_____</td></tr> <tr><td>_____</td><td>_____</td></tr> <tr><td>_____</td><td>_____</td></tr> </tbody> </table>	12 CREDITS (FULLY TRANSFERABLE)	15 CREDITS (COLLEGE-LEVEL)	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
12 CREDITS (FULLY TRANSFERABLE)	15 CREDITS (COLLEGE-LEVEL)													
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<h2 style="margin: 0;">*EQUIVALENT CROSS-LISTED COURSES:</h2>														
Students may receive credit for only one of the cross-listed courses in each of the following pairs:														
AGRI 222 or PSCI 222 AGPR 101 or ESCI 101 ECON 202 or AGRI 202 HIST 101 or 105	HIST 102 or 107 HIST 103 or 109 HIST 120 or PSCI 120 HIST 211 or PSCI 211	HIST 212 or PSCI 212 WST 113 or PSY 113 WST 121 or BIO 121 WST 124 or ART 124												
		WST 139 or PSY 139 WST 220 or SOC 220 WST 251 or LIT 251 WST 280 or HIST 280												



AREAS OF STUDY
Walla Walla
Community College

... Your Best Choice



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://wwcc.edu/accounting>

Dan Biagi	509.527.4235	daniel.biagi@wwcc.edu
Frank 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

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 delivery. The Accounting Technology curriculum is reviewed by an advisory board composed of local and regional industry members.

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

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.

Degree

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.

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

Year One

Quarter One	Credits
ACCT 201, Principles of Accounting I	5
BA 101, Introduction to Business	5
BA 112, Business Mathematics (M)	5
SPCH 101, Fundamentals of Speech (O)	5
Total Credits.....	20

Quarter Two

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

Quarter Three

ACCT 203, Managerial Accounting	5
BA 137, Business Communications II (W)	5
BA 217, Computer Software Applications	5
OT 218, Desktop Calculator	5
Total Credits.....	20
Year One Total.....	60

Year Two

Quarter One

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

Quarter Two

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

Quarter Three

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

EPC: 505

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

- (J) - BA 292
- (W) - BA 137
- (L) - BA 192
- (M) - BA 112
- (O) - OCSUP 102, SPCH 101, SPCH 102
- (R) - BA 157

Certificate

Bookkeeping Certificate

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

Year One

Quarter One

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

Quarter Two

ACCT 201, Principles of Accounting I	5
BA 157, Human Relations in Business (R)	5
CS 110, Introduction to Computers and Applications	5

OT 126, Intermediate Word Processing	5
OT 218, Desktop Calculator	5
Total Credits.....	25

Quarter Three

Credits

ACCT 115, Integrated Computer Applications for Accounting	5
ACCT 175, Payroll Accounting	5
BA 137, Business Communications II (W)	5
BA 181, Cooperative Work Experience I	2 - 5
BA 182, Business Leadership Seminar I	3
BA 217, Computer Software Applications	5

Total Credits..... 25-28

Year One Total..... 70-73

Grand Total..... 70-73

EPC: 505A

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

(W) - BA 137

(M) - BA 112

(R) - BA 157

Adult Basic Education / GED

<http://wwcc.edu/ged>

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

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

AAAS, CERT

<http://wwcc.edu/agbusiness>

Debbie Frazier	509.527.4689	debora.frazier@wwcc.edu
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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.

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.

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

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

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.

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
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AGPR 100, Orientation to Agriculture (I)	3
AGPR 299, Leadership (L)	1
AGRI 102, Farm Records and Analysis	5
AGRI 108, Computers in Agriculture	5
AGRI 202, Microeconomics in Agriculture	5
Total Credits.....	19

Quarter Two

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

Quarter Three

AGPR 140, Agriculture Safety and Health	3
AGRI 103, Farm and Ranch Business Management	5
AGRI 211, Small Business Management *	5
WRITE 100, Applied Writing (W)	3
Total Credits.....	16
Certificate Total.....	53

Quarter Four

AGRI 191, Cooperative Work Experience	10
Total Credits.....	10
Year One Total.....	63

Year Two

Quarter One

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

Quarter Two

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
Total Credits.....	16

Quarter Three

AGRI 220, Agricultural Finance *	5
AGRI 222, Agricultural Policy	5
Crop Science Elective****	5
Total Credits.....	15
Year Two Total.....	49
Grand Total.....	112

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, APGR 112, AGPR 115, AGPR 116, AGPR 196, AGPR 197, AGPR 198, AGPR 216

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

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

(J) - AGPR 100

(W) - BA 137, ENG 097, ENG 101, WRITE 100, WRITE 110

(L) - AGPR 299

(M) - MATH 065

(O) - OCSUP 102, SPCH 101, SPCH 102

(R) - BA 157, OCSUP 101, PSY 101, PSY 111, WMGT 192, WMGT 292

Associate in Applied Arts and Sciences

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

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

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/Wine Marketing & Management Certificate

Upon completion of the year one requirements students may earn a Wine Marketing & Management Certificate (EPC: 110E).

Year One

Quarter One

AGRI 108, Computers in Agriculture	5
AGRI 202, Microeconomics in Agriculture	5
AGRI 191, Cooperative Work Experience***	1
EV 101, Establishing a Vinifera Vineyard	5
EV 141, Introduction to Wine Marketing	3
Total Credits.....	19

Quarter Two

AGRI 210, Agricultural Sales and Service	3
AGRI 221, Agricultural Marketing	5
AGRI 191, Cooperative Work Experience***	1
Enology Elective**	1
EV 107, Winemaking for Viticulture	5
EV 142, Consumer Direct Wine Sales and Marketing	3
Total Credits.....	18

Quarter Three

AGRI 211, Small Business Management *	5
AGRI 191, Cooperative Work Experience***	1
ENG 097, Basic Expository Writing (W)	5
EV 243, Wine Marketing Programs	3
MATH 065, Introductory Algebra (M)	5
Total Credits.....	19
Year One Total.....	56

Year Two

Quarter One

ACCT 201, Principles of Accounting I	5
AGRI 191, Cooperative Work Experience***	1
EV 100, Orientation to the Wine Industry	1
EV 203, Science of Winemaking I	5
PSY 101, Introduction to Psychology (R)	5
Total Credits.....	17

Quarter Two

ACCT 202, Principles of Accounting II	5
ECON 201, Fundamentals of Macroeconomics	5
AGRI 191, Cooperative Work Experience***	1
EV 108, Wine Industry Employment (J)	3
EV 299, Leadership (L)	1
SPCH 102, Oral Communications and Interpersonal Relationships (O)	3
Total Credits.....	18

Quarter Three

AGRI 220, Agricultural Finance *	5
AGRI 222, Agricultural Policy	5
AGRI 191, Cooperative Work Experience**	1
Enology Elective**	1
EV 205, Science of Winemaking III	5
Total Credits	17
Year Two Total	52
Grand Total	108

EPC: 110D

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

** Student must complete two of the following Enology elective courses for the degree: EV 180, EV 182, EV 187.

*** The following courses meet the Cooperative Work Experience requirement: AGRI 191, EV 191, EV 196, EV 197, EV 198, EV 286, EV 287, EV 288.

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

(J) - EV 108

(W) - ENG 101

(L) - EV 299

(M) - MATH 065, MATH 201

(O) - SPCH 101, SPCH 102

(R) - PSY 101

Agriculture Science and Technology

DTA, AAAS, CERT

<http://wwcc.edu/agscience>

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

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.

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

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

Degrees

Direct Transfer Agreement

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

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

Year One

Quarter One	Credits
AGPR 100, Orientation to Agriculture	3
ECON 202, Fundamentals of Microeconomics	5
Humanities Elective	5
ENG 101, English Composition I	5
Total Credits	18

Quarter Two	Credits
AGRI 221, Agricultural Marketing	5
BIO 110, Survey of Biology	5
Literature Elective	5
MATH 115, Finite Mathematics	5
Total Credits	20

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

Year Two

Quarter One	Credits
ACCT 201, Principles of Accounting I	5
AGPR 201, Basic Soil Science	5
Choose 1: AGPR 113 or AGPR 114	3
Physical Science Elective*	1
PSY 101, Introduction to Psychology	5
Total Credits	19

Quarter Two	Credits
ACCT 202, Principles of Accounting II	5
BIO 152, General Botany	5
Animal Science Elective*	5
SPCH 101, Fundamentals of Speech	5
Total Credits	20

AGRICULTURE SCIENCE TECHNOLOGY

Quarter Three

ACCT 203, Managerial Accounting	5
AGRI 211, Small Business Management	5
Physical Education Elective	1
ENG 102, English Composition II	5
Total Credits.....	16
Year Two Total.....	55
Grand Total.....	109

EPC: 001X

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

Direct Transfer Agreement

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

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

Year One

Quarter One	Credits
AGPR 100, Orientation to Agriculture	3
ECON 202, Fundamentals of Microeconomics	5
Choose 1: AGPR 113 or AGPR 114	3
Agriculture Elective*	5
Physical Education Elective	1
Total Credits.....	17

Quarter Two	Credits
Animal Science Elective	5
ENG 101, English Composition I	5
MATH 115, Finite Mathematics	5
SPCH 101, Fundamentals of Speech	5
Total Credits.....	20

Quarter Three	Credits
AGPR 105, Weed Biology and Identification	5
BIO 110, Survey of Biology	5
Physical Education Elective	1
MATH 201, Introduction to Statistics	5
Total Credits.....	16
Year One Total.....	53

Year Two

Quarter One	Credits
AGPR 201, Basic Soil Science	5
BIO 130, General Ecology	5
PSY 101, Introduction to Psychology	5
WMGT 112, Irrigation Principles	5
Total Credits.....	20

Quarter Two	Credits
BIO 152, General Botany	5
Agriculture Elective	5
Literature Elective	5
Physical Education Elective	1
Total Credits.....	16

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

EPC: 001Y

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

Direct Transfer Agreement

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

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

Year One

Quarter One	Credits
CHEM 107, General Chemistry for Health Sciences	5
ECON 202, Fundamentals of Microeconomics	5
Plant Science Elective**	3 - 5
Literature Elective	5
Total Credits.....	18-20

Quarter Two	Credits
CHEM 108, Organic Chemistry for Health Sciences	5
Physical Education Elective	1
ENG 101, English Composition I	5
MATH 115, Finite Mathematics	5
Total Credits.....	16

Quarter Three	Credits
CHEM 109, Biochemistry for Health Sciences	5
Physical Education Elective	1
MATH 201, Introduction to Statistics	5
PSY 101, Introduction to Psychology	5
Total Credits.....	16
Year One Total.....	50-52

Year Two

Quarter One	Credits
AGPR 100, Orientation to Agriculture	3
AGPR 201, Basic Soil Science	5
BIO 110, Survey of Biology	5
BIO 130, General Ecology	5
Total Credits.....	18

Quarter Two	Credits
BIO 152, General Botany	5
Humanities Elective	5
Physical Education Elective	1
ENG 102, English Composition II	5
Total Credits.....	16

Quarter Three	Credits
AGRI 222, Agricultural Policy	5
Animal Science Elective*	5
SPCH 101, Fundamentals of Speech	5
Total Credits.....	15
Year Two Total.....	49
Grand Total.....	99-101

EPC: 001Z

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

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

Direct Transfer Agreement

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

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

Year One

Quarter One	Credits
BIO 110, Survey of Biology	5
ECON 202, Fundamentals of Microeconomics	5
Physical Education Elective	1
ENG 101, English Composition I	5
Total Credits.....	16

Quarter Two	Credits
AGRI 221, Agricultural Marketing	5
BIO 152, General Botany	5
Animal Science Elective*	5
MATH 115, Finite Mathematics	5
Total Credits.....	20

Quarter Three	Credits
AGPR 215, Field Crop Production	5
BIO 130, General Ecology	5
Physical Education Elective	1
PSY 101, Introduction to Psychology	5
Total Credits.....	16
Year One Total.....	52

Year Two

Quarter One	Credits
AGPR 201, Basic Soil Science	5
CHEM 107, General Chemistry for Health Sciences	5
ENG 102, English Composition II	5
SPCH 101, Fundamentals of Speech	5
Total Credits.....	20

Quarter Two	Credits
CHEM 108, Organic Chemistry for Health Sciences	5
Humanities Elective	5
Physical Education Elective	1
MATH 201, Introduction to Statistics	5
Total Credits.....	16

Quarter Three	Credits
AGPR 105, Weed Biology and Identification	5
AGRI 222, Agricultural Policy	5
CHEM 109, Biochemistry for Health Sciences	5
Literature Elective	5
Total Credits.....	20
Year Two Total.....	56
Grand Total.....	108

EPC: 001W

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

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.

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 – 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
Total Credits.....	18

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
Total Credits.....	16

Quarter Three	Credits
AGPR 115, Preventative Veterinary Medical Care	5
AGPR 140, Agriculture Safety and Health	3
MATH 065, Introductory Algebra (M)	5
SPCH 101, Fundamentals of Speech (O)	5
Total Credits.....	18
Certificate Total.....	52

Quarter Four	Credits
AGRI 191, Cooperative Work Experience	10
Total Credits.....	10
Year One Total.....	62

Year Two

Quarter One	Credits
AGPR 111, Animal Nutrition and Health	5
AGPR 201, Basic Soil Science	5
AGRI 202, Microeconomics in Agriculture	5
Total Credits.....	15

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

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
Total Credits.....	18
Year Two Total.....	46
Grand Total.....	108

EPC: 105B

* Approved Electives for Agri-Science and Technology Degree: Any course with a prefix of AGRI, AGPR, CET, DT, EV, ESCI, 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) - BA 137, ENG 097, ENG 101, WRITE 100, WRITE 110

(L) - AGPR 299

(M) - MATH 065

(O) - OCSUP 102, SPCH 101, SPCH 102

(R) - BA 157, OCSUP 101, PSY 101, PSY 111, WMGT 192, WMGT 292

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.

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 a Agriculture Science and Technology - Plant and Soil Science Certificate (EPC: 110C).

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
Total Credits.....	17

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
Total Credits.....	20

Quarter Three Credits

AGPR 105, Weed Biology and Identification	5
AGPR 114, Plant Physiology	5
AGPR 215, Field Crop Production	5
Total Credits.....	15
Certificate Total.....	52

Quarter Four Credits

AGRI 191, Cooperative Work Experience	10
Total Credits.....	10
Year One Total.....	62

Year Two

Quarter One Credits

AGPR 201, Basic Soil Science	5
AGRI 102, Farm Records and Analysis	5
AGRI 202, Microeconomics in Agriculture	5
Total Credits.....	15

Quarter Two Credits

AGPR 202, Soils Fertility and Management	5
AGRI 221, Agricultural Marketing	5
SPCH 101, Fundamentals of Speech (O)	5
WRITE 100, Applied Writing (W)	3
Total Credits.....	18

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
Total Credits.....	16
Year Two Total.....	49
Grand Total.....	111

EPC: 105A

*Approved Electives for Agri-Science and Technology Degree: Any course with a prefix of AGRI, AGPR, CET, DT, EV, ESCI, 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) - BA 137, ENG 097, ENG 101, WRITE 100, WRITE 110

(L) - AGPR 299

(M) - MATH 065

(O) - OCSUP 102, SPCH 101, SPCH 102

(R) - BA 157, OCSUP 101, PSY 101, PSY 111, WMGT 192, WMGT 292

Allied Health and Safety Education

ENDR

<http://wwcc.edu/alliedhealth>

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Overview: The purpose of Allied Health and Safety Education (AHSE) is to create a learning environment to support a variety of educational, personal enrichment, and career development goals in the field of health and safety. The clientele served by AHSE comprise a wide age group at a variety of educational levels and differing learning outcomes that range from obtaining and maintaining job skills, training for new careers, and personal growth.

Degrees: The Allied Health and Safety Education department provides a wide variety of public and health education programs which include: Medic First Aid, First Responder, Emergency Medical Technician (EMT-B and ILS), CPR for Healthcare Providers, Nursing Assistant, Fundamentals of Caregiving, Phlebotomy, Medical Assisting, Chemical Dependency Counseling, Fire Science and distance learning program partnerships in Medical Laboratory Technology (Wenatchee Valley College) and Physical Therapy Assistant (Whatcom Community College).

The Nursing Assistant program provides training in basic nursing care under state and federal guidelines. The Phlebotomy Technician course is offered on an annual basis during spring quarter. The following is a list of courses offered to help students obtain necessary state requirements and/or provide enrichment for increased information: Nursing Assistant Training Program, Fundamentals of Caregiving-Basic, Fundamentals of Caregiving-Modified, Nurse Delegation, Introduction to Health Services, Phlebotomy, AIDS Education, AIDS/Bloodborne Pathogens Training, Chemical Dependency Counseling Education, OTEP Training, Medic First Aid, Medic First Aid Recertification, and CPR (Heartsaver, Healthcare Provider, Pediatric-Basic), CPR Instructor Certification and Recertification.

The Allied Health and Safety Education Department also offer a variety of Healthcare Education training opportunities for professional to include: Pharmacology, Healthy Lifestyles, Basic Arrhythmias, 12 Lead ECG, Physical Assessment, Mental Health conference, Physical Therapy conference, and Nursing conferences.

Entrance Requirements: Most courses require a high school diploma or GED, and in some cases require an advanced level of certification or registration. Some areas do not require high school diploma or GED but have basic requirements such as reading, writing, and language proficiency requirements.

Other Information: Allied Health and Safety Education includes the following departments: Alcohol and Chemical Dependency (ALCDA), Cardio Pulmonary Resuscitation (CPR), Fire Science (FCA), Health Occupations (HO), Industrial First Aid (IFA), and Medical Assisting (MEDA).

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
Total Credits.....	10

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
Total Credits.....	6

EPC: 363X

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
Total Credits.....	6

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
Total Credits.....	6

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
Total Credits.....	6

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
Total Credits.....	9

EPC: 382

Anthropology

<http://wwcc.edu/anthropology>

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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.

Art

<http://wwcc.edu/art>

Lisa Anne Rasmussen 509.527.1873 lisa.rasmussen@wwcc.edu

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.

Astronomy

<http://wwcc.edu/astronomy>

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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.

Auto Body Repair Technology

AAAS, CERT

<http://wwcc.edu/autobody>

Dan Norton 509.527.4569 daniel.norton@wwcc.edu

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 and is nationally certified by NATEF/ASE in five 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.

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.

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.

Degree

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.

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 a 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
Total Credits.....	24

Quarter Two	Credits
ABT 162, Auto Body Repair II*	21
OCSUP 106, Applied Mathematics I (M)	5
Total Credits.....	26

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

Year Two

Quarter One	Credits
ABT 264, Unibody Rebuilding	21
WRITE 100, Applied Writing (W)	3
Total Credits.....	24

Quarter Two	Credits
ABT 265, Electrical Mechanical	21
OCSUP 103, Job Seeking Skills (J)	3
Total Credits.....	24

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

EPC: 709

* 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, BA 292, OCSUP 103, PSY 140

(W) - BA 137, ENG 097, ENG 101, WRITE 100, WRITE 110

(L) - ABT 299, BA 192, OCSUP 299, PSCI 125

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

(O) - OCSUP 102, SPCH 101, SPCH 102

(R) - BA 157, OCSUP 101, PSY 101, PSY 111, WMGT 192, WMGT 292

Automotive Repair Technology

AAAS, CERT

<http://wwcc.edu/autorepair>

Jim Haun	509.527.4693	james.haun@wwcc.edu
Mike Adams	509.527.4676	michael.adams@wwcc.edu

Overview: Automotive Repair Technology provides intensive career preparation through a combination of classroom instruction and hands-on application. The program is certified by the National Automotive Technicians Education Foundation (NATEF), and is led by Automotive Service Excellence (ASE) master certified instructors. Instructors provide students the fundamental knowledge and experience needed to become entry level technicians in the automotive industry. The Automotive Repair Technology curriculum is reviewed by an advisory board composed of local and regional industry members annually. The Automotive Repair Technology program maintains an active Skills USA (VICA) student leadership organization and an Automotive Technology club.

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.

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

Degree

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.

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.

Automotive Repair Technology Certificate

Upon completion of the year one requirements students may earn a Automotive Repair Technology Certificate (EPC: 712C).

Year One

Quarter One	Credits
AMM 145, Auto Related Industry	6
AMM 149, Hybrid and Alternative Fuel Vehicles	2
AMM 151, Engine Performance	13
OCSUP 106, Applied Mathematics I (M)	5
Total Credits.....	26

Quarter Two

AMM 161, Electrical and Electronics	21
WRITE 100, Applied Writing (W)	3
Total Credits.....	24

Quarter Three

AMM 171, Air Conditioning and Heating	4
AMM 181, Suspension and Alignment	4
AMM 152, Engine Performance II	13
OCSUP 101, Job Psychology: Workplace and Educational Success Skills (R)	3
WELD 141, Welding Basics *	4
Total Credits.....	28
Year One Total.....	78

Year Two

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

Quarter Two

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

Quarter Three

AMM 299, Leadership (L)	1
AMM 232, Air Conditioning and Heating II	4
AMM 242, Suspension and Alignment II	4
AMM 245, Brakes	13
Total Credits.....	22
Year Two Total.....	70
Grand Total.....	148

EPC: 712

* Any welding course WELD 141, Welding Basics (4 credits) or above will satisfy the welding requirement.

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

(J) - OCSUP 103, PSY 140

(W) - BA 137, ENG 097, ENG 101, WRITE 100, WRITE 110

(L) - AMM 299

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

(O) - OCSUP 102, SPCH 101, SPCH 102

(R) - OCSUP 101, PSY 101

Biological Sciences

<http://wwcc.edu/biology>

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

Business Administration

AA-DTA, AAAS, CERT

<http://wwcc.edu/business>

Steve Peters

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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.

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.

Entrance Requirements: Students may begin their study in these programs in fall, winter or spring quarters. However, due to course sequencing and course prerequisites, it is preferable to begin in the fall quarter. A placement test offered by the Student Development Center must be completed prior to admittance to the program.

Other Information: Students transferring into the Business Administration Department from another institution should have their transcripts evaluated by an advisor at WWCC to determine which courses apply toward the business degree(s). Before entering the program all students need to secure an advisor within the Business Administration Department and become familiar with the degree requirements.

Degrees

Direct Transfer Agreement

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. 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 degree to be advised about additional requirements (i.e. gpa) and procedures for admission.

Degree Requirements

Communication Skills 13-15 Credits

ENG 101	5
ENG 102	5
(a) SPCH 101 or 102	3-5

Quantitative Skills 10 Credits

MATH 115	5
MATH 121	5

Humanities 15 Credits

Course selections must meet the Humanities distribution requirements for the AA degree (b): 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. (b)

Social Sciences 15 Credits

ECON 201	5
ECON 202	5
(c) Additional Social Science	5

Natural Sciences 15 Credits

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

(d) Lab Science	5
(d) Science	5
MATH 201	5

Physical Education 3 Credits

Three unduplicated activity classes required.

Business Specific Courses 20 Credits

ACCT 201	5
ACCT 202	5
ACCT 203	5
BA 251 or 252	5

General Electives 5 Credits

Recommended:

BA 101	5
BA 251	5
(e) BA 252	5
(e) CS 115	5
(e) (f) CS 110	5
(b) Foreign Language	5
(g) PSCI	5

Other electives can include preparation for a business major.

(a) For CWU or WSU, choose SPCH 101.

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

(c) For WSU, choose PSY 101 or SOC 101 for the additional Social Science credits.

(d) For WWU, Manufacturing Management requires specific science courses for admission to the major.

(e) Required by WSU.

(f) Recommended by CWU.

(g) WSU requires a PSCI course to meet graduation requirements.

Total Credits..... 96-98

EPC: 001B

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.

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

Year One

Quarter One	Credits
ACCT 201, Principles of Accounting I	5
BA 181, Cooperative Work Experience I	2 - 5
BA 182, Business Leadership Seminar I	3
BA 210, Marketing	5
CS 110, Introduction to Computers and Applications	5
Total Credits.....	20-23

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

Quarter Three	Credits
BA 137, Business Communications II (W)	5
BA 189, Principles of Management	5
BA 197, Electronic Commerce: A Business Perspective	5
Total Credits.....	15
Year One Total.....	55-61

Year Two

Quarter One	Credits
BA 102, Customer Service (R)	5
BA 112, Business Mathematics (M)	5
BA 187, Principles of Selling	5
Total Credits.....	15

Quarter Two	Credits
BA 153, Economic Survey	4
BA 287, Retailing	5
SPCH 101, Fundamentals of Speech (O)	5
Total Credits.....	14

Quarter Three	Credits
BA 101, Introduction to Business	5
BA 157, Human Relations in Business (R)	5
BA 291, Cooperative Work Experience III	2 - 5
BA 292, Business Leadership Seminar III (J)	3
Total Credits.....	15-18
Year Two Total.....	44-47
Grand Total.....	99-108

EPC: 502

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

(J) - BA 292

(W) - BA 137

(L) - BA 192

(M) - BA 112

(O) - OCSUP 102, SPCH 101, SPCH 102

(R) - BA 102, BA 157

Associate in Applied Arts and Sciences

Associate in Applied Arts and Sciences Degree in Retailing

This technical degree provides the skills necessary for employment and preparation for advancement in the business retail environment.

Retailing Certificate

Upon completion of the year one requirements students may earn a Retailing Certificate (EPC: 251C).

Year One

Quarter One	Credits
ACCT 201, Principles of Accounting I	5
BA 181, Cooperative Work Experience I	2 - 5
BA 182, Business Leadership Seminar I	3
BA 210, Marketing	5
CS 110, Introduction to Computers and Applications	5
Total Credits.....	20-23

Quarter Two	Credits
BA 215, Advertising	5
BA 217, Computer Software Applications	5
BA 287, Retailing	5
Total Credits.....	15

Quarter Three	Credits
BA 137, Business Communications II (W)	5
BA 189, Principles of Management	5
BA 191, Cooperative Work Experience II	2 - 5
BA 192, Business Leadership Seminar II (L)	3
Total Credits.....	15-18
Year One Total.....	50-56

Year Two

Quarter One	Credits
BA 112, Business Mathematics (M)	5
BA 187, Principles of Selling	5
BA 291, Cooperative Work Experience III	2 - 5
BA 292, Business Leadership Seminar III (J)	3
Total Credits.....	15-18

Quarter Two	Credits
BA 102, Customer Service	5
BA 160, Merchandise Display	5
BA 251, Introduction to Business Law	5
Total Credits.....	15

Quarter Three	Credits
BA 101, Introduction to Business	5
BA 157, Human Relations in Business (R)	5
Approved Elective*	5
SPCH 101, Fundamentals of Speech (O)	5
Total Credits.....	20
Year Two Total.....	50-53
Grand Total.....	100-109

EPC: 251

* Any BA, ACCT or DIT course over 100 that is not required for this degree will be accepted for the elective credit.

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

(J) - BA 292

(W) - BA 137

(L) - BA 192

(M) - BA 112

(O) - OCSUP 102, SPCH 101, SPCH 102

(R) - BA 102, BA 157

Certificate

Business and Management Certificate

This certificate provides the basic skills necessary for employment and preparation in the business management environment.

Year One

Quarter One	Credits
ACCT 201, Principles of Accounting I	5
BA 181, Cooperative Work Experience I	2 - 5
BA 182, Business Leadership Seminar I	3
BA 210, Marketing	5
CS 110, Introduction to Computers and Applications	5
Total Credits.....	20-23

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

Quarter Three	Credits
BA 137, Business Communications II (W)	5
BA 189, Principles of Management	5
BA 197, Electronic Commerce: A Business Perspective	5
Total Credits.....	15
Year One Total.....	55-61
Grand Total.....	55-61

EPC: 502C

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

(J) - BA 292

(W) - BA 137

(L) - BA 192

(M) - BA 112

(O) - OCSUP 102, SPCH 101, SPCH 102

(R) - BA 102, BA 157

Carpentry

AAAS, CERT

<http://wwcc.edu/carpentry>

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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.

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.

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

Other Information: 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.

Degree

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.

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
CARP 181, Introduction to Carpentry	18
OCSUP 106, Applied Mathematics I (M)	5
Total Credits.....	23

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

Quarter Three	Credits
CARP 183, On-Site Work: Interior Finish	18
OCSUP 103, Job Seeking Skills (J)	3
Total Credits.....	21
Year One Total.....	65

Year Two

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

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

Quarter Three	Credits
CARP 299, Leadership (L)	1
CARP 286, Advanced On-Site Work*	18
Total Credits.....	19
Year Two Total.....	61
Grand Total.....	126

EPC: 745

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

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

(J) - OCSUP 103

(W) - ENG 097, ENG 101, WRITE 100, WRITE 110

(L) - CARP 299, OCSUP 299

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

(O) - OCSUP 102, SPCH 101, SPCH 102

(R) - OCSUP 101, PSY 101

Chemistry

<http://wwcc.edu/chemistry>

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Lori Loseth 509.758.1710 lori.loseth@wwcc.edu

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.

Civil Engineering Technology

AAAS, AS, CERT

<http://wwcc.edu/civilengineering>

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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.

Degrees: Students may earn an Associate in Applied Arts and Sciences (AAAS) Degree in Civil Technology. The Civil Engineering Technology program also offers two degrees accredited by ABET (Accreditation Board for Engineering and Technology) which include the Associate in Science Degree – Option II (Engineering Transfer – TAC/ABET) and Associate in Applied Arts and Sciences Degree in Civil Engineering Technology – TAC/ABET. One-year certificate options include Surveying and Engineering Graphics. These degree options allow students the freedom to pursue careers after either one or two years of training, or to continue their education.

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.

Degrees

Associate in Applied Arts and Sciences

Associate in Applied Arts and Sciences Degree in Civil 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.

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.

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
CET 141, Engineering Graphics *	4
ENG 097, Basic Expository Writing (W)	5
MATH 065, Introductory Algebra (M)***	5
Total Credits.....	19

Quarter Two	Credits
CET 151, Computer Aided Drafting and Design *	3
CET 166, Introduction to Hydrology	3
CET 242, Properties of Materials *	4
MATH 095, Intermediate Algebra ***	5
PSY 140, Career and Life Planning (J)	3
Total Credits.....	18

Quarter Three	Credits
CET 100, Estimating	3
CET 160, Elementary Surveying *	6
CET Elective**	4
OCSUP 108, Applied Mathematics II or MATH 110, Pre-Calculus II*** 5	
Total Credits.....	18
Year One Total.....	55

Year Two

Quarter One	Credits
CET 152, Advanced CADD Problems	3
CET 161, Advanced Surveying *	6
CET 220, Engineering Mechanics - Statics *	5
CET 223, Hydraulics	4
Total Credits.....	18

Quarter Two	Credits
CET 222, Engineering Mechanics - Strength of Materials *	5
CET 224, Soil Mechanics for Construction	4
CET 263, Transportation and Highway Engineering	4
SPCH 101, Fundamentals of Speech (O)	5
Total Credits.....	18

Quarter Three	Credits
CET 201, Engineering Construction Management *	4
CET 202, Construction Inspection	3
CET 221, Engineering Design Fundamentals *	5
CET 226, Concrete and Asphalt Pavements	3
CET 299, Leadership (L)	1
PSY 101, Introduction to Psychology (R)	5
Total Credits.....	21
Year Two Total.....	57
Grand Total.....	112

EPC: 612

CIVIL ENGINEERING TECHNOLOGY

* 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 not required for the degree may be used for the elective requirement.

*** This is the minimum math level required for the degree.

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

(J) - AGPR 100, BA 292, OCSUP 103, PSY 140

(W) - BA 137, ENG 097, ENG 101, WRITE 100, WRITE 110

(L) - CET 299

(M) - MATH 065

(O) - OCSUP 102, SPCH 101, SPCH 102

(R) - BA 157, OCSUP 101, PSY 101, PSY 111, WMGT 192, WMGT 292

Associate in Applied Arts and Sciences

Associate in Applied Arts and Sciences Degree in Civil Engineering Technology -TAC/ABET

This degree provides students the technical coursework required for job preparation, while including a college-level general education component. 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 appropriate educational plan.

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
CET 141, Engineering Graphics **	4
Science Elective**	5
ENG 101, English Composition I * (W)	5
MATH 109, Precalculus I *	5
Total Credits.....	19

Quarter Two	Credits
CET 151, Computer Aided Drafting and Design **	3
CET 242, Properties of Materials **	4
Approved Elective****	5
MATH 110, Precalculus II *** (M)	5
Total Credits.....	17

Quarter Three	Credits
CET 100, Estimating **	3
CET 160, Elementary Surveying **	6
CET 226, Concrete and Asphalt Pavements **	3
Mathematics Elective***	5
Total Credits.....	17
Year One Total.....	53

Year Two

Quarter One	Credits
CET 161, Advanced Surveying **	6
CET 220, Engineering Mechanics - Statics **	5
Science Elective	5
SPCH 101 or SPCH 102 or SPCH 105* (O)	3 - 5
Total Credits.....	19-21

Quarter Two	Credits
CET 222, Engineering Mechanics - Strength of Materials **	5
Humanities, Social Science or Natural Science Elective*	5
Science Elective	5
PSY 140, Career and Life Planning (J)	3
Total Credits.....	18

Quarter Three	Credits
CET 201, Engineering Construction Management **	4
CET 221, Engineering Design Fundamentals **	5
Science Elective	5
PSY 101, Introduction to Psychology *	5
Total Credits.....	19
Year Two Total.....	56-59
Grand Total.....	109-111

EPC: 612R

* ENG 101 or higher fulfills the communication requirement.

MATH 109 or higher fulfills the computation mathematics requirement.

PSY 101 fulfills the human relations requirement.

Refer to the AA guidelines for approved Humanities, Social Science or Natural Science; and Speech requirements.

** Core Civil Engineering Technology course work

*** Required Electives (35 credits):

15 credits of the following: MATH 109, 110, 115, 121, 124, 125, 126, 201, 22, 224, 238

20 credits of the following: CHEM 101, 121, 122, 123; PHYS 121, 122, 123; PHYS 201, 202, 203

**** Suggested Electives (23 credits):

Civil Engineering Technology: All other CET courses

Mathematics: All other MATH courses 110 or higher

Physics: All PHYS courses 121 or higher

Computer Programming: CS 131, 140, and 230

Geography: GEOG 210

Geology: GEOL 101

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

(J) - PSY 140

(W) - ENG 101

(L) - CET 221

(M) - MATH 110

(O) - SPCH 101, SPCH 102, SPCH 105

(R) - PSY 101

Associate in Science

Associate in Science Degree -Option II (Engineering Transfer – TAC/ABET)

This technical degree prepares the student for an entry-level position in the civil engineering industry or as preparation for transfer to a public or private baccalaureate institution.

Transferability: 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 AS degree and that they may look at performance in specific classes in determining a student's admission.

General Education Requirements

63 Credits

Communication Skills

8 Credits

At least eight (8) credits, including one course from each of these two course areas.

English Composition - ENG 101, 1025
Speech – SPCH 101, 102 3-5

Quantitative Skills

15 Credits

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

Mathematics – MATH 124, 125, 126, 201, 220, 224, 238.....15

Humanities and Social Sciences

15 Credits

At least fifteen (15) credits: 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. Refer to the Associate in Arts Planning Guide for approved courses.

Natural Sciences

20 Credits

A minimum of twenty (20) credits, including a sequence of fifteen (15) credits in physics (with lab); five (5) credits in chemistry (with lab for engineering majors).

Physics – PHYS 121, 122, 123, 201, 202, 203 (Engineering highly recommends PHYS 201, 202, 203 series)15
Chemistry – CHEM 1215

Computer Programming

5 Credits

Five (5) credits in computer programming language (based on requirements of specific discipline at a baccalaureate institution where student plans to attend).

Computer Technology – CS 131, 140.....5

Additional Requirements

30 Credits

Physical Education

3 Credits

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

General Electives

27 Credits

The remaining twenty-seven (27) credits 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. Suggested courses could include: Mathematics - MATH 126, 201, 220, 224, 238; Chemistry - CHEM 122, 123

Department Recommendations

27 Credits

Suggested Engineering Electives

The elective credits consist of general engineering core courses and should be planned with the help of an Engineering advisor based on requirements of the specific discipline and baccalaureate institution the student plans to attend. These courses shall include core courses from the ABET accredited program. The student shall enroll in the following CET core courses as part of the suggested engineering credits: CET 141, 242, 151, 220 and 222. The remaining six (6) credits may be selected from the following CET courses: CET 100, 103, 152, 160, 161, 166, 201, 224, 226, 250, or 263.

EPC: 004E

Certificate

Surveying Certificate

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

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

Year One

Quarter One

Credits

CET 141, Engineering Graphics4
CET Elective*4
ENG 097, Basic Expository Writing (W)5
MATH 065, Introductory Algebra (M)5
Total Credits.....18

Quarter Two

Credits

CET 100, Estimating3
CET 160, Elementary Surveying6
CET Elective*4
OCSUP 108, Applied Mathematics II or MATH 110, Pre-Calculus II5
Total Credits.....18

Quarter Three

Credits

CET 103, Engineering Concepts and Problems5
CET 151, Computer Aided Drafting and Design3
CET 161, Advanced Surveying6
OCSUP 103, Job Seeking Skills (J)3
Total Credits.....17

Year One Total.....53

Grand Total.....53

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, BA 292, OCSUP 103, PSY 140

(W) - BA 137, ENG 097, ENG 101, WRITE 100, WRITE 110

(M) - MATH 065

Collaborative Leadership Studies

<http://wwcc.edu/wec>

Mike Bireley

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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.

Commercial Truck Driving

CERT

<http://wwcc.edu/truckdriving>

Steve Harvey 509.527.3681 steven.harvey@wwcc.edu

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 Licensure 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.

Degrees: WWCC offers a Truck Driver Training Certificate and a Advanced Truck Driver Training Certificate.

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.

Certificates

Certificate

Truck Driver 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.

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

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.

Year One

Quarter One

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

EPC: 715

Computer Science

AAAS, CERT

<http://wwcc.edu/computer>

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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.

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.

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.

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.

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
CS 110, Introduction to Computers and Applications	5
CS 115, Introduction to Computer & Information Technology	5
CS 120, Networking Using Internet Technologies	5
SPCH 102, Oral Communications and Interpersonal Relationships (O) 3	
Total Credits.....	18

Quarter Two	Credits
BA 112, Business Mathematics (M)	5
CS 121, Problem Solving with Programming	5
CS 125, Operating Systems	5
Total Credits.....	15

Quarter Three	Credits
BA 102, Customer Service (R)	5
BA 137, Business Communications II (W)	5
CS 130, PC Support and Maintenance I	5
CS 220, Digital Imaging Foundations	5
Total Credits.....	20
Year One Total.....	53

Year Two

Quarter One	Credits
CS 223, Computer Layout and Design (Photoshop)	5
CS 225, Digital Design From A Gaming Perspective	5
CS 291, Cooperative Work Experience II	2
CS 292, Cooperative Seminar II (L) (J)	3
Total Credits.....	15

Quarter Two	Credits
CS 221, Introduction to Digital Audio /Video	5
CS 224, Computer Illustration (Illustrator)	5
CS 227, Website Design and Construction 1	5
CS 290, Systems Analysis and Design (Critical Thinking)	5
Total Credits.....	20

Quarter Three	Credits
CS 141, Computer Science I JAVA	5
CS 222, Desktop Publishing (InDesign)	5
CS 228, Website Design and Construction II	5
CS 229, Dynamic Website Design Cold Fusion	5
Total Credits.....	20
Year Two Total.....	55
Grand Total.....	108

EPC: 507

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

(J) – CS 292

(W) - BA 137, ENG 101

(L) – CS 292

(M) - BA 112

(O) - SPCH 101, SPCH 102

(R) - BA 102, PSY 101

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.

Year One

Quarter One	Credits
CS 110, Introduction to Computers and Applications	5
CS 115, Introduction to Computer & Information Technology	5
CS 120, Networking Using Internet Technologies	5
SPCH 102, Oral Communications and Interpersonal Relationships (O) 3	
Total Credits.....	18

Quarter Two	Credits
BA 112, Business Mathematics (M)	5
CS 121, Problem Solving with Programming	5
CS 125, Operating Systems	5
Total Credits.....	15

Quarter Three	Credits
BA 102, Customer Service (R)	5
BA 137, Business Communications II (W)	5
CS 130, PC Support and Maintenance I	5
CS 220, Digital Imaging Foundations	5
Total Credits.....	20
Year One Total.....	53

Year Two

Quarter One	Credits
CS 230, Visual Basic Programming	5
CS 235, Introduction to Database Design and Theory	5
CS 240, Application Integration using VBA	5
CS 291, Cooperative Work Experience II	2
CS 292, Cooperative Seminar II (L) (J)	3
Total Credits.....	20

Quarter Two	Credits
CS 141, Computer Science I JAVA	5
CS 231, Application Development	5
CS 245, Advanced Database Development	5
CS 290, Systems Analysis and Design (Critical Thinking)	5
Total Credits.....	20

Quarter Three	Credits
CS 241, Programming II (JAVA/C++)	5
CS 242, Advanced Software Development	5
CS 246, SQL and Relational Database Programming	5
Total Credits.....	15
Year Two Total.....	55
Grand Total.....	108

EPC: 501

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

(J) – CS 292

(W) - BA 137

(L) – CS 292

(M) - BA 112

(O) - SPCH 101, SPCH 102

(R) - BA 102

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.

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
CS 110, Introduction to Computers and Applications	5
CS 115, Introduction to Computer & Information Technology	5
CS 120, Networking Using Internet Technologies	5
SPCH 102, Oral Communications and Interpersonal Relationships (O) 3	
Total Credits.....	18

Quarter Two	Credits
BA 112, Business Mathematics (M)	5
CS 121, Problem Solving with Programming	5
CS 125, Operating Systems	5
Total Credits.....	15

Quarter Three	Credits
BA 102, Customer Service (R)	5
BA 137, Business Communications II (W)	5
CS 130, PC Support and Maintenance I	5
CS 220, Digital Imaging Foundations	5
Total Credits.....	20
Year One Total.....	53

Year Two

Quarter One	Credits
CS 260, Unix/Linux Operating Systems	5
CS 265, CCNA 1	5
CS 275, Windows Client	5
CS 291, Cooperative Work Experience	2
CS 292, Cooperative Seminar II (L) (J)	3
Total Credits.....	20

Quarter Two	Credits
CS 266, CCNA 2	5
CS 276, Windows Server	5
CS 277, Fund of Network Security	5
CS 290, Systems Analysis and Design (Critical Thinking)	5
Total Credits.....	20

Quarter Three	Credits
CS 267, CCNA 3	5
CS 268, CCNA 4	5
CS 278, Windows Server Infrastructure	5
CS 280, Novell SUSE Server	5
Total Credits.....	20
Year Two Total.....	60
Grand Total.....	113

EPC: 527

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

(J) – CS 292

(W) – BA 137, ENG 101

(L) – CS 292

(M) – BA 112, MATH 095

(O) – OCSUP 102, SPCH 101, SPCH 102

(R) – BA 102, PSY 101, PSY 111

Certificates

Certificate

Informatics in Digital Design Certificate

This certificate provides the basic knowledge in the fields of digital publishing for the web.

Year One

Quarter One	Credits
CS 110, Introduction to Computers and Applications	5
CS 115, Introduction to Computer & Information Technology	5
CS 223, Computer Layout and Design (Photoshop)	5
Total Credits.....	15

Quarter Two	Credits
BA 112, Business Mathematics (M)	5
CS 221, Introduction to Digital Audio / Video	5
CS 224, Computer Illustration (Illustrator)	5
CS 227, Website Design and Construction 1	5
Total Credits.....	20

Quarter Three	Credits
BA 102, Customer Service (R)	5
BA 137, Business Communications II (W)	5
CS 220, Digital Imaging Foundations	5
CS 222, Desktop Publishing (InDesign)	5
Total Credits.....	20
Year One Total.....	55
Grand Total.....	55

EPC: 507C

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

(W) – BA 137

(M) – BA 112

(R) – BA 102

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.

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
Total Credits.....	20

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

Quarter Three	Credits
BA 102, Customer Service (R)	5
BA 137, Business Communications II (W)	5
CS 130, PC Support and Maintenance I	5

CS 230, Visual Basic Programming	5
Total Credits.....	20
Year One Total.....	60
Grand Total.....	60

EPC: 501C

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

(W) - BA 137

(M) - BA 112

(R) - BA 102

Certificate

Informatics in Networking Certificate

This certificate provides students with a working knowledge of computer networks, including network hardware and popular network operating systems.

Year One

Quarter One Credits

CS 110, Introduction to Computers and Applications	5
CS 115, Introduction to Computer & Information Technology	5
CS 265, CCNA 1	5
Total Credits.....	15

Quarter Two Credits

BA 112, Business Mathematics (M)	5
CS 125, Operating Systems	5
CS 266, CCNA 2	5
CS 276, Windows Server	5
Total Credits.....	20

Quarter Three Credits

BA 102, Customer Service (R)	5
BA 137, Business Communications II (W)	5
CS 130, PC Support and Maintenance I	5
CS 267, CCNA 3	5
CS 268, CCNA 4	5
Total Credits.....	25

Year One Total.....60

Grand Total.....60

EPC: 527C

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

(W) - BA 137, ENG 101

(M) - BA 112, MATH 095

(R) - BA 102, PSY 101, PSY 111

Corrections

<http://wwcc.edu/corrections>

Mike Ponti

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Overview: The Corrections program is designed to prepare students for a career in the corrections arena with an emphasis on developing skills and knowledge that pertain to working in correctional facilities. This curriculum was developed in partnership with a panel of experts from the local, regional and state level corrections industry. Emphasis is placed on specialized communication, observation, and human relations skills required to become successful in the corrections industry.

Degrees: Refer to the website <http://wwcc.edu/corrections> for

current certificate and/or degree options.

Other Information: For related educational opportunities, refer to the Criminal Justice department.

Cosmetology

AAAS

<http://wwcc.edu/cosmetology>

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Nicole Cabezas

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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.

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.

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.

Degree

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.

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.

COSMETOLOGY – CULINARY ARTS

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
Total Credits.....	27.4

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

Quarter Three	Credits
COSM 131, Intermediate Principles and Procedures I	11
COSM 132, Practical Application III	11
OCSUP 102, Oral Communication in the Workplace (O)	3
Total Credits.....	25

Quarter Four	Credits
COSM 270, Practical Application VI	11
OCSUP 299, Principles of Leadership (L)	1
Total Credits.....	12
Year One Total.....	89.4

Year Two

Quarter One	Credits
COSM 241, Intermediate Principles and Procedures II	11
COSM 242, Practical Application IV	11
OCSUP 103, Job Seeking Skills (J)	3
Total Credits.....	25

Quarter Two	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
Total Credits.....	25.4-25.7
Year Two Total.....	50.4-50.7
Grand Total.....	139.8-140.1

EPC: 823

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

(J) - AGPR 100, OCSUP 103, PSY 140

(W) - BA 137, ENG 097, ENG 101, WRITE 100, WRITE 110

(L) - OCSUP 299

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

(O) - OCSUP 102, SPCH 101, SPCH 102

(R) - BA 157, OCSUP 101, PSY 101, PSY 111

Criminal Justice

<http://wwcc.edu/criminaljustice>

Susan Palmer 509.527.4545 susan.palmer@wwcc.edu

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.

Other Information: For related educational opportunities, refer to the Corrections program.

Culinary Arts

AAAS, CERT

<http://wwcc.edu/culinaryarts>

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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.

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.

Entrance Requirements: It is recommended that the student contact the lead instructor regarding appropriate program placement and paying a priority list fee to determine specific quarter start in the program. Students may enter the program fall, winter or spring quarter. A placement test offered by the Student Development Center must be completed prior to admittance to the program. It is mandatory that students possess a current State of Washington Health Card.

Degree

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.

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
CUL 100, ServSafe	2
CUL 101, Introduction to Professional Cooking	5
CUL 104, Service Management	3
CUL 107, Culinary Measurements and Calculations (M)	5
CUL 111, Basic Culinary Principles	3
WRITE 100, Applied Writing (W)	3
Total Credits.....	21

Quarter Two	Credits
AGPR 116, Meat Science I	5
CUL 102, Skill Development I	15
CUL 108, Nutrition for Culinary Arts	3
IFA 022, Medic First Aid Basic	4
Total Credits.....	23.4

Quarter Three	Credits
CUL 103, Skill Development II	15
CUL 190, Culinary Practical I	1
OCSUP 103, Job Seeking Skills (J)	3
OCSUP 299, Principles of Leadership (L)	1
Total Credits.....	20
Year One Total.....	64.4

Year Two

Quarter One	Credits
CUL 202, Professional Cooking I	12
CUL 206, Restaurant Law	2
EV 100, Orientation to the Wine Industry	1
SPCH 102, Oral Communications and Interpersonal Relationships (O)	3
Total Credits.....	18

Quarter Two	Credits
BA 157, Human Relations in Business (R)	5
CUL 191, Culinary Internship	3
CUL 192, Culinary Seminar	1
CUL 203, Professional Cooking II	12
CUL 207, Menu Development	3
CUL 290, Culinary Practical II	1
Total Credits.....	25

Quarter Three	Credits
CUL 292, Cooperative Seminar	1
CUL 291, Cooperative Work Experience	10 - 15
Total Credits.....	11-16
Year Two Total.....	54-59
Grand Total.....	118.4-123.4

EPC: 850

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

(J) - OCSUP 103, PSY 140

(W) - BA 137, ENG 097, ENG 101, WRITE 100, WRITE 110

(L) - OCSUP 299

(M) - CUL 107

(O) - OCSUP 102, SPCH 101, SPCH 102

(R) - BA 157, OCSUP 101, PSY 101

Dance

<http://wwcc.edu/dance>

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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.

Diesel Technology

AAAS, CERT

<http://wwcc.edu/diesealequipment>

Dave Bailey

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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.

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.

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.

Degree

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.

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
Total Credits.....	32

Quarter Two	Credits
DT 162, Machinery Repair I	10
DT 180, Suspension and Alignment	5

DIESEL TECHNOLOGY/EARLY CHILDHOOD EDUCATION

DT 185, Drive Trains	5
OCSUP 101, Job Psychology: Workplace and Educational Success Skills (R)	3
OCSUP 102, Oral Communication in the Workplace (O)	3
Total Credits.....	26

Quarter Three

Credits

DT 163, Machinery Repair II	8
DT 187, Heating and Air Conditioning	5
DT 183, Electronics I	5
DT 189, Preventive Maintenance	5
Total Credits.....	23
Year One Total.....	81

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
Total Credits.....	23

Quarter Two

Credits

DT 267, Advanced Equipment Repair II	10
DT 283, Electronics II	5
DT 299, Leadership (L)	1
DT 281, Engines Advanced	5
OCSUP 103, Job Seeking Skills (J)	3
Total Credits.....	24

Quarter Three

Credits

DT 191, Cooperative Work Experience**	12 - 15
Total Credits.....	12-15
Year Two Total.....	59-62
Grand Total.....	140-143

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 3 credits of TRK 101 for 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

(W) - BA 137, ENG 097, ENG 101, WRITE 100, WRITE 110

(L) - CLS 180, DT 299

(M) - BA 112, MATH 049, OCSUP 106, OCSUP 108

(O) - OCSUP 102, SPCH 101, SPCH 102

(R) - BA 157, OCSUP 101, PSY 101, PSY 111, WMGT 192, WMGT 292

Early Childhood Education

AAAS, CERT

<http://wwcc.edu/earlychildhood>

Melinda Brennan 509.524.5142 melinda.brennan@wwcc.edu

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 rapid social, emotional, physical and intellectual growth of a child. The Early Childhood Education curriculum promotes the learning

and development of children in early care and educational settings, as well as providing opportunities for the ongoing professional development of caregivers. Students have the opportunity to apply newly acquired skills and knowledge to actual scenarios by participating in cooperative work experiences. Certified teachers may apply specific courses towards continuing education credits. In an effort to accommodate currently employed and parent 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.

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 the flexibility to either enter the workforce or transfer to Washington State University through a direct transfer agreement which enables a student to complete a Bachelor of Arts Degree in Human Development. This degree can be completed by distance learning. A Certificate in Early Childhood Education is available upon completion of one year of the program.

Other Information: Early Childhood Education coursework is typically offered in late afternoon, evenings and on weekends to accommodate students who are working. Summer courses may be available upon request. 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 509.527.4333.

Degree

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.

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 101, Introduction to Early Childhood Education	3
ECE 141, Child Development	3
ECE 170, Guiding Behavior of Young Children	3
ECE 144, Early Childhood Education Seminar*	1
PSY 101, Introduction to Psychology (R)	5
Total Credits.....	15

Quarter Two

	Credits
ECE 133, Music and Art for Early Educators	3
ECE 137, Language Development and Literacy	3
ECE 261, Current Issues and Trends in Education	3
ECE 144, Early Childhood Education Seminar*	1
ECE 191, Cooperative Work Experience**	3
SPCH 101, Fundamentals of Speech (O)	5
Total Credits.....	18

Quarter Three

	Credits
ECE 136, Environments for Young Children	3
ECE 139, Teaching Young Children I ***	3
ECE 155, Introduction to Exceptional Children	3
ECE 144, Early Childhood Education Seminar*	1
ECE 234, Child Nutrition, Health and Safety or ED 285, Legal, Safety and Health Issues	3
ENG 097, Basic Expository Writing (W)	5
OCSUP 299, Principles of Leadership (L)	1
Total Credits.....	19
Year One Total.....	52

Year Two

Quarter One

	Credits
ECE 175, Observation and Recording Behavior	3
ECE 232, Childrens Literature	3
ECE 255, Children at Risk	3
ED 265, Instructional Strategies English as a Second Language	3
MATH 065, Introductory Algebra (M)	5
Total Credits.....	17

Quarter Two

	Credits
ECE 236, Motor Development and Movement Education	3
ECE 242, Growth, Development and Guidance for School Ageds	3
ECE 144, Early Childhood Education Seminar*	1
ECE 291, Cooperative Work Experience II****	3
OCSUP 103, Job Seeking Skills (J)	3
Total Credits.....	13

Quarter Three

	Credits
ECE 160, Instructional Strategies Special Needs Children	3
ECE 219, Child, Family and Community Relationships	3
ECE 231, Curriculum Development	3
ECE 239, Teaching Young Children II ***	3
ECE 240, Programs for Infants and Toddlers	3
Total Credits.....	15
Year Two Total.....	45
Grand Total.....	97

EPC: 402

A certificate is available upon completion of 36 ECE credits and 9 credits of related instruction.

* A maximum of 4 credits of ECE 144 is allowed. ECE 144, Seminar may be substituted for ECE 148, Introduction to Childcare.

** Students must complete at least one quarter of ECE 191 or ECE 291 before enrolling in practicum course.

*** A minimum of 3 credits ECE 139 or ECE 239 is required to complete a certificate.

**** 3 credits of Cooperative Work Experience are required for the certificate and 6 credits of 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, PSY 140

(W) - ENG 097, ENG 101

(L) - ECE 299, OCSUP 299

(M) - MATH 065

(O) - OCSUP 102, SPCH 101, SPCH 102

(R) - BA 157, OCSUP 101, PSY 101, PSY 111

Economics

<http://wwcc.edu/economics>

Debora Frazier 509.527.4689 debora.frazier@wwcc.edu

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.

Education Paraprofessional

AA-DTA, AAAS, CERT

<http://wwcc.edu/education>

Melinda Brennan 509.524.5142 melinda.brennan@wwcc.edu

Overview: Education Paraprofessional prepares students to enter the workforce as highly skilled paraeducators to fill an ever-expanding need in today's educational arena. Content complies with all requirements of "No Child Left Behind" legislation. The Education Paraprofessional curriculum is reviewed by an advisory board composed of local and regional educators.

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.

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.

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.

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.

For information on childcare, please call 1.877.527.4333 or 509.527.4333.

Degrees

Direct Transfer Agreement

Associate in Elementary Education – DTA/MRP

The Associate in Elementary Education - DTA/MRP is a statewide transfer degree agreement for elementary education majors between the community colleges and public baccalaureate universities in Washington. This degree is granted to students who

EDUCATION PARAPROFESSIONAL

have at least a cumulative GPA of a 2.0. Students will enter the institution with junior standing. Admission to Washington public baccalaureate schools of elementary education is not guaranteed to students holding this degree. Students should seek academic advising at both WWCC and the university they plan to transfer early in their educational planning to learn about additional requirements and procedures for admission. Students must take the WEST-B in order to apply to teacher education programs in the state of Washington.

Degree Requirements

Communication Skills	15 Credits
ENG 101	5
ENG 102	5
SPCH 101	5

Quantitative Skills	10 Credits
MATH 205	5
MATH 206	5

Humanities	15 Credits
Choose 1 from each area.	

(a) HIST 101, 102, 103, 105, 107, 109	5
(b) LIT Recommended: LIT 149	5
(c) ART, MUS or THEA [H] [HP]	5

Social Sciences	20 Credits
Choose 1 from each area.	

(a) HIST 201, 202, 203	5
(b) PSY 101	5
(c) PSY 103	5
(d) ECON 200, 201, 202; PSCI 101; GEOG 201	5

Natural Sciences	15 Credits
Choose 1 from each area.	

(a) BIO 110, 120, 130	5
(b) ASTR 110, 115, 120; ESCI 101; GEOG 105, 210, 211; GEOL 101, 120, 130, 201, 210; OCE 101	5
(c) CHEM 101, 107, 108, 109, 121, 122, 123; PHYS 110, 121, 122, 123, 201, 202, 203	5

Gender/Culture	5 Credits
HUM 201, 202; PSY 139; SOC 101, 205, 208, 215, 220	5

Physical Education	3 Credits
Three unduplicated activity classes required waived for military service and by physician recommendation only.	

HPER	3
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Education Core	8 Credits
ED 110	5
ED 111	3

Electives	Minimum 5 Credits
CS 100, 105, 121; ED 133, 136, 137, 155, 160, 170, 231, 232, 255, 261, 265	
NUTR 165 or recommendation of advisor	
WSU requires a fourth science.	

Total Credits.....96

EPC: ELEM

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.

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 141, Child Development	3
ED 170, Guiding Behavior of Young Children	3
ED 175, Educational Assessment, Observation and Record Keeping	3
ECE 144, Early Childhood Education Seminar*	1
ENG 097, Basic Expository Writing (W)	5
Total Credits.....	15

Quarter Two	Credits
ED 133, Music and Art for Educators	3
ED 137, Language Development and Literacy	3
ED 261, Current Issues and Trends in Education	3
ED 191, Cooperative Work Experience**	3
SPCH 101, Fundamentals of Speech (O)	5
Total Credits.....	17

Quarter Three	Credits
ED 155, Introduction to Exceptional Students	3
ED 200, Practicum I: Teaching Young Children ***	3
OCSUP 299, Principles of Leadership (L)	1
PSY 101, Introduction to Psychology (R)	5
Total Credits.....	12
Year One Total.....	44

Year Two

Quarter One	Credits
CS 110, Introduction to Computers and Applications	5
ECE 255, Children at Risk	3
ED 232, Children's Literature for Educators	3
ED 265, Instructional Strategies English as a Second Language	3
Total Credits.....	14

Quarter Two	Credits
ECE 242, Growth, Development and Guidance for School Ages	3
ED 110, Introduction to Education	5
ED 236, Motor Development and Movement Education	3
ED 285, Legal, Safety, and Health Issues	3
ED 291, Cooperative Work Experience II	3
OCSUP 103, Job Seeking Skills (J)	3
Total Credits.....	20

Quarter Three	Credits
ED 160, Instructional Strategies Special Needs Students	3
ED 210, Practicum II: Teaching Young Children ***	3
ED 231, Curriculum Development	3
ECE 144, Early Childhood Education Seminar	2
MATH 050, Mathematics II (M)	5
Total Credits.....	16
Year Two Total.....	50
Grand Total.....	94

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 is allowed.

** Students must complete at least one quarter of ED 191 or ED 291 before enrolling in practicum course.

*** A minimum of 3 credits ED 200 or ED 210 is required to complete a certificate.

**** 3 credits of Cooperative Work Experience are required for the certificate and 6 credits of 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, PSY 140

(W) - ENG 097, ENG 101

(L) - ECE 299, OCSUP 299

(M) - MATH 050

(O) - OCSUP 102, SPCH 101, SPCH 102

(R) - BA 157, OCSUP 101, PSY 101, PSY 111

Energy Systems Technology

AAAS, CERT

<http://wwcc.edu/energy>

Mike Houdak 509.527.4252 michael.houdak@wwcc.edu

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, mechanics, 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 three specialty fields within the industry: Refrigeration and Air Conditioning, Electrical, or Mechanical. Refrigeration and Air Conditioning students leave the program with skills necessary to begin immediate employment, while Electrical and Mechanical degrees are designed as a pre-apprenticeship preparation. Energy Systems Technology curriculum is reviewed by an advisory board composed of local and regional industry members.

Degrees: Students may earn an Associate in Applied Arts and Sciences Degree in the following areas: Refrigeration and Air Conditioning, Electrical or Mechanical. One-year certificates are also available for each of the above listed AAAS degrees.

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 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.

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.

Energy Systems Technology – Refrigeration and Air Conditioning Certificate

Upon completion of the first three quarters students may earn a Energy Systems Technology – 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 299, Leadership (L)	1
OCSUP 102, Oral Communication in the Workplace (O)	3
OCSUP 106, Applied Mathematics I (M)	5
Total Credits.....	19

Quarter Two	Credits
CET 149, Blue Print Reading ***	3
EST 101, Refrigeration and Air Conditioning Basics II	5
EST 110, Refrigeration and Air Conditioning Mechanical Equipment ...	6
EST 132, Principles of Electricity AC Application	5
WRITE 100, Applied Writing (W)	3
Total Credits.....	22

Quarter Three	Credits
EST 120, Air Conditioning Systems	6
EST 130, Introduction to Controls	6
EST 144, Industrial Safety in the Workplace **	3
EST 150, Electric Motor and Controls	8
Total Credits.....	23
Certificate Total.....	64

Quarter Four	Credits
EST 191, Cooperative Work Experience *	10-18
EST 192, Cooperative Seminar *	2
Total Credits.....	12-20
Year One Total.....	76-84

Year Two

Quarter One	Credits
EST 200, Ductwork Design and Fabrication	3
EST 240, Basic Electronics	5
EST 264, Heating Systems and Heat Pumps	7
OCSUP 101, Job Psychology: Workplace and Educational Success Skills (R)	3
WELD 141, Welding Basics	4
Total Credits.....	22

ENERGY SYSTEMS TECHNOLOGY

Quarter Two

	Credits
EST 220, Ammonia Refrigeration Systems	4
EST 250, Introduction to Programmable Controllers	5
EST 260, Introduction to the National Electrical Code	1
EST 265, Commercial Refrigeration Equipment	8
OCSUP 103, Job Seeking Skills (J)	3
WMGT 221, Pump Applications	3
Total Credits.....	24
Year Two Total.....	46
Grand Total.....	122-130

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 MedicFirst Aid Training.

*** A student may complete either CET 149, Blue Print Reading or CET 141, Engineering Graphics.

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

(J) - OCSUP 103

(W) - ENG 101, WRITE 100, WRITE 110

(L) - CLS 180, EST 299

(M) - MATH 050, OCSUP 106

(O) - OCSUP 102, SPCH 101, SPCH 102

(R) - OCSUP 101

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.

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.

Energy Systems Technology – Electrical Certificate

Upon completion of the first three quarters students may earn a Energy Systems Technology – Electrical Certificate (EPC: 784C).

Year One

Quarter One	Credits
EST 100, Refrigeration and Air Conditioning Basics I	5
EST 131, Principles of Electricity Theory	5
EST 299, Leadership (L)	1
OCSUP 102, Oral Communication in the Workplace (O)	3
OCSUP 106, Applied Mathematics I*	5
Total Credits.....	14-19

Quarter Two

	Credits
EST 132, Principles of Electricity AC Application	5
OCSUP 108, Applied Mathematics II (M)	5
WELD 141, Welding Basics	4
WRITE 100, Applied Writing (W)	3
Total Credits.....	17

Quarter Three

	Credits
EST 130, Introduction to Controls	6
EST 144, Industrial Safety in the Workplace **	3

EST 150, Electric Motor and Controls	8
OCSUP 101, Job Psychology: Workplace and Educational Success Skills (R)	3
Total Credits.....	20
Certificate Total.....	51-56

Quarter Four

	Credits
EST 191, Cooperative Work Experience****	6 - 18
EST 192, Cooperative Seminar ****	2
Total Credits.....	8-20
Year One Total.....	59-76

Year Two

Quarter One	Credits
CET 103, Engineering Concepts and Problems	5
EST 240, Basic Electronics	5
EST 249, Power Generation and Distribution	5
OCSUP 103, Job Seeking Skills (J)	3
Total Credits.....	18

Quarter Two

	Credits
CET 149, Blue Print Reading *****	3
EST 250, Introduction to Programmable Controllers	5
EST 260, Introduction to the National Electrical Code	1
PHYS 110, Conceptual Physics	5
WMGT 221, Pump Applications	3
Total Credits.....	17

Quarter Three

	Credits
DT 188, Forklift Operator Training ***	1
EST 297, Special Projects	5
EST 159, Hydraulics and Pneumatics	3
EST 254, Generators / Alternators / Transformers	6
TRK 101, CDL Training ***	1 - 6
Total Credits.....	16-21
Year Two Total.....	51-56
Grand Total.....	110-132

EPC: 784

* Students are required to complete OCSUP 108, Applied Mathematics II, 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 Medic First Aid Training.

*** DT 188, Forklift Operator Training and TRK 101, CDL Training are optional for the degree.

**** 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. This is recommended but not required for the degree.

***** A student may complete either CET 149, Blue Print Reading or CET 141, Engineering Graphics.

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

(J) - OCSUP 103

(W) - ENG 101, WRITE 100, WRITE 110

(L) - EST 299, OCSUP 299

(M) - MATH 065, OCSUP 108

(O) - OCSUP 102, SPCH 101, SPCH 102

(R) - OCSUP 101

Associate in Applied Arts and Sciences

Associate in Applied Arts and Sciences Degree in Energy Systems Technology - Mechanical

This technical degree prepares the student to enter into a cooperative training experience, often resulting in long-term employment with the training entity.

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.

Energy Systems Technology – Mechanical Certificate

Upon completion of the first three quarters students may earn a Energy Systems Technology – Mechanical Certificate (EPC: 768C).

Year One

Quarter One	Credits
EST 100, Refrigeration and Air Conditioning Basics I	5
EST 131, Principles of Electricity Theory	5
EST 299, Leadership (L)	1
OCSUP 102, Oral Communication in the Workplace (O)	3
OCSUP 106, Applied Mathematics I *	5
Total Credits.....	14-19

Quarter Two	Credits
WELD 145, Basic Welding I	7
EST 132, Principles of Electricity AC Application	5
OCSUP 108, Applied Mathematics II (M)	5
WMGT 221, Pump Applications	3
WRITE 100, Applied Writing (W)	3
Total Credits.....	23

Quarter Three	Credits
EST 130, Introduction to Controls	6
EST 144, Industrial Safety in the Workplace **	3
EST 150, Electric Motor and Controls	8
OCSUP 101, Job Psychology: Workplace and Educational Success Skills (R)	3
Total Credits.....	20
Certificate Total.....	57-62

Quarter Four	Credits
EST 191, Cooperative Work Experience****	6 - 18
EST 192, Cooperative Seminar ****	2
Total Credits.....	8-20
Year One Total.....	65-82

Year Two

Quarter One	Credits
CET 103, Engineering Concepts and Problems	5
PMT 161, Precision Machining Basics I	13
EST 249, Power Generation and Distribution	5
Total Credits.....	23

Quarter Two	Credits
CET 149, Blue Print Reading *****	3
PMT 162, Precision Machining Basics II	12
OCSUP 103, Job Seeking Skills (J)	3
Total Credits.....	18

Quarter Three	Credits
DT 188, Forklift Operator Training ***	1
WELD 146, Basic Welding II	7
EST 159, Hydraulics and Pneumatics	3
TRK 101, CDL Training ***	1 - 6
Total Credits.....	12-17
Year Two Total.....	53-58
Grand Total.....	118-140

EPC: 768

* Students are required to complete OCSUP 108, Applied Mathematics II, 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 Medic First Aid Training.

*** DT 188, Forklift Operator Training and TRK 101, CDL Training are recommended but not required for the degree.

**** 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. This is recommended but not required for the degree.

***** A student may complete either CET 149, Blue Print Reading or CET 141, Engineering Graphics.

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

(J) - OCSUP 103

(W) - ENG 101, WRITE 100, WRITE 110

(L) - CLS 180, EST 299, OCSUP 299

(M) - MATH 065, OCSUP 108

(O) - OCSUP 102, SPCH 101, SPCH 102

(R) - OCSUP 101

English – Pre-College

<http://wwcc.edu/english>

Jesse Burgess	509.527.1869	jesse.burgess@wwcc.edu
Barbara Hoffman	509.527.4645	barbara.hoffman@wwcc.edu

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 program.

English

<http://wwcc.edu/english>

Jennifer Boyden	509.524.5154	jennifer.boyden@wwcc.edu
Michael Kiefel	509.527.4640	michael.kiefel@wwcc.edu
Brad Lafran	509.527.3682	russell.lafran@wwcc.edu
Linda Andrews	509.527.4641	linda.andrews@wwcc.edu
Virginia Mc Connell- Clk	509.758.1709	virginia.mc connell@wwcc.edu

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.

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	ellen.harley@wwcc.edu
Janet Danley- Clk	509.758.1703	janet.danley@wwcc.edu

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
Michael Moyer	509.524.5172	michael.moyer@wwcc.edu

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.

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

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 Institute's 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.

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.

Degree

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).

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 201, Basic Soil Science	5
EV 100, Orientation to the Wine Industry	1
EV 101, Establishing a Vinifera Vineyard	5
EV 196, Viticulture Practicum I	1 - 3
EV 231, Pesticide Licensing for Viticulture	3
WMGT 112, Irrigation Principles	5
Total Credits.....	20-22

Quarter Two	Credits
AGPR 114, Plant Physiology	5
AGPR 202, Soils Fertility and Management	5
EV 107, Winemaking for Viticulture	5
EV 197, Viticulture Practicum II	1 - 3
EV 299, Leadership (L).....	1
SPCH 101, Fundamentals of Speech (O)	5
Total Credits.....	22-24

Quarter Three	Credits
AGPR 105, Weed Biology and Identification	5
EV 102, Maintaining a Vinifera Vineyard	5
EV 198, Viticulture Practicum III	1 - 3
MATH 065, Introductory Algebra (M)	5
PSY 101, Introduction to Psychology (R)*	5
Total Credits.....	21-23
Year One Total.....	63-69

Year Two

Quarter One	Credits
AGPR 120, Agricultural Chemistry *	5
ENG 101, English Composition I (W)	5
EV 203, Science of Winemaking I	5
EV 286, Winemaking Practicum I	1 - 3
Total Credits.....	16-18

Quarter Two	Credits
AGRI 215, Plant Diseases and Insects	5
EV 108, Wine Industry Employment (J)	3
EV 204, Science of Winemaking II	5
EV 287, Winemaking Practicum II	1 - 3
Total Credits.....	14-16

Quarter Three	Credits
AGRI 211, Small Business Management	5
EV 205, Science of Winemaking III	5
EV 288, Winemaking Practicum III	1 - 3
Total Credits.....	11-13
Year Two Total.....	41-47
Grand Total.....	104-116

EPC: 121

* PSY 101, Introduction to Psychology and AGPR 120, Agriculture Chemistry may be interchanged on the degree sequence due to alternate year offerings.

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

- (J) - EV 108
- (W) - ENG 101
- (L) - EV 299
- (M) - MATH 065
- (O) - SPCH 101, SPCH 102
- (R) - PSY 101

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.

Year One

Quarter One	Credits
AGPR 201, Basic Soil Science	5
EV 100, Orientation to the Wine Industry	1
EV 101, Establishing a Vinifera Vineyard	5
EV 196, Viticulture Practicum I	1 - 3
EV 231, Pesticide Licensing for Viticulture	3
WMGT 112, Irrigation Principles	5
Total Credits.....	20-22

Quarter Two	Credits
AGPR 114, Plant Physiology	5
AGPR 202, Soils Fertility and Management	5
EV 107, Winemaking for Viticulture	5
EV 197, Viticulture Practicum II	1 - 3
EV 299, Leadership	1
SPCH 101, Fundamentals of Speech (O)	5
Total Credits.....	22-24

Quarter Three	Credits
AGPR 105, Weed Biology and Identification	5
EV 102, Maintaining a Vinifera Vineyard	5
EV 198, Viticulture Practicum III	1 - 3
MATH 065, Introductory Algebra (M)	5
PSY 101, Introduction to Psychology (R)*	5
Total Credits.....	21-23
Year One Total.....	63-69
Grand Total.....	63-69

EPC: 121C

* PSY 101, Introduction to Psychology and AGPR 120, Agriculture Chemistry may be interchanged on the degree sequence due to alternate year offerings.

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

- (J) - EV 108
- (W) - ENG 101
- (M) - MATH 065
- (O) - SPCH 101, SPCH 102
- (R) - PSY 101

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.

Year One

Quarter One	Credits
AGPR 120, Agricultural Chemistry	5
ENG 101, English Composition I (W)	5
EV 203, Science of Winemaking I	5
EV 286, Winemaking Practicum I	1 - 3
Total Credits.....	16-18

Quarter Two

AGRI 215, Plant Diseases and Insects	5
EV 108, Wine Industry Employment (I)	3
EV 204, Science of Winemaking II	5
EV 287, Winemaking Practicum II	1 - 3
EV 299, Leadership (L)	1
Total Credits.....	15-17

Quarter Three

AGRI 211, Small Business Management	5
EV 205, Science of Winemaking III	5
EV 288, Winemaking Practicum III	1 - 3
Total Credits.....	11-13
Year One Total.....	42-48
Grand Total.....	42-48

EPC: 121E

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

(J) - EV 108

(W) - ENG 101

(L) - EV 299

Environmental Studies

<http://wwcc.edu/environmentalstudies>

Mike Mahan 509.527.4692 michael.mahan@wwcc.edu

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.

Family and Consumer Studies

<http://wwcc.edu/parenteducation>

Melinda Brennan 509.524.5142 melinda.brennan@wwcc.edu

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 of babies, toddlers, and preschool age children. These courses include subjects of interest from a selected list of topics based on participant interest and need and are offered both on campus and at off-campus locations. Family and Consumer Studies curriculum is developed and maintained with input from the Early Childhood Education advisory board which is composed of local and regional educators.

Farrier Science

AAAS, CERT

<http://wwcc.edu/farrier>

Jeff Engler 509.527.4291 jeffrey.engler@wwcc.edu

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.

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 is available upon completion of the first year of the program. This certificate prepares students to take the American Farriers Association Intern Test.

Students may earn a Farrier Endorsement, a six-week summer session which is designed to teach the basics in a short period of time or to upgrade the skills of someone with previous work experience.

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. Students may also enroll in the six-week summer quarter.

Degree

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.

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

Quarter One	Credits
FRR 194, Basic Shoeing	18
WRITE 100, Applied Writing (W)	3
Total Credits.....	21

Quarter Two	Credits
BIO 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
Total Credits.....	26

Quarter Three

	Credits
FRR 197, Advanced Shoeing	18
FRR 299, Leadership (L)	1
OCSUP 101, Job Psychology: Workplace and Educational Success Skills (R)	3
Total Credits.....	22
Year One Total.....	69

Year Two**Quarter One**

	Credits
FRR 245, Advanced Hoof Preparation and Shoeing	16
OCSUP 106, Applied Mathematics I (M)	5
Total Credits.....	21

Quarter Two

	Credits
FRR 255, Advanced Forging - Homemade Shoe Unit	16
OCSUP 103, Job Seeking Skills (J)	3
Total Credits.....	19

Quarter Three

	Credits
FRR 283, Therapeutic Shoeing	16
Total Credits.....	16
Year Two Total.....	56
Grand Total.....	125

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) - BA 137, ENG 097, WRITE 100, WRITE 110

(L) - FRR 299, OCSUP 299

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

(O) - OCSUP 102, SPCH 101, SPCH 102

(R) - BA 157, OCSUP 101, PSY 101, PSY 111, WMGT 192, WMGT 292

Fire Science**AAAS, CERT**<http://wwcc.edu/fire>

Brad Mason

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Overview: Fire Science provides students with the fundamental knowledge and skills required to function as an entry-level firefighter. EMT training is included as an essential component of the curriculum. The program is designed on a two-year rotational basis, with each new group of students beginning the program on even numbered years. Fire Science courses are taught through a combination of lecture and cooperative training. Many students volunteer with local fire departments to gain more hands-on practice of their skills. WWCC works closely with local fire departments, the EMS system, and the state association in order to offer a quality program, and curriculum is reviewed by an advisory board composed of these local, state and regional industry members.

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.

Entrance Requirements: Students may begin their study in the Fire Science program in fall quarter of every even numbered year. Students who miss the fall enrollment period may take the EMT and general educational courses at any time and then take the fire related courses when the program begins again. A placement test offered by the Student Development Center must be completed prior to admittance to the program. Due to the nature of the work, students wishing to enroll in the Fire Science program must submit to a Washington State criminal background check.

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

Degree**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.

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 Certificate

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

Year One

Quarter One	Credits
FCA 100, Introduction to Firefighting (J)	4
SPCH 101, Fundamentals of Speech (O)	5
WRITE 100, Applied Writing *	3
Total Credits.....	12

Quarter Two

	Credits
FCA 111, Fundamentals of Firefighting	5
FCA 177, Wildland Fire Management	3
MATH 107, Mathematics: A Practical Experience (M)	5
Total Credits.....	13

Quarter Three

	Credits
FCA 115, Advanced Firefighting	8
FCA 137, Fire Protection Systems	3
HO 130, Emergency Medical Technician - Basic (EMT-B) Program	10
Total Credits.....	21
Year One Total.....	46

Year Two

Quarter One	Credits
CHEM 101, Chemistry	5
ENG 101, English Composition I (W)	5
FCA 105, Hydraulics	3
FCA 160, Fire Tactics I	3
Total Credits.....	16

Quarter Two

	Credits
CS 110, Introduction to Computers and Applications	5
FCA 120, Fire Investigation	3
FCA 190, Uniform Fire Codes and Inspections	4
PSY 101, Introduction to Psychology (R)	5
Total Credits.....	17

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
Total Credits.....	13
Year Two Total.....	46
Grand Total.....	92

EPC: 828

* A student may substitute ENG 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) - ENG 101, ENG 102

(L) - FCA 299

(M) - MATH 107

(O) - SPCH 101

(R) - PSY 101

French

<http://wwcc.edu/french>

Edith Liebrand 509.527.4212 edith.liebrand@wwcc.edu

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.

Entrance Requirements: There is no prerequisite for FREN 101. The series of French courses numbered FREN 102 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).

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://wwcc.edu/geography>

Mike Mahan 509.527.4692 michael.mahan@wwcc.edu

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.

Geology

<http://wwcc.edu/geology>

Steve May 509.527.4278 steven.may@wwcc.edu

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.

High School Completion

<http://wwcc.edu/highschool>

Gary Benefiel 509.527.4577 gary.benefiel@wwcc.edu

Overview: The High School Completion program is offered for individuals 18 years or older and for those whose high school class has graduated. The purpose is re-entry into the educational system for individuals who desire a high school diploma.

History

<http://wwcc.edu/history>

Jim Peitersen 509.527.4601 james.peitersen@wwcc.edu
James Bower- Clk 509.758.1771 james.bower@wwcc.edu

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.

Humanities

<http://wwcc.edu/humanities>

Jon Stratton 509.527.4222 jon.stratton@wwcc.edu
James Bower- Clk 509.758.1771 james.bower@wwcc.edu

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.

John Deere Dealership Management

AAAS

<http://wwcc.edu/johndeeremanagement>

Del Wilde 509.527.3674 delwin.wilde@wwcc.edu
Debbie Frazier 509.527.4689 debora.frazier@wwcc.edu

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 agri-business 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.

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.

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.

Degree

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.

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
BIO 110, Survey of Biology	5
ENG 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
Total Credits.....	21

Quarter Two	Credits
JDAS 190, Cooperative Work Experience I	16
Total Credits.....	16

Quarter Three	Credits
AGRI 211, Small Business Management	5
JDAS 115, John Deere Electrical	3
MATH 121, Survey of Calculus (M)*	5
PSY 101, Introduction to Psychology (R)	5
SPCH 101, Fundamentals of Speech (O)	5
Total Credits.....	23

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

Year Two

Quarter One	Credits
AGPR 100, Orientation to Agriculture (J)	3
AGRI 202, Microeconomics in Agriculture	5
Approved Elective****	5
JDAS 205, John Deere Hydraulics	3
Total Credits.....	16

Quarter Two	Credits
AGRI 210, Agricultural Sales and Service	3
AGRI 221, Agricultural Marketing	5
ECON 201, Fundamentals of Macroeconomics	5
Approved Elective****	5
Humanities Elective	5
JDAS 290, Cooperative Work Experience III **	5
Total Credits.....	28

Quarter Three	Credits
AGPR 140, Agriculture Safety and Health ***	3
AGPR 215, Field Crop Production	5
AGRI 220, Agricultural Finance	5
AGRI 222, Agricultural Policy	5
JDAS 221, Ag Management Solutions	1
JDAS 225, John Deere Planting Equipment	1
JDAS 230, John Deere Harvesting Equipment	2
Total Credits.....	22
Year Two Total.....	66
Grand Total.....	142

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.

**** Student must enroll in either (BIO 130 or 152), ECON 201, and AGPR 110 or Animal Science Elective during quarter 3 and 4.

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

(J) - AGPR 100

(W) - ENG 101

(L) - AGPR 299

(M) - MATH 121, MATH 201

(O) - SPCH 101

(R) - PSY 101

John Deere Technology

AAAS

<http://wwcc.edu/johndeere>

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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.

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.

Entrance Requirements: Students can enter this program during the fall 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.

Degree

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.

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
Total Credits	25

Quarter Two	Credits
JD 190, Cooperative Work Experience I	16
Total Credits	16

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
Total Credits	25

Quarter Four	Credits
JD 191, Cooperative Work Experience II	16
Total Credits	16
Year One Total	82

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
Total Credits	21

Quarter Two	Credits
JD 290, Cooperative Work Experience III	16
Total Credits	16

Quarter Three	Credits
AGPR 100, Orientation to Agriculture (J)	3
JD 215, John Deere Cab/Chassis Electrical and Electronics	4
JD 221, Ag Management Solutions	2
JD 225, John Deere Planting Equipment	3
JD 230, John Deere Harvesting Equipment	4
JD 235, John Deere Advanced Hydraulics II	4
JD 240, John Deere Advanced Power Training II	4
OCSUP 299, Principles of Leadership (L)	1
Total Credits	25
Year Two Total	62
Grand Total	144

EPC: 125J

* AGPR 140, Agriculture Safety and Health or EST 144, Industrial Safety in the Workplace will meet the safety requirement.

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

(J) - AGPR 100, OCSUP 103, PSY 140

(W) - BA 137, ENG 097, ENG 101, WRITE 100, WRITE 110

(L) - AGPR 299, BA 192, OCSUP 299, PSCI 125

(M) - MATH 049, OCSUP 106

(O) - OCSUP 102, SPCH 101, SPCH 102

(R) - BA 157, OCSUP 101, PSY 101, PSY 111, WMGT 192, WMGT 292

Library

<http://wwcc.edu/library>

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 Walnut system. Individuals may learn about resources and opportunities by taking LIB courses.

Literature

<http://wwcc.edu/literature>

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Linda Andrews	509.527.4641	linda.andrews@wwcc.edu
Virginia McConnell- Clk	509.758.1709	virginia.mcconnell@wwcc.edu

Overview: The study of Literature at WWCC helps students better understand and appreciate the English language and its literature. Offerings in literature include courses that introduce students to fiction, poetry, and non-fiction. All literature courses examine the richness of voices and expressions present in a wide diversity of literary work.

Mathematics – Pre-College

<http://wwcc.edu/math>

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Jennifer Leber	509.527.4247	jennifer.leber@wwcc.edu

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 program.

Mathematics

<http://wwcc.edu/math>

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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, precalculus 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.

Degrees: Students may earn an Associate in Math Education (DTA) which is designed for students planning to transfer to a baccalaureate institution with junior standing. Refer to the website: <http://wwcc.edu/math> for current degree sequence.

Other Information: The Math Lab located in the Learning Center 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>

Kelly Thelen- Clk	509.758.4047	kelly.thelen@wwcc.edu
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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 externships 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 physicians 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

MEDICAL ASSISTING – NURSING

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.

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.

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.

Other Information: Students must complete CS 100, Introduction to Microcomputers and OT 025 Keyboarding prior to entering the program.

Year One

Quarter One	Credits
MEDA 105, Health Occupations Mathematics (M)	5
MEDA 110, Human Body Structure and Function in Health and Disease I ...	5
OT 280, Medical Terminology	5
WRITE 100, Applied Writing (W)	3
Total Credits.....	18

Quarter Two

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
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
Total Credits.....	14.5

Quarter Three

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
Total Credits.....	21

Quarter Four

MEDA 191, Medical Assisting Internship	7
MEDA 192, Medical Assisting Seminar	1
Total Credits.....	8
Year One Total.....	61.5
Grand Total.....	61.5

EPC: 381

Students must demonstrate computer and keyboarding skills through placement testing or complete CS 100, Introduction to Microcomputers and OT 025 Keyboarding prior to entering the program.

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

(W) - BA 137, ENG 101, WRITE 100

(M) - MEDA 105

(R) - MEDA 114

Music

<http://wwcc.edu/music>

Tom Simon

509.527.4690

thomas.simon@wwcc.edu

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.

Entrance Requirements: All students are welcome to enroll in music courses. Auditions may be required for some performance ensembles.

Nursing

ADN, CERT

<http://wwcc.edu/nursing>

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Overview: The Nursing program at WWCC is approved by the Washington State Nursing Care Quality Assurance Commission: 310 Israel Rd., Tumwater, WA 98501, phone (360) 236-4700, (www.doh.wa.gov). The Nursing program is also accredited by the National League for Nursing Accrediting Commission (NLNAC): 61 Broadway, 33rd Floor, New York, NY 10006, phone (212) 363-5555 ext. 153, (www.nlnac.org).

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).

Entrance Requirements: Admission is based on total points earned (see the Admission Rating Form, found in the Nursing Program Admission Guide). Deadline date of all materials to be received in the Nursing Department is April 15. The information below is an abbreviated overview of the admission process. Complete instructions are available in the Nursing Program Admission Guide in the Nursing Department or on the web. Upon request, hard copies can be mailed.

Students intending to become nursing candidates should consult with a pre-nursing advisor prior to beginning support courses. LPN and transfer students will be advised on an individual basis by the Director of Nursing (or designee).

Any student may prepare for nursing admission by meeting the minimum program requirements outlined below:

Satisfactory Cumulative Grade Point Average - Demonstrated by a 2.5 High School GPA or 2.0 College GPA

Chemistry Competence - Completion of one year of high school chemistry within the past five years or a five credit college level introductory chemistry course. Grade must be 2.0 or better.

Completion of the Placement Tests offered by WWCC's Student Development Center:

* English Competence - Eligible to enter English 101 Composition

* Mathematics Competence - Eligible to enter Math 095, Intermediate Algebra or completion of Mathematics 065 Introductory Algebra (C- or better)

* Biology Competence - Eligible to enter Biology 210, Anatomy and Physiology I or completion of Biology 151 Cell Biology (C or better)

Submission of Nursing Information Sheet, Personal Data Form, a letter addressing "Why I am choosing nursing and my goals for career growth in the nursing profession", current Degree Audit and proof of Nursing Assistant Certification to the Nursing Department.

* Instructions are available in the Nursing Program Admission Guide in the Nursing Department or on the web.

The following mandated courses are required prior to entering the clinical setting:

* "Aids Education for Nursing Students" (.7 credits)

* "Basic Life Support" (.3 credits) annual requirement

Returning LPNs who have been out of school for two or more years and wish to pursue an Associate Degree in Nursing (ADN) must meet the requirements as outlined in the Nursing Program Admission Guide.

Other Information: The Nursing program strongly encourages students to complete as many of the nursing support courses as possible before entrance into the Nursing program. These courses provide points toward admission.

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

Degree

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).

Transferability: WWCC has adapted the Washington State Articulation Plan to increase educational mobility for nurses interested in transferring to a baccalaureate institution in the State of Washington.

Year One

Quarter One	Credits
ENG 101, English Composition I *	5
NURS 100, Fundamentals of Nursing	6
NURS 110, Fundamentals Practicum	4
NURS 196, Professional Development I	1
PSY 101, Introduction to Psychology *	5
Total Credits	21

Quarter Two	Credits
BIO 210, Human Anatomy and Physiology I *	5
NURS 101, Beginning Nursing Concepts I	6
NURS 111, Practicum I	4
PSY 103, Developmental Psychology *	5
Total Credits	20

Quarter Three	Credits
BIO 211, Human Anatomy and Physiology II *	5
FCS 165, General Nutrition *	5
NURS 102, Beginning Nursing Concepts II	6
NURS 112, Practicum II	4
NURS 197, Professional Development II	1
Total Credits	21
Year One Total	62

Year Two

Quarter One	Credits
BIO 230, Microbiology *	5
NURS 200, Advanced Nursing Concepts I	7
NURS 210, Practicum III	6
Total Credits	18

Quarter Two	Credits
NURS 201, Advanced Nursing Concepts II	6
NURS 211, Practicum IV	6
NURS 232, Professional Development III	1
SPCH 102, Oral Communications and Interpersonal Relationships **	3
Total Credits	16

Quarter Three	Credits
NURS 202, Advanced Nursing Concepts III	7
NURS 212, Practicum V	6
Total Credits	13
Year Two Total	47
Grand Total	109

EPC: 323

* Required general education classes (indicated by *) may be taken prior or concurrent with nursing classes; but must be completed with a C grade or better by the designated quarter.

** Students may complete SPCH 102, Oral Communications and Interpersonal Relationships (3 credits) or SPCH 101, Fundamentals of Speech (5 credits).

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).

Year One

Quarter One	Credits
ENG 101, English Composition I *	5
NURS 100, Fundamentals of Nursing	6
NURS 110, Fundamentals Practicum	4
NURS 196, Professional Development I	1
PSY 101, Introduction to Psychology *	5
Total Credits.....	21

Quarter Two	Credits
BIO 210, Human Anatomy and Physiology I *	5
NURS 101, Beginning Nursing Concepts I	6
NURS 111, Practicum I	4
PSY 103, Developmental Psychology *	5
Total Credits.....	20

Quarter Three	Credits
BIO 211, Human Anatomy and Physiology II *	5
FCS 165, General Nutrition *	5
NURS 102, Beginning Nursing Concepts II	6
NURS 112, Practicum II	4
NURS 197, Professional Development II	1
Total Credits.....	21

Quarter Four	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
Year One Total.....	74
Grand Total.....	74

EPC: 326

* Practical Nursing Certificate requires completion of summer quarter. The Associate Degree Nursing degree does not require summer quarter.

** LPN Advanced Placement students who have been out of school for more than 2 years are required to enroll in NURS 104 and 114 (Summer Quarter). Courses are pass/fail.

Nutrition

<http://wwcc.edu/nutrition>

Jill Emigh 509.527.4558 jill.emigh@wwcc.edu

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.

Occupational Support

<http://wwcc.edu/ocsup>

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 Jennifer Leber 509.527.4247 jennifer.leber@wwcc.edu
 Chad Miltenberger- Clk 509.758.1711 chad.miltenberger@wwcc.edu

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.

Oceanography

<http://wwcc.edu/oceanography>

Mike Mahan 509.527.4692 michael.mahan@wwcc.edu

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.

Office Technology

AAAS, CERT

<http://wwcc.edu/office>

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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.

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.

Entrance Requirements: Students may begin their study in these programs in fall, winter or spring quarters. However, due to course sequencing and course prerequisites, it is preferable to begin in the fall quarter. A placement test offered by the Student Development Center must be completed prior to admittance to the program.

Degrees

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.

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
BA 136, Business Communications I	5
OT 122, Records Management	5
OT 125, Introduction to Word Processing	5
OT 218, Desktop Calculator	5
Total Credits.....	20

Quarter Two	Credits
ACCT 201, Principles of Accounting I *	5
CS 110, Introduction to Computers and Applications	5
OT 120, Document Editing	5
OT 126, Intermediate Word Processing	5
Total Credits.....	20

Quarter Three	Credits
BA 112, Business Mathematics (M)	5
BA 137, Business Communications II (W)	5
BA 217, Computer Software Applications	5
OT 222, Records Management II	5
Total Credits.....	20
Year One Total.....	60

Year Two

Quarter One	Credits
BA 157, Human Relations in Business (R)	5
BA 181, Cooperative Work Experience I	2 - 5
BA 182, Business Leadership Seminar I	3
BA 251, Introduction to Business Law	5
SPCH 102, Oral Communications and Interpersonal Relationships (O) 3	3
Total Credits.....	18-21

Quarter Two	Credits
BA 102, Customer Service	5
BA 191, Cooperative Work Experience II	2 - 5
BA 192, Business Leadership Seminar II (L)	3
OT 115, Specialized Transcription I	5
Total Credits.....	15-18

Quarter Three	Credits
BA 291, Cooperative Work Experience III	2 - 5
BA 292, Business Leadership Seminar III (J)	3
CS 222, Desktop Publishing (InDesign)	5
OT 127, Word Processing Applications	5
OT 200, Office Simulation	5
Total Credits.....	20-23
Year Two Total.....	53-62
Grand Total.....	113-122

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) - BA 292 (W) - BA 137 (L) - BA 192
(M) - BA 112
(O) - OCSUP 102, SPCH 101, SPCH 102
(R) - BA 157

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.

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

Quarter Two	Credits
ACCT 201, Principles of Accounting I *	5
CS 110, Introduction to Computers and Applications	5
OT 120, Document Editing	5
OT 126, Intermediate Word Processing	5
Total Credits.....	20

Quarter Three	Credits
ACCT 202, Principles of Accounting II	5
BA 137, Business Communications II (W)	5
BA 217, Computer Software Applications	5
OT 222, Records Management II	5
Total Credits.....	20
Year One Total.....	60

Year Two

Quarter One	Credits
BA 157, Human Relations in Business (R)	5
BA 181, Cooperative Work Experience I	2 - 5
BA 182, Business Leadership Seminar I	3
BA 251, Introduction to Business Law	5
OT 218, Desktop Calculator	5
Total Credits.....	20-23

Quarter Two	Credits
BA 102, Customer Service	5
BA 191, Cooperative Work Experience II	2 - 5
BA 192, Business Leadership Seminar II (L)	3
SPCH 102, Oral Communications and Interpersonal Relationships (O) 3	3
Total Credits.....	13-16

Quarter Three	Credits
ACCT 115, Integrated Computer Applications for Accounting	5
ACCT 175, Payroll Accounting	5
BA 291, Cooperative Work Experience III	2 - 5
BA 292, Business Leadership Seminar III (J)	3
OT 200, Office Simulation	5
Total Credits.....	20-23
Year Two Total.....	53-62
Grand Total.....	113-122

OFFICE TECHNOLOGY

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) - BA 292

(W) - BA 137

(L) - BA 192

(M) - BA 112

(O) - OCSUP 102, SPCH 101, SPCH 102

(R) - BA 157

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.

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
BA 136, Business Communications I	5
OT 122, Records Management	5
OT 125, Introduction to Word Processing	5
OT 218, Desktop Calculator	5
Total Credits.....	20

Quarter Two	Credits
ACCT 201, Principles of Accounting I *	5
CS 110, Introduction to Computers and Applications	5
OT 120, Document Editing	5
OT 126, Intermediate Word Processing	5
Total Credits.....	20

Quarter Three	Credits
BA 112, Business Mathematics (M)	5
BA 137, Business Communications II (W)	5
BA 217, Computer Software Applications	5
OT 222, Records Management II	5
SPCH 102, Oral Communications and Interpersonal Relationships (O) 3	3
Total Credits.....	23
Year One Total.....	63

Year Two

Quarter One	Credits
BA 157, Human Relations in Business (R)	5
BA 181, Cooperative Work Experience I	2 - 5
BA 182, Business Leadership Seminar I	3
BA 251, Introduction to Business Law	5
OT 228, Legal Document Processing I	5
Total Credits.....	20-23

Quarter Two	Credits
BA 191, Cooperative Work Experience II	2 - 5
BA 192, Business Leadership Seminar II (L)	3
OT 115, Specialized Transcription I	5
OT 229, Legal Document Processing II	5
Total Credits.....	15-18

Quarter Three

	Credits
BA 291, Cooperative Work Experience III	2 - 5
BA 292, Business Leadership Seminar III (J)	3
OT 127, Word Processing Applications	5
OT 200, Office Simulation	5
Total Credits.....	15-18
Year Two Total.....	50-59
Grand Total.....	113-122

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) - BA 292

(W) - BA 137

(L) - BA 192

(M) - BA 112

(O) - OCSUP 102, SPCH 101, SPCH 102

(R) - BA 102, BA 157

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.

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
BA 136, Business Communications I	5
BA 157, Human Relations in Business (R)	5
OT 122, Records Management	5
OT 125, Introduction to Word Processing	5
Total Credits.....	20

Quarter Two	Credits
BA 112, Business Mathematics (M)	5
CS 110, Introduction to Computers and Applications	5
OT 120, Document Editing	5
OT 126, Intermediate Word Processing	5
Total Credits.....	20

Quarter Three	Credits
BA 137, Business Communications II (W)	5
BIO 119, Human Anatomy for Medical Office Professionals	5
OT 127, Word Processing Applications	5
OT 222, Records Management II	5
Total Credits.....	20
Year One Total.....	60

Year Two

Quarter One	Credits
ACCT 201, Principles of Accounting I *	5
BA 181, Cooperative Work Experience I	2 - 5
BA 182, Business Leadership Seminar I	3
OT 231, Medical Office Procedures	5
OT 280, Medical Terminology	5
SPCH 102, Oral Communications and Interpersonal Relationships (O) 3	3
Total Credits.....	23-26

Quarter Two	Credits
BA 191, Cooperative Work Experience II	2 - 5
BA 192, Business Leadership Seminar II (L)	3
OT 115, Specialized Transcription I	5
OT 218, Desktop Calculator	5
OT 234, Medical Coding	5
Total Credits.....	20-23

Quarter Three	Credits
BA 291, Cooperative Work Experience III	2 - 5
BA 292, Business Leadership Seminar III (J)	3
OT 116, Specialized Transcription II	5
OT 200, Office Simulation	5
OT 232, Medical Insurance Procedures	5
Total Credits.....	20-23
Year Two Total.....	63-72
Grand Total.....	123-132

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) - BA 292

(W) - BA 137

(L) - BA 192

(M) - BA 112

(O) - OCSUP 102, SPCH 101, SPCH 102

(R) - BA 102, BA 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.

Year One

Quarter One	Credits
BA 136, Business Communications I	5
CS 110, Introduction to Computers and Applications	5
OT 122, Records Management	5
OT 125, Introduction to Word Processing	5
Total Credits.....	20

Quarter Two	Credits
BA 112, Business Mathematics (M)	5
BA 137, Business Communications II (W)	5
OT 120, Document Editing	5
OT 126, Intermediate Word Processing	5
Total Credits.....	20

Quarter Three	Credits
BA 217, Computer Software Applications	5
OT 127, Word Processing Applications	5
OT 200, Office Simulation	5
OT 222, Records Management II	5
Total Credits.....	20
Year One Total.....	60

Year Two

Quarter One	Credits
ACCT 201, Principles of Accounting I *	5
BA 157, Human Relations in Business (R)	5
BA 181, Cooperative Work Experience I	2 - 5
BA 182, Business Leadership Seminar I	3
OT 218, Desktop Calculator	5
Total Credits.....	20-23
Year Two Total.....	20-23
Grand Total.....	80-83

EPC: 559

*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):

(W) - BA 137

(M) - BA 112

(R) - BA 157

Certificate

Legal Administrative Assistant Certificate

This certificate provides the basic skills for employment in a legal administrative environment. The coursework is also appropriate for individuals interested in improving their current skills and knowledge in the legal office setting.

Year One

Quarter One	Credits
CS 110, Introduction to Computers and Applications	5
OT 122, Records Management	5
OT 125, Introduction to Word Processing	5
Total Credits.....	15

Quarter Two	Credits
BA 136, Business Communications I	5
BA 157, Human Relations in Business (R)	5
BA 217, Computer Software Applications	5
BA 251, Introduction to Business Law	5
Total Credits.....	20

Quarter Three	Credits
BA 112, Business Mathematics (M)	5
OT 126, Intermediate Word Processing	5
OT 161, Practical Accounting	5
OT 228, Legal Document Processing I	5
Total Credits.....	20
Year One Total.....	55

Year Two

Quarter One	Credits
BA 181, Cooperative Work Experience I	2 - 5
BA 182, Business Leadership Seminar I	3
OT 120, Document Editing	5
OT 229, Legal Document Processing II	5
Total Credits.....	15-18
Year Two Total.....	15-18
Grand Total.....	70-73

EPC: 577C

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

(M) - BA 112

(R) - BA 102, BA 157

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.

Year One

Quarter One	Credits
BA 136, Business Communications I	5
BA 157, Human Relations in Business (R)	5
OT 125, Introduction to Word Processing	5
OT 231, Medical Office Procedures	5
OT 280, Medical Terminology	5
Total Credits.....	25

Quarter Two	Credits
BA 112, Business Mathematics (M)	5
CS 110, Introduction to Computers and Applications	5
OT 122, Records Management	5
OT 126, Intermediate Word Processing	5
OT 234, Medical Coding	5
Total Credits.....	25

Quarter Three	Credits
ACCT 201, Principles of Accounting I	5
BA 181, Cooperative Work Experience I	2 - 5
BA 182, Business Leadership Seminar I	3
BIO 119, Human Anatomy for Medical Office Professionals	5
OT 232, Medical Insurance Procedures	5
Total Credits.....	20-23
Year One Total.....	70-73
Grand Total.....	70-73

EPC: 565C

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

(M) - BA 112

(R) - BA 102, BA 157

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.

Year One

Quarter One	Credits
BA 136, Business Communications I	5
OT 125, Introduction to Word Processing	5
OT 231, Medical Office Procedures	5
OT 280, Medical Terminology	5
Total Credits.....	20

Quarter Two	Credits
BA 112, Business Mathematics (M)	5
BA 157, Human Relations in Business (R)	5
CS 110, Introduction to Computers and Applications	5
OT 115, Specialized Transcription I	5
OT 120, Document Editing	5
Total Credits.....	25

Quarter Three

	Credits
BA 181, Cooperative Work Experience I	2 - 5
BA 182, Business Leadership Seminar I	3
BIO 119, Human Anatomy for Medical Office Professionals	5
OT 116, Specialized Transcription II	5
OT 126, Intermediate Word Processing	5
Total Credits.....	20-23
Year One Total.....	65-68
Grand Total.....	65-68

EPC: 565E

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

(M) - BA 112

(R) - BA 157

Outdoor Power Equipment

CERT

<http://wwcc.edu/turfequipment>

George Klein 509.527.3673 george.klein@wwcc.edu

Overview: The Outdoor Power Equipment Technician Program provides intensive career preparation through traditional classroom/ live shop hands-on application or distance learning on the job learning environments. The program is certified by the national Equipment and Engines 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 turf equipment using the competencies and national testing provided by the EETC. An off campus student directed learning option is available for those already employed in the industry. Core classes require passage of appropriate EETC certification test. Training materials and equipment are provided through cooperative agreements with regional dealerships, national manufacturers, and local community. Curriculum is reviewed by the Outdoor Power and Turf Equipment Technician advisory board which is composed of local and regional industry members.

Degrees: Students may earn an Certificate in Outdoor Power and Turf Equipment Technician upon completion of three quarters of instruction.

Entrance Requirements: Depending upon placement testing, students may need to complete additional computer classes as a prerequisite to entering the program.

Certificates

Outdoor Power and Turf Equipment Technician Certificate

This certificate allows students to require the master competencies and complete four EETC Certification Tests.

Year One

Quarter One	Credits
TST 151, Shop Fundamentals	3
TST 155, Basic 2-Stroke Engine Principles	7
TST 154, Basic 4-Stroke Engine Principles	10
OCSUP 102, Oral Communication in the Workplace (O)	3
TURF 101, Turf Equipment Operations I	3
Total Credits.....	26

OUTDOOR POWER EQUIPMENT – PRECISION MACHINING TECHNOLOGY

Quarter Two

TST 156, Electrical Principles	17
OCSUP 106, Applied Mathematics I (M)	5
WELD 141, Welding Basics	4
Total Credits.....	26

Quarter Three

TST 120, Shop Management	3
TST 125, Paints and Painting	3
TST 157, Hydraulics and Powertrains*	17
OCSUP 103, Job Seeking Skills (J)	3
TST 299, Leadership (L)	1
Total Credits.....	27
Year One Total.....	79
Grand Total.....	79

EPC: 126C

Depending on placement testing, a student may be required to complete CS 110, Introduction to Computers and Applications for 5 credits.

* 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, PSY 140

(L) - CLS 180, TST 299

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

(O) - OCSUP 102, SPCH 101, SPCH 102

Philosophy

<http://wwcc.edu/philosophy>

Jon Stratton	509.527.4222	jon.stratton@wwcc.edu
James Bower- Clk	509.758.1771	james.bower@wwcc.edu

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.

Physical Education and Recreation

<http://wwcc.edu/pe>

Tim Toon	509.527.4307	timothy.toon@wwcc.edu
Mike Levens	509.527.4315	michael.levens@wwcc.edu

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.

Physics

<http://wwcc.edu/physics>

Steve May	509.527.4278	steven.may@wwcc.edu
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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.

Political Science

<http://wwcc.edu/politicalscience>

Jim Peitersen	509.527.4601	james.peitersen@wwcc.edu
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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.

Precision Machining Technology

AAAS, CERT

<http://wwcc.edu/machining>

Alan Harwood	509.527.4221	alan.harwood@wwcc.edu
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Overview: Precision Machining Technology trains individuals to accomplish the increasingly highly technical work required in today's advanced machining environment. The program provides both lecture and laboratory experiences using modern machine tools and computer-controlled equipment. Students learn to utilize Computer-Numeric-Controlled (CNC) machine tools and Computer-Aided-Design and Machining (CAD/CAM) systems, as well as inspection equipment such as computer Coordinated Measuring Machines (CMM). The Precision Machining curriculum is reviewed by an advisory board composed of local and regional industry members.

Degrees: Students may earn an Associate in Applied Arts and Sciences Degree in Precision Machining Technology upon completion of the two-year program of study. A Machine Tool Operator Certificate is available upon completion of the first year of the program.

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 and possibly winter (pending enrollment openings). A placement test and mechanical reasoning test offered by the Student Development Center must be completed prior to admittance to the program.

Degree

Associate in Applied Arts and Sciences

Associate in Applied Arts and Sciences Degree in Precision Machining Technology

This technical degree prepares the student for immediate employment in the industrial machining 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.

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.

Machine Tool Operator Certificate

Upon completion of the year one requirements students may earn a Machine Tool Operator Certificate (EPC: 808C).

Year One

Quarter One	Credits
PMT 161, Precision Machining Basics I	18
OCSUP 106, Applied Mathematics I (M)	5
Total Credits.....	23

Quarter Two	Credits
CET 141, Engineering Graphics	4
PMT 162, Precision Machining Basics II	18
WRITE 100, Applied Writing (W)	3
Total Credits.....	25

Quarter Three	Credits
PMT 163, Precision Machining Basics III	18
OCSUP 103, Job Seeking Skills (J)	3
Total Credits.....	21
Year One Total.....	69

Year Two

Quarter One	Credits
PMT 294, Precision Machining Advanced I	18
SPCH 101, Fundamentals of Speech (O)	5
Total Credits.....	23

Quarter Two	Credits
PMT 295, Precision Machining Advanced II	18
OCSUP 101, Job Psychology: Workplace and Educational Success Skills (R)	3
PMT 299, Leadership (L)	1
Total Credits.....	22

Quarter Three	Credits
PMT 296, Precision Machining Advanced III	18
Total Credits.....	18
Year Two Total.....	63
Grand Total.....	132

EPC: 808

Strongly recommended for work beyond entry level: WELD 141, CS 100, MATH 065 or higher.

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

(J) - OCSUP 103, PSY 140

(W) - ENG 097, ENG 101, WRITE 100, WRITE 110

(L) - CLS 180, PMT 299

(M) - MATH 050, OCSUP 106

(O) - OCSUP 102, SPCH 101, SPCH 102

(R) - OCSUP 101, PSY 101

Professional Golf Management

AAAS, CERT

<http://wwcc.edu/golf>

Mike Rostollan

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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 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.

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.

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.

Degree

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.

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

BA 112, Business Mathematics (M)	5
OCSUP 103, Job Seeking Skills (J)	3
PGM 101, Golf Management I	5
PGM 111, Introductory Golf Instruction	3
PGM 121, Rules of Golf I	3
TURF 101, Turf Equipment Operations I	3

Total Credits.....22

Quarter Two Credits

ACCT 201, Principles of Accounting I	5
CS 110, Introduction to Computers and Applications	5
PGM 102, Golf Management II	5
PGM 112, Intermediate Golf Instruction	3
PGM 131, Golf Car Fleet Management	3
WMGT 110, Lawn and Turf Irrigation	3

Total Credits.....24

Quarter Three Credits

PGM 191, Cooperative Work Experience	18
PGM 192, Cooperative Seminar (R)	2

Total Credits.....20

Certificate Total.....66

Quarter Four Credits

PGM 292, Cooperative Work Experience II	18
PGM 292, Cooperative Seminar II (R)	2

Total Credits.....20

Year One Total.....86

Year Two

Quarter One Credits

PGM 201, Golf Management III	5
PGM 211, Corrective Golf Lessons	3
PGM 221, Rules of Golf II	2
PGM 299, Leadership (L)	1
SPCH 101, Fundamentals of Speech (O)	5
TURF 122, Turf Maintenance Practices	3
WRITE 100, Applied Writing (W)	3

Total Credits.....22

Quarter Two Credits

ACCT 202, Principles of Accounting II	5
PGM 202, Golf Management IV	5
PGM 212, Teaching the Advanced Player	2
TURF 211, Turf Management	5

Total Credits.....17

Year Two Total.....39

Grand Total.....125

EPC: 176

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

(J) - AGPR 100, BA 292, OCSUP 103, PSY 140

(W) - BA 137, ENG 097, ENG 101, WRITE 100, WRITE 110

(L) - CLS 180, PGM 299

(M) - BA 112, MATH 050

(O) - OCSUP 102, SPCH 101, SPCH 102

(R) - PGM 192, PGM 292

Psychology

<http://wwcc.edu/psychology>

Cindy McClure 509.527.4332 cindy.stevenson-mcclure@wwcc.edu

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.

Reading

<http://wwcc.edu/reading>

Barbara Hoffman 509.527.4645 barbara.hoffman@wwcc.edu

Overview: College preparation courses provide an environment that assists students in learning and practicing skills that lead to academic and occupational success. Courses included are in the areas of reading, writing, mathematics and study skills. Students who complete college preparation courses normally experience higher skill achievement and greater earning power.

The number of quarters required to complete the college preparation coursework is dependent upon the individuals' entrance examination scores. A student is typically co-enrolled in an AAAS or AA Degree.

Science

<http://wwcc.edu/science>

Mike Mahan 509.527.4692 michael.mahan@wwcc.edu

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.

Sociology

<http://wwcc.edu/sociology>

Susan Palmer 509.527.4545 susan.palmer@wwcc.edu

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.

Spanish

<http://wwcc.edu/spanish>

Jeff Adams 509.527.4644 jeffrey.adams@wwcc.edu

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.

Speech

<http://wwcc.edu/speech>

Kevin Loomer 509.527.4317 kevin.loomer@wwcc.edu

Overview: The Speech 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.

Theatre Arts

<http://wwcc.edu/theatrearts>

Kevin Loomer 509.527.4317 kevin.loomer@wwcc.edu

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.

Other Information: 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.

Turf Management

AAAS, CERT

<http://wwcc.edu/turfmanagement>

Bill Griffith 509.527.4269 william.griffith@wwcc.edu

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.

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.

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

Other Information: All courses are offered on campus or through Distance Learning. For more information on Distance Learning please contact the Turf Management program.

Degree

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.

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
TURF 101, Turf Equipment Operations I	3
TURF 122, Turf Maintenance Practices	3
WMGT 112, Irrigation Principles	5
Total Credits.....	19

Quarter Two	Credits
AGPR 202, Soils Fertility and Management	5
OCSUP 106, Applied Mathematics I (M)	5
SPCH 101, Fundamentals of Speech (O)	5
TURF 102, Turf Equipment Operations II	3
TURF 215, Turf Diseases and Insects	3
WMGT 110, Lawn and Turf Irrigation	3
Total Credits.....	24

Quarter Three	Credits
TURF 191, Cooperative Work Experience	16 - 25
TURF 192, Cooperative Seminar (R)	2
Total Credits.....	18-27
Certificate Total.....	61-70

Quarter Four	Credits
TURF 291, Cooperative Work Experience II	16 - 25
TURF 292, Cooperative Seminar II (R)	2
Total Credits.....	18-27
Year One Total.....	79-97

Year Two

Quarter One	Credits
AGPR 140, Agriculture Safety and Health	3
OCSUP 103, Job Seeking Skills (J)	3
TURF 201, Turf Physiology	6
TURF 221, Landscape Maintenance and Construction	5
WRITE 100, Applied Writing (W)	3
Total Credits.....	20

Quarter Two	Credits
AGPR 105, Weed Biology and Identification	5
TST 252, Turf Equipment Fundamentals	3
TURF 211, Turf Management	5
TURF 231, Pesticides Licensing	3
TURF 299, Leadership (L)	1
WMGT 225, Irrigation Design	6
Total Credits.....	23
Year Two Total.....	43
Grand Total.....	122-140

EPC: 160

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

(J) - OCSUP 103

(W) - BA 137, ENG 097, ENG 101, WRITE 100, WRITE 110

(L) - CLS 180, TURF 299

(M) - BA 112, MATH 049, OCSUP 106, OCSUP 108

(O) - OCSUP 102, SPCH 101, SPCH 102

(R) - TURF 192, TURF 292

Water and Environmental Studies

<http://wwcc.edu/wec>

Jaime Clarke

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Overview: The Water and Environmental Studies program offers education and training on water and environmental issues. The program provides extended learning through community workshops, professional development seminars, continuing education courses and other special interest classes. This program also offers integrated K-12 environmental education.

Water Management

AAAS, CERT

<http://wwcc.edu/water>

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Gerald Anhorn

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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.

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.

WATER MANAGEMENT

Students may earn an Associate in Applied Arts and Sciences Degree in Water Resources Technology upon completion of the two-year program of study.

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.

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.

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.

Irrigation Technology Certificate

Upon completion of the first three quarters students may earn a Irrigation Technology Certificate (EPC: 130C).

Year One

Quarter One	Credits
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
Total Credits.....	21

Quarter Two	Credits
CET 141, Engineering Graphics *****	4
WMGT 110, Lawn and Turf Irrigation	3
WMGT 141, Irrigation Troubleshooting	7
WMGT 143, Turf and Landscape Troubleshooting	3
WMGT 230, Water and Energy Conservation ***	3
Total Credits.....	20

Quarter Three	Credits
WMGT 191, Cooperative Work Experience	16
WMGT 192, Cooperative Seminar (R)	2
Total Credits.....	18
Certificate Total.....	59

Quarter Four	Credits
WMGT 291, Cooperative Work Experience II	16
WMGT 292, Cooperative Seminar II (R)	2
Total Credits.....	18
Year One Total.....	77

Year Two

Quarter One	Credits
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
Total Credits.....	20

Quarter Two	Credits
CLS 180, Workforce Leadership Development (L)	2
EST 260, Introduction to the National Electrical Code	1
SPCH 102, Oral Communications and Interpersonal Relationships (O)	3
WMGT 220, Drip Irrigation ***	3
WMGT 221, Pump Applications	3
WMGT 225, Irrigation Design	6
WRITE 100, Applied Writing (W)	3
Total Credits.....	21
Year Two Total.....	41
Grand Total.....	118

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.

***** A student may complete CET 141, Engineering Graphics or WMGT 172, Irrigation Blueprints.

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

(J) - AGPR 100, BA 292, OCSUP 103, PSY 140

(W) - BA 137, ENG 097, ENG 101, WRITE 100, WRITE 110

(L) - BA 192, CLS 180, PSCI 125, WMGT 180

(M) - BA 112, MATH 050, OCSUP 106

(O) - OCSUP 102, SPCH 101, SPCH 102

(R) - BA 157, OCSUP 101, PSY 101, PSY 111, WMGT 192, WMGT 292

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.

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

Year One

Quarter One	Credits
AGPR 113, Plant Anatomy and Morphology	3
WMGT 112, Irrigation Principles	5
WMGT 135, Cultures of Water **	3
WMGT 139, Watershed Management	3
WRITE 100, Applied Writing (W)	3
Total Credits.....	17

Quarter Two	Credits
CET 141, Engineering Graphics *	4
CET 166, Introduction to Hydrology	3
CET 250, Introduction to GIS	3
CLS 180, Workforce Leadership Development (L)	2
WMGT 110, Lawn and Turf Irrigation	3
WMGT 230, Water and Energy Conservation ***	3
Total Credits.....	18

Quarter Three	Credits
BIO 130, General Ecology	5
CET 160, Elementary Surveying	6
CET XXX, Advanced GIS/GPS	3
OCSUP 106, Applied Mathematics I (M)	5
Total Credits.....	19

Quarter Four	Credits
WMGT 191, Cooperative Work Experience	16
WMGT 192, Cooperative Seminar (R).....	2
Total Credits.....	18
Year One Total.....	72

Year Two

Quarter One	Credits
AGPR 201, Basic Soil Science	5
CET 161, Advanced Surveying	6
CET 223, Hydraulics	4
OCSUP 103, Job Seeking Skills (J)	3
WMGT 204, Water Policy **	3
Total Credits.....	21

Quarter Two	Credits
CET 151, Computer Aided Drafting and Design	3
SPCH 102, Oral Communications and Interpersonal Relationships (O)	3
WMGT 220, Drip Irrigation ***	3
WMGT 221, Pump Applications	3
WMGT 225, Irrigation Design	6
Total Credits.....	18
Year Two Total.....	39
Grand Total.....	111

EPC: 130A

* A student may complete CET 141, Engineering Graphics or WMGT 172, Irrigation Blueprints.

** 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.

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

(J) - AGPR 100, OCSUP 103, PSY 140

(W) - BA 137, ENG 097, ENG 101, WRITE 100

(L) - CLS 180, WMGT 180

(M) - OCSUP 106

(O) - OCSUP 102, SPCH 101, SPCH 102

(R) - BA 157, OCSUP 101, PSY 101, PSY 111, WMGT 192, WMGT 292

Welding Technology

AAAS, CERT

<http://wwcc.edu/welding>

Mike Haggard

509.527.4219

michael.haggard@wwcc.edu

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, 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.

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.

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.

Degree

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.

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 – WRITING

Welding Technology Certificate

Upon completion of the year one requirements students may earn a Welding Technology Certificate (EPC: 814C).

Year One

Quarter One	Credits
WELD 151, Shielded Metal Arc Welding I	17
OCSUP 106, Applied Mathematics I (M)	5
Total Credits.....	22

Quarter Two	Credits
WELD 152, Shielded Metal Arc Welding II	17
WRITE 100, Applied Writing (W)	3
Total Credits.....	20

Quarter Three	Credits
CET 149, Blue Print Reading *	3
WELD 153, Shielded Metal Arc Welding III	17
OCSUP 101, Job Psychology: Workplace and Educational Success Skills (R)	3
Total Credits.....	23
Year One Total.....	65

Year Two

Quarter One	Credits
WELD 254, Shielded Metal Arc - Pipe	17
OCSUP 102, Oral Communication in the Workplace (O)	3
Total Credits.....	20

Quarter Two	Credits
WELD 255, Gas Tungsten Arc Welding	17
OCSUP 103, Job Seeking Skills (J)	3
Total Credits.....	20

Quarter Three	Credits
WELD 256, Gas Metal Arc Welding	17
WELD 299, Leadership (L)	1
Total Credits.....	18
Year Two Total.....	58
Grand Total.....	123

EPC: 814

* A student may complete either CET 149, Blue Print Reading or CET 141, Engineering Graphics.

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

(J) - AGPR 100, OCSUP 103, PSY 140

(W) - BA 137, ENG 097, ENG 101, WRITE 100, WRITE 110

(L) - WELD 299

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

(O) - OCSUP 102, SPCH 101, SPCH 102

(R) - BA 157, OCSUP 101, PSY 101, PSY 111

Women's Studies

<http://wwcc.edu/womenstudies>

Susan Palmer 509.527.4545 susan.palmer@wwcc.edu

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.

Writing

<http://wwcc.edu/writing>

Mindy Stevens 509.527.3678 mindy.stevens@wwcc.edu

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 in a well-written document. Most writing courses are Transitional Studies courses that prepare students for college composition and creative writing courses.



COURSE Descriptions

Walla Walla
Community College

... Your Best Choice



Accounting Technology

ACCT 115 Integrated Computer Applications for Accounting

5 Credits

Computerized accounting systems, emphasizing various elements of an integrated general ledger package will be discussed. Special attention to hands-on operation of related accounting software packages. Prerequisites: CS 110 and ACCT 201.

ACCT 175 Payroll Accounting

5 Credits

Provides an understanding of payroll records and numerous laws that affect operation of a payroll system. Prerequisite: ACCT 201 or OT 161.

ACCT 199 Special Topics

1 - 5 Credits

Study and train to meet established local needs in the accounting industry, supplemental to courses currently offered. Prerequisite: Instructor permission.

ACCT 201 Principles of Accounting I

5 Credits

Addresses the fundamentals of accounting theory and practice, including: study of the accounting cycle, use of special journals, and use of accounting in management decisions.

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.

ACCT 203 Managerial Accounting

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.

ACCT 204 Intermediate Accounting I

5 Credits

Addresses financial accounting principles and practices, including study of the theory and principles underlying presentation and interpretation of working capital, investments, long-term liabilities, and stockholders equity. Prerequisite: ACCT 202.

ACCT 205 Intermediate Accounting II

5 Credits

Continuance of ACCT 204, Intermediate Accounting I. Topics include study of long-term assets and liabilities, matching principle as it relates to the Income Statement and Income Recognition. Prerequisite: ACCT 204.

ACCT 209 Cost Accounting

5 Credits

In-depth understanding of cost accounting systems and application of differential cost for decision-making. Also develops background for using budgets. Prerequisite: ACCT 202.

ACCT 216 Principles of Income Tax

5 Credits

Reviews the federal tax structure and ability to apply tax principles to specific problems. Prerequisite: ACCT 202 or instructor permission.

ACCT 297 Special Projects

1 - 5 Credits

Project-oriented experiences in the area or applications not covered in the standard accounting curriculum. Prerequisite: Instructor permission, based on evaluation of students education and work experience.

Adult Basic Education

ABE 001 ABE Level I

1 - 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 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

Instructional focus is on addition, subtraction, multiplication, division, solving one-and two-step word problems, simple measurement, and a review of multiplication facts. 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. 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 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.

Adult Basic Education / GED

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

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 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 202 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 202 and ECON 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.

AGRICULTURE SCIENCE AND TECHNOLOGY

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 202 and PSCI 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 ENG 099; or permission of the Science Division Chair or designee. Recommended: READ 098. Student may not earn credit for both AGPR 101 and ESCI 101.

AGPR 105 Weed Biology and Identification

5 Credits

Introduction in weed science to provide an understanding of the principles and methods of controlling weeds, use and development of herbicides, methods of application and rate calculation, sprayer components and calibration, and practical knowledge of plant and seed samples of weeds common to the Pacific Northwest.

AGPR 110 Introduction to Livestock Production

5 Credits

Introduction to the livestock industry and its importance to the U.S. economy. Animal products for consumers, biological principles, and management practices will be discussed.

AGPR 111 Animal Nutrition and Health

5 Credits

Introduction to animal nutrition and health topics which includes major courses of nutrients required by all animals, utilization of these nutrients by farm animals, and health and safety considerations in terms of deficiencies or toxicities of specific nutrients.

AGPR 112 Feeds and Feeding

5 Credits

Addresses common feeding practices and nutrient characteristics of animal feeds. Topics include ration formulation and ration requirements for cattle, sheep, hogs, and horses. Prerequisite: AGPR 111 or instructor permission.

AGPR 113 Plant Anatomy and Morphology

3 Credits

Provides a practical understanding of plant anatomy, morphology, and growth of agriculture crops.

AGPR 114 Plant Physiology

5 Credits

Provides a practical understanding of plant structure, function and physiological processes involved in growth and development.

AGPR 115 Preventative Veterinary Medical Care

5 Credits

Basic information on animal health and disease prevention. Topics include fundamentals of the nature of disease, nutrition, sanitation, disinfection, immunization, and basic husbandry practices.

AGPR 116 Meat Science I

5 Credits

The basic principles of anatomy, microbiology and nutritive value of meat. Information concerning food safety, meat inspection and grading and processing equipment will also be analyzed.

AGPR 120 Agricultural Chemistry

5 Credits

Fundamental course in chemistry which overviews the basics of inorganic, organic, and biochemistry with applications to agriculture and other applied science fields. Recommended: high school chemistry or equivalent.

AGPR 140 Agriculture Safety and Health

3 Credits

A synopsis of safety and health issues that impact the quality of life and productivity of American agriculture. Students receive first aid and CPR training.

AGPR 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 159 Greenhouse Crop Production II

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 160 Greenhouse Crop Production III

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 agri-science 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.

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.

Anthropology

ANTH 101 Introduction to 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.

ANTH 202 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.

Art

ART 100 Art Appreciation [H]**5 Credits**

Study and appreciation of the various periods in the history of art and the materials and methods used by artists.

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 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 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

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 ENG 087; or permission of the Science Division Chair or designee. Recommended: READ 098.

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 ENG 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 ENG 087; or permission of the Science Division Chair or designee. Recommended: READ 098.

Auto Body Repair Technology

ABT 100 Introduction to Auto Body Repair

1 - 21 Credits

Provides high school students with an overview of the auto body repair industry. Topics include body shop safety, use of common hand tools, power tools, body hand tool operations and body fasteners. Prerequisite: Current High School student.

ABT 104 Introduction to Auto Body Repair I

10 - 21 Credits

Introductory evening course for the auto body repair industry. Topics include body shop safety, use of common hand tools, power tools, body hand tool operations and body fasteners.

ABT 105 Introduction to Auto Body Repair II

1 - 21 Credits

Evening course for the auto body repair industry. Topics include body shop safety, use of common hand tools, power tools, body hand tool operations and body fasteners. The study of mild and high strength steel, sheet metal design, and collision damage analysis will be covered.

ABT 161 Auto Body Repair I

1 - 21 Credits

Body shop safety, use of common hand tools, power tools, body hand tool operations, and body fasteners will be covered. The study of mild and high strength steel, sheet metal design, and collision damage analysis.

ABT 162 Auto Body Repair II

1 - 21 Credits

Provides job planning, sheet metal repair, and metal finishing operations. Glass replacement, the alignment of doors, hoods, fenders, and applying body plastic filler and fiberglass repair will also be covered.

ABT 163 Auto Body Refinishing**1 - 21 Credits**

Spray painting equipment and facilities, spraying techniques, surface preparation, undercoat materials and applications, spot painting and blending, complete painting and color theory, matching fundamentals and techniques will be covered.

ABT 191 Cooperative Work Experience**1 - 5 Credits**

Opportunity to work in jobs directly related to the auto body industry. This formal training period is agreed upon by the student, employer, and instructor. Prerequisite: Instructor permission.

ABT 192 Cooperative Seminar**1 Credit**

Students explore issues related to their cooperative work experience focusing on effective workplace relationships. Co-requisite: ABT 191.

ABT 199 Special Topics**1 - 10 Credits**

Study and train to meet established local needs in the auto body repair industry, supplemental to courses currently offered. Prerequisite: Instructor permission.

ABT 264 Unibody Rebuilding**1 - 21 Credits**

Unibody and frame repair; the replacement of structural components; fundamentals of electricity; reading of wiring diagrams; chassis wiring and repairs; repairing power windows, power seats, and other accessory units will be covered.

ABT 265 Electrical Mechanical**1 - 21 Credits**

Repair of suspension and steering systems, brake systems, air conditioning systems, cooling systems, drive trains, fuel intake and exhaust systems, and restraint systems. Four wheel alignment and corrections will be covered.

ABT 266 Damage Estimating and Shop Operation**1 - 21 Credits**

Introduction to procedure and sequence of writing collision damage estimates. Familiarization with body shop management. Introduction to material (physical) damage, insurance policies, and adjusting. Identification and repair procedures for plastic repair.

ABT 267 Advanced Auto Body Technology**1 - 21 Credits**

Provides advanced training for students who have completed the AAAS Degree in Auto Body Repair Technology and desire specialized training in a specific area. Prerequisite: Instructor permission.

ABT 297 Special Projects**1 - 21 Credits**

Project-oriented experiences in the area or applications not covered in the standard auto body curriculum. Prerequisite: Instructor permission, based on evaluation of student's education and work experience.

ABT 299 Leadership**1 Credit**

Encourage students to develop awareness of their leadership potential and abilities through small group discussions and assumption of leadership roles and responsibilities. Students will acquire information, experience diverse points of view, construct knowledge and practice a variety of interpersonal and social skills, such as communicating, goal-setting, decision-making, team-building, and managing stress.

Automotive Repair Technology

AMM 100 Introduction to Auto Repair**1 - 5 Credits**

Provides high school students with the basics of automotive maintenance including the identification of vehicle systems and basic diagnostics and repairs. Topics include workplace safety, basic shop procedures, tool identification, proper use of fasteners and precision measurement. Prerequisite: Current high school student.

AMM 104 Auto Upkeep: Basic Car Care**1 - 3 Credits**

Introduction to auto mechanics for anyone who is unfamiliar with basic auto maintenance and repair. Topics include vehicle basics, safety, fluids, wheels and tires, changing tires, emergency equipment, tools, brakes, and vehicle shopping tips/tools. The intent is to provide the consumer with the knowledge to make economical decisions and to take preventative measures to enhance owner satisfaction. (The class will not perform major vehicle repairs.) Dress in comfortable work clothes. This class is taught by ASE Certified instructors.

AMM 105 Auto Technician In-Service**1 - 3 Credits**

Designed to prepare students for the ASE exam. Computer based training which introduces the student to electrical/electronic systems diagnosis. Students will use computer software to simulate use of a digital volt-ohmmeter to practice diagnostic procedures performed on electrical and electronic automotive systems found on today's automobiles. This course is suitable for apprentice and journeyman automotive technicians interested in furthering their understanding of modern automotive electronic systems.

AMM 145 Auto Related Industry**1 - 6 Credits**

Introduction to the automotive repair industry. The student will learn automotive terminology, shop and personal safety, handling and storing of hazardous materials, identification and operation of shop equipment and specialized tools, identification of hand tools, micrometer use and measure given objects within .0005 tolerance and the use of drills, taps and dies. The student will become familiar with all major components of the vehicle. Students will study wheels and tires, theory, diagnosis and service. Students will learn automotive maintenance operations. This course is structured to provide competency-based application of NATEF automotive repair tasks in a working shop environment and will provide students with the background and knowledge to take the ASE certification examinations. Co-requisites: AMM 149 and 151.

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 151.

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 145 and 149.

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 171 and 181.

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 152 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 152 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 1 Credit

Explore issues related to cooperative work experience focusing on effective workplace relationships. Co-requisite: AMM 191.

AMM 199 Specials Topics 1 - 10 Credits

Study and train to meet established local needs in the automotive repair industry, supplemental to courses currently offered. Prerequisite: Instructor permission.

AMM 210 Engine Rebuild 1 - 21 Credits

Disassembly, inspection, and reassembly of the gasoline internal combustion engine. Hands-on applications including emphasis on disassembly, cleaning and inspection of cylinder block and cylinder head components; instruction in the use of precision measurement tools to measure wear of cylinders and other major components of the engine. This instruction will include grinding valves, checking guides, and installing rod, main and cam bearings, timing gears and chain, pistons and rings. This course is structured to provide competency-based application of NATEF automotive repair tasks in a working shop environment and will provide students with the background and knowledge to take the ASE certification examinations.

AMM 224 Automatic Transmission/Transaxles 1 - 13 Credits

Introduction to automatic transmission and transaxles. Students will learn theory, diagnosis and repair of automatic drivetrain components used on today's light duty vehicles. Subjects covered in this course are; torque converters, planetary gearsets, hydraulic systems, electronic controls, valve bodies and CVT's. Students will learn to use specialized equipment necessary to diagnose and repair automatic transmissions and transaxles. This course is structured to provide competency-based application of NATEF automotive repair tasks in a working shop environment and will provide students with the background and knowledge to take the ASE certification examinations. Co-requisite: AMM 225.

AMM 225 Manual Drive Train and Axles 1 - 8 Credits

Introduction to manual transmission, transaxles, clutches, differentials and transfer cases. Students will learn theory, diagnosis and repair of manual drivetrain components used on today's vehicles. Students will learn to diagnose and repair clutches, differentials, transfer cases and drive axles. This course is structured to provide competency-based application of NATEF automotive repair tasks in a working shop environment and will provide students with the background and knowledge to take the ASE certification examinations. Co-requisite: AMM 224.

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 242 and 245.

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 232 and 245.

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 232 and AMM 242.

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

BIO 110 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 ENG 087; or permission of the Science Division Chair or designee. Recommended: READ 098.

BIO 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 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 ENG 087 or BA 136; or permission of the Science Division Chair or designee. Recommended: OT 280; READ 098.

BIO 120 The Biology of Human Organism [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 ENG 087; or permission of the Science Division Chair or designee. Recommended: READ 098.

BIO 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 ENG 087; or permission of the Science Division Chair or designee. Recommended: READ 098. Student may not earn credit for both BIO 121 and WST 121.

BIO 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 overpopulation. Field trips and lab exercises support lecture discussions. Lab work required. Prerequisite: Appropriate placement score or grade of C or higher in ENG 087; or permission of the Science Division Chair or designee. Recommended: READ 098.

BIO 151 Cell Biology [NS]

5 Credits

Introduction to the study of the cell, the basic component of all living organisms. This course is intended to provide a solid background for students planning to take advanced biology courses in order to enter pre-professional programs in biology. Emphasis is placed on cell chemistry, structure, metabolism, energetics, cell division and genetic principles. The basics of DNA technology are also covered. Lab work required. Prerequisite: Appropriate placement score or grade of C or higher in ENG 087; or permission of the Science Division Chair or designee. Recommended: READ 098.

BIO 152 General Botany [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: BIO 110 or 151.

BIO 153 General Zoology [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: BIO 110 or 151.

BIO 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.

BIO 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: BIO 110, 151 or 153.

BIO 210 Human Anatomy and 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 BIO 151.

BIO 211 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 BIO 210.

BIO 212 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 BIO 210.

BIO 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: BIO 110, BIO 152, AGPR 113, AGPR 114 or AGRI 215.

BIO 230 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 BIO 151 or permission of the Science Division Chair or designee.

BIO 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: BIO 110, 151 or 130.

Business Administration

BA 101 Introduction 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.

BA 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.

BA 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.

BA 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: ENG 077.

BA 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: BA 136 or instructor permission.

BA 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.

BA 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: BA 153.

BA 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.

BA 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.

BA 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: BA 182 and instructor permission.

BA 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.

BA 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.

BA 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.

BA 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: BA 192 and instructor permission.

BA 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.

BA 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.

BA 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.

BA 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.

BA 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.

BA 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.

BA 251 Introduction to Business Law I **5 Credits**
Introduction to law with an analysis of its origin and development and its interaction with business, including: legal procedures, principles of contract law, agency, negotiable instruments, constitutional authority, business tort, product liability, intellectual criminal law, and principles of contract law.

BA 252 Introduction to Business Law II **5 Credits**
Continuance of BA 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: BA 251.

BA 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.

BA 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: BA 292 and instructor permission.

BA 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.

BA 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.

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 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. 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**
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.

CARP 192 Cooperative Seminar **1 Credit**
Students explore issues related to their cooperative work experience focusing on effective workplace relationships. 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 101 Chemistry [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 ENG 087; or permission of the Science Division Chair or designee. Recommended: READ 098.

CHEM 107 General Chemistry for Health Sciences [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 ENG 087; or permission of the Science Division Chair or designee. Recommended: READ 098; high school chemistry.

CHEM 108 Organic Chemistry for Health Sciences [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 107.

CHEM 109 Biochemistry for Health Sciences [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 108.

CHEM 121 General Chemistry I [NS]

5 Credits

Study of the composition, structure, and properties of matter and its changes for science, engineering. Lab work required. Prerequisites: CHEM 101 or one year of high school chemistry; MATH 095 or instructor permission. Recommended: READ 098.

CHEM 122 General Chemistry II [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 121.

CHEM 123 General Chemistry III [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 122.

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.

CET 141 Engineering Graphics

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.

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: CET 141 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: CET 141 or instructor permission.

CET 152 Advanced CADD Problems

3 Credits

Introduction to advanced CADD design applications associated with AutoCAD with an emphasis on customized menus and three-dimensional drawings. Oral and written reports are required. Prerequisite: CET 151 or instructor permission.

CET 160 Elementary Surveying

6 Credits

Fundamentals of plane surveying with an emphasis on chaining, levels, theodolites, global positioning, and distance measurement. Oral and written reports are required.

CET 161 Advanced Surveying

6 Credits

Advanced instruction in surveying fundamentals with an emphasis on public land laws plus construction, property, topographical, and GPS surveys. Oral and written reports are required. Prerequisite: CET 160 or instructor permission.

CET 166 Introduction to Hydrology

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

1 Credit

Explore issues related to cooperative work experience focusing on effective workplace relationships. 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.

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.

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 222.

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.

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.

CET 226 Concrete and Asphalt Pavements 3 Credits

Introduction to asphalt and concrete pavement design. Emphasizes the identification and classification of soils, engineering properties of soils, compaction of soils, aggregate gradations, bearing capacities, and ASTM laboratory test methods. Oral and written reports are required.

CET 242 Properties of Materials 4 Credits

Instruction in materials such as mineral aggregates, concrete, timber, steel, and plastic materials used for engineering projects. Oral and written reports are required.

CET 250 Introduction to GIS 3 Credits

Introduction to GIS, emphasizing coordinate systems, ArcView themes, mapping, data retrieval, data sorting, data analyzing, linking, and case studies. Written reports are required.

CET 255 Advanced GIS 3 Credits

Advanced GIS concepts with emphasis on coordinate systems, ArcView themes, mapping, data retrieval, data sorting, data analyzing, linking, and case studies. Written reports are required.

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

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

CE 100, College Experience 1 Credit

Designed to help students develop strategies to adjust to the college experience.

Commercial Truck Driving

TRK 095 Flagger Training 0.6 Credit

Planning, traffic control, stopping distances, signs and sign placement, channelization and channelization devices, tapers, and rules of contact will be addressed. Course satisfies the state requirements to function as a flagger in the state of Washington.

TRK 110 Truck Driver Training 12 Credits

Entry-level lecture training for long haul truck driving jobs and commercial driving license testing. Topics include basics of trucking industry and trucking equipment: inspection of equipment, mechanical components, brake adjustment, preventative maintenance, servicing, defensive driving techniques, cargo loading, securing load, documentation, map reading, DOT log books, trip

planning, accident and fire prevention, reporting, hazardous material transportation and documentation. Prerequisites: Pass DOT physical and mandatory drug test, have a social security card and have a satisfactory driving record for past five years.

TRK 120 Truck Driver Training - Lab 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 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 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.

Computer Science

CS 100 Introduction to Microcomputers 5 Credits

Introductory hands-on computer course intended for non-majors. Provides the beginning computer user an elementary understanding of computer hardware, the operating system, word processing, spreadsheeting, 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. Prerequisite: Instructor permission.

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. Co-requisite: CS 191.

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. Prerequisite: CS 110.

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. Prerequisite: CS 110.

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. Prerequisite: CS 110.

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. Prerequisite: CS 227.

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. Prerequisite: CT 227 or instructor permission.

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. Prerequisite: CS 110.

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. Prerequisite: CS 121 or 230.

CS 241 Programming II (JAVA/C++) 5 Credits

Introduction and implementation of data structures including queues, stacks, trees and linked lists, using C++ programming language. Topics include iterative and recursive uses in sorting and searching routines. Prerequisite: CS 131 or 141.

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. Prerequisite: CS 110. 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. Prerequisite: CS 235.

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. Prerequisite: CS 110.

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. Prerequisites: CS 110 and 220.

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. Prerequisite: CS 228.

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. Prerequisite: CS 110 or instructor permission.

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. Prerequisite: CS 265.

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. Prerequisite: CS 266.

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. Prerequisite: CS 266.

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. Prerequisite: CS 266.

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. Prerequisite: CS 266.

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. Prerequisite: CS 266.

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. Prerequisites: CS 269, 270, and 271.

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. Prerequisite: CS 110. 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. Prerequisite: Instructor permission.

CS 292 Cooperative Seminar II **1 - 3 Credits**

Students explore issues related to their cooperative work experience focusing on effective workplace relationships. Co-requisite: CS 291.

CS 297 Special Projects **1 - 5 Credits**

Project-oriented experiences in the area or applications not covered in the standard computer technology curriculum. Prerequisite: Instructor permission, based on evaluation of student's education and work experience.

Cosmetology

COSM 111 Principles and Procedures of Cosmetology I **1 - 11 Credits**

Introduction and overview of all aspects of cosmetology. Topics include bacteriology, sanitation, sterilization, draping, basic haircuts and trimming, shampoos, rinses, finger waves, pin curls, rollers, manicuring, facials, movements, permanent waves and hair color. Emphasizes safety and first aid in all instruction. Prerequisite: Instructor permission.

COSM 112 Practical Application I **1 - 11 Credits**

Introduction to the basic services of cosmetology. Practice in basic shampoos, rinses, haircuts, trimming, finger wave, roller, pin curl, manicuring, basic permanent wave, four different types of perms, introduction to color, and safety/sanitation. Prerequisite: Instructor permission.

COSM 121 Principles and Procedures of Cosmetology II **1 - 11 Credits**

Introduction to basic services of cosmetology. Topics include introduction to hair coloring and lightening, scalp treatments and hair analysis, diseases and disorders of skin and scalp, skin care, 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 / Corrections

CJ 101 Introduction to Criminal Justice [SS] 5 Credits
Examines the relationships and respective responsibilities of different criminal justice agencies. The movement through the system from initial investigation of the crime to ultimate release from confinement. Recommended: READ 098.

CJ 103 Introduction to Criminal Law 3 Credits
Introduction to the origin and structure of criminal law. Defines elements that constitute the body of criminal law for felonies, misdemeanors, and procedural application as statutory embodiments in the Washington Criminal Code.

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 106 Criminology [SS] 5 Credits
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.

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 204 Constitutional Law 5 Credits
Study of the Constitution of the United States and its provisions and amendments. Topics include various decisions of the Court involving constitutional application of due process relating to arrests, searches, seizures, confessions, and prisoner rights.

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. Recommended: READ 098.

CJ 206 Psychology for Criminal Justice [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. Prerequisite: PSY 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 250 Communicating in the Corrections Environment 5 Credits
Instruction and practical experience designed to develop the specific style of communication skills necessary to work effectively in a correctional institution. Primary goals of this course are the abilities to work within a potentially hazardous environment, issue and enforce direct orders, recognize offender manipulation, practice observation skills, read and interpret body language, problem-solve, and work within a culturally diverse population.

CJ 297 Special Projects 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

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.

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. Co-requisite: CUL 101.

CUL 103 Skill Development II 15 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.

CUL 107 Culinary Measurements and Calculations 5 Credits

Explains the basic units of measure and conversions, business management skills, and cost inventory skills necessary for kitchen management. Topics include purchasing, kitchen ratios, metric measurement, 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.

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 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 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. Co-requisite: CUL 103.

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.

CUL 192 Culinary Seminar 1 Credit

Explore issues related to culinary internship focusing on effective workplace relationships. 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.

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.

CUL 292 Cooperative Seminar 1 Credit

Explore issues related to cooperative work experience focusing on effective workplace relationships. 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

DANCE 102 Jazz and Funk Dance [PE] 1 Credit

Introductory experience in various styles of jazz dance, including: funk, hip hop, Broadway and L.A. styles for beginning male or female dancers.

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 108 Ballet and Dance Progression I [PE] 1 Credit

Introductory experience in basic ballet positions, barre, center floor work, and combinations of skills.

DANCE 109 Ballet and Dance Progression II [PE] 1 Credit

Introductory experience in basic ballet positions, barre, center floor work, and combinations of skills.

DANCE 110 Jazz II [PE] 1 Credit

Designed for intermediate dancer. Previous beginning jazz or ballet is required.

DANCE 111 Social/Ballroom Dancing [PE] 1 Credit

Introduction to several different dance styles including the Foxtrot, Cha Cha, Swing, Waltz, and Rhumba.

DANCE 112 Western/Line Dance [PE] 1 Credit

Learn different western line dances (done without a partner) and western swing (with a partner).

DANCE 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 171 Jazz Technique [PE]

2 Credits

Develop skills, techniques, and choreography of various jazz, hip hop and funk styles. Prerequisite: Instructor permission.

DANCE 172 Latin and Salsa Dance [PE]

1 Credit

Beginning level dance that focuses on the fundamental combinations and advanced level steps of Latin dances. Some of the Latin dances include Rumba, Tango, Mambo, Samba, Merengue, and Salsa. In addition, basic social dance style, etiquette, dance positions, and leading/following techniques will be learned. No previous experience, special attire or footwear is required.

DANCE 174 Swing Dance II [PE]

1 Credit

Swing dance (commonly known as the jitterbug or the shag) is an energetic couples style of social dance, made popular by the swing music of the 1940s. No previous experience or partner is needed.

DANCE 177 Advanced Jazz Dance [PE]

2 Credits

Designed for the advanced dancer. Previous dance experience and instructor permission required. Intensive study of advanced skills, techniques and choreography of various jazz, hip hop and funk styles. Prerequisite: Instructor permission.

DANCE 180 Hip Hop I [PE]

1 Credit

Hip Hop style similar to that seen on current music videos will be the style taught in this course. Students will learn and practice hip hop/Funk fundamentals and combinations. Individual skills, floor work and partner work will be emphasized. Combinations and dance will be practiced and performed to current Rap and R & B music. Street attire and comfortable athletic shoes are appropriate. No previous experience required.

DANCE 181 Hip Hop II [PE]

1 Credit

An intermediate (advanced) level dance course to strengthen hip-hop movement and combinations. Hip hop styles similar to those seen on music videos will be taught. Prerequisite: DANCE 180 or instructor permission.

Diesel Technology

DT 151 Shop Fundamentals/Forklift Training

1 - 9 Credits

Designed to introduce, perfect, and evaluate basic safety and shop skills necessary for successful completion of the Diesel Mechanics program. Consists of instruction and shop performance exercises in safety; hand and machine tool operation, use, and maintenance; hardware identification; and other basic shop skills. Forklift driver certification is also taught. Students must be seeking a certificate or degree in Diesel Equipment Mechanics.

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. 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. Students must be seeking a degree or certificate in Diesel Equipment Mechanics

DT 181 Engines I

1 - 14 Credits

In-depth study of diesel and gas 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. 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. 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 - 15 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. Prerequisite: Instructor permission.

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. 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 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. 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. 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.

Early Childhood Education

ECE 101 Introduction to Early Childhood Education**3 Credits**

Develop an understanding of the foundations of early childhood education, including an overview of the profession and historic contexts. This course includes units on understanding and enhancing child development, curriculum and instruction, the importance of play and working with parents, families and communities. Recommended: READ 088.

ECE 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 133 Music and Art for Early Educators**3 Credits**

Introduction to practice and use of music and creative activities (including songs, rhythms, body movement, and simple instruments) with young children. Topics include use of basic art materials, techniques, and equipment; planning, presentation, and supervision of creative activities and materials; and developmental sequences of child development in the studies of music and art. Recommended: READ 088. Student may not earn credit for both ECE 133 and ED 133.

ECE 136 Environments for Young Children**3 Credits**

Planning physical spaces appropriate to children's cognitive, physical, and socio-emotional development. Developing an understanding of the role of environments on children's learning and behavior, including schedules, materials, room arrangement, and center-based learning. Incorporating diversity through the environment is introduced and practiced. Recommended: READ 088.

EARLY CHILDHOOD EDUCATION

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 141 Child Development 3 Credits

Survey of the development and behavior of the child from prenatal to eight years of age. Discusses 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 (for infants, toddlers, and preschool), emotional and social development (for infants, toddler, and preschool), intellectual development (for infants, toddlers, and preschool). Recommended: READ 088. Student may not earn credit for both ECE 141 and ED 141.

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 STARS approved basic training for childcare workers and licensed family day care personnel. Emphasis on care and guidance of children birth to eight years. Course is available on WAOL each quarter and in person at WWCC summer quarter only. 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 ED 155.

ECE 160 Instructional Strategies Special Needs Children 3 Credits

Provides the technical knowledge to modify behavioral difficulties and to program efficient educational sequences to remediate specific student skill deficits. Topics include analysis of basic learning principles, considerations in selecting reinforcement, special techniques for training low-level skills, 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 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, including self-assessment 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

Opportunity to receive 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 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 and 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 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 competencies 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 ECE 231 and ED 231.

ECE 232 Childrens Literature 3 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. Provides an opportunity to experience literature from Euro-American and other cultures. Topics include selection of literature, methods of providing appropriate literary experiences for children, story telling, props, and dramatic play. 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 how various factors contribute to children's health and safety. It also focuses on the development of skills to assist the student in implementing appropriate health, safety and nutrition practices in the home and school setting. Recommended: READ 088.

ECE 236 Motor Development and Movement Education 3 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. Prerequisite: Instructor permission. 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. Gain experience in integrating past experience and knowledge of young children in planning and assisting as preschool teacher/preschool teacher's assistant. Topics include environments, curriculum evaluation, staff relationships, and code of ethics. Prerequisite: Instructor permission, successful completion of ECE 139 and ECE 291. Recommended: READ 088.

ECE 240 Programs for Infants and Toddlers **3 Credits**
Principles and theories of infant and toddler growth and development, including age appropriate activities and environments. Caregivers will learn to create safe, nurturing, predictable, cultural responsiveness to support social, emotional, cognitive and physical development. Recommended: READ 088.

ECE 242 Growth, Development and Guidance for School Aged **3 Credits**
Introduction to growth, development, and guidance of school age children in childcare settings, including but not limited to 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 291 Cooperative Work Experience II **1 - 3 Credits**
Opportunity to receive 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**
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.

Economics

ECON 200 Survey of Economics [SS] **5 Credits**
Emphasis is given to application of economic principles and concepts in solving economic problems encountered by individuals at the firm or household level up to the national level. College transfer students are encouraged to take ECON 201 and ECON 202.

ECON 201 Fundamentals of 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.

ECON 202 Fundamentals of 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 202 and AGRI 202.

Education Paraprofessional

ED 110 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.

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: Completion or co-enrollment in ED 110. Recommended: READ 088.

ED 133 Music and Art for Educators **3 Credits**
Introduction to practice and use of music and creative activities (including songs, rhythms, body movement, and simple instruments) with young children. Topics include use of basic art materials, techniques, and equipment; planning, presentation, and supervision of creative activities and materials; and developmental sequences of child development in the studies of music and art. Recommended: READ 088. Student may not earn credit for both ED 133 and ECE 133.

ED 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 ED 137 and ECE 137.

EDUCATION PARAPROFESSIONAL

ED 141 Child Development

3 Credits

Survey of the development and behavior of the child from birth to eight years of age. Discusses the characteristics of physical, intellectual, social, and emotional development of the child, birth to adolescence. Recommended: READ 088. Student may not earn credit for both ED 141 and ECE 141.

ED 155 Introduction to Exceptional Students

3 Credits

Explore the 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 ED 155 and ECE 155.

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 a formal 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 early childhood field. 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.

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 teaching procedures. 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 Literature for Educators

3 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. Provides an opportunity to experience literature from Euro-American and other cultures. Topics include selection of literature, methods of providing appropriate literary experiences for children, story telling, props, and dramatic play. Recommended: READ 088. Student may not earn credit for both ED 232 and ECE 232.

ED 236 Motor Development and Movement Education

3 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. 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.

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 early childhood field. 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

EST 100 Refrigeration and Air Conditioning Basics I 5 Credits

Provides a history of refrigeration while studying properties and laws of physics that allow the refrigeration process to work while learning to work safely with tools, piping, soldering, and brazing. Topics include theory of heat, matter and energy, refrigeration and refrigerants, safety practices, tools and equipment, fasteners, tubing and piping.

EST 101 Refrigeration and Air Conditioning Basics II 5 Credits

Explores the basics of calibrating instruments, refrigerant and oil management, system charging, and operation of package air conditioners. Topics include room air conditioners and room heat pumps, PTAC, PTHP, electrical and mechanical troubleshooting, recovery, evacuation and charging. Prerequisite: EST 100 or instructor permission.

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 120 Air Conditioning Systems 6 Credits

Applies the basic requirements for residential and small commercial split system and central air conditioners is covered with emphasis placed on finding and repairing faults in typical equipment. Knowledge of comfort and psychometrics, system installation, operating and safety controls, typical operating conditions, and troubleshooting. Prerequisites: EST 100 and 101; or instructor permission.

EST 130 Introduction to Controls 6 Credits

Introduction to the basic principles of controls and instrumentation used for operating and safety controls used in measurement, transmission and control applicable to many industries. Topics include terminology, symbols, operating principles and application of instruments used in various industries. Labs will vary by industry.

EST 131 Principles of Electricity Theory 5 Credits

Introduction to basic DC and AC electrical theory, instruments, wiring, electrical sources, and application. The student will acquire a basic knowledge of electrical safety, theory, vocabulary, and calculations of series, parallel, and combination circuits involving Direct and Alternating Current.

EST 132 Principles of Electricity AC Application 5 Credits

Introduction to basic DC and AC electrical theory, containing capacitors, single and three-phase wiring, transformers, generators, alternators, motors and application. Acquire a 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. Recommended: EST 131.

EST 144 Industrial Safety in the Workplace 3 Credits

OSHA standards, medical first aid, emergency response, safety procedures and care/use of equipment are discussed. Topics include safe use of ladders, scaffolds, platforms, and power tools; First Aid, CPR, fire extinguishers, ventilation and employer safety responsibilities will also be discussed.

EST 150 Electric Motor and Controls 8 Credits

The practical aspects of single and three phase motors and motor controls are covered. Students will learn electrical symbols and line diagrams, basic electricity and magnetism, automatic and electronic controls, electric motors, and circuits. Prerequisite: EST 131 or 132; or instructor permission.

EST 159 Hydraulics and Pneumatics 3 Credits

Explores the basic principles and understanding of hydraulic and pneumatic systems, using industry terminology, symbols, components, safety, calculations, operations and maintenance.

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. 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 2 - 3 Credits

Design, fabrication, and installation of ductwork required in heating and air conditioning systems are covered. Prerequisite: Instructor permission.

EST 220 Ammonia Refrigeration Systems 4 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 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 Programmable Controllers 5 Credits

Provides terminology, programming, and troubleshooting of industrial programmable logic controllers. Students gain knowledge of language, components, hands-on interfacing, programming with hand-held and PC computers. Prerequisite: EST 150 or instructor permission.

EST 254 Generators / Alternators / Transformers 6 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 1 Credit

Introduction to the National Electrical Code to familiarize students with legal codes concerning electrical safety. Students learn how to find applicable sections of code relating to their trade. Topics include code definitions, single family, multi-family, commercial, and hazardous area code requirements. Current RCW and WAC Rules will also be discussed.

EST 264 Heating Systems and Heat Pumps 7 Credits

An operational understanding required to maintain and repair residential and heating equipment in residential and commercial installations will be covered. Students acquire basic knowledge in heat loss and heat gain, operation and electrical for: electric heat, gas heat, oil heat, hydronic 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. Knowledge of commercial refrigeration systems with emphasis on analyzing system operation and faults. 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

ENG 059 Vocabulary 1 - 2 Credits

Learn to improve communication skills by broadening vocabulary. Instruction is individualized and based on students' goals.

ENG 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.

ENG 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.

ENG 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 ENG 077.

ENG 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.

ENG 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.

ENG 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.

ENG 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.

ENG 096 Spelling II 1 - 2 Credits

Continuance of ENG 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 ENG 086.

ENG 097 Basic Expository Writing 1 - 5 Credits

Focuses on development of critical thinking and composition of well-developed paragraphs and essays. Prerequisite: Appropriate placement score or grade of C or higher in ENG 087.

ENG 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 ENG 097. [C]

ENG 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 ENG 101.

ENG 120 Creative Writing I 3 Credits

Literary techniques and forms and encourages writing of original works of fiction and poetry will be explored. While acknowledged writers may serve as examples of the craft of writing, the emphasis of the course lies in developing one's own unique style through various creative approaches.

ENG 130 Creative Writing II

3 Credits

Literary techniques and forms and encourages writing of original works of fiction and poetry will be explored. While acknowledged writers may serve as examples of the craft of writing, the emphasis of the course lies in developing one's own unique style through various creative approaches.

ENG 140 Creative Writing III

3 Credits

Literary techniques and forms and encourages writing of original works of fiction and poetry will be explored. While acknowledged writers may serve as examples of the craft of writing, the emphasis of the course lies in developing one's own unique style through various creative approaches.

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 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

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**5 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 Employment**3 Credits**

Provides insights and experiences necessary to become a successful job applicant in the wine industry. Investigate the employers' perspective, competitive job seeking, resume and application writing, networking and interview procedures.

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 varietals 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 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.

EV 192 Cooperative Seminar**1 Credit**

Explore issues related to cooperative work experience focusing on effective workplace relationships. 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**5 Credits**

In this advanced enology course, students are responsible for fruit processing in an actual commercial setting. Through hands-on experience, students will gain a knowledge of winery equipment such as forklifts, crusher/destemmers, presses, tanks, pumps and heating/cooling systems. Topics include winemaking principles such as fruit selection, fruit processing, juice additions, alcoholic and malo-lactic fermentation, as well as winery hygiene. Prerequisites: Must be at least 21 years old or by instructor permission.

EV 204 Science of Winemaking II**5 Credits**

Emphasizes the chemistry of winemaking. Students will learn wine composition, wine analytical techniques, and the relevance of these analyses to winemaking decisions. Students will also gain hands-on experience participating in winery operations such as racking, topping, blending, filtration and bottling. Prerequisites: At least 21 years old, successful completion of EV 203, MATH 065, and one of the following: CHEM 101, AGPR 120 or CHEM 121.

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 **3 Credits**
Preparation for the State of Washington pesticide-licensing exam with a special focus on wine grapes. Successful completion of this course and the state exam will result in issuance of the Washington State Pesticide License.

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

ESCI 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 ENG 087; or permission of the Science Division Chair or designee. Recommended: READ 098. Student may not earn credit for both ESCI 101 and AGPR 101.

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 course 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 course 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 course 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

FRR 125 Farrier Short Course 21 Credits

Intensive six-week course designed to introduce a beginner to the needs and demands of the farrier profession. This course will give students the knowledge and skills to successfully shoe horses. This course is offered Summer quarter only.

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 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 105 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 113. Recommended: MATH 065.

FCA 111 Fundamentals of Firefighting

5 Credits

Provides an introduction to firefighting fundamentals according to National Fire Protection Association (NFPA) standards and includes a practicum element. Topics include personal protective equipment, search and rescue techniques, health and safety, fire behavior, incident command systems, ladders and ventilation, and hazardous materials.

FCA 115 Advanced Firefighting

8 Credits

Taught according to the standards of the National Fire Protection Association (NFPA) and is the final segment in the FCA 111, FCA 113, and FCA 115 series. The course expands on the topics covered in the previous courses and will include hydraulics, sprinkler systems, fire prevention education, investigation, and multi-company operations. Upon completion of this segment, the student will be able to take the test for Level 1 Firefighter conducted by the state Fire Protection Bureau. Those who successfully complete the test will receive a certificate from the International Fire Service Accreditation Congress (IFSAC) that is recognized in 35 states and 19 countries. Prerequisite: FCA 111 or instructor permission.

FCA 120 Fire Investigation

3 Credits

Basic study of fire scene investigation procedures and techniques used to determine the origin and cause of fire. Topics include accurate determination of the origin and cause of fire, systematic approach to fire scene examination, chemistry of fire, accidental and incendiary fire causes, scene sketching, scene photography, note taking, and Washington State Criminal statutes. Additionally basic scene security, major fire scene control, report writing, interviewing, and courtroom demeanor for the firefighter and investigator will be discussed. Prerequisite: FCA 115 or instructor permission.

FCA 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

FREN 101 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.

FREN 102 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: FREN 101 or instructor permission.

FREN 103 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: FREN 102 or instructor permission.

FREN 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: FREN 103 or instructor permission.

FREN 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: FREN 201 or instructor permission.

FREN 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: FREN 202 or instructor permission.

Geography

GEOG 105 Physical Geography [NS] 5 Credits

The earth is a dynamic system that provides the exact combination of interrelated components to support life as we know it as this time. Introduces all aspects of earth systems, identifying physical phenomena and stressing their distribution and relationships. It will place a special emphasis on human-environmental relationships. Prerequisite: Appropriate placement score or grade of C or higher in ENG 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 ENG 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.

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 ENG 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 095; appropriate placement score or grade of C or higher in ENG 087; or permission of the Science Division Chair or designee. Recommended: READ 098; word processing and spreadsheet skills.

Geology

GEOL 101 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 ENG 087; or permission of the Science Division Chair or designee. Recommended: READ 098.

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 ENG 087; or permission of the Science Division Chair or designee. Recommended: READ 098.

GEOL 120 Environmental Earth Science [NS] 5 Credits

A multi-disciplinary course designed to furnish the student with the basic background to understand the dynamic earth and the natural and cultural processes that affect the lithosphere, hydrosphere, and atmosphere. Lab work required. Prerequisite: Appropriate placement score or grade of C or higher in ENG 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 ENG 087; or permission of the Science Division Chair or designee. Recommended: READ 098.

GEOL 201 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 ENG 087; or permission of the Science Division Chair or designee. Recommended: READ 098.

GEOL 210 Pacific Northwest Geology [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 ENG 087; or permission of the Science Division Chair or designee. Recommended: READ 098.

Health Occupations

HO 024 Revised Fundamentals of Caregiving 2.8 Credits

Focuses on basic caregiving requirements, client rights, communication and problem solving skills, protecting the health and safety of residents, and performing personal care skills. Students who complete this class will receive a training certificate in Revised Fundamentals of Caregiving, which satisfies Washington State DSHS/ADSA requirements for employment as a caregiver in residential care settings.

HO 025 Modified Fundamentals of Caregiving 2.8 Credits

A self-study course focusing on regulations, self-directed care, assessment, observation, and service planning. Students who complete this class will receive a training certificate in Modified Fundamentals of Caregiving, which satisfies Washington State DSHS/ADSA requirements for employment as a caregiver in residential care settings. Students may take the Modified Fundamentals of Caregiving self-study course if they have completed training as a NA-C, Medicare Certified Home Health Aide, OT RN, LPN, PT.

HO 027 Nurse Delegation for Nursing Assistants 0.9 Credit

Outlines the caregiver's educational requirements for Nurse Delegation in community-based long-term care settings. This course meets Washington State DSHS/ADSA requirements for training in Nurse Delegation. Students must be a NA-C, NA-R, or be co-enrolled in the Nursing Assistant program to take this course. Students completing this course will receive a training certificate.

HO 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 Tuberculosis screening. Tuition plus a 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 ENG 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.

HEALTH OCCUPATIONS/HIGH SCHOOL COMPLETION

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 willing to provide insurance.

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: BIO 210 or 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. Much of the course will focus on medications used in surgery.

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 ENG 097; or instructor permission.

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.

High School Completion

HSC 037 U.S. History

1 - 5 Credits

The history and culture of the United States from approximately 1876 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 on understanding the scientific method in preparation for advancement to college level science courses.

History

HIST 101 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 101 and 105.

HIST 102 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 102 and 107.

HIST 103 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 103 and 109.

HIST 105 World History [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 105 and 101.

HIST 107 Early Modern Civilization [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 107 and 102.

HIST 109 Modern Civilization [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 109 and 103.

HIST 120 American Presidency [SS]**5 Credits**

A historical and analytical examination of the office of the Presidency. Focuses on the evolutionary changes in the power of the office and the consequences for leadership in America. Recommended: READ 098. Student may not earn credit for both HIST 120 and PSCI 120.

HIST 201 American 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.

HIST 202 American 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.

HIST 203 American History III [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 surveys the significant forces and people that have shaped American civilization from the Progressive Era to the present. Recommended: READ 098.

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 210 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.

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 attention to both the policy makers and critics of our nation's position on significant international issues from the colonial period to the Great War. Recommended: READ 098. Student may not earn credit for both HIST 211 and PSCI 211.

HIST 212 U.S. in World Affairs II [SS]**5 Credits**

Examination of American involvement in international affairs since 1898. Study includes America's foreign policy and actions as a world power with attention to both the policymakers and critics of the nation's position in significant international issues. Recommended: READ 098. Student may not earn credit for both HIST 212 and PSCI 212.

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 [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 280 Women in U.S. History [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 280 and WST 280.

Humanities

HUM 101 Introduction to Humanities I [H] 5 Credits
Study of selections of art, theatre, music, literature, philosophy, architecture and culture in the ancient world.

HUM 102 Introduction to Humanities II [H] 5 Credits
Study of selections of art, theatre, music, literature, philosophy, architecture and culture in the middle ages and the renaissance.

HUM 103 Introduction to Humanities III [H] 5 Credits
Study of selections of art, theatre, music, literature, philosophy, architecture and culture in the modern world.

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 American Culture in 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: ENG 097.

HUM 110 Four Perspectives [H] 5 Credits
Exploration of teachings of Pythagoras, the Buddha, Jesus Christ, and Galileo.

HUM 201 Latino Arts and Culture I [H] 3 Credits
Examination of current-day Hispanic-Latino culture in the United States as represented in film, video, and Latino popular music.

HUM 202 Latino Arts and Culture II [H] 3 Credits
Examination of current-day Hispanic-Latino culture in the United States as represented in art, literature, poetry, the current socio-political perspectives.

HUM 299 Special Topics 1 - 5 Credits
Opportunity for students to pursue special interests and topics in the humanities. Requires working with humanities faculty to develop a project and to determine the research and presentational methods as well as outcomes to be achieved and assessed.

Industrial First Aid

IFA 022 Medic First Aid Basic .4 Credit
A fundamental training program in emergency care that incorporates CPR and other emergency skills into a single course. Emphasizes utilizing the priorities of care and approach to the patient as demonstrated by professional emergency care providers. The core program provides minimum information and skills for a variety of environments and can be supplemented with additional first aid topics specific to the needs of the course participants. Available on-campus as well as on a contract basis throughout Walla Walla and Columbia counties.

IFA 023 Medic First Aid Re-Certification .2 Credit
A review of basic Medical First Aid that provides the student with CPR training and other emergency skills. Priorities of care are reviewed, and key components of the basic course are demonstrated. In order to take the re-certification course, the basic course must have been taken within the prior two-year period. Students must have Medic First Aid card issued within the last two years to enroll.

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 JD 101 and JDAS 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**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 JD 221 and JDAS 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.

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**5 Credits**

Offers students an opportunity to receive on-the-job work experience in a John Deere Dealership. Students apply and utilize skills learned on campus. Student may not earn credit in both JDAS 290 and JD 290.

JDAS 297 Special Projects**1 - 16 Credits**

Project-oriented experiences in the area or applications not covered in the standard John Deere curriculum. Prerequisite: Instructor permission, based on evaluation of student's education and work experience

John Deere Technology

JD 101 John Deere Fundamentals and Orientation**1 - 3 Credits**

Introduction to manuals, service advisor information system, engine classifications, and serial numbers. Warranty, work orders, and John Deere recommended service department policies and procedures are explained. Orientation of John Deere product lines and the evolution of these products. The safe operation of shop tools will be demonstrated and a forklift safety and operation test will be included. Student may not earn credit in both JD 101 and JDAS 101.

JD 102 Forklift Safety Training and Certification**1 Credit**

Designed to meet the new OSHA requirements for lift truck operator training and certification. Safe lifting/chaining and moving of loads will be demonstrated and discussed.

JD 110 John Deere Theory of Engine Operations**3 Credits**

Provides basic physical principles, operation, and construction of two- and four-stroke cycle engines. Topics include ignition timing of four-stroke cycle engines, basic diagnostic engine test procedures, and types of internal combustion engine cooling systems. Student may not earn credits for both JD 110 and JDAS 110.

JD 115 John Deere Electrical**8 Credits**

Provides basic electrical principles and applications of magnetism, electromagnetism, and the safe utilization of electrical test meters. Principles of operation, testing and repair of ignition systems, cranking systems, and charging systems are demonstrated and practiced. Student may not earn credit for both JD 115 and JDAS 115.

JD 120 John Deere Heating and Air Conditioning**4 Credits**

Theory, operation, and repair of late model John Deere air conditioning, heating, and ventilation systems are discussed. Recovery, recycling, and recharging of the air conditioning systems are demonstrated and practiced.

JD 125 John Deere Diesel and Gasoline Fuel Systems**4 Credits**

Theory, operation, construction, testing, and repair methods for spark ignition and compression ignition fuel systems are explored. Topics include relationship of valve timing, ignition, and injection timing to normal combustion. Theory and repair practices are demonstrated and discussed.

JD 130 John Deere Engine Repair**6 Credits**

Basic theory, construction, and operation of gas and diesel engines are analyzed. Topics include disassembly, inspection, measurement, reassembly, and adjustments to John Deere diesel and gas engine components.

JD 135 John Deere Tractor Performance 3 Credits

Provides proper performance of John Deere agricultural tractors. Techniques and procedures for determining percentage of tractor slippage and ballast are demonstrated, practiced and corrections made in actual field conditions. Dynamometer operation, test procedures, and safety are demonstrated. Student may not earn credit for both JD 135 and JDAS 135.

JD 190 Cooperative Work Experience I 16 Credits

Offers students an opportunity to receive on-the-job work experience in a John Deere Dealership. Students apply and utilize skills learned on campus. Student may not earn credit in both JD 190 and JDAS 190.

JD 191 Cooperative Work Experience II 16 Credits

Opportunity to receive on-the-job work experience in a John Deere Dealership. Students apply and utilize skills learned on campus. Prerequisite: JD 190. Student may not earn credit in both JD 191 and JDAS 191.

JD 199 Special Topics 1 - 10 Credits

Study and train to meet established local needs in the John Deere industry, supplemental to courses currently offered. Prerequisite: Instructor permission.

JD 205 John Deere Hydraulics 9 Credits

The principles and application of fluid flow and hydraulic components are discussed. Testing and repair of low- pressure and high-pressure systems and control circuits are explained, demonstrated, and practiced. Offered to second year students only. Student may not earn credit in both JD 205 and JDAS 205.

JD 210 John Deere Power Train 9 Credits

Theory of power transmission from engine to traction wheels are discussed. Topics include function and operation of gears, chains, clutches, planetary gears, drive lines, differentials, and transmissions. Complete disassembly, inspection, and reassembly to specification are practiced. Offered to second year students only.

JD 215 John Deere Cab/Chassis Electrical and Electronics 4 Credits

Review of electrical fundamentals, basic electronics, and electrical diagnostics. Topics include techniques of electrical and electronic circuit diagnostics and reading electrical schematics.

JD 221 Ag Management Solutions 2 Credits

Provides basic knowledge and skills that enable students to market, and support solutions that feature products from Ag Management Solutions. Much of this training is designed specifically to enable the student to understand the different applications of global positioning systems and precision farming practices - students will apply problem-solving skills. Student may not earn credit in both JD 221 and JDAS 221.

JD 225 John Deere Planting Equipment 3 Credits

Provides proper performance of John Deere planting equipment. Topics include theory, design, principles of operation, proper setup and adjustment of all planting equipment. Student may not earn credit for both JD 225 and JDAS 225.

JD 230 John Deere Harvesting Equipment 4 Credits

Performance of John Deere harvesting equipment will be analyzed. Topics include theory, design, principles of operation, proper set-up and adjustment of all harvesting equipment. Emphasis on

combines, hay, and forage equipment. Student may not earn credit for both JD 230 and JDAS 230.

JD 235 John Deere Advanced Hydraulics II 4 Credits

Explores principles, function, and application of electric over hydraulic circuits as found on row crop, 4-WD, and combines. Construction, fluid flow, electrical flow, and testing of systems are explained, demonstrated, and practiced.

JD 240 John Deere Advanced Power Training II 4 Credits

Explores principles, function, and application of electronic controlled transmissions as found on row crop, 4-WD, and other agriculture equipment.

JD 290 Cooperative Work Experience III 16 Credits

Offers students an opportunity to receive on-the-job work experience in a John Deere Dealership. Students apply and utilize skills learned on campus. Prerequisite: JD 191. Student may not earn credit in both JD 290 and JDAS 290.

JD 297 Special Projects 1 - 16 Credits

Project-oriented experiences in the area or applications not covered in the standard John Deere curriculum. Prerequisite: Instructor permission, based on evaluation of student's education and work experience.

Library

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.

Literature

LIT 111 Arthurian Literature [H] 3 Credits

Survey of selected Arthurian legends found in literature, film, music and art from the middle ages to the modern period.

LIT 120 Baseball Literature and American Culture [H] 3 Credits

Examines the short stories, poetry, and novels 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. Works studied include those by Lardner, Runyon, Kinsella, Stein, and Harris.

LIT 140 Introduction to Literature [H] 5 Credits

Introduction to poetry, fiction, drama, and non-fiction from around the world.

LIT 141 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.

LIT 142 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.

LIT 144 Introduction to Film [H] 5 Credits

Study of selected films with emphasis on story, character, and criticism.

LIT 147 Comic Books and Graphic Novels [H] 5 Credits

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.

LIT 149 Classic Childrens Literature [H] 5 Credits

Introduction to literary fiction directed to children.

LIT 210 Myth and Folklore [H] 5 Credits

Study of the myths and folktales of the world with an emphasis on literature and culture.

LIT 212 African-American Literature [H] 3 Credits

An overview, analysis, and celebration of major African-American writers.

LIT 245 American Literature [H] 5 Credits

Study of influential American literary voices and styles from settlement times through the present.

LIT 250 Literature of American Immigration [H] 5 Credits

Examines the American immigrant experience through literature-fiction, poetry, personal memoir, and letters.

LIT 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 LIT 251 and WST 251.

LIT 256 Literature of the American West [H] 5 Credits

Examines the Western experience and mythology in Literature.

LIT 257 Literature of the Inland Northwest [H] 5 Credits

Examines the historical and contemporary literature of the Inland Northwest in fiction, poetry, personal memoir, and letters from various cultures.

LIT 260 Modern Hispanic and Latino Literature [H] 5 Credits

Study of modern Hispanic writers in English translation.

LIT 261 Native American Literature [H] 3 Credits

Study of traditions, cultures, myths, roles, and problems facing Native Americans through essay, narrative, story, oratory, poetry, film, and song. Recommended: READ 098.

LIT 265 World Literature [H] 5 Credits

Introduction to some of the world's great literary traditions, both ancient and modern, featuring poetry, story, and drama.

LIT 270 Detective and Spy Novels [H] 3 Credits

Survey of selected thriller literature from 1840 to the present.

LIT 271 Science Fiction and Fantasy Literature [H] 5 Credits

Study of science fiction and fantasy genres with an emphasis on their emergence as significant literature.

LIT 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.

LIT 277 The Bible as Literature [H] 3 Credits

Introductory study of the principle forms of literature represented in the Bible.

Mathematics

MATH 049 Mathematics I 5 Credits

Basic mathematical concepts with an emphasis on practical application and consumer-related word problems. Also deals with the fundamental operations of whole numbers, fractions, decimals, and percentages. Provides an introduction to measurement, graphs, exponents, integers, and informal geometry including perimeter, area, volume, and basic construction. Prerequisite: Appropriate placement score or instructor permission.

MATH 050 Mathematics II 5 Credits

Bridges the gap between arithmetic and algebra. Topics include arithmetic review, informal geometry, measurement, signed numbers, linear equations and inequalities, polynomials, and graphing. Prerequisite: Appropriate placement score; grade of C- or higher in MATH 049 or instructor permission.

MATH 054 Special Topics in Math 1 - 5 Credits

Specific math needs are met for individual students. Student and instructor determine areas of emphasis.

MATH 065 Introductory Algebra 5 Credits

The first of a two-course series covering the basics of algebra (MATH 065, 095). Topics include variables and their applications working with algebraic expressions, solving equations, and an introduction to graphing linear and quadratic functions. Prerequisite: Appropriate placement score or grade of C- or higher in MATH 050, or permission of Mathematics Department.

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 Mathematics: A Practical Experience [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.

MATH 109 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.

MATH 110 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 109 or permission of the Mathematics Department.

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 121 Survey of 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.

MATH 124 Calculus With Analytic Geometry 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 110 or permission of the Mathematics Department.

MATH 125 Calculus With Analytic Geometry II [NS, Q] 5 Credits

Continuance of MATH 124, 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 124 or permission of the Mathematics Department.

MATH 126 Calculus With Analytic Geometry III [NS, Q] 5 Credits

Continuance of MATH 125, topics include differential equations, infinite sequences and series, parametric curves, vectors, and surfaces. Prerequisite: Grade of C- or higher in MATH 125 or permission of Mathematics Department.

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 126 or permission of the Mathematics Department.

MATH 224 Calculus and Analytical Geometry 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 126 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 126 or permission of the Mathematics Department.

Medical Assisting

MEDA 105 Health Occupations Mathematics 5 Credits

Intensive practical math designed for individuals entering the health occupations industry. Prerequisite: Appropriate placement score.

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 Internship 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 1 Credit

Discuss experiential activities in the clinical setting as well as the legal and ethical issues encountered, and will have the opportunity to ask questions and receive input from the instructor. Additionally, students will receive guidance and preparation for participation in post graduation certification examinations. Co-requisite: MEDA 191.

Music

MUS 101 Music Appreciation [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.

MUS 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.

MUS 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: MUS 102 or instructor permission.

MUS 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: MUS 103 or instructor permission.

MUS 106 Music Theory I [HP] 5 Credits

Basic musical concepts and terminology through analysis, listening and keyboard practice; part writing, composition; ear training and sight singing.

MUS 107 Music Theory II [HP] 5 Credits

Basic musical concepts and terminology through analysis, listening and keyboard practice; part writing, composition; ear training and sight singing. Prerequisite: MUS 106 or instructor permission.

MUS 108 Music Theory III [HP] 5 Credits

Basic musical concepts and terminology through analysis, listening and keyboard practice; part writing, composition; ear training and sight singing. Prerequisite: MUS 107 or instructor permission.

MUS 110 History of American Music [H] 5 Credits

An audiovisual tour of America's truly original music, jazz, from European and West African roots, to the blues of the Mississippi Delta and the birth of jazz in New Orleans, to the music of Louis Armstrong, Duke Ellington, John Coltrane, Wynton Marsalis and many others.

MUS 113 Choral Singing I 1 - 3 Credits

Beginning instruction in the techniques of group vocal performance in preparation for the summer musical.

MUS 114 Choral Singing II 3 Credits

Intermediate instruction in the techniques of group vocal performance in preparation for the summer musical.

MUS 115 Choral Singing III 3 Credits

Advanced instruction in the technique of group vocal performance in preparation for the summer musical.

MUS 116 College Voice I [HP] 1 - 2 Credits

Voice training for interested students who can benefit from the study of the fundamentals of singing.

MUS 117 College Voice II [HP] **1 - 2 Credits**
Voice training for interested students who can benefit from the study of the fundamentals of singing.

MUS 118 College Voice III [HP] **1 - 2 Credits**
Voice training for interested students who can benefit from the study of the fundamentals of singing.

MUS 121 Stage/Pep Band I **2 Credits**
Continue musical interest in a band setting. Student must demonstrate reasonable proficiency on a band instrument and ability to participate in a group situation to enroll.

MUS 122 Stage/Pep Band II **2 Credits**
Continue musical interest in a band setting. Student must demonstrate reasonable proficiency on a band instrument and ability to participate in a group situation to enroll.

MUS 123 Stage/Pep Band III **2 Credits**
Continue musical interest in a band setting. Student must demonstrate reasonable proficiency on a band instrument and ability to participate in a group situation to enroll.

MUS 126 Jazz Combo I [HP] **1 - 3 Credits**
Jazz combos give students an opportunity to play jazz in a small group format, concentrating on improvisation in many different styles. The combos perform regularly including concerts and professional engagements. Prerequisite: Instructor permission.

MUS 127 Jazz Combo II [HP] **1 - 3 Credits**
Jazz combos give students an opportunity to play jazz in a small group format, concentrating on improvisation in many different styles. The combos perform regularly including concerts and professional engagements. Prerequisite: Instructor permission.

MUS 128 Jazz Combo III [HP] **1 - 3 Credits**
Jazz combos give students an opportunity to play jazz in a small group format, concentrating on improvisation in many different styles. The combos perform regularly including concerts and professional engagements. Prerequisite: Instructor permission.

MUS 130 Piano Fundamentals/Blues **1 - 2 Credits**
A hands-on approach to America's truly original music, the Blues. Basic piano techniques will be learned in a course piano setting with an emphasis on the improvisatory and universal language of the blues.

MUS 131 Applied Music I **1 - 2 Credits**
Private music lessons with a college-approved instructor. Two college transfer credits are granted for a one-hour lesson per week, and one credit for a half-hour lesson per week. Appropriate practice hours per lesson required.

MUS 132 Applied Music II **1 - 2 Credits**
Private music lessons with a college-approved instructor. Two college transfer credits are granted for a one-hour lesson per week, and one credit for a half-hour lesson per week. Appropriate practice hours per lesson required.

MUS 133 Applied Music III **1 - 2 Credits**
Private music lessons with a college-approved instructor. Two college transfer credits are granted for a one-hour lesson per week, and one credit for a half-hour lesson per week. Appropriate practice hours per lesson required.

MUS 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.

MUS 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.

MUS 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.

MUS 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.

MUS 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.

MUS 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.

MUS 161 Vocal Ensemble I [HP] **2 Credits**
Choral participation providing vocal experience for all interested students who have a background in music and singing.

MUS 162 Vocal Ensemble II [HP] **2 Credits**
Choral participation providing vocal experience for all interested students who have a background in music and singing.

MUS 163 Vocal Ensemble III [HP] **2 Credits**
Choral participation providing vocal experience for all interested students who have a background in music and singing.

MUS 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.

MUS 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: MUS 108 or instructor permission.

MUS 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: MUS 206 or instructor permission.

MUS 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: MUS 207 or instructor permission.

MUS 216 College Voice IV [HP] **1 - 2 Credits**
Voice training for interested students who can benefit from the study of the fundamentals of singing.

MUS 217 College Voice V [HP] **1 - 2 Credits**
Voice training for interested students who can benefit from the study of the fundamentals of singing.

MUS 218 College Voice VI [HP] **1 - 2 Credits**
Voice training for interested students who can benefit from the study of the fundamentals of singing.

MUS 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.

MUS 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.

MUS 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.

MUS 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.

MUS 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.

MUS 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.

MUS 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.

MUS 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.

MUS 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.

MUS 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.

MUS 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.

MUS 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.

MUS 261 Vocal Ensemble IV [HP] **2 Credits**
Choral participation providing vocal experience for all interested students who have a background in music and singing.

MUS 262 Vocal Ensemble V [HP] **2 Credits**
Choral participation providing vocal experience for all interested students who have a background in music and singing.

MUS 263 Vocal Ensemble VI [HP] **2 Credits**
Choral participation providing vocal experience for all interested students who have a background in music and singing.

MUS 299 Special Projects **1 - 5 Credits**
Provides an opportunity for individual and small group vocal or instrumental preparation and performance.

Nursing

NURS 100 Fundamentals of Nursing **6 Credits**
Fundamental principles underlying nursing care are presented. The focus is upon providing care to middle adult and geriatric clients. The concepts of critical thinking, caring, and professional behavior are introduced. Content related to communication, human relationships, health promotion, maintenance, and restoration, medical asepsis, use of the nursing process and medication administration is presented. Prerequisite: Admission to Nursing program. Co-requisite: NURS 110 and 196.

NURS 101 Beginning Nursing Concepts I **6 Credits**
A continuation of the principles of nursing care introduced in NURS 100. The focus is on providing care for clients of all ages who are experiencing normal life processes or common/chronic disease processes in selected systems. Prerequisites: NURS 100 and 110. Co-requisite: NURS 111.

NURSING – OCCUPATIONAL SUPPORT

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.

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, 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.

NURS 212 Practicum V

6 Credits

An application of theory from NURS 202. The focus is on providing care for clients in acute care, psychiatric settings and in the community. Each student completes a preceptored experience as a transition to practice as a registered nurse. Prerequisites: NURS 201 and 211. Co-requisite: NURS 202.

NURS 232 Professional Development III

1 Credit

Part three of a three-part course on professional development. This course expands on the legal and ethical responsibilities in nursing and prepares the student for the responsibilities of the RN role. Prerequisite: NURS 197. Co-requisite: NURS 201 and 211.

NURS 297 Special Projects

1 - 5 Credits

Project-oriented experiences in the area or applications not provided or covered in the standard nursing curriculum. Prerequisite: Instructor permission, based on evaluation of student's education and work experience.

Nutrition

NUTR 165 General 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 ENG 087; or permission of the Science Division Chair or designee. Recommended: READ 098; CHEM 101 or high school chemistry.

Occupational Support

OCSUP 076 Career Pathways I

2 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 health care environment. Prerequisite: Permission of the Transitional Studies Department.

OCSUP 077 Career Pathways II

2 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 health care environment. Prerequisite: Permission of the Transitional Studies Department.

OCSUP 078 Career Pathways III

2 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 health care 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 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: Appropriate placement score or grade of C- or higher in OCSUP 106.

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

OCE 101 Introduction to Oceanography [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 ENG 087; or permission of the Science Division Chair or designee. Recommended: READ 098.

Office Technology

OT 024 Keyboarding

3 Credits

Introduction to the keyboard for beginning keyboard users or for students wishing to review the keyboard by touch.

OT 025 Keyboard Speed-Building

1 - 5 Credits

Provides opportunity to increase keyboarding speed and accuracy. Course includes assessment and/or correction of technique plus the use of software programs designed to work on individual accuracy and speed weaknesses. Ability to key by touch required to enroll.

OT 115 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: BA 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: BA 136 and OT 120.

OT 120 Document Editing

5 Credits

Fundamental course in proofreading and editing skills. Develops skills in proofreading to detect errors in capitalization, content, format, grammar, number usage, punctuation, spelling, word division, and word usage in business documents. Recommended: BA 136.

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 128 Voice Processing and MOUS Certification 5 Credits

Addresses current trends for high performance office professionals. Word processing through voice input rather than keyboard is learned using voice recognition software. Skill assessment software and course activities prepare students for the Microsoft Office Specialist (MOS) Certification exam taken on-line through Microsoft Corporation at the completion of the quarter. Prerequisite: OT 126. Recommended: OT 127 and BA 217.

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: BA 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.

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 and Turf Equipment Technician

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 3 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.

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 - 7 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 Hydraulics and Power Trains 1 - 17 Credits

Comprehensive study of hydraulic and power train fundamentals, component repair and diagnostics necessary for EETC Technician Certification. Includes troubleshooting of hydrostats, tranaxles, clutches, brakes and drive axles. Prerequisite: TST 156 or instructor permission.

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 1 Credit

Explore issues related to their cooperative work experience focusing on effective workplace relationships. Co-requisite: TST 191.

TST 199 Special Topics 1 - 5 Credits

Study and train to meet established local needs in the turf equipment industry, supplemental to courses currently offered. Prerequisite: Instructor permission.

TST 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

PHIL 101 Introduction to Philosophy I [H] 5 Credits

Study of the basic ideas in western philosophy. Recommended: READ 098 and ENG 097.

PHIL 103 Asian Philosophy [H] 5 Credits

The central ideas, metaphors, and images of Hinduism, Buddhism, and Taoism.

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 ENG 097.

PHIL 220 Symbolic 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.

Physical Education and Recreation

HPER 103 Cross Training Cardio [PE] 1 Credit

A total body workout combining kickboxing, step, intervals, resistance training, pilates, sports conditioning, dance and just about anything cardio or sculpting. Designed to help cross train your body. Abdominal training included.

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 110S Scuba Diving [PE] 1 Credit

Instruction and practice in the basic equipment, techniques, safety, and applications of scuba diving.

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.

HPER 113 Recreational Games [PE] 1 Credit

Sports activity course emphasizing games for various age and skill groups.

HPER 114 Soccer [PE] 1 Credit

Sports activities course emphasizing the skills, rules, strategies, and methods of play in soccer.

HPER 115 Softball [PE] 1 Credit

Sports activity course emphasizing rules, skills, and strategies of softball.

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.

HPER 119 Beginning Volleyball [PE] 1 Credit

Emphasizes the rules, skills, and strategies of volleyball.

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 126 Ice Skating I [PE] 1 Credit

Sports activity course emphasizing the skills, techniques and safety components associated with ice skating.

HPER 127 Ice Skating II [PE] 1 Credit

Sports activity course emphasizing the skills, techniques and safety components associated with ice skating.

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.

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 [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 149 Flag Football [PE] 1 Credit

Sports activities course emphasizing the safety, rules, skills, and strategies of flag football.

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.

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 163 Advanced Volleyball [PE] 1 Credit

Sports activities course emphasizing the rules and the advanced skills, methods, techniques, and strategies of volleyball.

HPER 164 Tae Kwon Do I [PE] 1 Credit

Students will learn all of the blocks, kicks, strikes, and forms to move beyond the World Taekwondo Federation white belt level. Self-

defense and physical conditioning are also major components of the course. All ability levels are accommodated. Offered for beginners with no Taekwondo experience and students with yellow belts.

HPER 165 Tae Kwon Do II [PE] 1 Credit

Students with World Taekwondo Federation yellow-stripe belts and above.

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

Exploration of the philosophy and practice of the ancient art of Yoga. Students will learn the physical components of Yoga practice as well as the essential written principles of Yoga.

HPER 169 Yoga to Go II [PE] 1 Credit

Exploration of the philosophy and practice of the ancient art of Yoga. Students will learn the physical components of Yoga practice as well as the essential written principles of Yoga.

HPER 170 Yoga to Go III [PE] 1 Credit

Exploration of the philosophy and practice of the ancient art of Yoga. Students will learn the physical components of Yoga practice as well as the essential written principles of Yoga.

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.

PHYSICAL RECREATION/PHYSICS

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.

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 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

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 ENG 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 ENG 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 ENG 087; or permission of the Science Division Chair or designee. Recommended: READ 098. Co-requisite: MATH 124.

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 125.

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 126.

Political Science

PSCI 101 American National 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. Lecture, discussion and videos with supplementary readings in current political events. Recommended: READ 098.

PSCI 120 The American Presidency [SS] 5 Credits

Historical and analytical examination of the office of the Presidency. Focuses on the evolutionary changes in the power of the office and the consequences for leadership in America. Recommended: READ 098. Student may not earn credit for both PSCI 120 and HIST 120.

PSCI 125 Student Leadership I 1 - 2 Credits

Offered to student body officers actively participating in student government.

PSCI 126 Student Leadership II 1 - 2 Credits

Offered to student body officers actively participating in student government.

PSCI 127 Student Leadership III 1 - 2 Credits

Offered to student body officers actively participating in student government.

PSCI 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 attention to both the policy makers and critics of our nations position on significant international issues from the colonial period to the Great War. Recommended: READ 098. Student may not earn credit for both PSCI 211 and HIST 211.

PSCI 212 U.S. in World Affairs II [SS] 5 Credits

Examination of American involvement in international affairs since 1898. Study includes America's foreign policy actions as a world power with attention to both the policymakers and critics of our nation's position on significant international issues since 1898. Recommended: READ 098. Student may not earn credit for both PSCI 212 and HIST 212.

PSCI 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 agribusiness. Recommended: One quarter economics and READ 098. Student may not earn credit for both PSCI 222 and AGRI 222.

Precision Machining Technology

PMT 109 Introduction to Precision Machining 1 - 4 Credits

Introduction to shop theory, skills, and safety. Students use vernier micrometers and vernier calipers, sharpen a drill by hand, and sharpen lathe tool bits used to make a screw jack on the lathe.

PMT 161 Precision Machining Basics I 1 - 18 Credits

Theory and application to the use of precision measuring tools and bench work.

PMT 162 Precision Machining Basics II 1 - 18 Credits

Explores lathe theory and application, and introduction to milling machines. Prerequisite: PMT 161 or instructor permission.

PMT 163 Precision Machining Basics III 1 - 18 Credits

Provides theory, operations, and safety of precision lathes, milling machines, and grinders. Topics include calculations of the dividing head, assortment of trigonometry problems, and beginning introduction to Computer Numerical Control (CNC). Prerequisite: PMT 162 or instructor permission.

PMT 191 Cooperative Work Experience 1 - 18 Credits

Opportunity to work in jobs directly related to the precision machining industry. This formal training period is agreed upon by the student, employer, and instructor. Prerequisite: Instructor permission.

PMT 199 Special Topics 1 - 10 Credits

Study and train to meet established local needs in the precision machining industry, supplemental to courses currently offered. Prerequisite: Instructor permission.

PMT 294 Precision Machining Advanced I 1 - 18 Credits

Provides advanced practice of previous machining techniques. Includes theory, application, and safety of precision grinders (cylindrical, surface and tool and cutter grinder) and abrasives. Beginning introduction to Computer Numerical Control (CNC) programming. Prerequisite: PMT 163 or instructor permission.

PMT 295 Precision Machining Advanced II 1 - 18 Credits

Provides advanced theory and safety on manual machining equipment and CNC programming. Topics include helical milling and dividing head operations, G-codes, circular interpolation, cutter compensation, and cutting tool speeds and feeds. Introductions to Computer Assisted Programming and Computer Assisted Machining (CAD/CAM) using Mastercam software. Prerequisite: PMT 294 or instructor permission.

PMT 296 Precision Machining Advanced III 1 - 18 Credits

Provides CNC theory, programming, and safety including canned cycles; multiple tools; cutter offsets; linear, circular, and helical interpolation; and thread cutting cycles (CNC Machining Center and CNC Turning Center). Students use computer software to design/draw, write, store, and save computer-generated programs on the computer and transfer programs to CNC control via disk or other electronic means. Prerequisite: PMT 295 or instructor permission.

PMT 297 Special Projects

1 - 18 Credits

Project-oriented experiences in the area or applications not covered in the standard precision machining curriculum. Prerequisite: Instructor permission, based on evaluation of student's education and work experience.

PMT 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.

Professional Golf Management

PGM 101 Golf Management I

5 Credits

Introduction to the golf industry, offering an overview of industry practices, trends and traditions. It also serves as an introduction to fundamental golf shop policies and procedures. Topics include taking tee times and booking lessons, enforcing golf course rules, and controlling pace of play. 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.

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.

PGM 192 Cooperative Seminar

2 Credits

Explores the professional relations between employers, fellow staff, vendors, customers, members and prospective players. The interpersonal skills prized in the workplace are stressed and employment opportunities mapped. 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**

Further explores the professional relations between employers, fellow staff, vendors, customers, members, and prospective players. The interpersonal skills prized in the workplace are stressed and employment opportunities mapped. 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

PSY 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.

PSY 100 Effective Learning Strategies **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.

PSY 101 Introduction to 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.

PSY 103 Developmental 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.

PSY 111 Effective Interpersonal 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.

PSY 113 Human Sexuality [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 ENG 097. Recommended: READ 098. Student may not earn credit for both PSY 113 and WST 113. High school students need written permission from parents to enroll in course.

PSY 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 PSY 139 and WST 139.

PSY 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: ENG 077.

PSY 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.

PSY 205 Social Psychology [SS]

5 Credits

Study of the influence of the behavior of others on individual behavior. Topics include conformity, obedience, aggression, prejudice, persuasion, interpersonal attraction, self-justification, and group processes. Recommended: READ 098.

PSY 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.

PSY 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.

PSY 250 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: PSY 101.

PSY 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.

Reading

READ 070 Speed Reading 1 Credit
Computerized program to help students improve their reading speed and comprehension. Students learn to train their eyes to see larger groups of words at a glance, keep their eyes moving efficiently as they read, and broaden their field of peripheral vision.

READ 072 Special Topics in Reading I 1 - 5 Credits
Special reading needs are addressed for individual students; the student and instructor determine the area of emphasis. Prerequisite: Instructor permission.

READ 073 Special Topics in Reading II 1 - 5 Credits
Special reading needs are addressed for individual students; the student and instructor determine the area of emphasis. Prerequisite: Instructor permission.

READ 074 Special Topics in Reading III 1 - 5 Credits
Special reading needs are addressed for individual students; the student and instructor determine the area of emphasis. Prerequisite: Instructor permission.

READ 078 Basic Reading Skills 5 Credits
Encourages and supports improvement of basic reading, comprehension, and study skills. Develops an understanding of the reading process and appreciation for the importance of reading both for pleasure and personal growth. Prerequisite: Entrance by placement exam.

READ 082 Special Topics in Reading IV 1 - 5 Credits
Special reading needs are addressed for individual students; the student and instructor determine the area of emphasis. Prerequisite: Instructor permission.

READ 083 Special Topics in Reading V 1 - 5 Credits
Special reading needs are addressed for individual students; the student and instructor determine the area of emphasis. Prerequisite: Instructor permission.

READ 084 Special Topics in Reading VI 1 - 5 Credits
Special reading needs are addressed for individual students; the student and instructor determine the area of emphasis. Prerequisite: Instructor permission.

READ 088 Reading Improvement 5 Credits
Designed to improve how ably students utilize reading strategies to improve their overall comprehension. It reinforces skills in recognizing and using information selectively, increasing critical thinking about reading material, and increasing overall reading

speed to better meet college reading demands. Prerequisite: Appropriate placement score or by successful completion of READ 78.

READ 098 College Reading Skills 5 Credits
Designed to build strategies for reading success in the college reader who wants to improve reading speed, comprehension, summary writing, and critical thinking skills. Prerequisite: Appropriate placement score or by successful completion of READ 088.

READ 099 College Reading Skills II 5 Credits
Designed to build self-confidence in the college reader who wants to improve vocabulary, comprehension, and critical thinking skills. This course is taught by lecture, group discussion, and guided practice.

Science

SCI 095 Gateways to Science 5 Credits
Introduction to biology and chemistry with an emphasis on thinking skills and learning strategies to prepare students to succeed in college-level science courses. Lab work required. Prerequisite: Appropriate placement score, grade of C- or higher in MATH 050, or concurrent enrollment in MATH 065; READ 088; or permission of the Science Department.

Sociology

SOC 101 Introduction to Sociology [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.

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 PSY 101. 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 PSY 101. 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 PSY 101. 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 PSY 101. Requires 30 hours per credit.

SOC 201 Introduction to 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.

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 [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 208 Sociology of Intimate and Family Relations [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 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 [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 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.

Spanish

SPAN 101 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.

SPAN 102 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 101 or instructor permission.

SPAN 103 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 102 or instructor permission.

SPAN 201 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 103 or instructor permission.

SPAN 202 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 201 or instructor permission.

SPAN 203 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 202 or instructor permission.

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.

Speech

SPCH 101 Fundamentals of Speech [C]

5 Credits

Developing competency in planning, preparing, presenting, and evaluating basic speech with emphasis on critical and orderly thinking; using appropriate language, support and motivational appeals; handling speech anxiety; and assessing audiences.

SPCH 102 Oral Communications and Interpersonal Relationships [C]

3 Credits

Practice in preparing and giving reports, dealing with group dynamics and problems, learning interview techniques, working on telephone presence, perfecting convincing and listening skills.

SPCH 105 Oral Interpretation [C]

3 Credits

Study and practice of oral 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.

Theatre Arts

THEA 101 Theatre Appreciation [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.

THEA 117 Technical Drama 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.

THEA 118 Technical Drama 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.

THEA 119 Technical Drama 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.

THEA 151 Beginning Acting I [HP]

3 Credits

Introduction to acting techniques and beginning characterization through improvisation. Student required to furnish personal rehearsal clothes.

THEA 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.

THEA 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.

THEA 154 Acting-Summer Musical I

1 - 5 Credits

Designed to train students in the dramatic techniques appropriate to large stage, outdoor musical productions.

THEA 155 Acting-Summer Musical II

1 - 5 Credits

Designed to train students in the dramatic techniques appropriate to large stage, outdoor musical productions.

THEA 156 Acting-Summer Musical III

1 - 5 Credits

Designed to train students in the dramatic techniques appropriate to large stage, outdoor musical productions.

THEA 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.

THEA 190 Play Production I

1 - 5 Credits

Applied study in acting, stage lighting and costume construction using current productions as lab situations.

THEA 191 Play Production II

1 - 5 Credits

Applied study in acting, stage lighting and costume construction using current productions as lab situations.

THEA 192 Play Production III

1 - 5 Credits

Applied study in acting, stage lighting and costume construction using current productions as lab situations.

THEA 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.

THEA 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.

THEA 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.

THEA 215 Set Design 1 - 5 Credits

Learn rudiments of set design using current production as lab situation. Prerequisite: Instructor permission.

THEA 217 Technical Drama 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.

THEA 218 Technical Drama 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.

THEA 219 Technical Drama 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.

THEA 220 Costumes for the Stage-Introduction 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.

THEA 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.

THEA 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.

THEA 223 Elements of Costume Design 1 - 5 Credits

Theatrical and practical aspects of designing costumes for theatrical productions.

THEA 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.

THEA 226 Asian Plays [H] 5 Credits

A survey of Asian theatre including Japanese: Kabuki, Noh, Kyogen and Bunraku; Chinese opera, Taiwanese folk legends and puppetry; Korean dance drama; Indonesian puppets, Wayang Kulit, Wayang Golek and Thai dance drama.

THEA 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: THEA 153 or instructor permission.

THEA 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: THEA 251 or instructor permission.

THEA 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: THEA 252 or instructor permission.

THEA 270 Stage Management 3 Credits

The manager guides the cast through the rehearsal and production of the current play.

THEA 271 Beginning 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.

THEA 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.

THEA 273 Advanced Directing [HP] 3 Credits

The advanced directing student will direct, with supervision, a play to be presented to the public.

THEA 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.

THEA 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.

THEA 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.

THEA 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.

THEA 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.

THEA 295 Touring Theater IV [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.

THEA 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.

THEA 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.

THEA 299 Special Projects

1 - 5 Credits

For students interested in working on projects in design, acting, directing, stage management, playwriting, etc. Prerequisite: Instructor permission.

Turf Management

TURF 101 Turf Equipment Operations I

3 Credits

The use, operation, and maintenance of turf equipment, including mower units, top dressers, soil aerators, trimmers, and miscellaneous turf equipment are covered. Also provides a practical understanding of costing of equipment. Safety is emphasized.

TURF 102 Turf Equipment Operations II

3 Credits

Continuance of TURF 101, Turf Equipment Operations I. Topics include work experience placement, equipment parts, tractors, replacement schedules, purchasing and leasing equipment, sprayers, and sprayer calibration.

TURF 122 Turf Maintenance Practices

3 Credits

Introduction to the methods used in maintenance of sports fields, parks, school grounds, and golf courses. Prepares students for cooperative work experience and for entry into the turf industry.

TURF 191 Cooperative Work Experience

1 - 25 Credits

Opportunity to work in jobs directly related to the turf management industry. This formal training period is agreed upon by the student, employer, and instructor. Prerequisite: Instructor permission.

TURF 192 Cooperative Seminar

2 Credits

Explore issues related to their cooperative work experience focusing on effective workplace relationships. 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. 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

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.

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 172 Irrigation Blueprints 4 Credits

Introduction to computer aided drafting and irrigation nomenclature, symbols, schematics, and blueprints. Development of design skills and interpretation of drawings.

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. 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. 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.

Welding Technology

WELD 141 Welding Basics 4 Credits

Opportunity to select customized welding process instruction for application training, industry practices, hobby uses, or skill development to meet employer/employment requirements.

WELD 145 Basic Welding I 1 - 7 Credits

Introduction to welding, cutting, and grinding procedures used for general welding applications. Topics include fuel gas welding, brazing, cutting, shielded metal arc welding, gas metal arc welding, plasma arc cutting, carbon arc gouging, and abrasive grinding.

WELD 146 Basic Welding II 1 - 7 Credits

Provides the experienced welder additional training on student selected welding processes. Prerequisite: WELD 145.

WELD 147 Basic Welding III 1 - 7 Credits

Provides the experienced welder additional training on student selected welding processes. Prerequisite: WELD 146.

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 1 Credit
Explore issues related to cooperative work experience focusing on effective workplace relationships. 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 Projects 1 - 10 Credits
Provides an opportunity to gain experience and improve welding skills through practical application efforts on instructor approved custom projects. Instructor assistance in skill development and/or welding knowledge is provided, and a contract is required to establish goals and timelines for satisfactory completion. 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

WST 113 Human Sexuality [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 ENG 097. Recommended: READ 098. Student may not earn credit for both WST 113 and PSY 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 ENG 087; or permission of the Science Division Chair or designee. Recommended: READ 098. Student may not earn credit for both WST 121 and BIO 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 PSY 139.

WST 200 Introduction to Womens Studies [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 220 Gender and Society [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 LIT 251.

WST 280 Women in U.S. History [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 280 and HIST 280.

Writing

WRITE 100 Applied Writing 3 Credits

Provides writing skills useful in the career market. Assignments include memos, letters, and short reports. Students will acquire basic computer skills, and will learn to proofread and edit their own texts. Prerequisite: Appropriate placement score.

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 ENG 100.



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- 116 Chad Miltenberger, Vocational Counselor

Upper Level

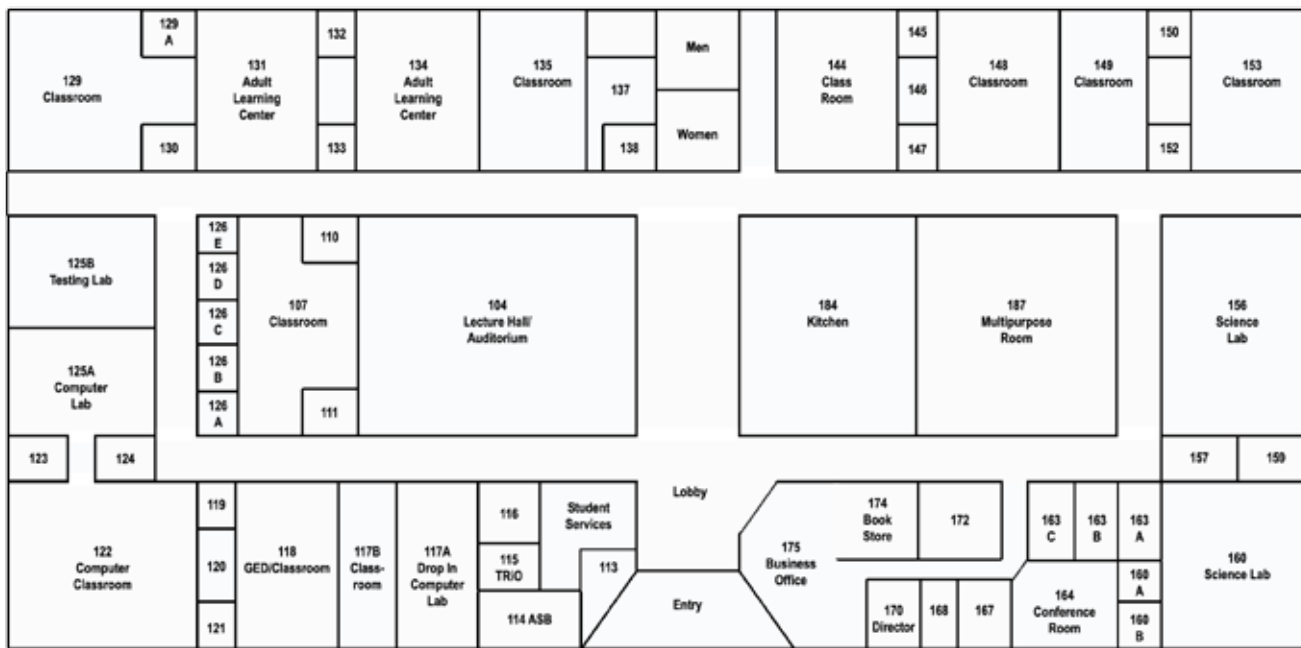
- LCV/Literacy Council-- Jane Warthen
- 222 Library-- Jackson Vance
- 201 ITV Room
- Math/Science Learning Lab

Campus Offices

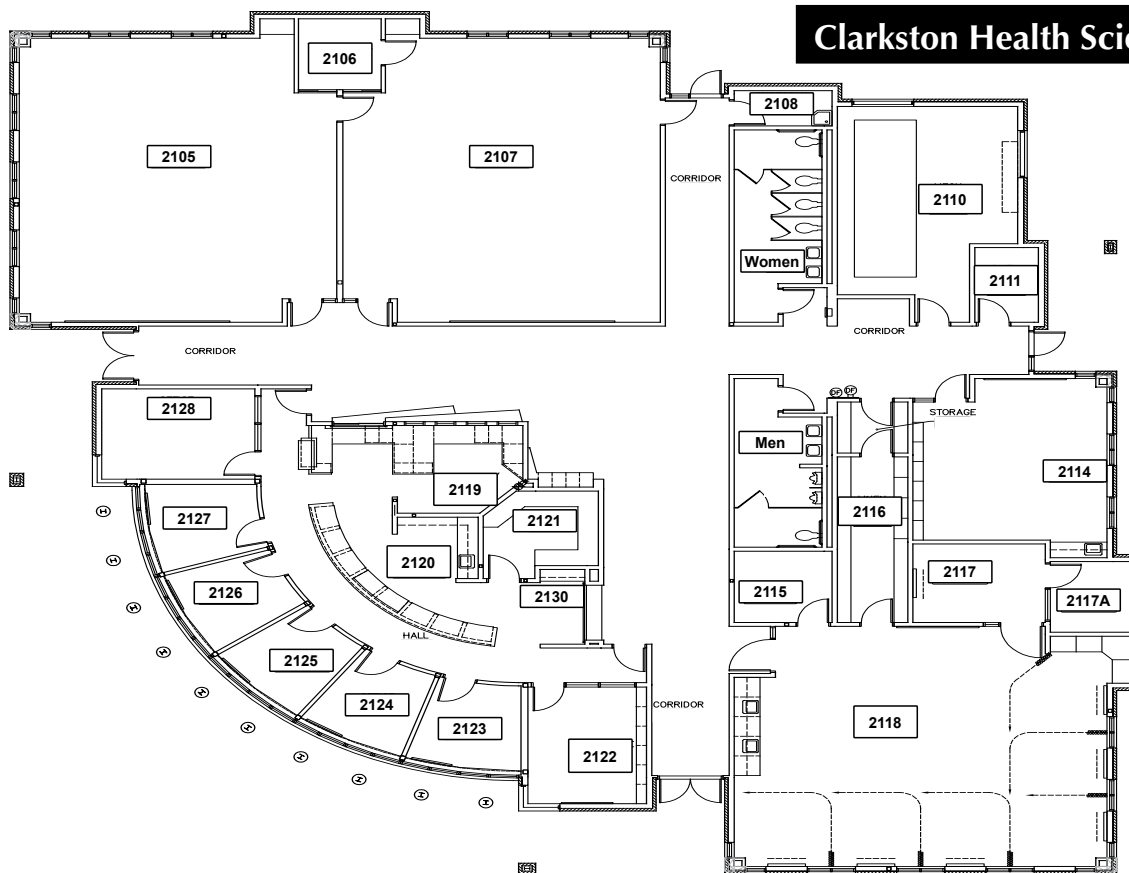
- 111 Mary Whittenberg, Worksource
- 119 Lisa Greenville, Computer Technology
- 124 Linda Lane, Business Technology
- 126a Jane Carroll, Office Technology
- 126b Part Time Instructors
- 126c Devon Gustafson, Psychology
- 126e Debbie Scharnhorst, IT
- 130 Jim Bower, Humanities
- 146 Kelly Thelen, Medical 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

Clarkston Campus

1470 Bridge Street • Clarkston WA 99403 • www.wwcc.edu
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Clarkston Health Science Center



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| 2. Auto Technology (1401-1405) | 14. Welding & Precision Machining Tech (340-346) |
| 3. Health Science and Performing Arts (1701-1836) | 16. Music & Displaced Homemakers Prog. (301-304) |
| 4. Technology Center (1101-1215) | 17. Cosmetology (310-314) |
| 5. Truck Driving / Turf Equipment / Maintenance (Craik Building) | 18. China Pavillion (500-507) |
| 6. First Flight Child Center | 19. Conference Center & ITV (185-285) |
| 7. John Deere Training Center (601-620) | 20. Bookstore, Business Office, Cafeteria, Library, Student Services |
| 8. Diesel Mechanics (651-660) | 21. Administration, Sciences (130-288) |
| 9. Farrier & Grounds Maintenance (701-723) | 22. Business Ed, Academic Ed, & Transitional Studies (101-222) |
| 10. Applied Technology Training Center (800-825) | 23. Women's Center |
| 11. Greenhouse | 24. Parent Child Center |
| 12. Water and Environment Center (2000-2027) | 25. Dietrich Activity Center (Gym) |

Information
509.522.2500 877.992.9922

FAX
509.527.4480

Web Site
www.wbcc.edu

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Walla Walla Community College 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.



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