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# **TABLE OF CONTENTS**

College Calendar	3
Admission/Enrollment	4
Admission as a Priority Student	5
Admission as a Drop-In Student	8
Admission as an International Student	9
Admission as a Running Start Student	10
Advising/Educational Planning	11
Registration	12
College Costs	14
Financial Aid	16
Services for Veterans	18
Worker Retraining	19
Academic Information	20
Grades	21
Student Records	23
Academic Standards Policy	26
Graduation	27
Student Transfer	28
Transfer Degrees	
Services for Students	
Cafeteria	32
Childcare	
Advising/Counseling Center	33
Honors and Recognition	
International Students Programs	
Transitional Education	
Instructional Support	
Parking	
Sports Programs	
Student Job Center	
Students with Disabilities	
Student Life and Involvement Center (SLIC)	
Student Rights and Responsibilities	
TRIO Programs	
Technology Resources	
Email	
eLearning Courses	
Extended Learning	
Night, Weekend and eLearning Classes	
Centralia College East	
Garrett Heyns and Cedar Creek Corrections Education Centers	
Cooperative Education	42

Degrees/Certificates	.43
ducational Outcomes	
rogram Outcomes	
eneral Transfer Degrees	
mited Transfer Degrees	
/orkforce Degrees	
ssociate in General Studies Degree	
ertificates and Programs	
istribution Area Outcomes and Courses	
rograms of Study	.59
ourse Descriptions1	122
cachelor of Applied Science Programs	168

## **CENTRALIA COLLEGE CALENDAR**



### 2015-16

#### **FALL QUARTER 2015**

Labor Day Holiday Sept. 7 Sept. 7	(M)
Faculty DaysSept. 8-18	
Assessment Day Sept. 14	(M)
First Day of Class Sept. 21 Sept. 21	(M)
All Campus Meeting (no classes) Oct. 9	(F)
Veterans Day (no classes)Nov. 11Nov.	(W)
Advising Day (no classes)*Nov. 17Nov. 17	(T)
Thanksgiving Holiday (no classes) Nov. 26, 27	(ThF)
Last Class Day Dec. 4	(F)
Final Examinations Dec. 7, 8, 9	. (MTW)
Faculty Days Dec. 10, 11	(ThF)
Winter Holiday Dec.25	(Th)
Quarter Break Dec. 10–Jan. 3	

#### **WINTER QUARTER 2016**

New Year's Day Holiday	Jan. 1	(Th)
First Day of Class	Jan. 4	(M)
Martin Luther King Holiday (no classes)	Jan. 18	(M)
Advising Day (all classes in session)		
President's Day Holiday (no classes)	Feb. 15	(M)
Last Class Day	March 16	(W)
Assessment Day (no classes)	March 17	(Th)
Final Examinations		
Quarter Break	March 19-27	

#### **SPRING QUARTER 2016**

First Day of Class	April 4(	(M)
Advising Day (all classes in session)*	May 12 (	Th)
Memorial Day Holiday (no classes)	May 30(	(M)
Last Class Day	June 13(	(M)
Assessment Day (no classes)	June 14	(T)
Final Examinations	June 15,16,17(WT	hF)
Commencement	June 17	(F)
Quarter Break	June 18-July 4	

#### **SUMMER QUARTER 2016**

July 4	(M)
July 5	(T)
Aug. 12	(F)
Aug. 26	(F)
	July 5 Aug. 12

\*BAS-AM classes will meet on Advising (non-class) days. Calendars subject to change.

### 2016-17

#### **FALL QUARTER 2016**

Labor Day Holiday	Sept. 5	(M)
Faculty Days	Sept. 12-23	
Assessment Day	Sept. 19	(M)
First Day of Class	Sept. 26	(M)
All Campus Meeting (no classes)	0ct. 14	(F)
Veterans Day Holiday (no classes)	Nov. 11	(F)
Advising Day (no classes)*	Nov. 15	(T)
Thanksgiving Holiday (no classes)		
Last Class Day	Dec. 9	(F)
Final Examinations	Dec. 12, 13, 14	(MTW)
Faculty Days	Dec. 15	(Th)
Winter Holiday	Dec. 26	(M)
Quarter Break	Dec. 15–Jan. 2	

#### **WINTER QUARTER 2017**

New Year's Day Holiday	Jan. 2	(M)
First Day of Class		
Martin Luther King Holiday (no classes)		
Advising Day (no classes)*	Feb. 9	(Th)
President's Day Holiday (no classes)	Feb. 20	(M)
Last Class Day	March 16	(Th)
Assessment Day (no classes)	March 17	(F)
Final Examinations	March 20, 21, 22	(MTW)
Faculty Days	March 23, 24	(ThF)
Quarter Break	March 22-April 2	

#### **SPRING QUARTER 2017**

First Day of Class	April 3	(M)
Advising Day (all classes in session)	May 18	(Th)
Memorial Day Holiday (no classes)		
Last Class Day	June 12	(M)
Assessment Day (no classes)	June 13	(T)
Final Examinations	June 14, 15, 16	(WThF)
Commencement	June 16	(F)
Ouarter Break	June 17-July 2	

#### **SUMMER QUARTER 2017**

First Day of Class	July 3	(M)
Fourth of July Holiday	July 4	(T)
Last Class Day (6 week session)	Aug. 11	(F)
Last Class Day (8 week session)	Aug. 25	(F)

Centralia College does not discriminate against any person on the basis of race, color, national origin, disability, sex, genetic information, or age in admission, treatment, or participation in its programs, services and activities, or in employment. All inquiries regarding compliance with access, equal opportunity and/or grievance procedures should be directed to the Vice President of Human Resources and Legal Affairs, Centralia College, 600 Centralia College Blvd, Centralia, WA 98531, or call 360-736-9391, ext. 671.



## **ADMISSION/ENROLLMENT**

#### **ENROLLMENT SERVICES OFFICE**

Student Services Building 360-736-9391, ext. 221 • 360-496-5022, Centralia College East admissions@centralia.edu • www.centralia.edu/admissions

#### Applying to Centralia College is easy.

There is no application fee. Applications are accepted throughout the year for entrance into any quarter and most programs. Students must be 18 years of age or older or have a high school diploma or GED certificate. There are exceptions to these standards, which are described later.

Some programs have special admission requirements. These programs are Nursing, Running Start, GED, and the Bachelor of Applied Science degrees in Applied Management (BAS-AM) and Diesel Technology (BAS-DT).

Admission to the college does not guarantee entry into all classes or programs. Centralia College has a priority registration system that makes it easier for students to get the classes they want. The more credits a student earns, the earlier they can

register, giving them better choices for classes and times. This is important for those wishing to earn a degree or certificate. It is also helpful for students who plan to register for the most popular classes. Priority students will be assigned a faculty advisor.

For more information about class registration and becoming a priority student, please see the Registration section.

**NOTE:** Persons with a disability who would like accommodations with any of the programs and services of the college, including admission, can contact the Disability Services Office at 360-736-9391, ext. 320. Students are encouraged to do this as early as possible.

## **Admission as a Priority Student**

To become a priority student, follow these steps:

#### I. New Student

Students who are beginning college for the first time and have graduated from high school or will soon graduate, have a GED, or have reached the age of 18, follow these steps:

- A. Submit an Application for Admission. Forms are available on the college website.
- B. Take a class placement test and submit it to the Enrollment Services Office. There are several options;
  - 1. Take a placement test on campus. For test times, fees, and instructions, contact the Testing at 360-736-9391, ext. 216.
  - If a student has completed testing someplace else, they can submit their test scores to the Enrollment Services Office. COMPASS, ASSET and ACCUPLACER test scores will be accepted. Test scores must be no older than three years.
  - 3. Students may request equivalent placement into pre-college and college-level courses based on their placement at another Washington community or technical college. To do so, students must submit a copy of the document that provides specific placement recommendation information from the sending institution, along with a completed placement reciprocity request form. Documentation must be no older than one year. Contact the Enrollment Services Office for details and to obtain a request form.
  - 4. Students who have taken and passed (2.0 GPA) college-level writing and math must submit transcripts to the Enrollment Services Office.

#### II. Returning Student

Students who have attended Centralia College in the past can follow these steps:

- A. Returning students do not need to re-apply for admission. They must complete and submit a Returning Student Update form available on the college's website and in the Enrollment Services Office.
- B. Students who have attended another college or university since they last took classes at Centralia College must forward an official transcript(s) to the Enrollment Services Office and submit a credit evaluation application.

#### III. Transfer Student

Students who have attended another college or university can follow these steps:

Take a class placement test and submit it to the Enrollment Services Office. There are three options;

- 1. Take a COMPASS placement test on campus. For test times, fees, and instructions, contact the Testing Center on campus at 360-736-9391, ext. 216.
- 2. Students who have completed testing someplace else must submit their test scores to the Enrollment Services Office. Test scores must be no older than three years.
- Students who have taken and passed (2.0 GPA)
  college-level writing and math can submit transcripts
  and a Credit Evaluation Application to the Enrollment
  Services Office.

**IMPORTANT NOTE:** All admission and enrollment information is sent via email. To avoid complications and delays, applicants must include their correct address on their admission application. Otherwise, the admission and enrollment process may be delayed.



#### **EVALUATION OF TRANSFER CREDITS**

The Enrollment Services Office determines which credits transfer and how they apply to a degree or program. Transfer of credits and the application of transfer credits to a degree or program are two separate but related processes. Not all transfer credits apply to every degree or certificate. Semester credits convert to quarter credits by multiplying the semester credits by 1.5.

**NOTE:** Usually, only credits earned at regionally accredited colleges or universities are eligible to transfer to Centralia College.

#### APPLICATION FOR CREDIT EVALUATION

Centralia College uses a two-step process to determine which transfer credits apply to Centralia College degrees or certificates. Students must:

- 1. Have an official copy of their transcripts mailed directly to the Enrollment Services Office.
- Submit an Application for Credit Evaluation to the Enrollment Services Office for official evaluation. This form is available online and in the Enrollment Services Office. Centralia College does not evaluate transcripts without an official Credit Evaluation Application from the student.

**NOTE:** Students are encouraged to request a credit evaluation as early as possible. Registration appointments are calculated on a credit-earned basis. The more credits a student has, the earlier they may register. Appointments are based on cumulative credits earned at Centralia College and the transfer institution(s). Students should allow a minimum of four weeks for processing after their transcript arrives.

Transcripts become the property of Washington State and become part of a student's official file. They cannot be returned or sent to another school or college. Centralia College does not issue or certify copies of transcripts from other institutions.

#### NONTRADITIONAL CREDITS

There are six other ways to apply nontraditional credits toward a program at Centralia College.

To have nontraditional credits evaluated, students must submit official test scores or official transcripts to the Enrollment Services Office. CLEP, credit by exam, and Advanced Placement are evaluated only after the student completes two quarters at Centralia College and submits a Credit Evaluation Application. The Enrollment Services Office will notify students of any courses and credits granted. The following methods are available:

- CLEP (College-Level Examination Program): Five General Exams and more than 30 Subject Exams (worth 5 credits each) are available. The College Board administers these tests. Centralia College accepts CLEP Exams for credit if a student scores 50 or above. Students may earn up to 45 college credits. To apply for CLEP credit, students must request that official transcripts of CLEP scores be sent directly from the College Board to Admissions and Records. Students who completed the CLEP before July 2001 must contact an evaluator for prior scoring minimums.
- 2. Credit by examination: This is also called challenging a course. Centralia College recognizes that students may already have gained competence in a particular area. These students may receive credit for their knowledge without formally taking a course in that area. Not every course is available for credit by exam. Credit may not be earned for an audited course, one that was enrolled in previously, or if a more advanced course in that subject area has been completed. Students must arrange to challenge a specific course at Centralia College with the appropriate dean and course instructor. They must then enroll in the course and pay tuition.

- 3. Advanced placement (AP): Centralia College encourages students in high school to participate in the AP program. The College Board conducts the AP program. Scores of 3, 4, or 5 on the College Board AP Tests are the basis for advanced placement and course credit at Centralia College. To apply for advanced placement credit, students must request that official transcripts of AP scores be sent directly from the College Board to Enrollment Services. Listed below are the departmental policies on granting placement and credit for the most common AP examinations.
- 4. Military credit and experience: Credit may be awarded for armed service schools. The amount and type of credit is based upon the Guide to the Evaluation of Educational Experiences in the Armed Services. Students must present their course certificate(s) and/or military transcript and Form DD 214 or DD 295. A Credit Evaluation Application is also required.
- 5. Law enforcement/fire protection training: Credit may be awarded for courses taken from the Washington State Criminal Justice Training Commission and the Fire Protection Services Division of the Department of Community Development.

<b>AP Examination</b>	Score	Centralia College	Credits
Biology	3, 4, or 5	BIOL& 100	5 credits
English Writing	3, 4, or 5	ENGL& 101	5 credits
English Literature	3, 4, or 5	ENGL& 111	5 credits
U. S. History	5	HIST& 146 and 147	10 credits
	3 or 4	HIST& 146	5 credits
European History	5	HIST& 116 and 117	10 credits
	3 or 4	HIST& 116	5 credits
Calculus (AB)	5	MATH& 141 and 151*	10 credits
	4	MATH& 141 and 151*	10 credits
	3	MATH&141 **	5 credits

<sup>\*</sup>Upon completion of MATH& 152 • \*\*Upon completion of MATH& 151



## Admission as a Drop-In Student

Students interested in taking classes, workshops, non-degree programs, or learning assistance programs for personal enrichment can register as drop-in students. Drop-in students register after priority students. Drop-in students can register for remaining classes on a first-come, first-served, space-available basis. The period of registration in which drop-in students register is called open enrollment or open registration. This period begins shortly before each quarter starts.

#### I. High School Graduates or Students 18 years or Older

To enroll in a course for personal enrichment, improving job skills, or for a workshop or a special program, students can register at the Enrollment Services Office during open enrollment by filling out a registration form and paying the appropriate fees. The quarterly class schedule lists the open enrollment dates and times. Individuals seeking entrance into a special program may have to meet additional requirements for admission.

#### II. Students Between 16 and 18 years of Age

When a student is younger than 18, their high school class has not graduated, and they do not have a GED, they need the permission of their high school district to enroll at Centralia College. High school juniors and seniors may be eligible to enter Centralia College as Running Start students. Students wishing to enter Centralia College should contact the Advising/ Counseling Center for more information.

#### III. Students Under 16 years of Age

The minimum age for admission into credit classes is 16, unless a student already has a high school diploma or GED. Exceptions are rarely granted. Students wishing to seek an exception should contact the Enrollment Services Office for the appropriate forms and procedures.

#### **IV.** Senior Citizens

Adults at least 60 years old may enroll in college classes for a reduced fee, provided there is space available. Adults may enroll for no more than two courses per quarter at these rates. Contact the Enrollment Services Office for more information.





## Admission as an International Student

International Student Programs Office
222 S. Rock St., Centralia College
8 a.m.-5 p.m. Monday-Friday (summer hours may vary)
360-736-9391, ext. 492 • 360-753-3433, ext. 492
intl@centralia.edu • www.centralia.edu/international

**Centralia College encourages and welcomes students from other countries who want to pursue a quality education.** Centralia College offers academic and technical programs and an Intensive English Program (IEP). For immigration and tuition purposes, international students are classified as nonimmigrant (F-1 or M-1 visa), non-U.S. citizens, and non-residents. Application forms are available online at www.centralia.edu/international.

#### **ADMISSION REQUIREMENTS**

To be considered for admission to Centralia College, including the Intensive English Program (IEP), the following items must be submitted to the International Programs office via email to intl@centralia.edu or via postal mail to International Programs, 600 Centralia College Boulevard, Centralia, WA 98531:

- 1. Completed and signed International Student Application
- 2. Application fee (USD \$45 via cash, money order, cashier's check, or credit card: Visa, Mastercard, or Discover)
- 3. Proof of adequate financial support for all expenses for one academic year, e.g., official bank statement, notarized affidavit of support, embassy, agency or government letter of support. Expenses for tuition, fees, insurance, and living expenses for a year at Centralia College are available at www.centralia.edu/international/tuition. html. International students are not eligible for financial aid. Continued enrollment will require a more current statement of financial support.
- 4. Official transcripts from high school and all colleges attended (including all language schools, universities, etc.)
- 5. Copy of current passport

- 6. Proof of proficiency in the English language is NOT required for admission.
  - a. Students without an official TOEFL score or with an official TOEFL score below 500 (paper-based)/173 (computer-based)/61 (Internet-based) or an IELTS score below 5.0 will be admitted only to the Intensive English Program (IEP).
  - b. Students with a TOEFL score higher than 500 (paper-based)/173 (computer-based)/61 (Internet-based) or an IELTS score below 5.0 may enroll in college-level courses after an assessment of readiness has been completed at Centralia College.
- 7. International students transferring within the U.S. must also submit a Transfer-In Form (provided after the initial application has been received and evaluated).

**NOTE:** All international students are required to purchase student health insurance each quarter through the International Programs Office.

## **Admission as a Running Start Student**

#### **Running Start Program**

Advising/Counseling Center • Student Center Building 8 a.m. – 5 p.m. Monday-Friday (summer hours may vary) 360-736-9391, ext.265 • 360-496-5022, Centralia College East • 360-330-7102 Fax runningstart@centralia.edu • www.centralia.edu/academics/runningstart

For high school juniors and seniors who are academically ready for college-level work, Running Start provides a valuable opportunity to earn up to two years of college tuition-free while finishing their high school requirements. Running Start students may enroll in academic/transfer or professional/technical courses. Through an agreement with the high school, Running Start students do not pay college tuition. Students pay for fees and books; these fees may be waived for low-income students.

Students can contact their high school counselor or visit the Running Start Office (located in the Advising/Counseling Center at Centralia College) for more information.

## To apply for Running Start, students must return the following to the Running Start Office:

- A. Running Start Application
- B. Placement test results
- C. High school transcript

Program acceptance letters will be sent after the application and test scores are received.



## **Advising/Educational Planning**

#### **Advising/Counseling Center**

**Student Center Building** 

8 a.m.-5 p.m. Monday-Friday (summer hours may vary)

360-736-9391, ext. 265 • 360-496-5022, Centralia College East

360-330-7102 Fax • advising@centralia.edu

www.centralia.edu/students/advising

### Assessing one's readiness for college coursework is the first step toward success as a college student.

This includes answering questions, such as:

What classes are appropriate for my skill level? How many courses and credits should I take?

Only by considering one's academic readiness and life situation can one choose courses that offer the right amount of challenge and workload. An advisor will assist with these choices.

#### PLACEMENT TESTING

Placement testing determines a student's best starting point in math, English, and reading. ASSET or COMPASS test scores identify courses that fit a student's individual skill level. Centralia College requires placement test scores that are no more than three years old. Placement test fees can be paid at the cashier's window on the second floor of the Student Center Building. For testing hours, call the Testing Center at ext. 216 or Centralia College East.

Students whose test scores indicate they need to improve skills in English, math, or reading should enroll in college prep courses. These courses prepare students for success in college-level work. College prep courses should be taken during the first or second quarter of college. An advisor will assist in scheduling these classes.

#### **ADVISING**

#### **Priority Students**

Students will be assigned a faculty advisor who will assist with planning a program of study.

#### **New Students**

After applying for admission and taking a placement test, new students can call or visit the Advising/Counseling Center for advising/registration dates and times. (See above for contact information.) New students should expect to discuss their plans, review their assessment of academic readiness, select and schedule classes, register, and pay tuition and fees.

#### **Continuing Students**

Once enrolled, students must meet with their assigned advisor each quarter to discuss their progress and plan their schedule for the following quarter. Students must meet with their advisor before they can register.

Students may request to change their advisor at any time. To do this, students must obtain the signature of the new advisor on a Change of Advisor form and submit the form to the Enrollment Services Office.

**NOTE:** It is the student's responsibility to meet all graduation and transfer requirements (if applicable). The advisor only assists and is not responsible for a student's total planning.

For students who need help choosing college programs, information is available in the Advising/Counseling Center. Students can also schedule an appointment with a counselor.

## Registration

Enrollment Services Office • Student Center Building 360-736-9391, ext. 221 • 360-496-5022, Centralia College East admissions@centralia.edu • www.centralia.edu/admissions/register.html

## Registration is the process of enrolling in classes. Registration depends on the type of student and their educational plans.

#### **CURRENT STUDENTS**

Students must meet with their advisor on Advising Day or during advising week to plan their classes and receive a registration PIN. Students are expected to contact their advisor BEFORE Advising Day to set up an advising appointment. After meeting with their advisor, students can visit Student Web Services to access their registration time and login, and register for classes.

**IMPORTANT:** Students who do not meet with their advisor each quarter will lose their priority registration status.

#### **NEW AND TRANSFER STUDENTS**

After taking a placement test, students must contact the Advising/Counseling Center to meet with an advisor and register for classes.

Students who do not meet with an advisor must come to Enrollment Services to register for classes during open registration. The Class Registration Form can be downloaded. Completed, signed forms can be faxed to Enrollment Services at 360-330-7503 or scanned and emailed to admissions@ centralia.edu. These students will not receive priority registration for future quarters.

#### HOW TO OUALIFY FOR PRIORITY REGISTRATION

In order to qualify for Priority Registration, students must complete the following steps:

- Apply for admission
- Take the class placement test (or submit to Enrollment Services official transcripts demonstrating qualifying grades or test scores no more than three years old)
- Visit the Advising/Counseling Center in person to be advised

#### **RETURNING STUDENTS**

After submitting a Returning Student Form, students will be sent an email that includes their registration time. Before registering, returning students must see the advisor they were assigned when they last attended Centralia College. After meeting with the advisor, students must come to Enrollment Services to register for classes during their registration time. Students who do not remember their advisor or who need a different advisor can contact the Advising/Counseling Center at 360-736-9391, ext. 265 or advising@centralia.edu.

Students who do not meet with an advisor must come to Enrollment Services to register for classes during open registration. The Class Registration Form can be downloaded. Completed, signed forms can be faxed to Enrollment Services at 360-330-7503 or scanned and emailed to admissions@centralia.edu. These students will not receive priority registration for future quarters.

#### **ONLINE STUDENTS**

After applying for admission, new and returning students who plan to register only for online classes should contact Enrollment Services at 360-736-9391, ext. 221 or admissions@centralia.edu.

#### **DROP-IN STUDENTS**

Students who want to take a class or two for personal enrichment do not need to apply for admission. Once the class schedule is available, drop-in students can register for evening courses, Continuing and Community Education classes, or Centralia College East courses. For all other courses, drop-in students can register starting on the first day of open registration. A Class Registration form can be downloaded online. Completed forms, along with a check, money order, or credit card number, can be sent to the address listed on the top of the form (no cash please). Mail-in registrations will be processed on a first-come, first-served basis. If the class is filled, payment will be returned.

#### PRIORITY REGISTRATION

Students with priority registration status have the advantage of choosing and registering for classes before students without priority status.

Students can earn priority registration status by completing these important steps:

- New and transfer students must go to the Advising/ Counseling Center.
- Current and returning students must meet with their assigned advisor on Advising Day or during advising week.
- Students without priority registration status can gain priority status after earning 35 college-level credits at Centralia College. Students must contact Enrollment Services at 360-736-9391, ext. 221 or admissions@centralia.edu and request this change. Eligible students will be assigned an advisor and changed to priority registration status

#### LATE REGISTRATION

Students may add classes by completing and submitting a registration form to the Enrollment Services Office. Forms are available on the college's website and in the Enrollment Services Office. To add classes that are filled, students must obtain the instructor's signature. To add any class after the second day, whether it is filled or not, students must obtain the instructor's signature. The form must be taken to the Enrollment Services Office for processing.

Students will not be allowed to add a class after the first 10 days of the quarter (eighth day of summer) except in continuous enrollment classes. For continuous enrollment or late starting courses, registration may continue after the second week of the quarter.

#### CHANGE OF SCHEDULE/WITHDRAWAL FROM CLASSES

Students can add and drop classes for a limited time at the beginning of each quarter. To add or withdraw officially from a class, students must submit a Schedule Change form to the Enrollment Services Office. Forms are available on the college's website and in the Enrollment Services Office.

#### **IMPORTANT:**

- Students are strongly encouraged to consult with their advisor before adding or dropping classes. Students who are receiving financial aid and/or scholarships should consult with the Financial Aid Office to avoid jeopardizing their aid.
- Students who stop attending class will NOT be dropped or withdrawn automatically. Official withdrawal is required. To withdraw from a class, students must submit a Schedule Change form to the Enrollment Services Office. Failing to withdraw officially may result in a failing grade in the class.
- Students are required to pay for any classes for which they register. Refunds are available for a limited time at the beginning of each quarter.

#### STUDENT WITHDRAWAL

If a student withdraws from a course during the first 10 calendar class days, their name will be removed from the class list. They must return the Schedule Change form to the Enrollment Services office by the 10th class day. An instructor's signature is not required. No record of the class will appear on the student's transcript.

If a student withdraws from a class after the 10th class day, but on or before the 35th class day, they must return the Schedule Change form to the Enrollment Services Office by the 35th class day. An instructor's signature is not required. The student will receive a "W" grade on their transcript.

If a student withdraws from a class after the 35th class day, but before the first day of scheduled finals, they must return the Schedule Change form to the Enrollment Services office before the first day of scheduled finals. An instructor's signature is required. The student will receive a "WP" grade (Withdrawal Passing) or a "WF" grade (Withdrawal Failing) on their transcript. The instructor will determine this grade based upon whether the student was passing or failing the course at the time of their withdrawal.

#### INSTRUCTOR INITIATED WITHDRAWAL

Many classes are filled at the start of the quarter. Other students are waiting for a seat. For this reason, when a class is filled, an instructor may withdraw students from any class or lab in which they do not show up.

If the class is a block class, which meets for two or more hours, students may be withdrawn if they do not contact the instructor prior to noon on the following day.

For classes that meet for fewer than two hours per day, students may be withdrawn if they do not contact the instructor prior to noon on the day following the second class sessions. (Note: the instructor must notify registration of this withdrawal by 4 p.m. on the day of the withdrawal).

#### ADMINISTRATIVE INITIATED WITHDRAWAL

The most common reason for administrative withdrawal is class cancellation. Administration may withdraw students for non-grade related reasons such as, but not limited to, medical, disciplinary, error, or emergency military assignment. Students withdrawn after the 35th class day shall receive a "WF" or "WP" as assigned by the instructor. Administration will notify the instructor.



## **COLLEGE COSTS**

#### **ENROLLMENT SERVICES OFFICE**

Student Services Building 360-736-9391, ext. 221 • 360-496-5022, Centralia College East admissions@centralia.edu • www.centralia.edu/admissions

Centralia College provides an excellent value. Many students choose to attend Centralia College because it offers high-quality, costeffective education.

When estimating college costs, students are reminded to include amounts for tuition and fees, special fees, books, supplies, transportation, and living expenses. The college accepts most major credit cards for payment of tuition, fees, books, and supplies. Check with the cashier for details.

#### **TUITION AND FEES**

For resident students, state tax money pays a portion of the cost of an education at Centralia College; tuition money pays the remaining. Tuition is set by the Washington Legislature and is subject to change by legislative action. Current rates are available on the college website.

#### **RESIDENCY REQUIREMENT**

Students who are residents of Washington pay less for tuition than nonresident students. This is because Washington taxpayers pay the difference in cost for Washington residents. Washington law determines residency status for tuition purposes. This is what the law says:

"To qualify for resident tuition, you must be a U.S. citizen, a person who has permanent resident status, or has "refugee-parolee" or "conditional entrant" status and (1) has established residence in the State of Washington primarily for purposes other than educational for one year immediately prior to the start of the quarter, and was financially independent from parents or legal guardians for the calendar year prior to the year in which application was made; or (2) is a financially dependent student, one or both of whose parents or legal guardians have lived in the State of Washington for at least one year immediately prior to the start of the quarter."

Undocumented students may qualify for resident tuition rates if the following requirements are met: (1) Student has resided in Washington for the three years immediately prior to receiving a high school diploma and completed the full senior year in a Washington high school or student will have completed the equivalent of a high school diploma and resided in Washington for three years immediately prior to receiving the equivalent diploma. (2) The student has continually resided in Washington since earning a high school diploma or its equivalent. (3) The student agrees to file application to become a permanent resident of the United

States as soon as eligible to apply. The form is not needed for U.S. citizens or permanent resident aliens.

Nonresident tuition is required of students whose legal residence is outside of Washington. There are some limited exceptions to this rule. The Enrollment Services Office can explain these exceptions. Nonresidents of Washington pay a slightly higher rate.

International students attending Centralia College are classified as nonresidents regardless of length of residency in Washington. International students pay the highest rate.

To apply to change residency classification, students must complete the Residency Questionnaire form and provide documentation within 30 calendar days of the beginning of the quarter for which they have registered. Residency forms and regulations are available in the Enrollment Services Office.

#### **REFUND POLICY**

The state determines the limits of Centralia College's refund policy. Refund requests must be made to the Enrollment Services Office.

Students who officially withdraw from a class or from the college through the Enrollment Services Office may be entitled to a refund. Refunds may not be arranged by telephone. Refund policies are available in the quarterly class schedule.

For classes beginning after the first week of the quarter, refunds are calculated according to policies listed in the class schedule. Centralia College can issue a refund only after the student has paid outstanding debts. Financial aid is refunded directly to the financial aid agency. The Financial Aid Handbook has detailed information about how this is done. Centralia College distributes refunds by check. Allow 12 working days for processing. Refunds are credited for payments made with a credit card to that credit card account. If a class is canceled, students will automatically be refunded 100 percent.

Students who are called to active duty military service are eligible for a 100 percent refund of tuition and fees. Proof of

active duty status must be provided. Students must request their refund during the academic quarter they are called to active duty. Exceptions may be made for emergency call-ups.

Centralia College does not refund special fees after the first class day. Centralia College does not refund lab fees after the 10th class day. Before those deadlines, Centralia College will refund the fees in full provided the student has not used the supplies. If supplies are used, the refund will be prorated. The cashier may require verification by the instructor before refunds are made.

Students who experience extensive or severe medical conditions may be eligible for a refund of tuition and fees. The student must provide sufficient documentation from their physician indicating they are unable to attend courses for the quarter. The student must request a medical withdrawal within the next quarter of the academic year (i.e., spring quarter medical withdrawal requests must be submitted before the end of summer quarter).

#### NON-SUFFICIENT FUNDS CHECK POLICY

Centralia College charges \$25 for each NSF (non-sufficient funds) check. This charge may be subject to change. Centralia College will place a hold on registration, grades, transcripts, etc., until students settle the NSF check and associated fees. All NSF checks will be sent to a collection agency in 15 days. The collection agency may charge an additional collection fee and interest. A student's registration may be canceled if the NSF check is for tuition (including lab and other fees).

#### **APPEALS**

If a students fails to meet their financial obligations to the college, the college may withhold their grades, degree, or transcript and may block registration for future quarters. Students have the right to make a written appeal regarding fees, refunds, fines, charges, debts, or other financial obligations to the college. Appeals can be addressed to the Director of Enrollment Services. A second level of appeal is available. This can be addressed in writing to the Vice President of Student Services. The decision of the vice president is final.



## **Financial Aid**

Financial Aid Office • Student Center Building 8 a.m.-5 p.m. Monday-Friday (summer hours vary) 360-736-9391, ext. 234 • 360-330-7105 Fax financialaid@centralia.edu • www.centralia.edu/admissions/finaid

## More than 80 percent of Centralia College students receive some form of financial aid. Financial aid awards are made on a first-come, first-served basis; early application is recommended.

Centralia College has a financial aid priority deadline of April 15. Students must complete a financial aid file by this date to be considered for maximum funding. If the priority deadline is not met, the student's financial aid file will still be reviewed but, if the student qualifies, funding may not be ready by the first day of classes. In that case, students need to pay their own tuition by the posted deadline.

#### **ELIGIBILITY**

- 1. In general, to be eligible for financial aid students must:
- 2. Be a U.S. citizen or eligible non-citizen
- 3. Not owe a refund or repayment on prior financial aid and not have a student loan in default
- 4. Have a high school diploma or GED
- 5. Register with Selective Service, if required
- 6. Enroll in financial aid eligible degree or certificate program at Centralia College
- 7. Meet satisfactory academic progress standards

#### APPLYING FOR AID

#### To apply for financial aid, students must submit the following:

- Free Application for Federal Student Aid (FAFSA) This form can be filled out online at www.fafsa.gov. Centralia College's school code is 003772.
- 2. Centralia College Application for Admission To be eligible for funding, students must be admitted to the college for the quarters they wish to receive funds.
- 3. Centralia College Financial Aid Data Sheet
- 4. Verification or Other Required Forms The Financial Aid Office may need additional forms. Students will be notified by mail if this occurs.
- 5. Academic transcripts from all schools attended within the last five years

#### **FUNDING**

Financial aid helps offset the cost of college. The primary responsibility for paying for education rests on the student and their family. However, if the combined financial resources are not enough to cover expenses, students may qualify for funding from these various sources:

- Grants (federal, state or institutional funds): Federal Pell Grant, State Need Grant, Opportunity Grant, or Centralia College Grant
- Workstudy (federal, state or institutional funds): Federal or State Workstudy, Student Employment
- Scholarships (institutional): Centralia College

#### LOANS

Centralia College does not participate in the Stafford Student Loan program, but the following options are available:

- Centralia College Short Term Loan
- · Alternative loans through outside lending agencies

#### **OTHER**

Additional funding may be available for students who:

- Are receiving or have received unemployment benefits within the past 24 months,
- Have exhausted their unemployment benefits;
- Are working parents with a small household income or receiving DSHS/WorkFirst cash assistance
- Are homemakers who now need to financially support their family.

#### For additional information:

Worker Retraining, 360-736-9391, ext. 385 WorkFirst, 360-736-9391, ext. 694

#### **OUTSIDE AGENCIES**

Students who expect to be funded by an outside agency (such as a tribe, L&I, or DVR, for example) need to ensure the payments reach the Cashier's Office by the posted quarterly deadline. Failing to do so may result in being dropped from classes.

#### PAYMENT PLAN

Centralia College offers a payment plan to help students spread the cost of tuition and fees throughout the quarter.

Contact the Business Office, 360-736-9391, ext. 517, for details.

#### STANDARDS OF ACADEMIC PROGRESS (SAP)

To be awarded and continue to receive financial aid funds, students must meet Centralia Colleges SAP standards. Students who do not meet the SAP standards or whose financial aid has been canceled have the option of submitting an appeal. The Financial Aid Office can provide additional information.

Financial aid may be canceled if a student is receiving financial aid and they completely withdraw from or stop attending their classes. In addition, the student may be required to repay a portion of the funds they received.

#### **SCHOLARSHIPS**

#### **Scholarship Coordinator**

Hanson Administration Building 360-736-9391, ext. 471 scholarships@centralia.edu www.centralia.edu/admissions/finaid/scholarships.html

Centralia College, through its foundation, has an array of scholarships available to new and continuing students.

Scholarship applications are available on the college's website beginning in December and are due by March 1. Recipients are selected based on academic excellence, community service/work experience/school activities, a personal essay, writing sample, potential for success, and/or financial need. A single application applies to all scholarships to be awarded. The Scholarship Committee will notify recipients during spring quarter. Eligibility criteria for the scholarships vary.



## **Services for Veterans**

Enrollment Services Office • Student Center Building 360-736-9391, ext. 684 www.centralia.edu/admissions/veterans.html

#### VA CERTIFYING OFFICIAL

#### **Registration Office**

360-736-9391, ext. 684

Centralia College is approved for the education and training of veterans, reservists, the spouses and children of 100 percent disabled or deceased veterans, and eligible dependents who have received transfer benefits.

The VA certifying official can provide the following:

- Assistance through the education benefit application process
- Notification of enrollment and enrollment changes to the VA
- Help in interpreting, explaining, and implementing VA policies and college regulations

#### **VETERANS CENTER**

#### Kemp Hall, Room 103

360-736-9391, ext. 339

The Centralia College Veterans Center is a dedicated safe zone on campus for all veterans and their family members. It provides navigational assistance to the Veterans Affairs website and can assist with the application process for the DD214 and educational benefits. The Veterans Center also connects students to local veterans resources and is certified by the Veteran Friendly Listener program.

## **Working Retraining**

Kemp Hall • Room 120 8 a.m. – 5 p.m. Monday-Friday 360-736-9391, ext. 694

Worker Retraining's goal is to assist eligible students with professional/technical training to return to the workforce. The grant is from the State Board for Community and Technical Colleges, and staff members partner with the Washington State Employment Security Department.

Worker Retraining provides in-demand training to eligible veterans and dislocated workers who face imminent layoffs, have already lost their jobs, and have drawn Unemployment Insurance within the last 24 months. In addition, active duty veterans are eligible if they have separation papers, but are not yet released from the military. Formerly self-employed workers and displaced homemakers may also be eligible. Worker Retraining staff members can help interested students assess the available financial resources and determine the full extent of eligibility.

Staff can help students with career exploration, educational planning, applications, resource referrals, job search assistance, and financial aid applications (fafsa.gov).

Worker Retraining Financial Aid may be awarded for tuition and books, and may be combined with other financial aid or WorkSource funding, depending on the student. Other program funding may be available for childcare, tools, and Training Completion Aid (upon exhaustion of Unemployment Insurance benefits).



## **ACADEMIC INFORMATION**

#### **ENROLLMENT SERVICES OFFICE**

Student Services Building 360-736-9391, ext. 221 • 360-496-5022, Centralia College East admissions@centralia.edu • www.centralia.edu/admissions

#### **CREDIT SYSTEM**

Centralia College divides the academic year into four quarters. Fall, winter and spring quarters are approximately 11 weeks each. Summer quarter is six to eight weeks.

In general, a class that meets one hour per week for one quarter earns one credit; a class that meets five hours per week for one quarter earns five credits. Laboratory and certain other courses vary. The credit hours for each course are listed after the course titles in the Course Description section of this catalog. Some classes, particularly those offered through Transitional Education, offer variable credit (generally from 1 to 5 credits). With assistance from an advisor and/or the course instructor, students decide how many credits they can reasonably carry in one quarter and register for that amount.

To earn credit, students must officially register for a course and successfully complete it with a passing grade.

#### **CREDIT HOUR POLICY**

In compliance with U.S. Department of Education regulation and Northwest Commission on Colleges and Universities policy, college level courses at Centralia College, regardless of modality, shall be at a level of rigor such that the average adequately prepared student will invest approximately 30 hours of effort for each quarter credit earned.

Credits represent time. Each quarter, students must realistically assess their time commitments. Students are encouraged to take a credit load that can be managed successfully. To estimate the time needed to commit to college, students can figure three hours per week for each credit (combined class and study time). For example, a 15-credit load represents approximately 45 hours per week. Some students want to complete their associate degree in two school years. They register for an average of 15 to 18 credits each quarter. Other students take fewer credits each quarter, graduating when their requirements are satisfied.

### **Grades**

Centralia College uses a numerical grading system. Instructors report passing grades from 4.0 to 1.0 in 0.1 increments. Instructors assign the number 0.0 for failing work and must assign a date of last attendance. Numerical grades are equivalent to letter grades as follows:

4.0-3.9 · A · Superior achievement

3.8-3.5 · A-

3.4-3.2 · B+

3.1-2.9 · B · High achievement

2.8-2.5 · B-

2.4-2.2 · C+

2.1-1.9 · C · Average achievement

Note: 1.9 is below the 2.0 minimum requirement for program entrance or completion

1.8-1.5 · C-

1.4-1.2 · D+

1.1-1.0 • D • Minimum achievement

**0.0** • F • Failure to meet minimum course requirements.

#### W • Withdrawal

May be awarded only on or before the 35th class day. May only be student-initiated. Requires dated signature of student. Not calculated in the grade point average. The college encourages students to speak with their instructor(s) before withdrawal.

#### WP • Passing withdrawal

Indicates student had completed enough work to pass the course (1.0 or above) at the time of withdrawal. May be awarded only after the 35th class day, but before the first day of finals. May only be student initiated. Requires dated signature of the student. Requires dated signature and "WP" grade of the instructor. Not calculated in the grade point average.

#### WF • Failing withdrawal

Indicates student was doing failing work (below 1.0) at the time of withdrawal. May be awarded only after the 35th class day, but before the first day of finals. May only be student initiated. Requires dated signature of the student. Requires dated signature and "WF" grade of the instructor. Not calculated in the grade point average. Receiving institutions may treat this grade as a 0.0.

#### I • Incomplete

No grade points calculated. The student must have finished a substantial portion of the work, attended past the 35th class day, be passing the course (1.0 or above), and because of circumstances not ordinarily controllable by the student, was not able to finish the course prior to grading. The instructor and student must complete a detailed contract that specifies what work is remaining, and when it is due. The contract must specify the defaultgrade, if the additional work is not accomplished by the time limit. The grade shall revert to the default grade, if no new grade is turned in by the instructor by the time limit. The instructor, student, and the Enrollment Services Office receive copies of the contract. If there is no contract, or an incomplete contract when an "I" has been requested by the instructor, the grade shall be recorded as an \*, until a complete contract is on file in the Enrollment Services Office. Incompletes must be completed by the end of the next quarter, except that spring quarter incompletes must be completed by the end of the following fall quarter.

#### N • Audit

No credit. Not calculated in grade point average.

#### S • Passing with credit

Not calculated in grade point average. Used only by approved departments. Degrees and certificates may limit the use of S credits.

#### **U** • Unsatisfactory progress

Not calculated in grade point average. Used only by approved departments.

#### Y • In progress

No grade point calculated. Used in courses, such as correspondence, that do not begin or end with the regular quarter calendar. Not calculated in grade point average. A student has two quarters to complete the class (an extension for a third quarter is available for an additional fee). The instructor will submit a change of grade form to the Enrollment Services Office at the completion of the coursework within the time limit. If no new grade is turned in by the instructor a grade of 0.0 will be issued.

#### TIME LIMITATION TO CHANGE A GRADE

Instructor may authorize a grade change within the next quarter of the academic year. Summer quarter is excluded (i.e., spring quarter grade changes must be made by end of fall quarter; summer quarter changes must be made by end of fall quarter).

#### **COURSE AUDIT**

Students may attend a class but not receive credit. To do this, students must register as an "auditor." Auditors pay regular credit hour and lab fees. An auditor does not take examinations or receive credit for the course. The student's transcript will show an "N" for an audited course.

#### **GRADE FORGIVENESS**

The Centralia College grade forgiveness policy may allow students to repair their Centralia College grade point average by not counting poor grades that have been earned. This can be done only under certain circumstances:

- A. Only grades below a 2.0 may be forgiven.
- B. The grades must be at least two years old.
- C. Students must demonstrate improvement by earning a cumulative GPA of 2.5 or higher in all courses taken after the most recent course for which they are requesting forgiveness. Students must have completed a minimum of 24 credits to demonstrate improvement since that last date.

Students can apply for grade forgiveness by submitting a completed Grade Forgiveness Request Form (available from the Enrollment Services Office). Enrollment Services staff will review the student's academic record and determine which grades, if any, may be forgiven. Enrollment Services staff will notify students of the results. Their decision may be appealed in writing to the Director of Enrollment Services. The Director of Enrollment Services will notify students by mail of the results of their appeal.

Forgiven grades and credits will remain on the student's transcript but will not be calculated in their GPA at Centralia College. Forgiven grades cannot be used as credits towards any degree, certificate, program, or course requirement at Centralia College. Forgiven grades cannot be reinstated later.

**ADVISING NOTE:** Forgiven grades may not be recognized by other colleges. This means that staff at another college could recalculate a transfer student's GPA, counting all their grades for admission and transfer purposes.

#### REPEATING A COURSE

Students who repeat a class will receive credit for taking it once. To have a higher grade in a repeated class count toward their GPA, students must submit a Repeat Grade Form for each class to the Enrollment Services Office. Both grades will remain on the student's permanent record.

**ADVISING TIP:** Transfer colleges may choose either grade or the average of two grades.

#### **TRANSCRIPTS**

An official transcript is a copy of a student's academic record signed by the Director of Enrollment Services. There is a small processing fee for each official or unofficial transcript. Transcripts may be withheld if students do not fulfill their obligations, financial or otherwise, to the college. Centralia College works with the National Student Clearinghouse to provide online transcript ordering. More information is available on the college's website.





## **Student Records**

Enrollment Services Office • Student Center Building 360-736-9391, ext. 221 admissions@centralia.edu

#### STUDENT IDENTIFICATION NUMBER

All students will be assigned a Student Identification Number (SID) when they apply for admission to Centralia College. This number provides access to a number of services at the college.

Students' Social Security Numbers are confidential and, under a federal law called the Family Rights and Privacy Act (FERPA), the college will protect it from unauthorized use and/or disclosure. Disclosure of a Social Security Number is in compliance with state/federal requirements. Disclosure will be authorized for the purposes of state and federal financial aid, Hope/Lifetime Learning tax credits, academic transcripts, assessment or accountability research. Failure to submit a Social Security Number may result in a financial penalty by the Internal Revenue Service.

#### CONFIDENTIALITY OF STUDENT RECORDS

FERPA affords eligible students certain rights with respect to their education records. (An "eligible student" under FERPA is a student who is 18 years of age or older or who attends a postsecondary institution.) These rights include:

 The right to inspect and review the student's education records within 45 days after the day Centralia College receives a request for access.

A student should submit to the registrar a written request that identifies the record(s) the student wishes to inspect. The registrar will make arrangements for access and notify the student of the time and place where the records may be inspected.

The right to request the amendment of the student's education records that the student believes is inaccurate, misleading, or otherwise in violation of the student's privacy rights under FERPA.

A student who wishes to ask Centralia College to amend a record should write the registrar, clearly identify the part of the record the student wants changed, and specify why it should be changed.

If Centralia College decides not to amend the record as requested, the College will notify the student in writing of the decision and the student's right to a hearing regarding the request for amendment. Additional information regarding the hearing procedures will be provided to the student when notified of the right to a hearing.

 The right to provide written consent before Centralia College discloses personally identifiable information (PII) from the student's education records, except to the extent that FERPA authorizes disclosure without consent.

Centralia College discloses education records without a student's prior written consent under the FERPA exception for disclosure to school officials with legitimate educational interests. A school official is a person employed by Centralia College in an administrative, supervisory, academic, research, or support staff position (including law enforcement unit personnel and health staff); a person serving on the board of trustees; or a student serving on an official committee, such as a disciplinary or grievance committee. A school official also may include a volunteer or contractor outside of Centralia College who performs an institutional service

or function for which the school would otherwise use its own employees and who is under the direct control of the school with respect to the use and maintenance of PII from education records, such as an attorney, auditor, or collection agent or a student volunteering to assist another school official in performing his or her tasks. A school official has a legitimate educational interest if the official needs to review an education record in order to fulfill his or her professional responsibilities for the Centralia College. Please see below for the full list of the disclosures that Centralia College may make without consent.

#### • The right to prevent disclosure of directory information.

Centralia College routinely publishes and discloses directory information about students to various requestors. At Centralia College, directory information consists of the following: name, address, telephone listing, e-mail address, date and place of birth, photographs, advisor, field of study, participation in officially recognized sports and activities, weight and height of athletes, dates of attendance, grade level, full- or part-time status, honor roll, degrees, awards and scholarships received, most recent previous school attended, and dates of employment. Also, prior military experience and level of education may be provided to representatives of the Department of Defense for recruiting purposes.

Students who choose to have Centralia College not release their directory information, must complete and submit an official form to the Enrollment Services Office. Students should be aware that requesting Centralia College to withhold directory information may prevent other colleges and employers from receiving information that may benefit the student.

 The right to file a complaint with the U.S. Department of Education concerning alleged failures by Centralia College to comply with the requirements of FERPA. The name and address of the Office that administers FERPA is:

Family Policy Compliance Office U.S. Department of Education 400 Maryland Avenue, SW, Washington, DC 20202

For the full confidentiality information, see the The Family Educational Rights and Privacy Act (FERPA).

#### PHOTO CONSENT STATEMENT

All students are advised that Centralia College, through the College Relations Office, takes photographs and shoots videos throughout the year, which may include images (as well as audio/video recordings of voices) of members of the student body and reserves the right to use them for publicity, promotional and marketing purposes.

The College also reserves the right to take photographs of campus facilities and scenes, events, faculty, staff and students for promotional purposes in any areas on campus or at any Centralia College-sponsored event off campus where subjects do not have a normal and reasonable expectation of privacy. All such photographs and videos are defined as "Directory Information" and are the property of Centralia College and may be used for Centralia College promotional purposes (e.g. electronic and printed publications, websites, classroom use, college ads, etc.) without prior permission of the subjects.

As a general practice, there is no attempt to collect individual photo release forms from students. Instead, College Relations makes the assumption that Centralia College students welcome involvement in these activities. However, students who do not wish to have their images/voices used for this purpose must stipulate this in writing to the College Relations Office at the beginning of the quarter. It is also expected that such students will excuse themselves from photo/video sessions and inform the Centralia College photographer/videographer that they do not wish to be included.



#### **CHANGE OF ADDRESS**

Students must notify the Enrollment Services Office when their address changes. This allows the college to mail important information.

#### NAME CHANGE

It is important that students' names are accurately reflected on their records. It is the student's responsibility to notify the Enrollment Services Office of any name change.

#### **EMERGENCY MESSAGES**

Centralia College has no way to relay messages into classrooms or buildings. Only messages relating to accident, illness of a child, or death will be relayed to students. Contact the Enrollment Services Office. Please disclose the nature of the emergency and the college will attempt to locate a student. However, there is no guarantee of success.

#### E2CAMPUS (EMERGENCY NOTIFICATION)

The possibility of an emergency exists on the Centralia College campus. There are natural and man-caused situations that require all students, faculty and staff members, and others who might be impacted to be notified. The college subscribes to e2Campus as the primary means of mass notification when emergency and selected other events and situations arise that impact the normal operation of the college.

To receive emergency alerts, students can sign up online at www.centralia.edu/news/emergency.html. Subscribers will receive emergency, crisis, severe weather, priority, or other important messages via text, email, voice mail, twitter, etc. Subscribing to e2Campus includes subscription to the Lewis County Code Red Emergency messaging system, which provides messages from county emergency personnel.

The college will test its emergency response and evacuation procedures on at least an annual basis, including publishing its procedures in conjunction with at least one test per calendar year, and documenting a description of the exercise.

#### **RIGHT TO KNOW**

#### **Annual Security Report**

The annual security report has numbers for the previous three years about crimes reported on or near the college. The report also outlines college policies about campus security, alcohol and drug use, crime prevention, sexual assault and crime reporting. A copy of this report is available online at www. centralia.edu/students/srtk/cleryact.html.

#### **Graduation and Transfer Rate Report**

The annual graduation and transfer rate report has the percentage of Centralia College students who graduate or transfer to other colleges. A copy of this report is available by contacting the Office of the Vice President of Student Services, or by accessing it online at www.centralia.edu/students/srtk/ccssgradcomm.html.

## **Academic Standards Policy**

Centralia College is a state supported public institution. Tuition covers about 34 percent of the cost of education. Tax dollars provide the rest. The college expects students to be serious about their education and to plan for their success. The college provides many ways to help; one is by setting standards for academic success.

#### LOW GRADES POLICY

Students who register for six or more credits in a quarter must earn a cumulative grade point average of 2.0 or above. Students who do not receive a cumulative GPA of 2.0 or above will be placed on warning, probation, or suspension. The category depends upon how many times in a row the student falls below 2.0. If a student registers for six or more credits in a quarter and raises their cumulative grade point average to 2.0 or above will have their warning, probation, or suspension status removed.

#### WARNING

The first time a student's cumulative grade point average falls below 2.0, they will be placed on warning status. There is no appeal.

#### **PROBATION**

If a student's cumulative grade point average falls below 2.0 twice in a row, they will be placed on probation status. There is no appeal.

#### **ONE-OUARTER SUSPENSION**

If a student's cumulative grade point average falls below 2.0 three times in a row, the college will suspend the student for one quarter. Students suspended at the end of spring quarter may not attend summer or fall quarters. During suspension, students may not register for any course. In addition, they may not participate in events or activities reserved for students. Suspended students may appeal. Students who do not appeal may return after their suspension is over. Students are required to raise their cumulative GPA to a 2.0 or better at the end of the quarter in which they return. If they do not, they will be suspended again for a quarter.

#### **APPEALS**

Suspensions may be appealed. The appeal is simple. The suspended student must show proof of circumstances over which they did not have control and/or show proof of making measurable and substantial progress towards repairing their cumulative GPA. This applies for all the quarters that added up to the suspension. The appeal is a meeting with the Vice President of Student Services, who reviews appeals on a case-by-case basis. The vice president may grant an appeal, may allow the student to continue under certain conditions, or may deny the appeal. The decision of the vice president is final.

### Graduation

Students planning to graduate at the end of winter or spring quarter need to submit an Application for Graduation form by Nov. 30 for priority credit evaluation. For graduation in summer or fall quarter, application forms are due by April 30. The application form is available at the Enrollment Services Office. A fee is when the Application for Graduation is submitted. There is also a fee for a graduation cap and gown.

#### TIME RESTRICTION FOR GRADUATION

Students may graduate under provisions of any official catalog in effect over the last three years, counting backwards from when they applied for graduation. Substitutions for courses that have changed or are no longer offered must be approved by the program head. Arrangements will be made for students enrolled in a program that is discontinued to complete their degree in a timely manner.

#### COMPLETION OF CREDITS FOR DEGREE

To be eligible for a degree from Centralia College, students must complete their final 15 credits, or 35 of the last 45 credits at Centralia College. To be eligible for a certificate from Centralia College, students must complete their final 10 credits, or 15 of the last 25 credits at Centralia College. Students may earn a second degree or certificate if they satisfy all requirements of both degrees.

A commencement ceremony is held at the end of the academic year. Student who applied for graduation during that year may take part in the ceremony. Centralia College will mail diplomas or certificates approximately 60 days after the end of the quarter. Students may order a replacement diploma for an additional cost.

#### **ACADEMIC HONORS**

#### **Quarterly Honors**

Any student who completes 12 or more credits in a quarter, including any credits in classes numbered below 100, is eligible for quarterly honors, and any student awarded is invited to attend the Honors Reception in the spring. Students with a quarterly GPA of 3.9 to 4.0 will be on the President's List and will be awarded a Gold Seal Certificate. Students with a quarterly GPA of 3.75 to 3.89 will be on the Vice President's List and will be awarded a Silver Seal Certificate. Students with a quarterly GPA of 3.50 to 3.74 will be on the Dean's List.

#### **Graduation Honors**

This applies to any student who earns a degree or certificate of proficiency. Students with a GPA of 3.90 to 4.0 will graduate with HIGHEST HONORS. They will receive a gold medallion and may wear a gold cord. Students with a cumulative GPA of 3.75 to 3.89 will graduate with HIGH HONORS. They may wear a gold cord. Students with a cumulative GPA of 3.50 to 3.74 will graduate with HONORS. They may wear a silver cord.

Individuals receiving the honors listed above will be recognized in the commencement program and have the honor stated when his or her name is announced at commencement.





## **STUDENT TRANSFER**

Centralia College has transfer agreements with most of the four-year colleges and universities in Washington.

Only the Associate in Arts (AA), Associate in Liberal Arts (ALA), and Associate in Science (AS) degrees are designed specifically to transfer. These degrees are covered by Statewide Transfer Agreements.

Depending on the college to which a student transfers and their major, they may need to select specific courses within a degree to ensure full transferability. These transfer degrees assure the transfer of credit, but not automatic or guaranteed admission, since each institution has separate admission criteria based on grades, test scores, and other considerations.

The Associate in Applied Science–Transfer (AAS–T) degree is designed for transfer to specific four-year colleges and universities for students pursuing specific professional/technical programs. The AAS-T degree is not designed for general transfer.

The Associate in Technical Arts (ATA) and Associate in General Studies (AGS) are NOT generally designed for transfer. There are a few very specific exceptions to this. The ATA degree can sometimes be used to transfer, but only to a few colleges under very special circumstances. These circumstances are called Alternatives for Transfer of Occupational Programs (ATOPS) degrees. The most common are "Upside Down Degree Programs" or "Articulation Agreement Programs." Unless a student has absolutely confirmed that one of these special and very limited exceptions applies to their plans, they are advised not to use the ATA degree for transfer purposes. The AGS degree may contain some courses that transfer, but the AGS degree does not transfer anywhere as a package.

#### AA Associate in Arts

General Transfer include courses required for the student's major.

#### **ALA** Associate in Liberal Arts

General Transfer include courses required for the student's major.

#### AS Associate In Science – Technical and Science

Transfer select courses based on the four-year college and the student's major.

#### **AAS-T** Associate in Applied Science-Transfer

Specific/Restricted Transfer include courses required for the student's major.

#### AAS Associate in Applied Science

Not designed for general transfer.

Ask about "Upside Down Degree" or special articulation agreements.

#### ATA Associate in Technical Arts

Not designed for general transfer.

Ask about "Upside Down Degree" or special articulation agreements.

#### **AGS** Associate in General Studies

Not designed for any transfer. No exceptions.

#### STUDENT RIGHTS IN THE TRANSFER PROCESS.

The Washington State Board for Community and Technical Colleges has published a Policy on InterCollege Transfer and Articulation Among Washington Public Colleges and Universities. This policy spells out student rights in the transfer process.

This policy states, in part, "Students have the right to expect fair and equitable treatment from the public colleges and

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

## **Transfer Degrees**

#### ASSOCIATE IN ARTS (AA)

#### ASSOCIATE IN LIBERAL ARTS (ALA)

Centralia College's Associate in Arts (AA) degree and other degrees based on the Direct Transfer Agreement (DTA) conform to rules established by the Inter College Relations Committee (ICRC) and are maintained by the Joint Articulation Oversight Group (JAOG). This means that if a student successfully completes one of these degrees, they will have met most, if not all, of the general university requirements at many baccalaureate colleges in Washington.

This is the first step in preparing for entry with junior standing. The second step is including courses required by the student's major. As of the printing of this catalog, the following baccalaureate colleges and universities will accept either of these degrees from Centralia College in accordance with the Direct Transfer Agreement under the ICRC guidelines.

Colleges or universities marked with an \* have some special requirements which must be satisfied at Centralia College and/or at the baccalaureate institution in order to complete all the general undergraduate requirements. These additional requirements are called provisos.

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

Students are encouraged to meet frequently with their advisor, review the catalog and transfer guide of the institution to which they are planning to transfer, and consult with representatives of the baccalaureate institution. They should do this planning very early. This is especially important if the student plans to transfer to an institution that has provisos as indicated by the "\*".

Meeting general undergraduate requirements is important but not sufficient. It is also important that students meet the specific requirements required by their college major. Most college majors require students to take certain courses to prepare for entry as a junior in their major.

These requirements vary from major to major and from college to college. Usually these requirements can fit within the Associate in Arts or other degrees based on the Direct Transfer Agreement Degrees. If a student does not fold these courses into their degree at Centralia College, they may have to extend their college program by taking additional courses either at Centralia College or at the baccalaureate institution. Early selection of a college major is very important in planning a transfer program. Also, early planning with an advisor is imperative. Early decision making and early planning can save additional coursework.

#### ASSOCIATE IN SCIENCE (AS)

Centralia College's Associate in Science (AS) degrees conform to rules established by the Inter College Relations Committee (ICRC) and are maintained by the Joint Articulation Oversight Group (JAOG). This specialized degree program is designed for students pursuing science, technical, engineering, and pre-professional degrees. The Associate in Science degree places more emphasis on completion of mathematics and pre-major science, computer science, or engineering classes before transfer to enable students to begin upper-division coursework immediately.

The Associate in Science degree is divided into two tracks, depending upon academic major interest:

#### **Associate in Science Degree Track 1**

Biological Sciences, Environmental/Resource Sciences, Chemistry, Geology, Earth Science, Chemistry, Biology and General Science Education.

#### **Associate in Science Degree Track 2**

Engineering, Computer Science, Physics, Atmospheric Sciences and Physics Education.

Students who successfully complete either degree will have met most, if not all, of the lower-division science and mathematics major requirements at many baccalaureate colleges in Washington. This is the first step in preparing for entry with junior standing. The second step is including courses required by the student's major.

As of the printing of this catalog, the following four-year colleges and universities will accept either of the degree tracks from Centralia College in accordance with statewide agreements under the ICRC guidelines.

- Central Washington University
- Eastern Washington University
- Gonzaga University
- Pacific Lutheran University
- Seattle Pacific University
- Seattle University
- The Evergreen State College
- University of Washington
- Washington State University
- Western Washington University
- Whitworth College

Meeting all general undergraduate requirements is not as important for the AS program. Students will finish the requirements at the four-year college. It is more important that students meet the specific requirements required by their intended college major. Most science and technical majors require students to take many courses to prepare for entry as a junior in their major. These requirements vary from major to major and from college to college. Usually these requirements can fit within the Associate in Science degree. Students who do not fold these courses into their degree at Centralia College may have to extend their college program by taking additional courses either at Centralia College or at the baccalaureate institution. Early selection of a college major is paramount in planning an AS transfer program. Also early planning with an advisor is imperative. Early decision making and early planning can save additional coursework.

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

Centralia College's Associate in Applied Science-Transfer (AAS-T) degree is designed to meet the requirements of specific four-year colleges and universities. This specialized degree program is for students pursuing professional-technical degrees. In general, technical degree programs are not designed for transfer. However, several four-year colleges and universities have specific degree programs that accept the AAS-T degree. Institutions and majors outside the specifically designed degrees will accept very few of the credits in the AAS-T degree.

Students should meet frequently with their advisor, review the catalog and transfer guide of the institution to which they are planning to transfer, and consult with representatives of the baccalaureate institution. This planning should be done very early.

- Q-1. If I complete the Associate in Arts (AA), the Associate in Liberal Arts (ALA), or the Associate in Science (AS) degrees at Centralia College, will I have fulfilled the first two years of a bachelor's degree?
- A. Most of the time. Your progress toward a bachelor's degree will not always divide neatly into two-year blocks. Depending on your major, more than four years may be needed to complete a bachelor's degree. The AA or ALA assures that you will have satisfied most, and in many cases all, general education requirements at a baccalaureate college or university.

The AS degree, however, spreads the general graduation requirements between Centralia College and the transfer college or university. This degree places more emphasis on completion of mathematics and pre-major classes (sciences) before transfer to enable you to begin upper-division coursework immediately. The AAS-T degree offers limited transfer options. Institutions and majors outside the specifically designed degrees will accept very few credits in the AAS-T degree.

The educational philosophy of the various public and private colleges and universities are different and often include special requirements such as foreign language, religious studies, and special philosophy studies. Those students who have already selected a baccalaureate college should contact its admission office for further information.

- Q-2. If I complete one of the direct transfer degrees, will I be guaranteed admission to the college or university of my choice?
- A. No. However, admission priority is given to Washington state residents transferring with one of the approved direct transfer degrees. Each college or university looks at your cumulative academic record, intended major, completion of major prerequisites, grade trends, and sometimes a writing sample in determining admission. You may also be responsible for meeting entrance requirements required by a major department or college.

- Q-3. If I earn an associate degree that is not a direct transfer degree (e.g., an Associate in Technical Arts, Criminal Justice, for example), will I have satisfied the general university requirements at a signatory baccalaureate college or university?
- A. No. Transfer students with associate degrees other than an approved direct transfer degree will have their community college courses reviewed one by one to meet university requirements. Some schools have special Alternatives for the Transfer of Occupational Programs (ATOPS), but such arrangements depend upon the individual college or university programs.
- Q-4. Why do some students, who transfer with 90 or more quarter-hour credits from a community college but without an associate degree, not meet the general education requirements at a baccalaureate college or university?
- A. The completed courses may not be the right mix of courses to match baccalaureate degree requirements.

  The direct transfer degree (DTA) is designed to ensure that your courses will apply to a bachelor's degree.
- Q-5. What happens if I transfer with more than 90 quarter hour credits from a community college?
- A. Most four-year colleges and universities will allow more than 90 quarter hours to count towards the total number of credits for the bachelor's degree.
- Q-6. Is it true that a significant number of students have problems transferring from a community college to a university or college in Washington?
- A. No. Very few community college students in Washington have transfer problems when entering a university. Those students who do have problems failed to plan early and/or seek advising help.

  Therefore, early in your studies you should develop a plan with the help of a college advisor who will advise you about courses that meet the requirements of the direct transfer associate degrees at your particular community college and also meet college or university entrance requirements.



## **SERVICES FOR STUDENTS**

## **Bookstore**

Student Center, Room 001
7:30 a.m. - 4 p.m. Monday – Friday (summer hours vary)
360-736-9391, ext. 310
bookstore@centralia.edu
www.centraliabookstore.com

The Centralia College Bookstore serves students, faculty, staff, and community members. The bookstore offers new and used textbooks, reference materials, study aids, art supplies, computer supplies and software, stationery, gifts, insignia items, clothing, and snacks.

Extended hours are offered at the beginning of each quarter. Summer quarter hours may differ slightly. The bookstore buy-back takes place during the three days of final exams. The summer quarter schedule may differ slightly.

## **Cafeteria**

Student Center
7:45 a.m.-2 p.m. Monday-Thursday
7:45 a.m. – 1:30 p.m. Friday (summer hours vary)
360-736-9391, ext. 240

Food Services offers a full line of fast foods, sandwiches, soups, salads, buffet, beverages, and a variety of snack items for breakfast and lunch.

## **Childcare**

412 S. Oak St., Centralia 7:30 a.m.-5:30 p.m. (summer hours may vary) 360-736-9391, ext. 462

Childcare services are available on campus for children ages one month through five years.

The childcare program has been accredited by the National Association for Young Children, and provides a safe, nurturing learning environment. Parents participate in the children's classrooms and receive college credit for their involvement.

The childcare center is also utilized by the Early Childhood Education programs on campus for training and observation purposes.

## **Advising/Counseling Center**

Student Center Building 8 a.m.-5 p.m. Monday-Friday (summer hours may vary) 360-736-9391, ext. 265 advising@centralia.edu

The Advising/Counseling Center offers a variety of services. Appointments are recommended, however, drop-in counseling may be available.

#### **CAREER SERVICES**

Career counseling provides assistance with career exploration and decision-making. Counselors review a student's aptitude, interests, values, and skills, and provide career inventories and tests to help identify suitable career paths.

Free, interactive computer programs are available. These include Washington Occupational Information System (WOIS), and other career guidance programs. These computer systems help students assess their interests, values, and skills, and suggest matching career fields and occupations. These systems can be used to search for specific information concerning training, skill needs, rate of pay, job prospects, etc. Students usually do not need an appointment.

The Advising/Counseling Center maintains current and detailed reference materials on career information. Counselors also have directories for schools and files on specific occupations, which can be used alone or with staff assistance.

#### PERSONAL SERVICES

Personal counseling provides assistance with various problems that may interfere with a student's education. Examples include stress, family and relationship problems, interpersonal conflicts, parenting difficulties, sexuality issues, anxiety, depression, or grief.

Workshops are designed to assist students with a variety of topics. They are offered periodically. Watch for announcements about specific topics, dates, and times.

#### **EDUCATIONAL SERVICES**

#### **Pre-admissions Counseling**

Pre-admissions counseling can provide information about programs, courses, and services.

#### **Educational Counseling**

Educational counseling can help with study skills, academic deficiencies, test anxiety, setting realistic goals, transfer information, program planning, and class scheduling questions.

#### **Test Interpretation**

Test interpretation is provided for the ASSET and COMPASS placement tests and career inventories (COPS, Strong Interest Inventory, CAI, etc.).

#### **Transfer advising**

Faculty advisors are the primary source for assisting students in transferring to a four-year college. However, counselors can assist with additional information. Transfer information for two- and four-year colleges in Washington are available in the Advising/Counseling Center.

#### **Scholarship information**

The Advising/Counseling Center maintains a file of scholarships offered at Washington four-year colleges and universities, private organizations and businesses, and a variety of government agencies. Eligibility criteria for each scholarship may vary. A staff person can assist in research.

#### **High School Completion**

Adult High School Completion may provide options for those who have not yet graduated from high school. Counselors can explain the options and procedures, and assist in setting a goal that best meets the student's needs.

## **Honors and Recognition**

#### PHI THETA KAPPA

Phi Theta Kappa, the honor society of the two-year college, accepts students with a 3.4 or higher GPA. Contact a Centralia College advisor for information.

#### **OUTSTANDING STUDENT AWARD**

Any member of the college community may nominate a student for the Outstanding Student Award. Students may also nominate themselves. The Outstanding Student Awards are presented at commencement. The Office of the Vice President of Student Services has nomination forms and information about eligibility and criteria for the award.

#### ALL-WASHINGTON ACADEMIC TEAM

The Centralia College president names one or two students annually to the All-Washington Academic Team. These students are also nominated for the All-USA Today Academic Team, a national student recognition program. To be eligible for nomination, students must demonstrate academic achievement, community activities, and service to the college while attending Centralia College. Nominations are made during fall quarter.

## **International Student Programs**

#### **International Student Programs Office**

360-736-9391, ext. 492 intl@centralia.edu www.centralia.edu/international

The International Student Programs helps international students with academic, immigration, career, and personal concerns. Staff also assist with housing by locating host families, placing students in international houses, and distributing an apartment locator guide.

An active international student club organizes social events, educational activities, and service projects. The club introduces international students to American friends and North American culture. All international students, including those attending the Intensive English Program, are automatically members of the International Student Club.

International students must follow immigration regulations. With an F-1 (student visa), students must enroll in and maintain a minimum of 12 credits per term (18 IEP credits), make satisfactory progress toward a degree, and maintain a cumulative grade point average (GPA) of 2.0 (C) or better. Instructors, advisors, and the staff of International Students Programs can provide assistance.

#### STUDY ABROAD

#### **Student Center Building, Room 103**

360-736-9391, ext. 224

Centralia College is a member of the Washington Community College Consortium for Study Abroad (www.wcccsa.com). In cooperation with Green River Community College, Centralia College offers study abroad programs to Japan, Australia/New Zealand, and The Netherlands.

## **Transitional Education**

#### **Kirk Library Building**

7:30 a.m.-9 p.m. Monday-Thursday 7:30 a.m.-4 p.m. Friday (summer hours may vary) 360-736-9391, ext. 216 testingcenter@centralia.edu www.centralia.edu/academics/basic

Transitional Education offers students a chance to overcome barriers, reconstruct their goals, and succeed in their educational endeavors. A variety of courses are offered for academic skill development and self-improvement. Courses are provided in the following formats: lecture, lecture/laboratory, and laboratory.

Transitional Education provides testing services for college placement, HS21+, GED, English as a Second Language (ESL), International Student (IEP), pre-college, financial aid ability-to-benefit, pre-GED, and proctor tests for other universities. Centralia College is also an official Pierson View testing site.

Testing accommodations are provided for documented disabilities. Visit the Office of Disability Services for more information.

## **Instructional Support**

#### WRITING CENTER

#### Kemp Hall, Room 105

Hours vary by quarter 360-736-9391, ext. 564 writingcenter@centralia.edu www.centralia.edu/academics/writingcenter

The Writing Center is a drop-in learning center with computer stations, resources, and friendly staff to assist students at any stage of the writing process. The Writing Center also provides appointment-based tutoring, hands-on workshops, and supplemental instruction.

Students can also receive writing assistance online through the Washington Online Writing Lab at www.owl.centralia.edu. Students can access self-help resources and submit their drafts for review by a writing tutor.

#### PROS (PRESENTATION RELIEF SQUAD)

#### Washington Hall, Room 205

10 a.m.-1 p.m. Monday-Friday (summer hours vary) 360-736-9391, ext. 539

This drop-in center provides help in planning and preparing speeches or presentations for any course.

#### MATH AND SCIENCE LEARNING CENTER

#### **Walton Science Center, Room 309**

360-736-9391, ext. 205 www.centralia.edu/students/tutoring.html

The Math and Science Learning Center is a venue for students to study collaboratively and receive help and guidance from faculty members and peer tutors. The drop-in center provides free tutoring, computer workstations, and a group work area for science, technology, engineering, and math students.

#### **PFFR TUTORING**

#### **Walton Science Center, Room 309**

Hours vary by quarter 360-736-9391, ext. 205 www.centralia.edu/students/tutoring.html

Peer tutoring is an instructional support technique used successfully with students at all levels. Peer tutors help students master a subject area. Tutoring can strengthen and improve students' academic abilities and achievement. Upon request, and with faculty approval, tutoring is available for most classes taught at Centralia College.

Peer tutoring is free to registered Centralia College students. To apply for tutoring or to be a peer tutor, students need to complete an application form and obtain approval from their instructor.

Free online tutoring is available 24 hours a day for a variety of subjects at www.centralia.edu/students/tutoring.html.

#### LIBRARY

360-736-9391, ext. 241 librarian@centralia.edu library.centralia.edu

The Kirk Library provides a broad array of print and digital information resources. Additionally, the library provides access to computers with the full Microsoft Office suite. The Kirk Library website is the gateway to information resources and academic research tools. Access to the library catalog of books and multimedia materials, high-quality databases, and research aids are available 24/7.

Currently enrolled students may borrow materials by showing student photo identification. Librarians and staff are available to assist library users in locating information and conducting research. Librarians are available in person or online 24/7 through the library's live chat reference service.

#### **eLEARNING**

#### **Kirk Library**

360-736-9391, ext. 672 elearning@centralia.edu cconline.centralia.edu

The eLearning Department provides assistance to all students with using online learning platforms, such as Canvas or Tegrity. Students can also access online learning support tools, such as online tutoring and the online writing lab. Visit the Centralia College Online website to connect to these services.

During the library hours, get in-person help with technology and information resources at the ASK HERE desk.

## **Parking**

All vehicles parking in Centralia College parking lots must have a valid Centralia College decal. Decals for students and staff vehicles are available at the Information Desk in the Student Center. The decal for the first vehicle is available at no charge. Additional decals are available at a modest cost.

Provisions can be made for physically disabled employees, visitors, and students.

A Guest Permit is required for visitors requiring parking for longer than 30 minutes. Guest Permits are available at Central Services and are valid in any undesignated oncampus parking spaces.

Racks are provided for bicycles. Bicycles are not permitted inside buildings.

Violation of parking and traffic rules may result in fines or other penalties. Centralia College may withhold students' official transcripts until fines are paid.

## **Sports Programs**

#### INTERCOLLEGIATE ATHLETICS

#### **Health and Wellness Center, Room 117**

8 a.m.-5 p.m. Monday-Friday (summer hours may vary) 360-736-9391, ext. 307 www.centralia.edu/athletics

Centralia College is a member of the Northwest Athletic Conference (NWAC). The teams are known as the Trailblazers. The comprehensive intercollegiate athletic program provides competition for both men and women students and is gaining an enviable record in all league competition.

The athletic program offers opportunities to participate in the following varsity team sports:

- Baseball Men
- Basketball Men and Women
- Golf Women
- Softball (fast pitch) Women
- Volleyball Women

### **Student Job Center**

#### **Student Center Building**

8 a.m.-4:30 p.m. (summer hours may vary) 360-736-9391, ext. 208

The Student Job Center can help Centralia College students find part-time jobs to supplement their educational costs. The office has an open door policy, various resources, and caring staff members to help students with their job search.

#### **Student Employment Programs:**

- Federal Work-Study On-campus (must be eligible for financial aid)
- Non-need-based On-campus Employment
- Federal Work Study Community Service (on and offcampus, must be eligible for financial aid)
- State Work Study On-campus (must be eligible for financial aid)
- State Work Study Off-campus (must be eligible for financial aid)
- Federal Work Study Reading/Math Tutor (must be eligible for financial aid)
- Cooperative Work Experience (students earn credits for on the job learning related to their area of study)

## **Disability Services**

#### **Student Center Building**

360-736-9391, ext. 320 www.centralia.edu/students/disabilities

Centralia College complies with Section 504 of the Rehabilitation Act of 1973, the Americans with Disabilities Act of 1990, and all other applicable state and federal regulations that prohibit discrimination on the basis of disability.

Students with disabilities, who wish to receive assistance, should contact the Disability Services Office as soon as possible, preferably at least six weeks before the start of the quarter. Disability Services staff members will determine accommodations on an individual case-by-case basis. Current (usually not older than three years) documentation of the disability by a qualified professional is required.

Requests for accommodations for special events or activities must be submitted early enough for Disability Services staff to review documentation and arrange accommodations.



# Student Life and Involvement Center (SLIC)

**Student Center Building, Room 101** 

360-736-9391, ext. 224 activities@centralia.edu www.centralia.edu/slic

### HOW TO GET INVOLVED

The Student Life and Involvement Center is the headquarters for student leadership and campus involvement. SLIC oversees student government; budgets for all student-funded programs, clubs, and organizations; and programs campus activities and support services to all student-funded programs. SLIC holds leadership training throughout the year for all student leaders and any student that is interested. SLIC also provides student identification cards, maintains a campus lost and found, and posts on campus bulletin boards.

### STUDENT GOVERNMENT ASSOCIATION (SGA)

Centralia College recognizes the ASCC Student Government as part of the college's governance structure. The ASCC Student Government serves as the recognized representative of Centralia College students. The ASCC Student Government holds weekly meetings that are open to all students. Members of the Student Government are elected each spring and receive compensation for their time. The Student Government appoints students to be part of the governance process by serving on college committees.

### STUDENT ACTIVITIES TEAM (SAT)

The Student Activities Team is a student team selected and hired in conjunction with the ASCC Student Government and college staff. SAT plans cultural, social, educational, and recreational events for students on campus. They develop a well-rounded balanced calendar of activities and events that include speakers, musicians, comedians, films, outings, and recreational tournaments. These are paid positions.

#### CLUBS AND ORGANIZATIONS

Student clubs and organizations offer opportunities for students to meet friends, satisfy special interests, and contribute to campus life. Students can organize and join associations to promote their special interests.

Currently recognized student groups include but are not limited to:

- Gay Straight Alliance
- Outdoor Club
- Psychology Club
- International Network
- Multicultural Club
- · Phi Theta Kappa
- Latinas Unidas
- Centralia College East Organization of Students
- TRiO Club
- Science Club
- Art Club
- Students for Life
- Forensics Accounting
- Diesel Tech Club
- Applied Physics and Engineering
- and many more.

Students are encouraged to start clubs through the recognition process. For a complete list of currently recognized clubs and organizations, visit www.centralia.edu/slic.

### **Student Rights and Responsibilities**

The college has established policies providing for the rights and responsibilities of students. Copies of this code (WAC 132L-120) are available from the SLIC or the Vice President of Student Services Office.

- This is a summary of the Student Rights and Responsibilities Code. It is not a complete summary and does not replace the actual code. Refer to the code itself for a complete understanding of its content.
- 2. Centralia College has this code to help fulfill its mission. See WAC 132L-120-010.
- 3. If you violate this code, Centralia College can discipline you. See WAC 132L-120-010.
- 4. Some words in the code have technical or special meanings. These are defined. See WAC 132L-120-15.
- 5. You are accountable for your behavior both on and off campus. See WAC 132L-120-030.
- 6. You have constitutional rights. See WAC 132L-120-040.
- 7. You have these freedoms: access, association, press, speech, assembly, due process, and other rights. You are also protected from unlawful discrimination, sexual harassment, and unreasonable search. See WAC 132L-120-070.
- 8. You should take an active role in your learning, obey the law, and follow college rules. See WAC 132L-120-080.
- Do not hurt, intimidate, or bother people. See WAC 132L-120-080.
- 10. Be honest and tell the truth. See WAC 132L-120-080.
- 11. Do not cheat. See WAC 132L-120-080.
- 12. Do not steal or cause damage to other people's property. See WAC 132L-120-080.
- 13. Do not go where you are not supposed to. See WAC 132L-120-080.
- 14. Do not abuse computers, telephones or other electronic equipment; do not use them to break the law or to bother people. See WAC 132L-120-080.

- 15. The use of tobacco, alcohol, and drugs is strictly controlled. See WAC 132L-120-080.
- 16. Hazing is prohibited. See WAC 132L-120-080.
- 17. If you disrupt the classroom, the faculty member may remove you for that day. The same thing could happen if you disrupt an office. You can also be disciplined further. See WAC 132L-120-090.
- 18. If you violate the code, you can receive anything from a warning to dismissal. You can also be fined or have other restrictions placed on you. See WAC 132L-120-100.
- 19. If you are a threat to people, you will be suspended immediately. You will get a hearing later. See WAC 132L-120-110.
- 20. If you are accused of violating this code, you will be summoned to an initial hearing. See WAC 132L-120-120.
- 21. You can appeal decisions to the judicial board, then to the president. See WAC 132L-120-140.
- 22. There are rules about how the judicial board conducts its process and handles records. You can have an attorney represent you. See WAC 132L-120-150.
- 23. There are rules about how the judicial board considers evidence. The college has to prove its case by a preponderance of evidence. See WAC 132L-120-160.
- 24. There are rules about what the judicial board can do, and how it communicates its results. See WAC 132L-120-170.
- 25. There are rules about how and when to appeal to the president. See WAC 132L-120-180 to 190.
- 26. There are rules about how this code is changed. WAC 132L-120-200 to 220.

### **TRiO Programs**

### **Student Services Building**

8 a.m.-5 p.m. Monday-Friday (summer hours may vary) 360-736-9391, ext. 201 TRiO@centralia.edu www.centralia.edu/students/trio/

Three federally funded TRiO programs, Upward Bound, Talent Search, and Student Support Services, provide support services to help first-generation college-bound students who meet federal income guidelines. The programs assist students as they prepare for college, attend college, and transfer to a four-year college or university.

### **TALENT SEARCH**

This program helps young people in grades 7-12 as they explore their career and educational options beyond high school.

### **UPWARD BOUND**

This program provides academic assistance for those in grades 9-12 as they prepare for success in college.

### STUDENT SUPPORT SERVICES

This program provides a variety of levels of support to help students stay in college, graduate, and/or transfer to a fouryear college.

### TRiO programs offer these services

- Academic and career planning assistance
- Assistance in completing college admission, scholarship, and
- financial aid applications
- Assistance in preparing for college entrance examinations
- · Transfer information, planning, and college visits
- Mentoring and tutoring
- Cultural enrichment activities
- Workshops/conferences and campus tours

# **Technology Resources**

The college provides a wide range of computing resources and internet services to students, faculty, and staff. There are general-purpose computer labs with Windows-based PCs equipped with a variety of software applications. There are specialty labs supporting various programs including computer graphics, music, electronics, robotics, computer science, and civil engineering.

### **Email**

Registered students will be issued a Centralia College email account. The college will send all official communication to this student email account. Students are responsible for activating and checking this account regularly.

Students may choose to forward messages to a different email account; however, they are still responsible for all information sent to their student account.

### **eLearning Courses**

### **Kirk Library**

360-736-9391, ext. 672 elearning@centralia.edu cconline.centralia.edu

### **ECORRESPONDENCE COURSES**

eCorrespondence courses allow students to complete coursework on a self-paced schedule. Registration is open until the 35th class day of each quarter. There are no due dates for assignments and students have up to two quarters to complete a course. (Financial aid students must check their eligibility to complete in two quarters.) Course material is available online, and homework can be turned in online, as well.

### **ONLINE COURSES**

Online courses are dynamic and interactive virtual classrooms where students can login any time, day or night. Students have the flexibility of working in an online classroom when it's convenient, but there are assignments, class start and end dates, and due dates. Students in online courses should plan on logging in regularly to interact with the instructor and other students.

### **HYBRID COURSES**

Hybrid courses replace in-class time with online time. For example, a five-credit class may meet on campus two hours a week and conduct the rest of the week's learning activities online.

### WEB-ENHANCED COURSES

Web-enhanced courses meet 100 percent of the class time on campus, but include resources or other activities online. For example, students may take a five-credit class that meets five hours a week on campus, but they can access multimedia materials, practice quizzes, or get extra help online. Many of the classes at Centralia College are web-enhanced.

### FLFX COURSES

In flex courses, students can decide whether to attend face to face or online, and can switch between those modes during the quarter.

# **Extended Learning**

### APPRENTICESHIP PROGRAMS

Apprenticeship courses are offered in cooperation with local joint training commissions or with approval of L&I. Apprentices must be in an approved training program.

### **CERTIFICATE PROGRAMS**

Centralia College offers several vocational certificate programs. Contact Centralia College Workforce Education Office for details.

### CONTINUING EDUCATION

A variety of non-credit classes and workshops are offered throughout the year. These classes are self-supporting and are offered at various times and places. The classes are designed for personal enrichment and/or job advancement. The Office of Continuing Education also develops and coordinates training for business and industry in the local community. Consult the quarterly schedule of classes or contact the Office of Continuing Education for current offerings or training needs. For information on Continuing Education classes, call 360-736-9391, ext. 427.

### SENIOR COLLEGE/LIFELONG LEARNING

### Office of Continuing Education

360-736-9391, ext. 427

These classes enrich life and cultivate the love of lifelong learning. Classes are small, ungraded, affordable, and geared to the interests and lifestyles of older adults.

### NIGHT, WEEKEND AND ELEARNING CLASSES

Commitments to a job or other obligations can prevent students from completing a college degree or certificate program, or from attending classes for professional development or personal enrichment. Centralia College evening, weekend and eLearning (online) classes can help. This program allows many students to stay with their jobs while taking classes during their free time.

It may be possible to complete the following degrees by enrolling in a combination of eLearning (online), evening and weekend classes.

#### **Degrees**

- Associate in Arts
- Associate in Applied Science Transfer, Accounting
- Associate in Technical Arts Criminal Justice
- Associate in Technical Arts Power Plant Operations
- Associate in Technical Arts Office Technology
- Associate in Applied Science, Transfer Business Administration



## **Centralia College East**

701 Airport Way • P.O. Box 147 • Morton, WA 98356 360-496-5022 • 360-736-9391, ext. 380 www.centralia.edu/cce

### Centralia College East (CCEast) represents Centralia College's dedication to meeting educational needs of the residents of central and eastern Lewis County.

CCEast provides educational advising, college level placement testing, registration services, Running Start testing and advising, tutoring, financial aid assistance, GED testing and classes, T.E.E.N. Program (high school completion program for pregnant and parenting teens and their partners), and online access to Centralia College's library resources. In addition, a variety of classes connect students to the Centralia campus via interactive video. The CCEast Organization of Students offers leadership development as well as activities for the students.

# The mission of CCEast is to provide an environment that nurtures learning by providing:

- Associate degree programs
- Local access to resources for technical training
- Basic skill development
- Lifelong learning opportunities to help students attain personal, family, and career goals
- Student-centered support services
- · Cultural activities for the community

### ASSOCIATE IN ARTS DEGREE PROGRAM

Academic classes offered at CCEast enable students to complete a Centralia College Associate in Arts degree in two years. Both day and evening classes are available.

### ASSOCIATE IN TECHNICAL ARTS COURSEWORK

Coursework toward Business Technology certificates and Associate in Technical Arts (ATA) degrees is offered at CCEast for a variety of programs, including administrative assistant, medical administrative assistant, and accounting. For students planning on entering other professional/technical programs, such as nursing, civil engineering technology, or diesel technology, CCEast offers many of the prerequisite and support courses.

### **BUSINESS OFFICE TECHNOLOGY**

Develop computer-based skills in CCEast's computer lab. Classes such as Microsoft Office, Excel, Word, digital photography, and computer graphics are offered regularly. Community Business classes offer an opportunity to gain skills that may be applied to the business setting or for professional development. These courses are non-transcripted and are offered at a reduced rate.

### SKILL DEVELOPMENT PROGRAM

GED and Adult Basic Education (ABE) classes prepare students for the GED and for college preparation courses. Self-paced ABE classes are offered in math, writing, and reading. GED testing is offered at CCEast quarterly.

### OTHER OFFERINGS

CCEast offers personal enrichment opportunities for credit and non-credit, including an array of adult special interest and community education classes, including the summer theater performed at the Roxy Theater in Morton.

# Garrett Heyns and Cedar Creek Corrections Education Centers

Centralia College operates the Garrett Heyns and Cedar Creek Education Centers under an agreement with the Washington State Department of Corrections.

The alliance with Garrett Heyns Education Center at the Washington State Corrections Center in Shelton began in 1975. Educational offerings include Adult Basic Skills, GED prep courses, GED testing, industrial sanitation, and information technology courses.

In 2011, Centralia College assumed oversight of the education center at Cedar Creek Corrections Center located in Littlerock. Courses administered include Adult Basic Skills, GED prep, GED testing, building maintenance, drywall, roofing, horticulture, and siding.

## **Cooperative Education**

#### **Student Job Center**

360-736-9391, ext. 208 www.centralia.edu/jobresources

Cooperative Education is a partnership involving Centralia College, students, and employers from the community working together to extend classroom learning to the workplace. Students can be placed in a job relating to their field of study or career plan.

Cooperative Education personnel will interview students and assist them in locating an appropriate co-op experience. Students who are already employed may be interviewed to determine eligibility for Cooperative Education.

After securing an appropriate placement, students will meet with co-op personnel, who will enroll them in a Cooperative Work Experience course. In addition, a Work Experience Seminar is required either prior to or concurrent with all cooperative work experiences.

# **DEGREES AND CERTIFICATES**

Centralia College offers different degrees to meet varied student needs. All associate degrees require a minimum of 90 credits. Students must complete the last 15 credits or 35 of the final 45 credits at Centralia College to be eligible for a degree from Centralia College. It is possible to earn a second degree if a student satisfies all the requirements of both degrees.

### BACHELOR OF APPLIED SCIENCE DEGREES

A traditional bachelor degree requires general education classes from many disciplines and is designed to provide students a wide base of knowledge, allowing them to concentrate their education in the third or fourth year of their education. A BAS degree gives students the chance to focus their education on their specific educational and career goals early within your education and incorporates more practical and concentrated hands-on learning in a specific industry or the career of their choice.

### GENERAL TRANSFER DEGREES

General transfer degrees are accepted by all state colleges and universities in Washington through formal agreements, including the Direct Transfer Agreement (DTA), between the universities and the community college system. Students who complete a General Transfer degree will, upon acceptance to a Washington public or signatory private college or university, generally be granted 90 transfer credit. Students may still need to complete more than 90 quarterly credits to graduate in their major. Centralia College General Transfer degrees include:

- Associate in Arts and derivative degrees
- Associate in Science and derivative degrees

#### LIMITED TRANSFER DEGREES

Limited Transfer degrees may be accepted by select baccalaureate institutions, but there is no statewide agreement guaranteeing 90 credits will be accepted in transfer. Depending upon the institution, students may have their credits evaluated on a course by course basis. Centralia College Limited Transfer degrees include:

### ASSOCIATE IN APPLIED SCIENCE - TRANSFER

Workforce Education degrees are designed to provide detailed skills related to a profession and are not primarily intended for transfer.

Some institutions accept these degrees under an "upside down" model that allows the student to complete content-specific work in the first two years and round out his or her education by completing general university requirements (GURs) in the second two years of the baccalaureate. Centralia College Workforce Education degrees include:

- Associate in Applied Science
- Associate in Technical Arts

#### GENERAL STUDIES DEGREE

The General Studies degree allows the student more latitude in designing a degree based upon personal interests, but does not necessarily meet the requirements for direct transfer. As with all degrees not designated as General Transfer, there is no guarantee all 90 credits required for the degree will transfer.

### CERTIFICATES OF PROFICIENCY

Certificates of Proficiency are Workforce Education programs that require at least 45 credits and which provide job specific skills.

### **CERTIFICATES OF COMPLETION**

Certificates of Completion are similar to Certificates of Proficiency except requiring less than 45 credits.

### HIGH SCHOOL DIPLOMA AND GED

High School Diplomas and GEDs can be obtained by meeting all requirements for the Centralia College High School Diploma or by passing the GED tests, respectively.



### **Educational Outcomes**

Student learning is central to the college's mission.

All degrees offered by Centralia College are designed to provide experiences that lead to the attainment of general education outcomes as embodied in the following Learning Themes:

#### REASONING

The ability to extract information from data, develop ideas and solutions, establish logical progression in thinking, and problem solve using such procedures as literary analysis or the scientific method.

### WRITTEN, ORAL AND VISUAL COMMUNICATION

The ability to make oneself understood in public, interpersonal, professional, artistic, and technical arenas.

### EXPLORATION - SELF AND OTHERS

An awareness of the values, beliefs, customs, and contributions from one's own and other traditions, ethnicities, classes and genders.

### RESOURCEFULNESS

The ability to adapt to change, such as technological innovations or environmental conditions.

### **RESPONSIBILITY**

The ability to be accountable to self, society, and the natural world.

To support the attainment of these general educational outcomes, instruction in major areas of inquiry is required for all degrees. The transfer degrees include courses in the Distribution Areas of communication, quantitative skills, humanities, social sciences, natural sciences, diversity, and health and fitness. Workforce Education degrees and certificates of proficiency achieve this end through the inclusion of related instruction in communication, computation, human relations, and health and fitness.

### **Program Outcomes**

Distribution Area Outcomes, found at the end of this section, define the program outcomes for degrees based on the Direct Transfer Agreement (DTA) and Associate in Science. In addition to the general outcomes, individual transfer programs have content designed to prepare students for success in that field.

Each Workforce Education degree or certificate includes courses that enable students to achieve profession-specific learning outcomes. These program outcomes are listed on the program pages on the college website.

### **General Transfer Degrees**

### ASSOCIATE IN ARTS DEGREE

In addition to the general requirements listed below, derivative programs may have additional requirements as listed in the programs of study in the next section. The Associate in Arts degree represents the broad knowledge generally acquired in the first two years of a four-year program leading to a Bachelor of Arts degree. When students earn the AA, they may transfer to a baccalaureate institution within the state of Washington with assurance that they have satisfied all or most of the basic requirements (General University Requirements/ Distribution Requirements). This means, generally, that AA transfer students can begin work on their specialized, major-area course work as soon as they transfer.

### **Degree requirements:**

To qualify for an Associate in Arts degree, students must complete a minimum of 90 credits in courses numbered 100 or above, with a cumulative grade point average (GPA) of at least 2.0 ("C" average).

The 90 credits must include the following:

	re Skills Communication Skills ENGL& 101, ENGL& 102, ENGL& 235		
b.	Quantitative Skills	5 cr	edits
Humanities		n the	
uic	100 level may apply.		

Social Sciences 15 cre	dits
Select from at least three disciplines listed on the distribution	list.

Health and Fitness3 cr		
Selected from either discipline listed on the distrib	oution list.	

Diversity ......3 credits
A 3 to 5 credit course listed as a Diversity (D) course. Diversity courses may also meet other Distribution Requirements.



### ASSOCIATE IN SCIENCE DEGREE

The Associate in Science degree represents attainments generally required by four-year colleges and universities for preprofessional programs in scientific disciplines. The need for early concentration on coursework in the chosen scientific major diminishes the general educational experience demonstrated by the Associate in Arts degree.

By working with an advisor in the completion of one of the two Associate in Science tracks, students can transfer to one of the Washington baccalaureate institutions with reasonable assurance they have completed all or most of the prerequisite courses for the targeted science major.

#### **Degree requirements:**

either category.

- 1. A minimum of 90 credits is required for the degree.
- 2. A minimum grade point average (GPA) of 2.0 ("C" average) is required for the degree.
- Students completing this Associate in Science degree
  will receive the same priority consideration for admission
  to most Washington state baccalaureate institutions as
  they would for completing the direct transfer Associate
  in Arts degree and will be given junior status by the
  receiving institution.
- Additional general education requirements, cultural diversity requirements, and foreign language requirements, as required by the transfer institution, must be met prior to the completion of a baccalaureate degree.
- 5. Students are responsible for checking specific major requirements of baccalaureate institutions in the year prior to transferring.

Courses for programs of study fall into two tracks that are listed in the program section of this catalog. These programs are designed to match specific major requirements and also to meet the general distribution requirements listed below:

Cor	Core Skills 15 credits				
a.	Communication Skills	5 credits			
	ENGL& 101				
b.	Quantitative Skills	10 credits			
	MATH& 151, MATH& 152				
Hui	manities & Social Sciences	15 credits			
Sele	ect from at least three disciplines listed on the c	listribution			
list	with at least 5 credits from humanities (H) and !	5 credits			
fror	from social sciences (SS). The remaining 5 credits can be from				

Health and Fitness......3 credits Select three (3) credits from the list of courses approved for health and fitness (HF) distribution.

# Track I – Biological Sciences, Environmental/Resource Sciences, Chemistry, Geology, Earth Science

### Core Requirements: ...... 46-54 credits

- a. CHEM& 161, 162, 163
- b. MATH& 146 or MATH& 163
- c. BIOL& 221, 222, 223 or PHYS& 221, 222, 223
- d. Additional requirements: 10 18 science credits from courses normally taken by science majors, preferably in a 2 or 3 quarter sequence (biology majors should select physics or organic chemistry).

Remaining Credits: .....3-11 credits

# Track II – Atmospheric Science, Computer Science, Engineering, Physics

Core Requirements: ...... 30 credits

- a. PHYS& 221, 222, 223
- b. CHEM& 161
- c. Computer programming (4 credits minimum)
- d. MATH& 163 or MATH& 146

Remaining Credits: ......27 credits

Electives up to a maximum of 15 credits from courses numbered 100 or above that are not included on the ICRC approved electives list should be planned with the help of an advisor, based on the requirements of the specific discipline at the baccalaureate institution and using the programs listed later in this catalog.

### ASSOCIATE IN LIBERAL ARTS DEGREE

The Associate in Liberal Arts degree provides a broad background of knowledge rather than a course of study narrowly focused on preparation for a specific field of employment or profession. This degree develops reasoning, judgment, and expression abilities. Students who earn the ALA degree may transfer to a baccalaureate institution within the state of Washington with assurance that they have satisfied all or most of the basic requirements (General University Requirements). This means, generally, that the ALA transfer student can begin work on their specialized, major course work as soon as they transfer.

### **Degree requirements:**

To qualify for this degree, students must complete a minimum of 90 credits in courses numbered 100 or above, with a cumulative grade point average (GPA) of at least 3.0

("B" average).

The 90 credits must include the following:

Co	Core Skills15 credits				
a.	Communication Skills	10 credits			
	ENGL& 101				
	ENGL& 102				
	ENGL& 235				
b.	Quantitative Skills	5 credits			
	Any (M) designated math course numbered 13	1 or higher.			
Foreign Languages15 credits					
Fift	Fifteen (15) credits in one foreign language, five (5) of which				
cou	count toward Humanities Distribution.				
НΔ	Health and Fitness 3 credits				

Three (3) credits from the list of courses approved for Health and Fitness distribution.

### Humanities......20 credits

A minimum of twenty (20) credits in humanities, including one course from at least three of these subjects: Art, Drama, Literature, Music, Philosophy. No more than five (5) credits from performance/skill courses. Five (5) credits of Foreign Language count toward Humanities. Select courses from the distribution list.

### MAJOR RELATED PROGRAMS

In addition to the transfer degrees listed above, the college offers degrees derived from both the Associate in Arts degree (AA) and the Associate in Science degree (AS). These degrees have been developed through collaboration between the State Board for Community and Technical Colleges (SBCTC) and the public colleges and universities in Washington.

These degrees may have specific requirements beyond those required by the AA or AS as listed in the program plan.

### **Limited Transfer Degrees**

### ASSOCIATE IN APPLIED SCIENCE-TRANSFER

The Associate in Applied Science-Transfer degree is for transfer to schools offering baccalaureates in applied science. This degree combines the technical focus of the Associate in Technical Arts with a minimum of 20 credits of transferable academic courses.

This degree is not generally transferable. Students intending to transfer should work with an advisor to make sure this is the right degree.

### **Degree Requirements:**

To qualify for the degree, students must complete a minimum of 90 credits in subjects numbered 100 or above. Students must also achieve a grade point average (GPA) of at least a 2.0 ("C" average).

Courses must be selected in accordance with a college programs of study. Check with an advisor for a current list of programs. These programs are designed to incorporate specific and major requirements as well as meet general education and related instruction requirements. The program must include:

a.	English Communications ENGL& 101	5 credits
b.	Quantitative Reasoning (see distribution list)	5 credits
c.	Humanities & Social Science (see distribution list)	10 credits
d.	Health & Fitness (see distribution list)	3 credits

### **Workforce Degrees**

### ASSOCIATE IN TECHNICAL ARTS DEGREE & ASSOCIATE IN APPLIED SCIENCE DEGREE

Students whose plan is to prepare to compete for employment in an occupational field may choose to earn an Associate in Technical Arts or an Associate in Applied Science degree. Since this degree concentrates on a particular trade or skill, it does not have broad general education requirements.

Whether a technical course will transfer or count as a degree requirement for a baccalaureate degree is at the discretion of the transfer college or university.

The 90 credits must include the following related instruction minimum requirements:

b.	Health and Fitness3 credits from list of approved health or PE courses in Health and Fitness distribution (HF)	\$
c.	Computation Skills5 credits	5
d.	Human Relations5 credits	5

a. Written Communication Skills.....5 credits

### **Occupational Major**

Programs vary in total credits necessary to obtain a degree, although the minimum requirement is 90 credits. Core program credits are designed to meet occupational skills standards.

### **Associate in General Studies Degree**

The Associate in General Studies degree is designed for students who do not plan to transfer to a four-year college or pursue an Associate in Technical Arts degree in a specific occupational area. It is a terminal degree with emphasis on improvement of basic skills, general knowledge in the areas of humanities, natural science and social science, and some specialty of choice. This degree is designed to prepare the student to lead a full and useful life.

To qualify for the Associate in General Studies degree, students must complete 90 credits in courses numbered 100 or above, with a cumulative grade point average of at least a 2.0 ("C" average).

The 90 credits must include the following:

Forty-three (43) credits taken in communication skills, humanities, math/natural sciences, social sciences, and health and fitness consisting of the following:

- A minimum of ten (10) credits in communication skills ENGL& 101, ENGL& 102, or ENGL& 235.
- A minimum of ten (10) credits in each of the three general areas of knowledge (humanities, math/natural sciences, and social sciences). See the AA distribution list.
- Three (3) credits from the list of courses approved for Health and Fitness distribution.

An additional 47 credits of the student's choosing to satisfy their own educational plans or interests. Choices can be occupational, personal enjoyment, physical education, or academic courses.

### **Certificates and Programs**

### CERTIFICATES OF COMPLETION

Students may be awarded a certificate of completion by successfully completing a set group of courses from a professional/technical program. These certificates require significantly fewer credits than a certificate of proficiency. The courses tend to concentrate on one set of skills.

The U.S. Education Department's Gainful Employment regulations require disclosure of certain program information to students and prospective students. For additional information and updates, please visit www.centralia.edu/academics/GE-disclosure.html.

### CERTIFICATES OF PROFICIENCY

Students may earn a Certificate of Proficiency by completing a professional/technical program which requires a minimum of 45 credits, includes related instruction, and a grade point average (GPA) of at least 2.0 ("C"). Certificates of Proficiency are awarded in these programs:

- · Accounting Clerk
- Child Care Specialist
- Crime Scene Investigation
- Practical Nursing
- Medical Office Assistant Office Assistant
- Welding

### HIGH SCHOOL COMPLETION PROGRAM

The High School Completion program is offered to students 21 and older enrolled in the HS21 Program, or to teenagers enrolled in the TEEN Program.

The TEEN Program is designed to provide support services for high-school aged students to be successful in high school graduation and parenting. Participants are able to attend classes, obtain high school graduation and gain parenting skills. This program will assist students in creating a network of other resources and expose them to opportunties academically and vocationally. For more information contact the TEEN Program Office at 360-736-9391, ext. 341.

To earn a high school diploma in the HS21 Program, students must be 21 at time of completion. Students must bring a high school transcript and photo identification to one of the daily orientations (M-F) at noon in the Kirk Library Building. All students enroll in reading, writing, and math courses in addition to a study skills lab where students work on completing courses that are not reflected on their transcripts. The quarterly tuition is \$25 (waivers are available). Classes are flexible with schedules for morning, afternoon, or evening courses. For more information call 360-736-9391, ext. 216.

### GED HIGH SCHOOL EQUIVALENCY

The new GED 2014 program is open to students age 16 and above. Any student under the age of 19 must also provide a high school release to enroll. Program orientation is held daily (M-F) at noon in the Kirk Library Building. All students enroll in reading, writing, and math courses in addition to a study skills lab, where students work on social studies and science courses modeled on the new GED tests. Classes are \$25 per quarter (waivers are available). Classes are flexible with schedules for morning, afternoon, or evening courses. For additional information regarding age limits, fees, testing times and preparation, contact the Phoenix Center 360-736-9391, ext. 216 or Centralia College East ext. 380.

### BILINGUAL (ENGLISH-SPANISH) GED PREPARATION

Taking the GED test in Spanish allows Spanish-speaking adults with limited English skills to advance more quickly toward their educational and professional goals. Obtaining a GED allows Spanish-speaking students to enroll in higher education courses, attend English language classes and/or obtain a more secure job. Students may register any time during the quarter. Requisite: co-enrollment in ESL classes.

### **ADULT BASIC EDUCATION**

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

Students will develop listening, speaking, reading, and writing skills in an integrated manner that fosters cognitive English language acquisition and participation in native English communication in English-speaking environments. The ESL program helps students become more active participants in the community and workplace. It offers them the opportunity to transition into the ABE program, where they can pursue an academic track to either earn a GED or continue to improve their academic English in order to follow a career pathway.

### **Work Skills Development**

Students with a high school diploma or GED can enroll in work skills development courses. These courses embed reading, writing, math, and computer skills in multiple employment contexts to prepare students to continue on to vocational/technical certificates or into the local job market. Program orientation is held daily (M-F) at noon in the Kirk Library building. Classes are held in the mornings. Classes are \$25 per quarter (waivers are available).

### **Basic Skills Improvement**

Students with a high school diploma or GED coming back to college later in life, or entering college from the workforce, can brush-up on their academic skills in reading, writing, and math. Courses are offered in the evening, Monday through Thursday, from 5-8:45 p.m. Classes are \$25 per quarter (waivers are available), and students can co-enroll in basic courses and college courses. Call ext. 216 or come to the Testing Center in the Kirk Library Building for referral to one of the program advisors for enrollment.

#### **Reading for Civics**

Reading for Civics is a Citizenship preparation class. Students will learn to complete the N-400 (Citizenship) application, prepare for the naturalization interview with USCIS, learn interviewing strategies, increase students' confidence with the interview process, and practice reading, writing, speaking, listening and pronunciation in English. Students may register any time during the quarter. Requisite: coenrollment in ESL classes.



### **Distribution Area Outcomes & Courses**

In this catalog, courses that satisfy distribution requirements are identified by a capital letter at the end of the course title. Use the following guide to identify the distribution categories:

- C Communication
- H Humanities
- M Mathematics/Ouantitative Skills
- SS Social Science
- S Science
- HF Health and Fitness
- D Diversity

Distribution Requirements (also known as General University Requirements or GURs) are part of each transfer degree. Courses that fulfill Distribution Requirements meet specific criteria listed below:

### **CORE REQUIREMENTS**

### **Communication Skills (C)**

- 1. The course carries three or more credits.
- The course objectives address three or more of the following outcomes. Upon successful completion of designated courses, students will have demonstrated the ability to:
  - Recognize structures and modes of development that are used to inform, persuade, or entertain (Themes: Communication & Responsibility).
  - Apply analytical thinking to reading, writing, revising, and discussion activities (Themes: Reasoning, Communication and Responsibility).
  - Prepare clearly organized and well-supported written works, including specific documentation formats, which meet the conventions of assignments (Themes: Communication & Reasoning).
  - Collaborate with others respectfully and with attention to guidelines given for various projects (Themes: Responsibility & Exploration of Self and Others).
  - Discuss and respond to writings drawn from diverse traditions, ethnicities, cultures, classes, and genders (Themes: Exploration of Self and Others).
  - Access and utilize appropriate technologies and library resources in the preparation of written and oral projects (Themes: Resourcefulness, Responsibility, and Communication).

#### English

ENGL&	101	English Composition I	5
		Composition II	
ENGL&	235	Technical Writing	5

#### **Quantitative Skills (M)**

- The prerequisite for the course is Algebra II (MATH 099 or equivalent).
- 2. The course objectives address the following outcomes. Upon successful completion of designated courses, students will have demonstrated the ability to:
  - Recognize and then apply mathematical concepts to personal, professional and scientific situations. (Theme: Reasoning)
  - Communicate ideas through mathematics graphically, symbolically, numerically and verbally with clarity and accuracy. (Theme: Written, Oral, and Visual Communication)
  - Utilize technology as a tool in the application of mathematical concepts. (Theme: Resourcefulness)

#### Math

· · · · · · · · · · · · · · · · · · ·			
MATH&	107	Math in Society	5
MATH	115	College Algebra	
MATH	118	Linear Algebra	5
MATH&	131	Math for Elementary Ed I	
MATH&	132	Math for Elementary Ed II	
MATH	135	Precalculus Refresher	
MATH&	141	Precalculus I	
MATH&	142	Precalculus II	
MATH&	146	Introduction to Stats	
MATH	150	Survey of Calculus	
MATH&	151	Calculus I	. 5
MATH&	152	Calculus II	
MATH	228	Discrete Mathematics	

### OTHER REQUIREMENTS

### **Humanities (H)**

- 1. The course carries three or more credits.
- 2. The course objectives addresses three or more of the following outcomes:

#### Students should be able to:

- Articulate the roles, purposes, and functions of the Humanities using discipline-specific vocabulary. (Themes: Communication and Reasoning)
- Recognize and apply the discipline-specific structures used to communicate critically and/or creatively. (Themes: Communication and Reasoning)
- Access and utilize appropriate technologies to research, experience, and respond to the Humanities. (Themes: Resourcefulness, Communication and Reasoning)
- Explore and assess how language, philosophy, and/or the arts represent and record individuals' and communities' engagement with social issues. (Themes: Exploration and Responsibility)
- Demonstrate an understanding of, and appreciation for, how these humanities influence, and are influenced by, their cultural contexts. (Themes: Reasoning and Exploration)

Art		
ART&	100	Art Appreciation5
ART	102*	Drawing I5
ART	160*	Intro to Fibers5
ART	170*	Black & White Photography5
ART	174*	Digital Photography4
ART	200	Art History: Ancient5
ART	201	Art History: 15th-17th C5
ART	202	Art History: 18th-20th C5
ART	203	History of American Art5
Chinese		
CHIN&	121**	Chinese I5
CHIN&		Chinese II5
CHIN&		Chinese III5
CHIN&		Chinese IV5
CHIN&		Chinese V5
CHIN&		Chinese VI5
Commu	nicatio	n Studies
CMST&	102	Intro to Mass Media5
CMST	104	Racism, Sexism & Media3
CMST&	220	Public Speaking5
CMST	250	Intercultural Communication5
Drama		
DRMA&	101	Intro to Theater5
DRMA	105	Theater History3
DRMA	107*	Beginning Acting5
		5 5

DRMA	108*	Intermediate Acting	.5
DRMA	115*	Dramatic Performance	.3
DRMA	120	Introduction to Play writing	.5
DRMA	201*	Advanced Acting	.5
English			
ENGL&	111	Introduction to Literature	
ENGL&	113	Introduction to Poetry	
ENGL&	114	Intro to Dramatic Literature	
ENGL	160	Women's Literature	
ENGL	180	Short Fiction	
ENGL	204	Introduction to Shakespeare	.5
ENGL	208	Intro to Creative Writing	.5
ENGL	209	Hero's Quest: Survey of English	
		Literature, 7th Century-1616	.5
ENGL	210	Crisis of Faith: Survey of English	
		Literature, 1616-1798	.5
ENGL	211	Romance and Revolution: Survey of	
		English Literature, 1798-Present	.5
ENGL	220	American Drama	.3
ENGL	233	Literature for Children & Adolescents	
ENGL&	244	American Literature	
ENGL	249	The Great American Novel	
ENGL	260	Non-Western World Literature	
French			
FRCH&	121**	French I	.5
FRCH&	122**	French II	.5
FRCH&	123**	French III	.5
Humani			
HUM	110	Ethics and Cultural Values	
HUM&	116	Intro to Humanities I	
HUM&	117	Intro to Humanities II	
HUM&	118	Intro to Humanities III	
HUM	270	Survey of Films Studies	.5
Music	105		_
MUSC		Music Appreciation	.5
MUSC&		Ear Training I	
MUSC	130	History of Western Music	
MUSC&	141	Music Theory I	
MUSC	139	Music of the World	
MUSC	140	History of American Music	
MUSC	250*	Musical Theatre Production	.5
Philosop	hv		
PHIL&	101	Introduction to Philosophy	_
PHIL	101	Introduction to PhilosophyIntroduction to Ethics	
PHIL	103	introduction to Ethics	.၁
Spanish			
SPAN&	121**	Spanish I	.5
SPAN&	122**	Spanish II	
SPAN&	123**	Spanish III	
SPAN&	221	Spanish IV	
SPAN&	222	Spanish V	
SPAN&	223	Spanish VI	
JI ANK	223	- Σρατίιστί VI	ر.

- \* No more than five credits allowed for distribution in performance/skills courses.
- No more than five credits in a foreign language at the 100 level allowed for distribution.



### **Social Science (SS)**

- 1. The course carries three or more credits.
- 2. The course objectives address all of the following outcomes. Upon successful completion of designated courses, students will have demonstrated the ability to:
  - Describe social, political, economic, linguistic, cultural, historical, and religious factors that explain human behavior and mental processes at individual and group levels (Theme: Communications & Exploration).
  - Identify and apply terminology, concepts, theories, data, and principles used by the various social science disciplines (Theme: Reasoning & Exploration).
  - Develop an informed sense of self that demonstrates tolerance and respect for diverse perspectives (Themes: Exploration, Resourcefulness & Responsibility).
  - Demonstrate critical thinking skills through formulating questions, analyzing data, and distinguishing between objective fact and subjective interpretation (Theme: Reasoning).

Anthrop ANTH& ANTH& ANTH& ANTH ANTH	100 206 210 225 235	Survey of Anthropology
Econom	ics	
ECON&		Microeconomics5
ECON&	202	Macroeconomics5
Geogra	nhv	
GEOG&		Human Geography5
Uiston		
History HIST&	116	Western Civilization I5
HIST&	117	Western Civilization II5
HIST&	118	Western Civilization III5
HIST&	146	U.S. History I5
HIST&	147	U.S. History II5
HIST&	148	U.S. History III5
HIST&	214	Pacific NW History5
Political	Caiona	
POLS&	101	Intro to Political Science5
POLS&	202	American Government5
POLS&	204	Comparative Government5
		·
Psycholo		Consulation 5
PSYC&	100	General Psychology5
PSYC&	200	Lifespan Psychology5
Sociolog	<i>у</i>	
SOC&	101	Intro to Sociology5
SOC	125	Sociology of the Family5
SOC&	201	Social Problems5
SOC	225	Cultural & Ethnic Pluralism5

### **Natural Science (S)**

- 1. The course is broad in scope, covering major concepts.
- 2. The course objectives address all of the following outcomes. Upon successful completion of designated courses, students will have demonstrated the ability to:
  - Communicate key scientific concepts in oral, written, and/or visual format using the language of science. (Theme: Communication)
  - Apply the scientific method to solve problems, conduct experiments, evaluate data, and test hypotheses.
     (Themes: Reasoning, Resourcefulness & Communication)
  - Critically evaluate scientific information and its sources

     (Themes: Exploration, Responsibility & Reasoning)

Astrono	-	The Color Color
ASTR	125	The Solar System3
ASTR	126	Stars & Galaxies
ASTR	127	The Solar System & Universe5
ASTR	128	Observational Astronomy w/lab2
Biology		
BIOL&	100	Survey of Biology w/lab5
BIOL&	170	Human Biology5
BIOL	175	Microbes and Society5
BIOL&	221	Majors Ecology/Evolution w/lab5
BIOL&	222	Majors Cell/Molecular w/lab5
BIOL&	223	Majors Organismal Phys w/lab5
BIOL&	241	Human A & P 1 w/lab5
BIOL&	242	Human A & P 2 w/lab5
BIOL	243	Adv Topics Human A & P w/lab5
BIOL	250	Intro to Marine Biology w/lab5
BIOL&	260	Microbiology w/lab5
Botany		50 (0.1)
BOTA	110	Survey of Botany (lab)5
BOTA	113	Plant Identification w/lab5
BOTA	150	Dendrology-Trees in Our Env w/lab5
Chemist	ry	
CHEM&	•	Intro to Chemistry w/lab5
CHEM&	131	Intro to Organic/Biochemistry w/lab5
CHEM&		General Chemistry w/lab I6
CHEM&	162	General Chemistry w/lab II6
CHEM&		General Chemistry w/lab III6
CHEM&		Organic Chemistry w/lab I6
		,
		l Science
ENVS&	100	Survey of Env Science5
ENVS	100L	Survey of Environmental Science Lab1
ENVS&	101	Intro to Env Science5
ENVS	120	Watersheds: Connecting Mountains
		to the Sea5
ENVS	170	Intro to Natural Resources3
Geogra	ohv	
GEOG	201	Physical Geography w/lab5
3200		, 5.55.

Geology	/		
GEOL	100	Geology for Engineers and	
		Environmental Science w/lab	
GEOL&	101	Intro to Physical Geology w/lab	5
GEOL	102	Earth Evolution and Global	
		Change w/lab	5
GEOL	108	Natural Hazards & Catastrophe	
GEOL	180	Cascade & Plateau Geology	3
GEOL&	208	Geology of the Pacific NW w/lab	5
Nutritio	n		
NUTR&	101	Nutrition	5
NUTR	203	Issues in Nutrition	
Oceano	aranh	v.	
OCEA&		Intro to Oceanography w/lab	_
0 02, 101			
Physics			
PHYS&	110	Phys: Non-Science Majors w/lab	
PHYS&	114	General Physics I w/lab	5
PHYS&	115	General Physics II w/lab	
PHYS&	116	General Physics III w/lab	5
PHYS&	221	Engineering Physics I w/lab	5
PHYS&	222	Engineering Physics II w/lab	5
PHYS&	223	Engineering Physics III w/lab	5
Science			
SCIE	104	Intro to Physical Science	
SCIE	115	Weather and Climate w/lab	

### **Health and Fitness (HF)**

PΕ

The course provides the student with knowledge and skills that enable them to achieve and maintain optimal health over a lifetime.

Health			
HLTH	120	Women's Health Issues	3
HLTH	130	Health and Wellness	3
HLTH	135	Eating & Weight Control	2
HLTH	140	Exercise and Nutrition	3
HLTH	145	Safety and Fitness	3
Physica	al Educ	ation	
(No mo	re than	3 credits may be taken as academic electives)	
PE	107	Cycling Basics	
PE	110	Physical Fitness	
PE	120	Lifestyle Management & Exercise	2
PE	123	Weight Training	1
PE	125	Free Weights	1
PE	140	Boot Camp Basics	1
PE	142	Cardio Combo	1
PE	150	Yoga	1
PE	151	Aerobic Fitness	1
PE	152	Pilates	1
PE	153	Tai Chi Basics	1
PE	158	Beginning Tae Kwon Do	2
PE	163	Step Aerobics	1
PE	168	Lifetime Fitness	2
PE	169	Cardio Kick boxing	1
PE	210	Advanced Physical Fitness	1
PE	223	Advanced Weight Training	1
PE	229	Physical Fitness Concepts	3
PE	251	Advanced Aerobic Fitness	1
PE	263	Advanced Step Aerobics	1
PE	269	Advanced Cardio Kick boxing	1



### **Diversity (D)**

- 1. The course carries three or more credits.
- 2. Diversity courses may also meet other Distribution Requirements.
- 3. The course focus should address human diversity by examining the experiences and contributions of underrepresented groups. This can include but is not limited to culture, race, ethnicity, gender, sexual orientation, gender identity, socioeconomic class, physical disability, mental disability, religion, age, immigration status and/or geopolitical power.
- 4. The course objectives address the following outcomes: Students should be able to:
  - Demonstrate knowledge of the contributions made by individuals from diverse and/or underrepresented groups. (1, 3, 4, 5)
  - Analyze the multiple identities, histories, cultures, perspectives, contributions, knowledge, struggles, and/or strategies of historically excluded groups. (1, 3, 4, 5)
  - Explain the value of diversity in the classroom, workplace, community, country, and the world. (1, 2, 3, 4, 5)
  - Explain personal views, values, and prejudices and their impact on the ability to identify and benefit from the contributions of others. (1, 2, 3, 4, 5)

Anthrop ANTH& ANTH& ANTH& ANTH ANTH	100 206 210 225 235	Survey of Anthropology
Art ART ART ART	200 201 202	Art History : Ancient5 Art History: 15th-17th C5 Art History: 18th-20th C5
Chinese		
CHIN&	121	Chinese I5
CMST&	nicatio 104 250	on Studies  Racism, Sexism & Media3  Intercultural Communication5
<i>English</i> ENGL ENGL	255 260	Women's Literature5 Non-Western World Literature5
<b>Geogra</b> GEOG&		Human Geography5
<i>Health</i> HLTH	120	Women's Health Issues3
<i>Humani</i> HUM	<b>ities</b> 110	Ethics and Cultural Values5
Music MUSC MUSC MUSC	139 140 264	Music of the World5 History of American Popular Music5 Music History I5
Political	Scienc	ce
POLS&	204	Comparative Government5
<b>Sociolo</b> SOC	<b>gy</b> 225	Cultural & Ethnic Pluralism5

# InterCollege Relations Commission (ICRC) Approved Academic Electives

Accounting	201, 202, 203
Anthropology	all courses numbered 100 and above
American Sign Langua	ge121, 122, 123
Art 100, 102, 111, 130,	160, 170, 174, 200, 201, 202, 203, 210, 211
Astronomy	125, 126, 127, 128
Biology	all courses numbered 100 and above
Botany	all courses numbered 100 and above
Business Administration	<i>n</i> 101, 201
Chemistry	all courses numbered 100 and above
Chinese	all courses numbered 100 and above
Computer Science Tech	nology100, 215, 224
<b>Communication Studies</b>	all courses numbered 100 and above
Criminal Justice	
Drama	all courses numbered 101 and above
Early Childhood Educat	tion105
Economics	201, 202
Education	
English	all courses numbered 101 and above
Environmental Science	all courses numbered 100 and above
French	all courses numbered 100 and above
General Engineering	all courses numbered 111 and above

Geography all courses numbered 100 and above
Geology all courses numbered 100 and above
<i>Health</i>
History all courses numbered 100 and above
Humanities all courses numbered 100 and above
Journalism180
Mathematics all courses numbered 107 and above (except 110 and 116
<i>Media Studies</i> 125, 220, 225, 230, 260
<i>Music</i> all courses numbered 100 and above
<i>Nutrition</i> 101, 202, 203
Oceanography101
Philosophy all courses numbered 100 and above
<b>Physical Education</b> all courses numbered 100 and above (3 credits maximum on P E activity courses)
Physics all courses numbered 100 and above
Political Science all courses numbered 100 and above
Psychology all courses numbered 100 and above
<b>Science</b> 103, 104, 115
Sociology all courses numbered 100 and above
Spanish all courses numbered 100 and above
Speech all courses numbered 100 and above

# **PROGRAMS OF STUDY**

These Educational Plans are intended as a guide for students who wish to emphasize a specific area of study. It is not a guarantee that the courses listed in the plan will be available in the sequence suggested. In some instances, due to low enrollment, some courses may not be offered at all.

Students should consult with their advisor for recommended electives. It is strongly recommended that students intending to transfer to a four-year college or university consult with the intended transfer institution for any prerequisites or additional requirements.

### **ACCOUNTING**

**Emphasis:** Accounting/Tax

**Degree:** Associate in Technical Arts

**PURPOSE:** The ATA program in Accounting provides students with necessary skills to compete for entry-level accounting positions in private industry, state, and local government, and public accounting firms.

**PROGRAM OUTCOMES:** Students who successfully complete this program will have demonstrated the ability to:

- Perform bookkeeping tasks in the service of the business public.
- Assist in the production of financial reporting in accordance with generally accepted accounting principles (GAAP).
- Assist in the conduct of audits in accordance with generally accepted audit standards (GAAS).
- Demonstrate familiarity with the application of computer accounting information systems software (AIS).
- Assist in the determination and disposition of tax liability as it applies to individuals and business entities.
- Prepare industry standard written and oral communications to include the use of Microsoft Word and Excel.
- Successfully complete qualification examinations for either Certified Professional Bookkeeper (CPB).

### **Suggested Order of Classes**

Call Owners Circl Vacu

Fall Qua	ırter, Firs	t Year	Credits
ACCT&	201	Principles of Accounting I	5
BTEC	214	Excel I	5
BUS	121	Business Math	5
			15
Mintor	Quarter	First Voor	Cradita
ACCT&		First Year	Credits
BTEC	210	Principles of Accounting II Word I	
HR	110	Human Relations-Workplace	
пп	110	numan kelations-workplace	 15
			15
Spring (	Quarter, l	First Year	Credits
ACCT&	203	Principles of Accounting III	5
ENGL&	101	Composition I	OR
BTEC	221	Business Communications	5
ECON&	202	Macroeconomics (SS)	OR
ECON&	201	Microeconomics (SS)	5
Health [	Distributio	on – Choose one of the following:	
HLTH	130	Health and Wellness	OR
HLTH	140	Exercise and Nutrition	OR
HLTH	145	Safety and Fitness	3
			18
Fall Ou	irter Sec	ond Year	Credits
ACCT	260	Individual Income Tax	
ACCT	270	Payroll Accounting	
BUS	215	Principles of Finance	
503	213	Timespies of Finance	
			,,
Winter (	Quarter, :	Second Year	Credits
ACCT	220	Accounting Information	
ACCT	240	Business Entity Tax	5
BUS	275	Principles of Management	5
			15
Spring (	Duarter '	Second Year	Credits
ACCT	210	Intro to Audit	
ACCT	285	Accounting Cert. Course	
BUS&	201	Business Law	
503Q	201		

### **ACCOUNTING**

**Emphasis:** Accounting Clerk **Degree:** Certificate of Proficiency

**PURPOSE:** The Accounting Clerk Certificate program prepares students for an entry level accounting position. Some advancement is possible with this background, but students may wish to acquire additional training in accounting to allow broader advancement opportunities. Prerequisite: demonstrate proficiency in math, reading, and English.

**PROGRAM OUTCOMES:** Students who successfully complete this program will have demonstrated the ability to:

- Perform basic bookkeeping and accounting tasks both manually and on the computer.
- Demonstrate the relationships among the various business functions such as accounting, finance, marketing, purchasing, operations, and human resources.
- Demonstrate computer proficiency on the computer keyboard and ten-key calculator as well as Quick Books Pro.
- Prepare written and oral business communications.
- Demonstrate familiarity with business law concepts such as contract law and the Uniform Commercial Code.

### **Suggested Order of Classes**

Fall Qua ACCT& BUS& BUS	201	Credits           Principles of Accounting I         5           Business Law         5           Business Math         5           15
Winter (	Ouarter	Credits
ACCT&	202	Principles of Accounting II5
BTEC	210	Word I5
BTEC	214	Excel I5
BTEC	221	Business Communications5
		20
Spring (	Quarter	Credits
ACCT	220	Accounting Information Systems5
ACCT&	203	Principles of Accounting III5
ACCT	270	Payroll Accounting3
H R	110	Human Relations-Workplace5
		18

### **ACTING**

**See Dramatic Arts** 

### **ANTHROPOLOGY**

**Emphasis:** Anthropology **Degree:** Associate in Arts

**PURPOSE:** The Associate of Arts Degree with an emphasis in anthropology is for students wishing to transfer to a four-year college or university. A student acquiring the Associate in Arts degree in anthropology will achieve an understanding of the diversity of humans and human cultures past and present around the globe.

While preparing the student for further study and eventual employment in the field of anthropology, this educational plan also is relevant for students preparing for a broad range of jobs in both government and international agencies that focus on cross-cultural issues and involve working with people from different cultural backgrounds. These jobs, in addition to work in international and government agencies, might include working in agricultural development and educational reform or as a consultant, planner, market analyst, survey researcher, forensic scientist, or refugee coordinator.

### **Suggested Order of Classes**

Fall Quarter, Firs	et Vear	Credits
	Survey of Anthropology	
	English Composition I	
	ribution*	
Tiditidiffices Disc	115411011	15
Winter Quarter,	First Year	Credits
ANTH& 210	Indians of North America	5
ENGL& 102	Composition II	5
<b>Humanities Dist</b>	ribution*	5
		15
Spring Quarter,	First Year	Credits
	Myth, Ritual and Magic	5
	lls Distribution**	
	ıtion	
		15
- "	117	
Fall Quarter, Sec	ond Year	Credits
Fall Quarter, Sec		Credits 5
ANTH& 206	Cultural Anthropology	5
ANTH& 206 Science Distribu	Cultural Anthropologytion	5 5
ANTH& 206 Science Distribu	Cultural Anthropology	5 5
ANTH& 206 Science Distribu Social Science D	Cultural Anthropologytionistribution***	5 5 5
ANTH& 206 Science Distribu Social Science D Winter Quarter,	Cultural Anthropologytiontionistribution***	5 5 15 Credits
ANTH& 206 Science Distribu Social Science D Winter Quarter, Electives	Cultural Anthropologytionistribution***	5 5 <b>15</b> <b>Credits</b>
ANTH& 206 Science Distribu Social Science D Winter Quarter, Electives Health & Fitness	Cultural Anthropologyitionstribution***  Second Year  Distribution	5 5 <b>15</b> <b>Credits</b> 7-10
ANTH& 206 Science Distribu Social Science D Winter Quarter, Electives Health & Fitness	Cultural Anthropologytionistribution***	5 5 <b>15</b> <b>Credits</b> 7-10
ANTH& 206 Science Distribu Social Science D Winter Quarter, Electives Health & Fitness Social Science D	Cultural Anthropologytionstribution***  Second Year  Distribution*** istribution***	5 5 <b>15</b> <b>Credits</b> 7-10
ANTH& 206 Science Distribu Social Science D Winter Quarter, Electives Health & Fitness Social Science D	Cultural Anthropology tion istribution***  Second Year  Distribution istribution***	5 5 15 Credits 7-10 3 5 15-18
ANTH& 206 Science Distribu Social Science D Winter Quarter, Electives Health & Fitness Social Science D	Cultural Anthropology tion istribution***  Second Year  Distribution istribution***  Second Year  Cultural and Ethnic Pluralism	5 5 15 Credits 7-10 3 5 15-18 Credits
ANTH& 206 Science Distribu Social Science D  Winter Quarter, Electives Health & Fitness Social Science D  Spring Quarter, ANTH 225	Cultural Anthropology tion	5 5 15 Credits 7-10 3 5 15-18 Credits
ANTH& 206 Science Distribu Social Science D  Winter Quarter, Electives Health & Fitness Social Science D  Spring Quarter, ANTH 225  Elective	Cultural Anthropology tion	5 5 15 Credits 7-10 3 5 15-18 Credits
ANTH& 206 Science Distribu Social Science D  Winter Quarter, Electives Health & Fitness Social Science D  Spring Quarter, ANTH 225  Elective	Cultural Anthropology tion	5 5 15 Credits 7-10 3 5 15-18 Credits

ANTH 260 or ANTH 290 the Anthropology Field trip is strongly recommended.

- \* A language is strongly recommended.
- \*\* MATH& 146 Introduction to Stats is recommended.
- \*\*\* HIST& 116 Western Civilization I is recommended for Anthropology students desiring to specialize in Archaeology.

Anthropology majors are encouraged to develop a broad base in the social sciences to include SOC& 101 Intro to Sociology, PSYC& 100 General Psychology or HIST& 116 Western Civilization I.

### **ART**

### See Fine Arts or Graphic Design

### **ASTRONOMY**

**See Earth Science** 

### **BIOLOGY**

**Emphasis:** Biology, Botany, Ecology, Zoology **Degree:** Associate in Biology-DTA/MRP

**PURPOSE:** This program is for students who wish to complete a bachelor's degree in such disciplines as general or molecular biology, zoology, microbiology, genetics, entomology, botany, horticulture, soil science, phycology, ecology, marine biology, fisheries biology, or wildlife management. This program assumes that a student is prepared to start college-level math and English courses. Students who are not prepared to begin at this level may require additional quarters.

To ensure optimal course selection, students are encouraged to plan a program of study with an advisor and with the specific requirements of the likely transfer institution.

### **Suggested Order of Classes**

ENGL& 101	st Year  General Chemistry w/lab I  English Composition I	5 5
		16
Winter Quarter,	First Year	Credits
CHEM& 162	General Chemistry w/lab II	6
ENGL& 102	Composition II	OR
	Technical Writing	
Elective*		5 <b>16</b>
		10
Spring Quarter,	First Year	Credits
	General Chemistry w/lab III	
	Calculus I	
	tribution	
Social Science D	Distribution	
		16
Fall Quarter, Se	cond Year	Credits
BIOL& 221	Majors Ecology/Evolution	5
BIOL& 221 Humanities Dist	Majors Ecology/Evolution tribution	5 5
BIOL& 221 Humanities Dist	Majors Ecology/Evolution	5 5 5
BIOL& 221 Humanities Dist	Majors Ecology/Evolution tribution	5 5
BIOL& 221 Humanities Dist	Majors Ecology/Evolution tribution	5 5 5
BIOL& 221 Humanities Dist Elective**	Majors Ecology/Evolution tribution	5 5 5 <b>15</b> <i>Credits</i>
BIOL& 221 Humanities Dist Elective**	Majors Ecology/Evolutiontribution	5 5 1 <b>5</b> 5 5
BIOL& 221 Humanities Dist Elective**  Winter Quarter, BIOL& 222 Social Science E Elective**	Majors Ecology/Evolution tribution	55 15 Credits55
BIOL& 221 Humanities Dist Elective**  Winter Quarter, BIOL& 222 Social Science E Elective**	Majors Ecology/Evolution tribution	55 15 Credits55
BIOL& 221 Humanities Dist Elective**  Winter Quarter, BIOL& 222 Social Science E Elective**	Majors Ecology/Evolution tribution	55 15 Credits55
BIOL& 221 Humanities Dist Elective**  Winter Quarter, BIOL& 222 Social Science E Elective**	Majors Ecology/Evolutiontribution	5555555
BIOL& 221 Humanities Dist Elective**  Winter Quarter, BIOL& 222 Social Science E Elective** Health & Fitness  Spring Quarter,	Majors Ecology/Evolutiontribution	555555555185
BIOL& 221 Humanities Dist Elective**  Winter Quarter, BIOL& 222 Social Science E Elective** Health & Fitness  Spring Quarter, BIOL& 223	Majors Ecology/Evolution  tribution  Second Year  Majors Cell/Molecular  Distribution  S Distribution  Second Year	55555555555
BIOL& 221 Humanities Dist Elective**  Winter Quarter, BIOL& 222 Social Science E Elective** Health & Fitness  Spring Quarter, BIOL& 223 Humanities Dist	Majors Ecology/Evolution  Second Year  Majors Cell/Molecular  S Distribution  S Distribution  Second Year  Majors Organismal Phys	555555555555555555
BIOL& 221 Humanities Dist Elective**  Winter Quarter, BIOL& 222 Social Science E Elective** Health & Fitness  Spring Quarter, BIOL& 223 Humanities Dist	Majors Ecology/Evolution  Second Year  Majors Cell/Molecular	555555333333

\*Students requiring Precalculus I (MATH& 141) or Precalculus II (MATH& 142) should do so now. These students would use one of the second year electives for a third Social Science or Humanities distribution course. Other students should satisfy a Social Science or Humanities elective.

\*\*Recommended electives include a full year sequence of organic chemistry, or additional math classes at the precalculus level, statistics, or additional calculus.

### **BIOLOGY**

**Emphasis:** Animal Biology (Zoology), Plant Biology (Botany)

**Degree:** Associate in Science

**PURPOSE:** This program is for students who wish to complete a bachelor's degree in such disciplines as general or molecular biology, zoology, microbiology, genetics, entomology, botany, horticulture, soil science, phycology, ecology, marine science, fisheries or wildlife management.

Students who were not well prepared in high school mathematics and science should plan, with an advisor, a three-year program at Centralia College in preparation for transfer to a four-year college or university.

The main emphasis in the first year at Centralia should be on strengthening mathematics, basic sciences, communications, and reading skills. To ensure optimal course selection, students are urged to plan a program of study with an advisor.

### **Suggested Order of Classes**

BIOL& CHEM& ENGL&	101 Quarter, I 222	t Year  Majors Ecology/Evolution General Chemistry w/lab I English Composition I  First Year  Majors Cell/Molecular	6 5 <b>16</b> <b>Credits</b>
MATH&		Calculus I	
	223 163	First Year Majors Organismal Phys General Chemistry w/lab III Calculus II	6
Biology/ Social So	Chemist	ond Year ry/Physics sequence*stribution Distribution	5
Biology/ MATH& MATH&	Chemist 146 163	Second Year ry/Physics sequence* Introduction to Stats Calculus III	OR 5
Biology/ Social So Humani	'Chemist cience Di ties Distr	second Year ry/Physics sequence*stributionibution	OR 5

#### Science electives:

BIOL& 241, 242, 243 Human A & P w/lab series I-III CHEM& 261, 262, 263 Organic Chemistry w/lab I-III; PHYS& 221, 222, 223; Engineering Physics I-III

<sup>\*</sup> Biology majors should select organic chemistry or physics for second year sequence.

### **BUSINESS**

**Emphasis:** Business Administration **Degree:** Associate in Business-DTA/MRP

**PURPOSE:** The Associate in Business is designed for students who plan to transfer to a four-year college or university to complete a bachelor's degree in business.

### **Suggested Order of Classes**

Fall Quarter, Firs	st Year Macroeconomics	Credits
ECON& 202	English Composition I	55 ء
Humanities Dist	ribution	5 5
Tiumamiles Disc	TIDUUOTI	15
Winter Quarter,		Credits
	Microeconomics	
	Composition II	
Science Distribu	tion**	
		15
Spring Quarter,	First Year	Credits
MATH& 146	Introduction to Stats	5
CMST& 220	Public Speaking	5
	Precalculus I (if needed)	
Health & Fitness	Distribution	
		15-18
Fall Quarter, Sec	ond Year	Credits
	cond Year Principles of Accounting I	
ACCT& 201 BUS& 201	Principles of Accounting IBusiness Law	5 5
ACCT& 201 BUS& 201 MATH& 142	Principles of Accounting I Business Law Precalculus II (if needed)	5 5 5
ACCT& 201 BUS& 201 MATH& 142	Principles of Accounting IBusiness Law	5 5 5
ACCT& 201 BUS& 201 MATH& 142	Principles of Accounting I Business Law Precalculus II (if needed)	5 5 5
ACCT& 201 BUS& 201 MATH& 142 Social Science D	Principles of Accounting I Business Law Precalculus II (if needed) istribution	5 5 5 1 <b>5-20</b> Credits
ACCT& 201 BUS& 201 MATH& 142 Social Science D Winter Quarter, ACCT& 202	Principles of Accounting I  Business Law  Precalculus II (if needed)  istribution	5 5 5 <b>15-20</b> <i>Credits</i>
ACCT& 201 BUS& 201 MATH& 142 Social Science D  Winter Quarter, ACCT& 202 MATH& 151	Principles of Accounting I  Business Law  Precalculus II (if needed)  istribution	555 15-20 Credits5
ACCT& 201 BUS& 201 MATH& 142 Social Science D  Winter Quarter, ACCT& 202 MATH& 151	Principles of Accounting I  Business Law  Precalculus II (if needed)  istribution	555 15-20 Credits55
ACCT& 201 BUS& 201 MATH& 142 Social Science D  Winter Quarter, ACCT& 202 MATH& 151	Principles of Accounting I  Business Law  Precalculus II (if needed)  istribution	555 15-20 Credits5
ACCT& 201 BUS& 201 MATH& 142 Social Science D  Winter Quarter, ACCT& 202 MATH& 151 Science Distribut  Spring Quarter,	Principles of Accounting I  Business Law  Precalculus II (if needed)  istribution  Second Year  Principles of Accounting II  Calculus I*  tion**	55 15-20 Credits5 15 Credits
ACCT& 201 BUS& 201 MATH& 142 Social Science D  Winter Quarter, ACCT& 202 MATH& 151 Science Distribut  Spring Quarter, ACCT& 203	Principles of Accounting I  Business Law  Precalculus II (if needed)  istribution  Second Year  Principles of Accounting II  tion**  Second Year  Principles of Accounting III	55555555555555
ACCT& 201 BUS& 201 MATH& 142 Social Science D  Winter Quarter, ACCT& 202 MATH& 151 Science Distribut  Spring Quarter, ACCT& 203 MATH& 152	Principles of Accounting I  Business Law  Precalculus II (if needed)  istribution  Second Year  Principles of Accounting II  Calculus I*  Second Year  Principles of Accounting III	5555555555555
ACCT& 201 BUS& 201 MATH& 142 Social Science D  Winter Quarter, ACCT& 202 MATH& 151 Science Distribut  Spring Quarter, ACCT& 203 MATH& 152	Principles of Accounting I  Business Law  Precalculus II (if needed)  istribution  Second Year  Principles of Accounting II  tion**  Second Year  Principles of Accounting III	5555555555555

Students should confer with an advisor at their baccalaureate institution regarding the course choices in each area where options are listed: Humanities, Social Sciences, Natural Sciences and electives.

- \* Five of the 10 Quantitative credits required may include the prerequisite for Calculus (MATH& 141 and/or MATH& 142) and can be substituted for MATH& 152.
- \*\* At least 10 credits in physical, biological and/or earth sciences including at least one lab course.

### **BUSINESS ADMINISTRATION**

**Degree:** Associate in Applied Science

**PURPOSE:** The Associate in Applied Science with a Business Administration Emphasis of Management, provides students with a broad exposure to the principles and philosophies of business and management. Successful completion of the two-year program will help facilitate the process of graduates pursuing meaningful careers in a dynamic, changing business environment. It will also satisfy the requirements necessary for students to pursue additional advanced degrees.

**PROGRAM OUTCOMES:** Students who successfully complete this program will have demonstrated the ability to:

- Prepare statements to monitor, evaluate, and assess financial performance of the entity.
- Evaluate the performance of a business by using tools of pricing, promotion, product development, and distribution.
- Recognize and analyze how economic forces shape the environment of business and aid in decision making.
- Demonstrate the ability to apply acquired skills to workplace scenarios.
- Demonstrate human relations skills and professional behavior necessary for successful job performance.
- Apply rules of grammar, punctuation, and spelling to written communications.
- Define and compare and contrast characteristics and traits of leadership and management.
- Explain the importance and challenges of diversity, employee motivation, and employee engagement in the workplace.
- Identify and describe various forms of business ownership.
- Summarize basic laws in regards to business ownership, recruitment and hiring practices, OSHA, and liability.
- Explain communication, social responsibility, ethics, morals, and values as they relate to the workplace.
- Create a personal code of ethics and explain how it relates and impacts the workplace.
- Identify the impact of international business and explain various methods for a business to enter the global market.
- Describe the activities involved in each function of management and at various levels of management in the workplace.

-	arter, Firs		Credits
ACCT ECON&		Financial Reporting Microeconomics	
ECON&		Macroeconomics	
BUS&		Intro to Business	
DOJQ	101	into to business	15
Winter (	Quarter,	First Year	Credits
ACCT&	203	Principles of Accounting III	5
BTEC	214	Excel I	5
BUS	121	Business Math	5
Health 8	& Fitness	Distribution	3
			18
Spring (		First Year	Credits
BTEC	210	Word I	
BTEC	221	Business Communications	
ENGL&		English Composition I	
HR	110	Human Relations-Workplace	5
			15
Fall Qua	arter, Sec	ond Year	Credits
BUS	232	Entrepreneurship	
BUS	220		
BUS	240	Merchandising	5
			15
		Second Year	Credits
BUS&	201	Business Law	
BUS	215	Principles of Finance	
HR	210	Human Resource Mgmt	
			15
		Second Year	Credits
ACCT	130		
BUS	275		
CMST&	220	Public Speaking	
			15

**Emphasis:** Administrative Assistant **Degree:** Associate in Technical Arts

**PURPOSE:** These degree programs prepare students with a broad business background, as well as provide specialized training in office skills. While students are accepted into the program each quarter, those who start in September find it easier to schedule their courses in the suggested sequences. Prerequisites include: demonstrated proficiency in math, reading, English, and basic keyboarding skills. After completing the selected program, students will be prepared for entry level employment as office assistants and receptionists, in general offices, legal offices, or medical offices.

**PROGRAM OUTCOMES:** Students who successfully complete this program will have demonstrated the ability to:

- Keyboard with speed and accuracy.
- File correctly using alphabetic, numeric, geographic, and subject filing systems.
- Apply rules of grammar, punctuation, and spelling in written and oral communications.
- Prepare documents using advanced features in word processing software.
- Format basic business letters, memos, reports, tables, and newsletters to office standards.
- Compose business letters, memos, resumes, and letters of application.
- Organize data using business math and practical accounting.
- Analyze and calculate data using spreadsheet software.
- Enter and organize data using database software.
- Obtain a first aid and CPR certificate.
- Operate a 10-key electronic calculator by touch.
- Demonstrate the ability to relate effectively with others in the classroom.
- Demonstrate human relations skills and professional behavior necessary for successful job performance.
- Apply acquired skills in the workplace.
- Transcribe from recorded dictation.
- Enter accounting transactions and generate reports using Quick Books.
- Analyze data and report information using database software.
- Possess a basic understanding of receiving office visitors, using the telephone, scheduling appointments, customer service, and confidentiality skills in an office.
- Develop effective presentations using presentation software.
- Develop effective communications skills using electronic software.
- Prerequisites include: demonstrated proficiency in math, reading, English, and basic keyboarding skills.

### **Suggested Order of Classes**

Fall Qu	arter, Fi	rst Year	Credits
BTEC	102	Skillbuilding I	3
BTEC	110	Business English	
BTEC	220	Ten Key Calculator	1
BTEC	233	Files Management	
H R	110	Human Relations-Workplace	5
			17
Winter	Quarte	r, First Year	Credits
BUS&	201	Business Law	5
BTEC	210	Word I	5
BTEC	221	Business Communications	5
HLTH	145	Safety & Fitness	3
		,	18
Spring	Quartei	r, First Year	Credits
BTEC	120	Applied Business Math	5
BTEC	219	Word II	
ENGL&	101	Composition I	5
SPEE	101	Fund. of Public Speaking	3
			17
Fall Qu	arter, Se	econd Year	Credits
<i>Fall Qu</i> ACCT	<b>arter, Se</b> 110	econd Year  Practical Accounting I	
-	•		3
ACCT	110	Practical Accounting I	1
ACCT BTEC	110 191	Practical Accounting I	1 5
ACCT BTEC BTEC	110 191 214	Practical Accounting I Work Experience Seminar Excel I	1 5
ACCT BTEC BTEC BUS&	110 191 214 101	Practical Accounting I Work Experience Seminar Excel I Intro to Business	1 5
ACCT BTEC BTEC BUS& CNT	110 191 214 101 117	Practical Accounting I	3552 16 Credits
ACCT BTEC BTEC BUS& CNT	110 191 214 101 117	Practical Accounting I	3552 16 Credits
ACCT BTEC BTEC BUS& CNT	110 191 214 101 117	Practical Accounting I Work Experience Seminar Excel I Intro to Business Windows Workstation	3552 16 Credits3
ACCT BTEC BTEC BUS& CNT Winter ACCT	110 191 214 101 117 <b>Quarter</b> 120	Practical Accounting I	3552 16 Credits3
ACCT BTEC BTEC BUS& CNT Winter ACCT BTEC	110 191 214 101 117 <b>Quarter</b> 120 190	Practical Accounting I	352 16 Credits333
ACCT BTEC BTEC BUS& CNT  Winter ACCT BTEC BTEC BTEC	110 191 214 101 117 <b>Quarter</b> 120 190 205	Practical Accounting I	352 16 Credits333
ACCT BTEC BTEC BUS& CNT  Winter ACCT BTEC BTEC BTEC BTEC	110 191 214 101 117 <b>Quarter</b> 120 190 205 212	Practical Accounting I	3553
ACCT BTEC BTEC BUS& CNT  Winter ACCT BTEC BTEC BTEC BTEC	110 191 214 101 117 <b>Quarter</b> 120 190 205 212	Practical Accounting I	3553
ACCT BTEC BTEC BUS& CNT  Winter ACCT BTEC BTEC BTEC BTEC Spring	110 191 214 101 117 <b>Quarter</b> 120 190 205 212	Practical Accounting I	355
ACCT BTEC BUS& CNT  Winter ACCT BTEC BTEC BTEC Spring ACCT	110 191 214 101 117 <b>Quarter</b> 120 190 205 212 <b>Quarter</b> 130	Practical Accounting I	
ACCT BTEC BUS& CNT  Winter ACCT BTEC BTEC BTEC  Spring ACCT BTEC	110 191 214 101 117 <b>Quarter</b> 120 190 205 212 <b>Quarter</b> 130 222	Practical Accounting I	

\* Recommended course schedule: BTEC courses are offered on odd numbered years, please see a BTEC advisor for specific class offerings.

**Emphasis:** Medical Administrative Assistant **Degree:** Associate in Technical Arts

**PROGRAM OUTCOMES:** Students who successfully complete this program will have demonstrated the ability to:

- Keyboard with speed and accuracy.
- File correctly using alphabetic, numeric, geographic, and subject filing systems.
- Apply rules of grammar, punctuation, and spelling in written and oral communications.
- Prepare documents using advanced features in word processing software.
- Format basic business letters, memos, reports, tables, and newsletters to office standards.
- Solve basic business math problems.
- Organize data using business math and practical accounting.
- Analyze and calculate data using spreadsheet software.
- Enter and organize data using database software.
- Obtain a first aid and CPR certificate.
- Operate a 10-key electronic calculator by touch.
- Relate effectively with others in the classroom.
- Demonstrate human relations skills and professional behavior necessary for successful job performance.
- Apply acquired skills in the workplace.
- Use medical terms correctly.
- Compose business letters, memos, resumes, and letters of application.
- Understandhuman biology.
- Transcribe medical documents from recorded dictation.
- Enter patient record information using electronic software.
- Understand the Health Insurance Portability and Accounting Act.
- Possess a basic understanding of medical office procedures using medical charts and records, electronic medical records, receiving visitors, scheduling appointments, and confidentially in a medical office.

Fall Que BTEC BTEC BTEC BTEC	102 110 110 220 233	st Year Skillbuilding I Business English Ten Key Calculator Files Management	5 1
HR	110	Human Relations-Workplace	
Winter	Quarter,	First Year	Credits
BUS&	201	Business Law	5
BTEC	210	Word I	
BTEC	221	Business Communications	
HLTH	145	Safety & Fitness	3 <b>18</b>
Sprina (	Quarter.	First Year	Credits
BTEC	120	Applied Business Math	
BTEC	219	Word II	
ENGL&	101	Composition I	
SPEE	101	Fund. of Public Speaking	3 <b>17</b>
Fall Ou	artor Soc	ond Year	Credits
ACCT	110	Practical Accounting I	
BTEC	107	Medical Records	
BTEC	214	Excel I	
MA	260	Medical Terminology	4 <b>15</b>
	_		
	-	Second Year	Credits
ACCT BIOL&	120 170	Practical Accounting II	
BTEC	170	Human Biology Work Experience Seminar	
BTEC	255	Insurance and Billing	
DILC	233	misdrance and bining	14
Spring (	Quarter, .	Second Year	Credits
BTEC	190	Cooperative Work Experience	5
BTEC	261	Medical Office Procedures	
BTEC	263	Medical Transcription	
			14

**Emphasis:** Medical Office Assistant **Degree:** Certificate of Proficiency

**PURPOSE:** The Medical Office Assistant Certificate program combines general office skills with studies in medical terminology, human biology, medical office procedures, and medical machine transcription.

**PROGRAM OUTCOMES:** Students who successfully complete this program will have demonstrated the ability to:

- Keyboard with speed and accuracy.
- File correctly using alphabetic, numeric, geographic, and subject filing systems.
- Apply rules of grammar, punctuation, and spelling in written and oral communications.
- · Prepare documents using word processing software.
- Format basic business letters, memos, reports, tables, and newsletters to office standards.
- Solve basic business math problems.
- Operate 10-key electronic calculator by touch.
- · Analyze and calculate data using spreadsheet software.
- · Apply acquired skills in the workplace.
- Relate effectively with others in the classroom.
- Demonstrate human relations skills and professional behavior necessary for successful job performance.
- Use medical terms correctly.
- Obtain a first aid certificate.
- · Understand human biology.
- Possess a basic understanding of medical office procedures using medical charts and records, electronic records, receiving visitors, scheduling appointments, and confidentiality in a medical office.

### **ONE-YEAR PROGRAM**

Fall Qua	ırter		Credits
BTEC	102	Skillbuilding I	3
BTEC	107	Medical Records	3
BTEC	233	Files Management	3
HR	110	Human Relations-Workplace	
MA	260	Medical Terminology	4
			18
Winter C	Quarter		Credits
BTEC	110	Business English	5
BTEC	210	Word I	5
BTEC	255	Insurance and Billing	
HLTH	145	Safety & Fitness	3
			18
Spring C	Quarter		Credits
BIOL&	170	Human Biology	
BTEC	120	Applied Business Math	5
BTEC	261	Medical Office Procedures	
BTEC	266	Medical Law & Ethics	3
			18

**Emphasis:** Office Assistant **Degree:** Certificate of Proficiency

**PURPOSE:** The Office Assistant certificate program prepares students for entry-level employment as office assistants. Prerequisites include: demonstrated proficiency in math, reading, English, and basic keyboarding skills.

**PROGRAM OUTCOMES:** Students who successfully complete this program will have demonstrated the ability to:

- Keyboard with speed and accuracy.
- File correctly using alphabetic, numeric, geographic, and subject filing systems.
- Apply rules of grammar, punctuation, and spelling in written and oral communications.
- Prepare documents using advanced features in word processing software.
- Format basic business letters, memos, reports, tables, and newsletters to office standards.
- Solve basic business math problems.
- Operate a 10-key electronic calculator by touch.
- Analyze and calculate data using spreadsheet software.
- Relate effectively with others in the classroom.
- Demonstrate human relations skills and professional behavior necessary for successful job performance.
- Develop effective presentations using presentation software.
- Organize data using business math and practical accounting.
- Possess a basic understanding of receiving office visitors, using the telephone, scheduling appointments, customer service, and confidentiality skills in an office.
- Develop effective communications skills using electronic software.

### **ONE-YEAR PROGRAM**

Credits		arter	Fall Qu
3	Practical Accounting I	110	ACCT
	Skillbuilding I	102	BTEC
	Business English	110	BTEC
	Word I	210	BTEC
16			
Credits		Quarter	Winter
3	Practical Accounting II	120	ACCT
	Outlook	205	BTEC
5	Excel I	214	BTEC
3	Filing	233	BTEC
	Safety & Fitness	145	HLTH
15	·		
Credits		Quarter	Spring
5	Applied Business Math	120	BTEC
1	Ten-Key Calculator	220	BTEC
	Power Point	222	BTEC
5	Office Procedures	224	BTEC
5	Human Relations-Workplace	110	HR
17	·		

### CHEMICAL DEPENDENCY

**Degree:** Associate in Applied Science

**PURPOSE:** Chemical Dependency is for students interested in focusing their studies on Chemical Dependency rehabilitation. This program prepares the student for work as a Chemical Dependency counselor in various settings from detoxification units to residential treatment programs. Students will fulfill the education requirements for certification as Chemical Dependency Professional Trainee through the Department of Health (DOH). Students take classes that directly fulfill Washington Administrative Code (WAC) requirements toward acquiring the Chemical Dependency Professional (CDP) certification.

**PROGRAM OUTCOMES:** Students who successfully complete this program will have demonstrated the ability to:

- Understand developmental psychology and psychopathology.
- Evaluate, assess, and treat addiction, substance abuse and chemical dependency in adolescents and adults.
- Recognize the pharmacological actions of alcohol and other drugs.
- Apply chemical dependency rules and regulations as well as professional and ethical responsibilities to patient care.
- Coordinate the use of services, referrals, and community resources.
- Recognize cultural diversity, including people with disabilities, and its implications for treatment.
- Plan and implement appropriate addiction placement, continuing care, and discharge criteria.
- Plan and provide effective counseling for chemical dependency, relapse prevention and continuing care for addicted individuals, their families or significant others in individual or group sessions.
- Perform clinical evaluations, HIV/AIDS risk interventions and case management functions.

Fall Que	arter, Fir		Credits
PSYC&	100	General Psychology	5
ENGL&	101	English Composition	
WRT	105	Writing in the Workplace	
CDP	100	Intro to Chem Dependency	
Health a	and Fitne	ess Distribution	
			18
Winter	Quarter,	First Year	Credits
PSYC&	220	Abnormal Psychology	5
MATH&	107	Math in Society*	
BIOL&	170	Human Biology	
NUTR&	101	Nutrition	
Noma	101	Tradition	15
Spring	Ouarter	First Year	Credits
CDP	101	Drug & Alcohol Responses	
PSYC&	200	Lifespan Psychology	
CDP	110	CDP Counseling Theory	
CDP	110	CDP Counseling Theory	 15
			15
- " -	_	134	
Fall Que	arter, Sed	cond Year	Credits
CDP	arter, Sed 120	cond Year CDP Law and Ethics	
-	-		4
CDP	120	CDP Law and Ethics	4 5
CDP CDP CDP	120 130 140	CDP Law and Ethics Assess & Treatment Plans	4 5 3
CDP CDP CDP	120 130 140	CDP Law and Ethics Assess & Treatment Plans Counseling Adolescents	4 5 3
CDP CDP CDP Human	120 130 140 ities Dist	CDP Law and Ethics Assess & Treatment Plans Counseling Adolescents	4 5 3
CDP CDP CDP Human	120 130 140 ities Dist	CDP Law and Ethics Assess & Treatment Plans Counseling Adolescents ribution	435 17 Credits
CDP CDP CDP Human	120 130 140 ities Dist	CDP Law and Ethics	435 17 Credits
CDP CDP CDP Human	120 130 140 ities Dist Quarter, 210	CDP Law and Ethics	455 17 Credits4
CDP CDP Human Winter ( CDP CDP CDP	120 130 140 ities Dist <i>Quarter,</i> 210 220	CDP Law and Ethics	455 17 Credits444
CDP CDP Human Winter C CDP CDP CDP CDP	120 130 140 ities Dist <b>Quarter,</b> 210 220 230	CDP Law and Ethics	455 17 Credits4444
CDP CDP Human Winter ( CDP CDP CDP	120 130 140 ities Dist <b>Quarter,</b> 210 220 230 240	CDP Law and Ethics	455 17 Credits4444
CDP CDP Human Winter CDP CDP CDP CDP	120 130 140 ities Dist <b>Quarter,</b> 210 220 230 240 250	CDP Law and Ethics	455 17 Credits4443
CDP CDP Human Winter CDP CDP CDP CDP	120 130 140 ities Dist <b>Quarter,</b> 210 220 230 240 250	Assess & Treatment Plans Counseling Adolescents ribution  Second Year Groups within Treatment Chem Dependency & Family CDP Cultural Diversity Relapse Prevention Community Prevention	455 17 Credits44332316 Credits
CDP CDP Human Winter CDP CDP CDP CDP	120 130 140 ities Dist Quarter, 210 220 230 240 250	Assess & Treatment Plans	45544432323
CDP CDP Human Winter (CDP CDP CDP CDP CDP CDP	120 130 140 ities Dist Quarter, 210 220 230 240 250 Quarter, 280	Assess & Treatment Plans	455 17 Credits44323 16 Credits5
CDP CDP Human Winter C CDP CDP CDP CDP CDP CDP CDP CDP	120 130 140 ities Dist <b>Quarter,</b> 210 220 230 240 250 <b>Quarter,</b> 280 281 110	Assess & Treatment Plans	454444
CDP CDP Human Winter C CDP CDP CDP CDP CDP CDP CDP CDP	120 130 140 ities Dist <b>Quarter,</b> 210 220 230 240 250 <b>Quarter,</b> 280 281 110	Assess & Treatment Plans	454444

<sup>\*</sup> MATH& 146 and BUS 121 are optional math courses.

### **CHEMISTRY**

**Emphasis:** Chemistry

Degree: Associate in Science

**PURPOSE:** The Associate in Science with an emphasis in Chemistry is for students interested in transferring to a four-year college or university to complete a bachelor's degree. Students who complete this educational plan are reasonably assured of junior level standing at most four-year colleges and universities in Washington.

Students are urged to consult with an advisor to coordinate their program with the requirements at the institution to which they intend to transfer.

Students who have successfully completed algebra, geometry, trigonometry, precalculus, chemistry and physics in high school are prepared to enter Precalculus Refresher (MATH& 135) and General Chemistry (CHEM& 161). Completion of the program in four years is possible.

Students who are not well prepared in high school mathematics and science should plan, with an advisor, a three-year program at Centralia College in preparation for transfer to a four-your college or university. The main emphasis in the first year at Centralia should be on strengthening mathematics, basic sciences, communications, and reading skills.

Fall Qua			Credits
		Composition I	
		General Chem w/lab I	
MATH	118	Linear Algebra	5
			16
		First Year	Credits
CHEM&	162	General Chem w/lab II	6
MATH&	151	Calculus I	5
CMST&	220	Public Speaking	5
Health 8	ዩ Fitness	Distribution	1
			17
Spring (	Quarter, l	First Year	Credits
CHEM&	163	General Chem w/lab III	6
MATH&	152	Calculus II	5
Health 8	ዩ Fitness	Distribution	1
Social S	cience D	istribution	5
			17
		ond Year	Credits
CHEM&	261	Organic Chemistry w/lab I	6
PHYS&	221	Engineering Physics I	5
Humani	ties Dist	ribution	OF
Social S	cience D	istribution	5
			16
			Credits
		Organic Chemistry w/lab II	
		Calculus III	
PHYS&	222	Engineering Physics II	5
Health 8	ዩ Fitness	Distribution	1
			17
		Second Year	Credits
CHEM&	263	Organic Chemistry w/lab III	6
MATH	212	Differential Equations Engineering Physics III	5
PHYS&	223	Engineering Physics III	5
		·	16

### **CHIROPRACTIC**

### See Pre-Chiropractic, Pre-Physical Therapy

### **COMPUTER-AIDED DRAFTING**

**Emphasis:** Computer-Aided Drafting **Degree:** Certificate of Completion

**PURPOSE:** The Certificate of Completion in CAD is specifically designed for individuals who are currently in a technical profession and desire to upgrade skills in computer-aided drafting technology. Upon successful completion, the individual will have developed solid technical skill with CAD in their current profession.

**PROGRAM OUTCOMES:** Students who successfully complete this program will have demonstrated the ability to:

- Import and edit survey points.
- · Create a surface.
- Utilize paper space, model space and multiple viewports.
- Create and label contours.
- · Calculate cut and fill items.
- Create blocks, attributes and reports.
- Create simple 3D wire frame and 3D solid models.
- · Utilize dimension commands.

### **Suggested Order of Classes**

Fall Qu	arter		Credits
CAD	112	Computer Aided Drafting I	5
<b>Winter</b> CAD	<b>Quarter</b> 113	Computer Aided Drafting II	<b>Credits</b> 5
Spring	Quarter		Credits
CAD	114	Computer Aided Drafting III	5

Students will benefit from completing coursework in Computer Applications and Applied Mathematics. Students must earn a 2.0 or better in each CAD class to progress in the program.

## **COMPUTER SCIENCE**

**Emphasis:** Computer Science **Degree:** Associate in Arts

**PURPOSE:** The Associate in Arts degree with Computer Science emphasis is for students interested in transferring to a four-year college or university to complete a bachelor's degree in computer science.

Students who are not well prepared in high school math at least through a second year algebra course (following geometry) should plan, with an advisor, a three-year program to prepare for transfer to a four-year college or university. The emphasis in the first year should be on strengthening math, basic science, communication, and reading skills.

The given sequence begins with MATH& 141 Precalculus I. If possible, start with MATH& 151 Calculus I.

It is extremely important that students identify the institution to which they intend to transfer to as soon as possible as some computer science programs have specific general education requirements and prerequisites.

**PROGRAM OUTCOMES:** Students who successfully complete this program will have demonstrated the ability to:

- Script static webpages.
- Code dynamic webpages.
- Install and operate simple web servers.
- Install and configure routers in small-scale networks using RIP. OSPF and/or IGRP.
- Install and configure security programs.
- Install and configure TCP/IP protocols.

	English Composition I	5 3
MATH& 142	First Year  Composition II  Precalculus II tion	5
MATH 228 MATH& 151	First Year ce Elective Discrete Mathematics Calculus I ribution	5 5
Science Distribu	cond Year  ce Elective tion* istribution	5
Computer Scien Science Distribu	Second Year ce Elective tionistribution	5
MATH 228 Humanities Dist	Second Year  ce Elective  Discrete Mathematics  ribution  vistribution	5 5
Recommended I         CS&       131         CST       224         CST       228         CST       230         MATH       118         MATH&       152	Electives:  Computer Sci I C++  Java 1  Java 2  Java 3  Linear Algebra  Calculus II	5 5

<sup>\*</sup> PHYS& 221 Engineering Physics I recommended

## **COMPUTER SCIENCE**

**Emphasis:** Information Technology **Degree:** Associate in Applied Science

**PURPOSE:** Provides students with training in the core IT and workplace competencies necessary to complete for entrylevel employment in the Information Technology industries.

**PROGRAM OUTCOMES:** Students who successfully complete this program will have demonstrated the ability to:

- Function effectively as a member of a team to accomplish common goals.
- Read and interpret technical information, as well as listen effectively to and communicate orally with a wide range of audiences.
- Demonstrate the attitudes, knowledge and abilities associated with quality customer service.
- Research IT problems, develop and carry out appropriate strategies for resolving them.
- Design and implement a hardware and/or software solution responsive to an identified scenario.
- Use a variety of practices for securing data and end-user systems.
- Demonstrate core IT competency in their area of specialization.

### **Suggested Order of Classes**

ırter, Fil	rst rear	Credits
101	Intro to Programming	4
123	Desktop OS 1	4
105	Writing in the Workplace	OR
101	English Composition I	5
145	-	
	•	16
Quarter	r, First Year	Credits
110	Wob Carintina 1	4
119	Web Scripting 1	4
119	Desktop OS 2	
	. 3	4
124	Desktop OS 2	4 3
124 240	Desktop OS 2 Mobile Device OS	4 3 OR
	101 123 105 101 145 Quarter	123 Desktop OS 1

#### **OPTION 1:**

#### **DESKTOP & NETWORK SYSTEMS CONCENTRATION**

D_5	J. W.I.	THO THE STOTE LINES CONTESTITION	
Spring (	Quarter,	First Year	Credits
IT	125	Server OS 3	
SPEE	101	Fund. of Public Speaking	
CNACTO	222	Public Speaking	OR
CMST&		Public Speaking	5
HR IT	110 140	Human Relations - Workplace IT Support Internship	5 د
11	140	11 Support internship	14-16
F.11.0		1.V	
	1 <b>rter, Se</b> 218	cond Year Server OS 1	Credits
IT IT	140	IT Support Internship	
iT	144		
iT	201	Network Technology 1	
			15
Winter (	Quarter	Second Year	Credits
IT	219	Server OS 2	4
İT		Network Technology 2	
IT		IT Support Internship	
	cience D	istribution	OR
Science	Distribu	ıtion	
			15
Spring (	Quarter,	Second Year	Credits
ΙΤ̈́	203	Network Technology 3	5
IT	140	IT Support Internship	2
IT	220		
		Distribution	
Science	Distribu	ition	5 <b>17</b>
			17
OPTION	2:		
PROGR	AMMING	G & WEB DEVELOPMENT CONCEI	NTRATION
Sprina (	Duarter,	First Year Credits	
CS&	131		_
LS& IT	121	C++Web Scripting 2	
TMATH		Computer Science Math II	دع
HVIAIII	172	Computer Science Matri	OR
MATH&	142	Precalculus II	
IT	130	IT Apps Internship	
			15-17
Fall Oud	arter. Sed	cond Year	Credits
IT	224	Java 1	
IT	205	PHP/SQL	4
IT	130	IT Apps Internship	
		istribution	
Science	Distribu	ıtion	
			16
Winter (	Quarter,	Second Year	Credits
IT	228	Java 2	
IT	130	IT Apps Internship	2
SPEE	101	Fund. of Public Speaking	
CMST&		Public Speaking	OR
ART	130	Computer Graphics	
		Pistribution Ition	UK
SCIETICE	1)ictrib		_
	Distribu	10011	
			15-17
Spring (	Quarter,	Second Year	15-17 Credits
			<b>15-17</b> <b>Credits</b> 55

## **CONSTRUCTION MANAGEMENT**

**Emphasis:** Construction Management

**Degree:** Associate in Construction Management-DTA/MRP

**PURPOSE:** This degree is a Major Related Program designed for students planning to transfer and to prepare for American Council of Construction Education (ACCE) accredited majors in Construction Management at Central Washington University, Washington State University-Pullman, and University of Washington-Seattle; the degree also provides coursework for transfer into Eastern Washington University's Bachelor of Science in Technology-Construction Management. This degree meets the requirements of the Statewide Construction Management DTA/MRP Agreement.

Fall Qua	arter, Firs		Credits
ACCT&	201	Principles of Accounting I	5
ENGL&	101	English Composition I	5
MATH&	146		
Health 8	₹ Fitness	Distribution	
			16
Winter (	Quarter,	First Year	Credits
ACCT&	202	Principles of Accounting II	5
ENGL&	235	Technical Writing*	OR
ENGL&	102	Composition II*	
ENGR&	111	Engineering Graphics	
MATH&	151	Calculus I	
			17
			.,
Spring (	Quarter, l	First Year	Credits
ACCT&	203	Principles of Accounting III	5
BUS&	201	Business Law	
ENGR&	214	Statics*	5
MATH&	152	Calculus II	5
			20
Fall Qua	arter, Sec	ond Year	Credits
Fall Qua	a <b>rter, Sec</b> 161	ond Year General Chem w/lab l*	
CHEM&	<b>161</b> 161 221	General Chem w/lab I*	6
CHEM& PHYS&	161 221	General Chem w/lab I*	6 5
CHEM& PHYS&	161 221	General Chem w/lab I* Engineering Physics I	6 5
CHEM& PHYS& Humani	161 221 Ities Dist	General Chem w/lab I* Engineering Physics I ribution	5 5
CHEM& PHYS& Humani	161 221 Ities Dist	General Chem w/lab I* Engineering Physics I	5 5
CHEM& PHYS& Humani Winter ( ECON&	161 221 ities Distri Quarter, 201	General Chem w/lab I* Engineering Physics I ribution Second Year Microeconomics	65 16 Credits
CHEM& PHYS& Humani Winter ( ECON&	161 221 ities Disti	General Chem w/lab I* Engineering Physics I ribution Second Year Microeconomics	65 16 Credits
CHEM& PHYS& Humani Winter ( ECON&	161 221 ities Distr <b>Quarter,</b> 201 101	General Chem w/lab I* Engineering Physics I ribution Second Year Microeconomics	65 16 Credits5
CHEM& PHYS& Humani  Winter C ECON& GEOL& PHYS&	161 221 ities Distr Quarter, 201 101 222	General Chem w/lab I* Engineering Physics I ribution Second Year Microeconomics Intro to Physical Geology	65 16 Credits55
CHEM& PHYS& Humani  Winter C ECON& GEOL& PHYS&	161 221 ities Distr Quarter, 201 101 222	General Chem w/lab I*	65 16 Credits55
CHEM& PHYS& Humani Winter ( ECON& GEOL& PHYS& Health (	161 221 ities Distr Quarter, 201 101 222 & Fitness	General Chem w/lab I*	6555555551
CHEM& PHYS& Humani  Winter ( ECON& GEOL& PHYS& Health &	161 221 ities Districtions Quarter, 201 101 222 & Fitness	General Chem w/lab I*	65555555
Winter (ECON& Health & Spring (ECON& ECON& CECON& C	161 221 ities Distri Quarter, 201 101 222 & Fitness Quarter, 3	General Chem w/lab I*	65555551165
Winter CECON& GEOL& PHYS& Health & Spring CECON& Social S	161 221 ities Distri Quarter, 201 101 222 & Fitness Quarter, 2 202 cience D	General Chem w/lab I*	6555551111
Winter CECON& GEOL& PHYS& Health & Spring CECON& Social SCMST&	161 221 ities Distri Quarter, 201 101 222 & Fitness Quarter, 202 cience D 220	General Chem w/lab I*	65 16 Credits5555555
Winter (ECON& GEOL& Health & Spring (ECON& Social SCMST& Humani	161 221 ities Districtions 201 101 222 & Fitness 202 cience D 220 ities Districtions	General Chem w/lab I*	65555555555555555
Winter (ECON& GEOL& Health & Spring (ECON& Social SCMST& Humani	161 221 ities Districtions 201 101 222 & Fitness 202 cience D 220 ities Districtions	General Chem w/lab I*	65555555555555555
Winter (ECON& GEOL& Health & Spring (ECON& Social SCMST& Humani	161 221 ities Districtions 201 101 222 & Fitness 202 cience D 220 ities Districtions	General Chem w/lab I*	65555555555555555

<sup>\*</sup> Select course as appropriate for intended transfer institution.

## **CRIMINAL JUSTICE**

**Emphasis:** Criminal Justice

**Degree:** Associate in Technical Arts

**PURPOSE:** Designed to meet the education needs of both working professionals and those seeking new employment in a variety of law enforcement and correctional agencies. Cooperative education components will be designed with local or state law enforcement agencies, correctional institutions, or social service support agencies. Courses offered in a variety of formats to accommodate the schedules of traditional and non-traditional students. Cooperative education components offered in partnership with regional law enforcement agencies, adult and juvenile correctional institutions.

**PROGRAM OUTCOMES:** Students who successfully complete this program will have demonstrated the ability to:

- Discuss and demonstrate basic procedures related to the fields of law enforcement and corrections.
- Utilize knowledge about state and federal laws that impact law enforcement and corrections in decision making.
- Understand and discuss the difference in relationships between law enforcement, the community and other legal entities.
- Understand and describe the relationships that exist between the various law enforcement, corrections, and the courts systems and at the local, state and federal levels of government.
- Discuss ethics as related to law enforcement and corrections.

#### **Suggested Order of Classes**

Fall Qua	arter, Eve		Credits
CJ&	101	Intro to Criminal Justice	
CJ	103	Constitutional Case Law	
Crimina	l Justice	Elective	
WRT	105	Writing in the Workplace	5
			20
		Every Year	Credits
CJ	104	Intro to Law Enforcement	
CJ	107	Criminal Procedures	
Crimina	l Justice	Elective	
BTEC	120	Applied Business Math	
MATH	096	Pre-Algebra (Pre-req. for BTEC 1	20)5
			20
Spring (	Quarter		Credits
CJ	109	Community Policing	
CJ&	110	Criminal Law	
CJ	111	Criminal Justice Ethics	5
BTEC	120	Applied Business Math	OR
Crimina	l Justice	Elective	5
			20
Summe	r Quarte		Credits
CJ&		Juvenile Justice	
CJ&	112	Criminology	
CJ	114		
Crimina	l Justice	Elective	5
			20
Fall Qua	arter		Credits
HR	110	Human Relations -Workplace	
		Distribution	
		Elective	
General	Education	on Elective	3-5
			16-18
Recomm	nended E		
SPAN&	121	Spanish I	5
PSYC&	100	General Psychology	5
SOC&	101	Intro to Sociology	
BTEC	101	Keyboarding for Business	
BTEC	221	Business Communications	5

Students interested in fulfilling BAS-AM program admission requirements should take ENGL& 101, 5 credits of humanities (CMST& 220), 5 credits of Social Science (ECON& 201), 5 credit of Science w/lab, and 5 credits of Quantitative Skills (MATH& 146).

## **CRIMINAL JUSTICE**

**Emphasis:** Criminal Justice **Degree:** Associate in Arts

**PURPOSE:** This degree prepares students to transfer to a baccalaureate institution and major in criminal justice. A B.A. degree prepares students to work in criminal justice and government agencies (federal, state, or local) or the private sector. Graduates may enter careers in state and local law enforcement, community corrections, federal law enforcement, or in the private sector.

**PROGRAM OUTCOMES:** Students who successfully complete this program will have demonstrated the ability to:

- Discuss and demonstrate basic procedures related to the fields of law enforcement and corrections.
- Utilize knowledge about state and federal laws that impact law enforcement and corrections in decision making.
- Understand and discuss the difference in relationships between law enforcement in the community and other legal entities.
- Understand and describe the relationships that exist between the various law enforcement, corrections, and the courts systems and at the local, state, and federal levels of government.
- Discuss ethics as related to law enforcement and corrections.

#### **Suggested Order of Classes**

F-11 O	F:	<b>4</b>	C 4:4-
	rter, Firs		Credits
CJ&	101		
CJ	105	Intro to Corrections	
ENGL&	101	English Composition I	
			15
Winter C	Quarter, l	First year	Credits
CJ	104	Intro to Law Enforcement	5
ENGL&	102	English Composition II	5
MATH&		Math in Society	
MATH&		Introduction to Stats	
			15
Spring C			Credits
CJ&		Criminal Law	
Humani <sup>*</sup>	ties Distr	ibution	5
Science	Distribut	tion	5
			15
Summer	or Sprin		Credits
<b>Summer</b> CJ&	or Sprin	<i>g Quarter</i> Juvenile Justice	
	106	Juvenile Justice	5
CJ& CJ&	106 112	g Quarter Juvenile Justice Criminology	5 5
CJ& CJ&	106 112	Juvenile Justice Criminology	5 5
CJ& CJ& Science	106 112 Distribut	Juvenile Justice Criminologytion	5 5 5 <b>15</b>
CJ& CJ& Science	106 112 Distribut	Juvenile Justice Criminologytion	5 5 15 Credits
CJ& CJ& Science Fall Qua Social So	106 112 Distribut Inter, Sections	Juvenile Justice Criminologytion	5 5 15 Credits
CJ& CJ& Science Fall Qua Social So Humani	106 112 Distribut rter, Sec cience Di ties Distr	Juvenile Justice Criminology tion ond year stribution	5 5 <b>15</b> <i>Credits</i> 5
CJ& CJ& Science Fall Qua Social So Humani	106 112 Distribut rter, Sec cience Di ties Distr	Juvenile Justice Criminologytion	5 5 <b>15</b> <i>Credits</i> 5
CJ& CJ& Science Fall Qua Social So Humani	106 112 Distribut rter, Sec cience Di ties Distr	Juvenile Justice	55 15 Credits5555555
CJ& CJ& Science Fall Qua Social So Humani POLS&	106 112 Distribut rter, Seccience Di ties Distr 202 Quarter, S	Juvenile Justice	5555555555555
CJ& CJ& Science Fall Qua Social So Humani POLS&	106 112 Distribut rter, Seccience Di ties Distr 202 Quarter, S	Juvenile Justice	5555555555555
CJ& CJ& Science Fall Qua Social Sc Humani POLS& Winter C PHIL Science	106 112 Distribut rter, Seccience Di ties Distr 202 Quarter, S 103 Distribut	Juvenile Justice	
CJ& CJ& Science  Fall Qua Social Sc Humani POLS&  Winter C PHIL Science Social Sc Social Sc	106 112 Distribut rter, Seccience Di ties Distr 202 Quarter, S 103 Distribut cience Di	Juvenile Justice	
CJ& CJ& Science  Fall Qua Social Sc Humani POLS&  Winter C PHIL Science Social Sc Social Sc	106 112 Distribut rter, Seccience Di ties Distr 202 Quarter, S 103 Distribut cience Di	Juvenile Justice	

The Criminal Justice emphasis can be tailored to meet both the career path objectives of the individual and coordinate planning to a four-year school. An advisor can provide additional information on this.

## **CRIMINAL JUSTICE**

**Emphasis:** Crime Scene Investigation **Degree:** Certificate of Proficiency

**PURPOSE:** To provide individuals with information and techniques used in forensic investigations.

**PROGRAM OUTCOMES:** Students who successfully complete this program will have demonstrated the ability to:

- Understand basic concepts of criminal and forensic investigation and the functions of a forensic specialist.
- Identify crime scene considerations of investigators for a variety of different crime scenes.
- Employ proper and appropriate evidence collection, preservation, documentation and transport techniques of all evidence identified at the crime scene.

#### **Suggested Order of Classes**

Credit	ırter	Fall Qu
Intro to Forensic Science	240	CJ&
Applied Business Math	120	BTEC
10		
Credit	Quarter	Winter
Intro to Victimology	129	CJ
Criminal Interviews & Interrogations	224	CJ
Writing in the Workplace	105	WRT
15		
Credit	Quarter	Spring
Homicide Investigation	126	CJ
Crime Scene Technology	225	CJ
Human Relations-Workplace	110	HR
15		
Credit	r Quarte	Summe
Domestic Violence & Abuse	130	CJ
Felony Investigations	223	CJ
Crime Scene Photography	228	CJ
15		

# **DENTAL HYGIENE**

See Pre-Medicine, Pre-Dentistry

# **DENTISTRY**

**Pre-Medicine, Pre-Dentistry** 

## **DIESEL EQUIPMENT TECHNOLOGY**

**Emphasis:** Diesel Equipment Technology **Degree:** Associate in Applied Science

**PURPOSE:** This Diesel Equipment Technology program is designed to prepare students for immediate employment as a technician in the maintenance, repair, or overhaul of heavy equipment (i.e., logging, construction, mining), agricultural equipment, or trucking.

**PROGRAM OUTCOMES:** Students who successfully complete this program will have demonstrated the ability to:

- Perform repair procedures using proper tools while abiding by safety and environmental regulations.
- Identify, diagnose and repair electrical and hydraulic circuits.
- Maintain proper workplace documentation in a professional manner.
- Conduct behavior that is consistent with the professionalism standards of the industry.

#### **Suggested Order of Classes**

	ırter, Fir	est Voar	Credits
CNT	117	Windows Workstation OS	
DET	100	Shop Skills	
DET	125	Power Transmissions I	
DET	102	Forklift*	
MATH	095	Basic Math****	
IVIATIT	093	Dasic Matri	16-22
			10-22
Winter (	Quarter,	First Year	Credits
DET	110	Electrical Systems I	7
DET	130	Mobile Hydraulics	
TMATH	116	Industrial Mathematics	
College	Level M	lath	5
3			19
Spring (	Duarter	First Year	Credits
WRT	105	Writing in the Workplace	
ENGL&	101	Composition I	
DET	120	Engines I	
WELD	151	Welding for Mechanics	
WELD	131	Welding for Meenanes	19
Eall Ou	4 C.	as and Valor	C 4:4.
	ITTET. SE	cona year	Creaits
		cond Year Flectrical Systems II	Credits 7
DET	200	Electrical Systems II	7
DET DET	200 220	Electrical Systems II Engine II	7 7
DET	200	Electrical Systems II	7 7
DET DET	200 220	Electrical Systems II Engine II	7 7 3 <b>17</b>
DET DET HLTH	200 220 145	Electrical Systems II Engine II Safety & Fitness Second Year	7 3 <b>17</b> Credits
DET DET HLTH	200 220 145	Electrical Systems II	73 17 Credits
DET DET HLTH Winter (	200 220 145 <b>Quarter,</b> 191 210	Electrical Systems II	73 17 Credits1
DET DET HLTH Winter C BTEC	200 220 145 <b>Quarter,</b> 191	Electrical Systems II	73 17 Credits11
DET DET HLTH Winter C BTEC DET	200 220 145 <b>Quarter,</b> 191 210	Electrical Systems II	73 17 Credits11
DET DET HLTH  Winter ( BTEC DET DET	200 220 145 <b>Quarter,</b> 191 210 225	Electrical Systems II	73 17 Credits11
DET DET HLTH  Winter ( BTEC DET DET H R	200 220 145 <b>Quarter,</b> 191 210 225 110	Electrical Systems II	73 17 Credits17
DET DET HLTH  Winter ( BTEC DET DET H R	200 220 145 <b>Quarter,</b> 191 210 225 110	Electrical Systems II	
DET DET HLTH  Winter ( BTEC DET DET H R  Spring (	200 220 145 <b>Quarter,</b> 191 210 225 110	Electrical Systems II	
DET DET HLTH  Winter C BTEC DET DET H R  Spring C DET	200 220 145 <b>Quarter,</b> 191 210 225 110 <b>Quarter,</b> 230	Electrical Systems II	
DET DET HLTH  Winter C BTEC DET DET H R  Spring C DET DET	200 220 145 <b>Quarter,</b> 191 210 225 110 <b>Quarter,</b> 230 190	Electrical Systems II	

<sup>\*</sup> DET 102 must be completed during the first year.

STUDENTS WILL NEED TO PURCHASE TOOLS FOR CLASS. PLEASE SEE A DIESEL INSTRUCTOR FOR TOOL LIST.

Students interested in fulfilling BAS-DT program admission requirements should take ENGL& 101 and five credits of Quantitative skills (MATH& 146 recommended).

<sup>\*\*</sup> BTEC 191 can be taken any quarter prior to or in the same quarter as DET 190.

<sup>\*\*\*</sup> Students must take either DET 230 OR DET 190.

<sup>\*\*\*\*</sup> Credits not included in graduation total.

## **DRAMATIC ARTS**

**Emphasis:** Dramatic Arts **Degree:** Associate in Arts

**PURPOSE:** The Associate of Arts degree with an emphasis in Dramatic Arts meets the needs of students interested in acting or technical theater work who intend either to complete a two-year program or to transfer to a four-year institution.

For students who plan to become educators, particularly those interested in elementary and secondary school teaching, courses in drama can provide insight into methods of teaching and learning through "language arts."

Students who intend to transfer to a four-year program at a college or university in Washington should see the drama advisor for information on special requirements, if any, of that school. This information may have a bearing on courses the student chooses to satisfy distribution requirements.

A maximum of 15 credits in DRMA 100 level courses may be credited toward an Associate in Arts Degree. Up to 5 credits in DRAMA may be used as Humanities distribution credits.

Fall Quarter, Firs	st Year	Credits
DRMA 107	Beginning Acting	5
ENGL& 101	English Composition I	5
	Distribution	
		15
Winter Quarter,	First Year	Credits
DRMA& 101	Introduction to Theatre	5
	Composition II	
ENGL 204	Intro to Shakespeare	5
Health & Fitness	Distribution	1
		16
Spring Quarter,		Credits
DRMA 108	Intermediate Acting	5
DRMA 110	Stage Makeup	3
Elective		
Science Distribu	ıtion	5
		16-18
Fall Quarter, Sec		Credits
Health & Fitness	Distribution	1
Health & Fitness		1
Health & Fitness Quantitative Ski Science Distribu	S Distribution ills Distribution ution	5 5
Health & Fitness Quantitative Ski Science Distribu	Distributionlls Distribution	5 5
Health & Fitness Quantitative Ski Science Distribu Social Science D	s Distribution ills Distribution ution Distribution	5 5
Health & Fitness Quantitative Ski Science Distribu Social Science D Winter Quarter,	S Distribution	155555
Health & Fitness Quantitative Ski Science Distribu Social Science D Winter Quarter, ENGL& 114	S Distribution	1 55 16 Credits
Health & Fitness Quantitative Ski Science Distribu Social Science D Winter Quarter, ENGL& 114 Elective*	S Distribution	1 55 16 Credits55
Health & Fitness Quantitative Ski Science Distribu Social Science D  Winter Quarter, ENGL& 114 Elective*Health & Fitness	S Distribution	1 55 16 Credits55
Health & Fitness Quantitative Ski Science Distribu Social Science D  Winter Quarter, ENGL& 114 Elective*Health & Fitness	S Distribution	1 55 16 Credits55
Health & Fitness Quantitative Ski Science Distribu Social Science D  Winter Quarter, ENGL& 114 Elective*Health & Fitness	S Distribution	1 55 16 Credits55
Health & Fitness Quantitative Ski Science Distribu Social Science D  Winter Quarter, ENGL& 114 Elective* Health & Fitness Social Science D	S Distribution	1 55 16 Credits53-515 14-16 Credits
Health & Fitness Quantitative Ski Science Distribut Social Science D  Winter Quarter, ENGL& 114 Elective*Health & Fitness Social Science D  Spring Quarter, DRMA 201	S Distribution	155555
Health & Fitness Quantitative Ski Science Distribut Social Science D  Winter Quarter, ENGL& 114 Elective*Health & Fitness Social Science D  Spring Quarter, DRMA 201	S Distribution	155555
Health & Fitness Quantitative Ski Science Distribut Social Science D  Winter Quarter, ENGL& 114 Elective*Health & Fitness Social Science D  Spring Quarter, DRMA 201 Humanities Dist	S Distribution	1 55 16 Credits55 14-16 Credits5 14-16

Recommended offerings include DRMA 115 and DRMA 120.

**Emphasis:** Early Childhood Education

**Degree:** Associate in Arts

**PURPOSE:** This AA degree transfers to a four-year school to complete work for a bachelor's degree. Coursework can apply to the Early Childhood endorsement for Washington State teaching certification.

Fall Qua	rter First	Year	Credits
ECED&	105	Intro Early Child Ed	5
EDUC&	130	Guiding Behavior	
SOC&	101	Intro to Sociology	
ENGL&	101	English Composition I	
		J	18
Winter (	Quarter, F	-irst Year	Credits
ENGL&			
SCIE	104	Intro Physical Science	
		ion	
EDUC		Exceptional Child	
EDEC	132		
	.52	observation, rissessment imminin	16
Spring (	Quarter, F	irst Year	Credits
FDUC&	115	Literacy Development	5 5
		ibution	
			15
Fall Oud	rter, Seco	ond Year	Credits
EDEC		ECE Art/Music/Movement	
		Math for Elem Ed	
		ion	
		Distribution	
ricultire			16
Winter (	Duarter 9	Second Year	Credits
FDFC		ECE Scie/Math/Soc Studies	
PSYC&		General Psychology	
SCIE	104	Intro to Physical Science	OR
		ion	
		SS	
ricultire	ind ritile.		16
Sprina C	Duarter, S	Second Year	Credits
		Public Speaking	
		Lifespan Psychology	
		SS	
		ibution	
		stribution	
			21

**Emphasis:** Early Childhood Education **Degree:** Associate in Applied Science

**PURPOSE:** The Early Childhood Education-Associate in Applied Science (AAS) degree program provides students with the critical Early Childhood and Child Development content necessary to compete for employment in early childhood education or in a school system as a para-professional.

Fall Qua	ırter, Firs	t Year	Credits
ECED&	105	Intro to Early Child Ed	5
ECED&	120	ECE Practicum I	2
EDUC&	130	Guiding Behavior	3
EDUC&	150	Child/Family/Community	3
Health 8	k Fitness	Distribution	
			16
Winter (	Quarter, l	First Year	Credits
ENGL&	101	English Composition I	OR
WRT	105	Writing in the Workplace	5
ECED&	170	Environments	3
ECED&	190	Observation/Assessment	3
EDUC&	115	Child Development	5
		·	16
Spring (	Quarter, I	First Year	Credits
ECED&	160	Curriculum Development	5
ECED	181	Language and Literacy	5
TMATH	101	Foundational Math Concepts	OR
BUS	121	Business Math	5
			15
Fall Qua	irter, Sec	ond Year	Credits
		Health/Safety/Nutrition	
PSYC&	100	General Psychology	5
Humani	ties Distr	ibution	5
			15
		Second Year	Credits
EDUC&		School Age Care	
ECED&	139	Administration of ECE Programs.	
HR	110	Human Relations-Workplace	
SOC&	101	Intro to Sociology	5
			16
-			Credits
ECED&	132	Infants/Toddlers Care	
ECED	233	ECE Practicum II	
EDUC&		Family Child Care	
Science	Distribut	tion	
			16

**Emphasis:** Early Childhood Education

**Degree:** Associate in Applied Science – Transfer

**PURPOSE:** The Early Childhood AAS-T degree provides both the necessary critical content to compete for immediate employability in early care and education and the general education coursework necessary for transfer to a bachelor's degree program. Some four-year institutions accept this AAS-T. Students are responsible for knowing the transfer and admission requirements of the receiving institution. Students should check with their advisor at Centralia College and a representative from the college they plan to attend. With additional classes, this degree will transfer to any four-year institution.

#### **Suggested Order of Classes**

Fall Qua	arter, Firs	st Year	Credits
ECED&	105	Intro Early Child Ed	5
ECED&	120	ECE Practicum I	2
EDUC&	130	Guiding Behavior	3
ENGL&	101	English Composition I	5
		•	15
Winter (	Quarter,	First Year	Credits
EDUC&	115	Child Development	5
ENGL&	102	Composition II	5
		tion	
			15
Spring (	Quarter,	First Year	Credits
ECED	181	Language and Literacy Health/Safety/Nutrition	5
ECED&	107	Health/Safety/Nutrition	5
CMST&	220	Public Speaking	5
			15
		cond Year	Credits
EDUC&		Child/Family/Community	
HR	110	Human Relations-Workplace	5
		II Distribution	
Social S	cience D	istribution	5
			18
Winter (			Credits
ECED&		Environments	
ECED&	190	Observation/Assessment	3
Health 8	& Fitness	Distribution	3
Humani	ities Dist	ribution	5
			14
		Second Year	Credits
ECED&	160	Curriculum Development	5
ECED	233	ECE Practicum II	5
PSYC&	100	General Psychology	5
			15

# **EARLY CHILDHOOD EDUCATION**

**Emphasis:** Early Childhood Education **Degree:** Initial State Certificate-ECE

**PURPOSE:** The Early Childhood Education Initial State Certificate Program prepares students for employment in the childcare field. The Initial certificate also increases the knowledge and skills of people who currently work with children.

The Initial Certificate is the first of three "stackable" certificates that provide a foundation for the state early childhood education certificate and/or associate degree. Students may enter any quarter and participate on a part-time schedule. Students may complete the certificate program, a degree program or take a single course of special interest.

Courses			Credits
ECED&	105	Intro Early Child Education	5
ECED&	107	Health/Safety/Nutrition	5
ECED&	120	ECE Practicum I	2
			12

**Emphasis:** Early Childhood Education

**Degree:** Short State Certificate of Specialization-ECE

**PURPOSE:** The ECE short certificate builds on the Initial Certificate as the second "stackable" certificate. At this point developing professionals have five choices for areas of specialization: CE General, Infant/Toddler Care, School-Age Child Care, Family Child Care and ECE Administration. All short certificates provide a foundation for the State ECE Credential and/or associate degree.

Courses			Credits
ECED&	105	Intro Early Child Education	5
ECED&	107	Health/Safety/Nutrition	5
ECED&	120	ECE Practicum I	2
		AND	
Early Chi	ldhood	Education (General)	
EDUC&	115	Child Development	5
EDUC&	130	Guiding Behavior	3
		OR	
Infant an	nd Toddle	er Care	
		Child Development	
EDUC&	132	Infants/Toddlers Care	3
		OR	
School-A	Age Care		
EDUC&	115		5
EDUC&	136	School Age Care	3
		OR	
Family C	hild Care		
EDUC&	115	Child Development	5
ECED&	134	Family Child Care	3
		OR	
Administ	tration		
EDUC&	115	Child Development	5
ECED&	139	Admin of Early Lrng Prog	3
			20

# **EARLY CHILDHOOD EDUCATION**

**Emphasis:** Early Childhood Education

**Degree:** State Early Childhood Education Certificate

**PURPOSE:** The Early Childhood Education State Certificate builds on the Short Certificate of Specialization as the final "stackable" certificate. It further prepares students for employment in the field and feeds into completing an associate degree.

#### **Recommended course schedule**

Fall Quarter		Credits
ECED& 105	Intro Early Child Ed	5
ECED& 107	Health/Safety/Nutrition	
ECED& 120	Practicum-Nurturing Rel	2
EDUC& 130	Guiding Behavior	
ECED& 132	Infants/Toddlers Care	OR
ECED& 134	Family Child Care	OR
ECED& 139	Admin of Early Lrng Prog	
EDUC& 136	School Age Care	3
		15
Winter Quarter		Credits
ECED& 190	Observation/Assessment	3
EDUC& 115	Child Development	5
EDUC& 150	Child/Family/Community	
ECED& 170	Environments-Young Child	3
		14
Spring Quarter		Credits
BUS 121	Business Math*	OR
BTEC 120	Applied Business Math	5
ECED& 160	Curriculum Development	5
ECED 181	Language and Literacy	5
		13-15
Summer or Fall	Quarter	Credits
WRT 105	Writing in the Workplace	OR
ENGL& 101	English Composition I**	
HR 110	Human Relations-Workplace	
	•	8-10
* FCF C+++ C	un dontial varuivas C suadita of MAT	میره ما م ۲۰۱

<sup>\*</sup> ECE State Credential requires 5 credits of MATH above 100 level.

<sup>\*\*</sup> ECE State Credential requires ENGL& 101.

## **EARTH SCIENCES**

Emphasis: Geology, Geography, Oceanography,

Astronomy, Meteorology **Degree:** Associate in Science

**PURPOSE:** The degree program in Earth Sciences transfers to four-year colleges and universities. Completion of the program qualifies a student for junior standing at most four-year colleges and universities in Washington except in astronomy at the University of Washington, and reasonably assures qualification outside of the state.

The program will not qualify students for junior standing in astronomy at the University of Washington because only one year of physics with calculus is offered at Centralia College.

Students not prepared to enter MATH& 131 and CHEM& 121 should plan on more than four years to complete a bachelor's degree in one of the earth sciences. For those students, a three-year program of study at Centralia College, carefully planned with an advisor, is recommended.

Fall Quarter, First CHEM& 161 ENGL& 101 GEOL& 101	General Chemistry w/lab I English Composition I	5
Winter Quarter, CHEM& 162 MATH& 151 CMST& 220	General Chemistry w/lab II Calculus I	5
		5
Physics (calculus OCEA& 101 Humanities Dist	cond Year nce majors) sequences or non-calculus based) sequence <sup>3</sup> Intro to Oceanographyributionribution	'5 5 OR
Physics (calculus GEOG 201	Second Year nce majors) sequences or non-calculus based) sequence <sup>3</sup> Physical Geography Calculus III	'5 5
Physics (calculus SCIE 115 GEOL 108	Second Year  nce majors) sequences  or non-calculus based) sequence <sup>3</sup> Weather and Climate	<sup>•</sup> 5 OR 5

Some baccalaureate institutions require physics with calculus.

## **EDUCATION**

**Emphasis:** Education **Degree:** Associate in Arts

**PURPOSE:** The Associate in Arts degree with an emphasis on Education transfers to a four-year college or university for students planning a teaching career. Requirements of four-year colleges vary greatly, and individual programs need to be coordinated with the institution to which the prospective teacher plans to transfer. Future elementary teachers should also seriously consider involvement in music, art, or drama activities. See an advisor for additional information.

Fall Quarter, First Year	Credits
ENGL& 101 English Composition I	5
PSYC& 100 General Psychology	
Science Distribution	 <b>15</b>
	15
· ·	Credits
ENGL& 102 Composition II	
Content Elective	
Health & Fitness Distribution	
Humanities Distribution	
	16
	Credits
CMST& 220 Public Speaking	5
Health & Fitness Distribution	1
Science Distribution	5
Social Science Distribution	5
	16
Fall Quarter, Second Year	Credits
EDUC& 201 Intro to Education	
EDUC 202 Classroom Observation	2
Health & Fitness Distribution	1
Quantitative Skills Distribution	
Science Distribution	5
	16
	Credits
PSYC& 200 Lifespan Psychology	5
Content Elective	5
Humanities Distribution	5
	15
Spring Quarter, Second Year	Credits
EDUC 190 Cooperative Work Experience	
EDUC 190 Cooperative Work Experience Elective	OR
EDUC 190 Cooperative Work Experience	OR
EDUC 190 Cooperative Work Experience Elective	OR 2 5

# **ELECTRONICS, ROBOTICS & AUTOMATION**

**Emphasis:** Electronics, Robotics & Automation

**Degree:** Associate in Applied Science

**PURPOSE:** The goal of this program is to provide a graduate with the skills needed to find a job at a company that uses high-end automation equipment.

This equipment ranges from devices controlled by programmable logic controllers (industrial computers) to robotic devices. A successful student will have learned core electronics skills, characteristics and operation of various types of electric motors, pneumatics and embedded controllers.

In modern production facilities the plant is often under the control of machinery connected with Ethernet, DeviceNet or ControlNet.

Thus, this program has a strong component which includes computers and computer networking.

**PROGRAM OUTCOMES:** Students who successfully complete this program will have demonstrated the ability to:

- Operate equipment safely and evaluate situations for safety issues.
- Work as members of a team in an office or industrial setting.
- Determine quantitative solutions to AC/DC electronic circuits.
- Apply common theorems and instrumentation to safely troubleshoot complex circuits.
- Design, implement and maintain automated systems using Programmable Logic Controllers and industrial sensors.
- Integrate modern microcontrollers into robotic systems to retrieve data and produce specified results.
- Obtain, process and articulate visualizations of sets of data from industrial equipment, and use that data to propose logical system improvements.
- Think independently to obtain solutions, and to recognize the need to pursue results which exceed the minimum standards whenever possible.

Fall Qua	arter, Fil	rst Year	Credits
ERA	101	Electronics Assembly	4
ERA	105	Computer Operation	
HR	110	Human Relations-Workplace	
MATH	098	Algebra 1 (pre-college)	
IVIAIT	096	Algebra i (pre-college)	د <b>17</b>
			17
Winter (	Quarter	r, First Year	Credits
ERA	115	DC Electronics	5
CAD	110	CAD Electrical	
ERA	151	Mechanical Systems	
TMATH	121	Electronics Math 1	
			16
		, First Year	Credits
ERA	121	AC Electronics	
ERA	212	Digital Electronics	
TMATH	122	Electronics Math 2	
ERA	170	Solid State Electronics	4
			17
Fall Ou	artor Sa	econd Year	Credits
ERA	220	Sensors and Instruments	
ERA	230	Robotic Controllers	
ERA	240	Amplifiers	
HLTH	145	Safety & Fitness	
			16
Winter (	Ouarter	, Second Year	Credits
ERA	235	Communication Systems	
ERA	250	Automation I	2
ERA	251	Automation II	
ERA	270	Robotics III	
CNT	201	Network Technology 1	
C. 1.	201	receive receive ogy riminim	18
		, Second Year	Credits
ERA	252	Data Processing	
ERA	275	Job Search	
ERA	290	Robotics Capstone	
CAD	210	Advanced CAD Electrical	
WRT	105	Writing in the Workplace	5
			15

## **ENERGY TECHNOLOGY**

**Emphasis:** Energy Technology – Power Operations

**Degree:** Associate in Applied Science

**PURPOSE:** The Power Operations AAS Degree program prepares students to compete for employment in the Power Generation Industry.

Centralia College is designated as Washington State's Center of Excellence for Energy Technology and is supported by statewide energy industry and labor leaders. The Energy Technology degree offers coursework in traditional sources of power generation as well as renewable energy and energy efficiency. The program prepares students for entry level positions such as power plant assistant control operator, technician, and other high voltage apprenticeships.

**PROGRAM OUTCOMES:** Students who successfully complete this program will have demonstrated the ability to:

- Understand and operate electrical systems.
- Understand the components used in the transmission of electricity.
- Specialize in power generating, power transmission, metering, substation operations, plant mechanics, or boiler operations.
- Knowledge of energy efficiency and hands-on experience of doing an energy audit of a home or building.
- Knowledge of an practice for entrance exams that are typically required for entry into the electric utility industry.

_ ,, _			
	arter, Fir		Credits
CNT	117	Windows Workstation OS	
MATH	098	Algebra I*	
PPO	100	Intro to Energy Industry	5
PPO	150	Energy Efficiency	5
		,	12-17
		First Year	Credits
MATH	099	Algebra II*	
PPO		Power Generation	
PPO	120	Print Reading	5
			15
Sprina (	Quarter.	First Year	Credits
BTEC	210	Word I	5
MATH&		Math in Society	
PPO	103	Electric Utility Distribution	
PPO	130	Industrial Safety	
			20
Summe	r Quarte	er, Optional	Credits
PPO	191	Power Plant Job Prep	4
		·	4
Fall Ou	artor So	cond Year	Credits
ENGL&		English Composition I	
HLTH	145	Safety & Fitness	
HR	110	Human Relations-Workplace	
PPO	201	Plant Systems	
			18
Winter (	Quarter,	Second Year	Credits
ENVS&	100	Survey of Env Science	5
PPO		Plant Maintenance	
ENGL&		Composition II	
			20
Sprina (	Ouarter .	Second Year	Credits
BTEC	214	Excel	
PPO	203	Plant Ops Refrigeration	
Liective	ciedits		15
Racom	nandad	Elective Courses:	
CAD	112		_
	112	Computer Aided Drafting I	
ERA		DC Electronics	
ERA	121	AC Electronics	
PHYS&	100	Physics: Non-Science Majors	
PPO	205	Power System Operator I	
PPO	206	Power System Operator II	5

<sup>\*</sup> Credits not included in graduation totals.

## **ENGINEERING**

**Emphasis:** Bioengineering and Chemical Engineering

**Degree:** Associate in Science-MRP

**PURPOSE:** The Bio/Chemical Engineering Associate in Science degree is a pre-engineering Major Related Program designed for students transferring to a four-year college or university to complete a degree in the sub-discipline of bioengineering or chemical engineering. Elective credits should be planned with the help of an engineering advisor and based on the requirements of the specific discipline at the baccalaureate institution the student plans to attend. This two-year program requires students to be ready for calculus by the second quarter of the first year.

Students who are not well prepared in high school mathematics and science should plan a three-year program at Centralia College in preparation for transfer to a four-year school with the main emphasis in the first year on strengthening your mathematics, basic sciences, communication, and reading skills.

#### **Suggested Order of Classes**

Fall Quarter, Firs		Credits
CHEM& 161	General Chem w/lab I	6
ENGL& 101	English Composition I	5
ENGR 100	Intro to Engineering	2
Elective**		OR
	ribution	
	istribution	
		18
Winter Quarter,		Credits
CHEM& 162	General Chem w/lab II	6
MATH& 151	Calculus I	5
Elective**		OR
	ribution	
Social Science D	istribution	5
		16
Spring Quarter,		Credits
	General Chem w/lab III	
MATH& 152	Calculus II	5
Elective**		OR
	ribution	
	istribution	
		16
Fall Quarter, Sec	ond Year	Credits
CHEM& 261	Organic Chemistry I	
MATH 118	Linear Algebra	5
PHYS& 221	Engineering Physics I	
	3 3 ,	16
Winter Quarter,		Credits
BIOL& 222	Majors Cell/Molecular(lab)	
CHEM& 262	Organic Chemistry w/lab	
MATH& 163	Calculus III	5
PHYS& 222	Engineering Physics II	5
		15-16
Spring Quarter,	Second Year	Credits
	Differential Equations	
	Engineering Physics III	
ENGR& 214		
nealth & Fitness	Distribution	
		18

An Economics class is recommended.

- \* If you need review prior to MATH& 151 Calculus I, you may take Precalculus.
- \*\* Choose one elective from CS& 131, CS& 141, MATH 264

Check for specific prerequisites for transfer institutions, particularly natural science and foreign language requirements.

## **ENGINEERING**

**Emphasis:** Computer and Electrical Engineering

Degree: Associate in Science-MRP

**PURPOSE:** This pre-engineering degree is a Major Related Program designed for students transferring to a four-year college or university to complete a bachelor's degree in computer engineering or electrical engineering.

Elective credits should be planned with the help of an engineering advisor and based on the requirements of the specific discipline at the baccalaureate institution the student plans to attend. This two-year program requires students to be ready for calculus by the second quarter of the first year. Students who are not well prepared in high school mathematics and science, you should plan a three-year program at Centralia College in preparation for transfer to a four-year school. The main emphasis in the first year should be on strengthening mathematics, basic sciences, communication, and reading skills.

		5 2 OR
<b>Humanities Dist</b>	First Year Technical Writing Calculus I Distribution ribution *	5 3 OR
Spring Quarter, CS& 131 CS& 141 MATH& 152 ENGR& 214	First Year  Computer Science   C++  Computer Science   Java  Calculus   I  Statics	5 5
PHYS& 221 Humanities Dist	cond Year Linear Algebra Engineering Physics I ribution	5 OR
Winter Quarter, ENGR 203 ENGR& 215 MATH& 163 PHYS& 222	Applied Numerical Methods  Dynamics  Calculus III  Engineering Physics II	5 5 5 <b>20</b>
Spring Quarter, ENGR& 204 MATH 212 MATH 264 PHYS& 223	Second Year  Electrical Circuits  Differential Equations  Calculus IV  Engineering Physics III	5 3

<sup>\*</sup> An Economics class is recommended.

<sup>\*\*</sup> If you need review prior to MATH& 151 Calculus I, you should take Precalculus.

## **ENGINEERING**

**Emphasis:** Mechanical & Civil Engineering

**Degree:** Associate in Science-MRP

**PURPOSE:** This pre-engineering degree is a Major Related Program designed for students transferring to a four-year college or university to complete a degree in the subdisciplines of mechanical, civil, aeronautical, industrial, and materials science engineering.

Elective credits should be planned with the help of an engineering advisor and based on the requirements of the specific discipline at the baccalaureate institution the student plans to attend.

This two-year program requires students to be calculus-ready second quarter of the first year. Students who are not well prepared in high school mathematics and science should plan a three-year program at Centralia College in preparation for transfer to a four-year school. The main emphasis in the first year should be on strengthening mathematics, basic sciences, communication, and reading skills.

#### **Suggested Order of Classes**

Fall Qua	rter, Firs	st Year	Credits
CHEM&	161	General Chemistry w/lab I	6
ENGL&	101	English Composition I	5
ENGR		Intro to Engineering	
Social S		Pistribution**	
			18
		First Year	Credits
		General Chemistry w/lab II	
MATH&	151	Calculus I*	5
Humani	ties Dist	ribution	5
			16
			Credits
ENGR&	214	Statics	
		Calculus II	
		Distribution	
		ribution	
Social S	cience D	oistribution**	5
			18
Fall Qua	irter, Sec	cond Year	Credits
	225	Mechanic of Materials	5
ENGR& MATH	225 118	Mechanic of Materials Linear Algebra	5 5
ENGR&	225 118	Mechanic of Materials	5 5 5
ENGR& MATH	225 118	Mechanic of Materials Linear Algebra	5 5
ENGR& MATH PHYS&	225 118 221 <b>Quarter,</b>	Mechanic of Materials Linear Algebra Engineering Physics I Second Year	5 5 5 <b>15</b> <i>Credits</i>
ENGR& MATH PHYS& Winter C	225 118 221 <b>Quarter,</b> 215	Mechanic of Materials Linear Algebra Engineering Physics I  Second Year Dynamics	5 5 5 <b>15</b> <b>Credits</b>
ENGR& MATH PHYS& Winter C ENGR& MATH&	225 118 221 <b>Quarter,</b> 215 163	Mechanic of Materials Linear Algebra Engineering Physics I  Second Year  Dynamics Calculus III	5 5 15 Credits
ENGR& MATH PHYS& Winter C	225 118 221 <b>Quarter,</b> 215 163	Mechanic of Materials Linear Algebra Engineering Physics I  Second Year  Dynamics Calculus III	5 5 <b>15</b> <b>Credits</b> 5
ENGR& MATH PHYS& Winter C ENGR& MATH&	225 118 221 <b>Quarter,</b> 215 163 222	Mechanic of Materials Linear Algebra Engineering Physics I  Second Year  Dynamics Calculus III	5 5 <b>15</b> <b>Credits</b> 5
ENGR& MATH PHYS& Winter C ENGR& MATH& PHYS&	225 118 221 <b>Quarter,</b> 215 163 222	Mechanic of Materials Linear Algebra Engineering Physics I  Second Year  Dynamics Calculus III	5 5 <b>15</b> <b>Credits</b> 5
Winter CENGR& MATH& PHYS& ENGR	225 118 221 <b>Quarter,</b> 215 163 222 203	Mechanic of Materials Linear Algebra Engineering Physics I  Second Year  Dynamics Calculus III Engineering Physics II Applied Numerical Methods	55555555
Winter CENGR& MATH& PHYS& ENGR	225 118 221 <b>Quarter,</b> 215 163 222 203 <b>Quarter,</b> 204	Mechanic of Materials Linear Algebra	55555555
Winter CENGR& MATH& PHYS& ENGR	225 118 221 <b>Quarter,</b> 215 163 222 203 <b>Quarter,</b> 204 212	Mechanic of Materials Linear Algebra	
Winter CENGR& MATH& PHYS& ENGR  Spring CENGR& MATH MATH	225 118 221 <b>Quarter,</b> 215 163 222 203 <b>Quarter,</b> 204 212 264	Mechanic of Materials Linear Algebra	55555555
Winter CENGR& MATH& PHYS& ENGR	225 118 221 <b>Quarter,</b> 215 163 222 203 <b>Quarter,</b> 204 212 264	Mechanic of Materials Linear Algebra	55555555

Electives must include a minimum of 2 or more courses chosen from Calculus IV, Technical Writing, and Electrical Circuits.

- \* Students who need review prior to (MATH& 151) Calculus I should take Precalculus.
- \*\* A course in economics is recommended, either ECON& 201 or ECON& 202.

## **ENGLISH**

**Emphasis:** English **Degree:** Associate in Arts

**PURPOSE:** The Associate in Arts degree with an emphasis in English provides introductory-level and survey courses within the parameters of an English major as that English major is defined at the baccalaureate degree-granting institution to which the student transfers. Most English departments at the baccalaureate level will accept 10-15 credits of lower-level English courses as meeting minimum requirements toward a major in English. English credits taken at Centralia College beyond the 10-15 acceptable credits at the baccalaureate institution will be considered elective credits and may or may not fulfill English major requirements at the baccalaureate transfer institution.

#### **Suggested Order of Classes**

Fall Quarter, First Year	Credits
ENGL& 101 English Composition I	5
Humanities Distribution	
Social Science Distribution*	
	15
Winter Quarter, First Year	Credits
ENGL& 102 Composition II	5
Elective (Literature or Creative Writing Class)	5
Humanities Distribution	5
	15
Spring Quarter, First Year	Credits
Elective (Literature Class)	
Health & Fitness Distribution	3
Quantitative Skills Distribution	5
Social Science Distribution	5
	18
Fall Quarter, Second Year	Credits
Elective (Literature Class)	5
Humanities Distribution	5
Science Distribution	5
	15
Winter Quarter, Second Year	Credits
Elective (Literature or Creative Writing Class)	
Science Distribution	
Social Science Distribution	5
	15
	Credits
Elective (Literature Class)	
Humanities Distribution	
Science Distribution	5
	15

# To satisfy the 3-5 credit diversity requirement, students may wish to take:

- Non-Western Literature-winter
- Women in Literature-spring

Other "D" courses listed in current college catalog.

- \* History is recommended for a Social Science distribution requirement.
- \*\* Creative writing electives available.

## **ENVIRONMENTAL SCIENCE**

**Emphasis:** Environmental Studies

**Degree:** Associate in Arts

**PURPOSE:** The Associate in Arts degree with an emphasis in Environmental Studies is intended for students who plan a career in an environmental field in areas such as environmental policy and law, urban planning, environmental ethics, and environmental advocacy.

#### **Suggested Order of Classes**

BIOL& ENGL&	101	t Year Survey of Biology English Composition Iibution	5
Winter C	Quarter, I	First Year	Credits
ENVS&	100	Survey of Env Science	5
Social So	cience Di	istribution	5
Elective			5
			15
Spring C	Quarter, F	irst Year	Credits
ENGL&	102	Composition II	5
CHEM&	121	Intro to Chemistry	5
Humani <sup>-</sup>	ties Distr	ibution	5
			15
Fall Oua	rter. Sec	ond Year	Credits
-	-		
GEOL&	101	Intro to Physical Geology	5
GEOL& MATH&	101 146		5 5
GEOL& MATH&	101 146	Intro to Physical Geology Introduction to Stats	5 5
GEOL& MATH& Social So	101 146 cience Di	Intro to Physical Geology Introduction to Statsistribution	5 5 5
GEOL& MATH& Social So	101 146 cience Di Quarter, S	Intro to Physical Geology Introduction to Statsistribution	5 5 5 <b>15</b> <i>Credits</i>
GEOL& MATH& Social So Winter C HLTH	101 146 cience Di Quarter, 9 130	Intro to Physical Geology Introduction to Stats istribution	55 15 Credits
GEOL& MATH& Social So Winter C HLTH Social So	101 146 cience Di Quarter, 9 130 cience Di	Intro to Physical Geology Introduction to Stats istribution Second Year Health and Wellness	55 15 Credits33
GEOL& MATH& Social So Winter C HLTH Social So	101 146 cience Di Quarter, 9 130 cience Di	Intro to Physical Geology Introduction to Stats istribution Second Year Health and Wellness	55 15 Credits33
GEOL& MATH& Social So Winter C HLTH Social So Electives	101 146 cience Di Quarter, S 130 cience Di	Intro to Physical Geology Introduction to Stats istribution Second Year Health and Wellness istribution	555333
GEOL& MATH& Social So Winter C HLTH Social So Electives	101 146 cience Di Quarter, S 130 cience Di S	Intro to Physical Geology Introduction to Stats istribution Second Year Health and Wellness	5535
GEOL& MATH& Social So Winter C HLTH Social So Electives Spring C Humani	101 146 cience Di Quarter, S 130 cience Di S	Intro to Physical Geology Introduction to Stats istribution Second Year Health and Wellness istribution	55
GEOL& MATH& Social So Winter C HLTH Social So Electives Spring C Humani	101 146 cience Di Quarter, S 130 cience Di S	Intro to Physical Geology Introduction to Stats istribution  Second Year Health and Wellness istribution	55

#### Recommend choosing one from the following:

Select three Social Science distribution classes, one class from each of the following disciplines:

- ANTH& 100, OR 206, OR 225, OR GEOG& 200
- ECON& 202 OR ECON& 201
- POLS& 101 OR POLS& 202

Select Humanities distribution classes from the following:

- CMST& 220 Public Speaking,
- PHIL& 101 Intro to Philosophy
- Plus five (5) credits of foreign language or other Humanities distribution. Additional science classes are recommended for electives: BIOL& 221, 222, 223; BOTA 113, 150; GEOG 201, and GEOL 108, 208

## **ENVIRONMENTAL SCIENCE**

**Emphasis:** Environmental Science **Degree:** Associate in Science

**PURPOSE:** The Associate in Science degree with an emphasis in Environmental Science is intended for students who plan a career as a scientist or technician in an environmental field such as conservation biology, environmental chemistry, environmental geology, energy resources, environmental planning, agro- ecology or atmospheric sciences.

### **Suggested Order of Classes**

Fall Quarter, Firs	st Year	Credits	
	General Chemistry w/lab I	6	
	English Composition I		
ENVS& 100	Survey of Env Science		
	· · · · · · · · · · · · · · · · · · ·	16	
Winter Quarter,	First Vaar	Credits	
	General Chemistry w/lab II		
	Intro to Physical Geology		
	Precalculus II		
MATTIC 142	i recalculus ir	16	
		10	
Spring Quarter,		Credits	
CHEM& 163	General Chemistry w/lab III	6	
ECON& 201	Microeconomics	5	
MATH& 151	Calculus I	5	
		16	
Fall Quarter, Sec	Credits		
	Majors Ecology/Evolution	5	
MATH& 152			
PHYS& 221	Engineering Physics I	5	
		15	
Winter Quarter, Second Year Credits			
BIOL& 222	Majors Cell/Molecular	5	
MATH& 146	Introduction to Stats	OR	
MATH& 163	Calculus III	5	
CMST& 220	Public Speaking	5	
	, -	15	
Spring Quarter,	Second Year	Credits	
BIOL& 223	Majors Organismal Phys	5	
	Health & Wellness		
<b>Humanities Dist</b>	ribution	OR	
Social Science D	istribution	5	
		13	
Chack for spacif	ic proroquicitos for transfor		

Check for specific prerequisites for transfer institutions, particularly natural science and foreign language requirements.

## **EXERCISE SCIENCE**

See Physical Education, Health and Recreation

## **FINE ARTS**

**Emphasis:** Fine Arts **Degree:** Associate in Arts

**PURPOSE:** The Associate in Arts degree with a Fine Arts emphasis is for students interested in transferring to a four-year college or university to complete a bachelor's degree with a major in art.

As well as providing a basic liberal arts foundation, this program provides a solid base in studio art and art history which is essential for those interested in entering a variety of art professions.

Fall Quarter, First Year	Credits
ART& 100 Art Appreciation	
ART 110 Design	4
Humanities Distribution	
Tarrares Distribution minimum	14
	• • •
Winter Quarter, First Year	Credits
ART 111 Sculpture	5
ENGL& 101 English Composition I	5
Social Science Distribution	5
	15
Spring Quarter, First Year	Credits
ART 102 Drawing I	
ENGL& 102 Composition II	5
Science Distribution	
Science Distribution	15
Fall Quarter, Second Year	Credits
ART 200 Art History: Ancient	5
Quantitative Skills Distribution	
Science Distribution	5
	15
Winter Quarter, Second Year	Credits
ART 201 Art History: 15th-17th Century	
Health & Fitness Distribution	
Science Distribution	
Social Science Distribution	
	16
Spring Quarter, Second Year	
ART 202 Art History: 18th-20th Century	
Humanities Distribution	
Social Science Distribution	5
	15

## **FOREIGN LANGUAGES**

Emphasis: Chinese, French, Spanish

**Degree:** Associate in Arts or Associate in Liberal Arts

**PURPOSE:** The degree plan is designed for transfer but is also appropriate for anyone who wishes a solid foundation in Chinese, French, or Spanish. It will benefit students with personal reasons for speaking a foreign language as well as travelers and those planning a career in international business, teaching, social work, interpreting, translating, and the Foreign Service, to name just a few possibilities.

#### **Suggested Order of Classes**

Fall Quarter, First Year CHIN&, FRCH&, or SPAN& 121 ENGL& 101 English Composition I Quantitative Skill Distribution	5
Winter Quarter, First Year CHIN&, FRCH&, or SPAN& 122 ENGL& 102 Composition II ANTH& 206 Cultural Anthropology Health & Fitness Distribution	5 5
Spring Quarter, First Year CHIN&, FRCH&, or SPAN& 123 CMST 250 Intercultural Communications Science Distribution	5
Fall Quarter, Second Year  SPAN& 221 Spanish IV  Elective (for Chinese and French majors)  Humanities Distribution  Social Science Distribution  Health & Fitness Distribution	5 5 5
Winter Quarter, Second Year  SPAN& 222 Spanish VI (for Spanish majors) Elective (for Chinese and French majors)	5 5 5
Spring Quarter, Second Year  SPAN& 223 Spanish VI (for Spanish majors) Elective (for Chinese and French majors) Elective Science Distribution	5 5

To qualify for this degree students must complete a minimum of 90 credits in courses numbered 100 or above.

Students are advised to consult their advisor for the selection of distribution and elective credits. Foreign language majors are encouraged to include courses in Anthropology, Political Science, Business, Education, Criminal Justice or Medical and Legal Terminology, depending on focus.

## **GEOGRAPHY**

**See** Earth Sciences

## **GEOLOGY**

**See Earth Science** 

## **GENERAL ENGINEERING**

**See Engineering** 

## **GRAPHIC DESIGN**

**Emphasis:** Graphic Design **Degree:** Associate in Arts

**PURPOSE:** Graphic design is art that interests, informs, persuades, or sells. It has taken the traditional form of printed material and now includes computer imaging.

The Associate in Arts degree with emphasis in graphic design is for students who want to complete a two-year program or transfer to a four-year college or university. This educational plan gives students a solid base in studio art. A portfolio of artwork is required to demonstrate studio abilities upon completion of the program.

#### **Suggested Order of Classes**

Fall Quarter, First Year	Credits
ART 110 Design	4
ENGL& 101 English Composition	5
Health & Fitness Distribution	1
Humanities Distribution	5
	15
	Credits
ART 201 Art History: 15th-17th Century	5
CMST& 102 Intro to Mass Media	5
Health & Fitness Distribution	1
Quantitative Skills Distribution	5
	16
Spring Quarter, First Year	Credits
ART 102 Drawing I	5
ART 202 Art History: 18th-20th Century	5
ENGL& 102 Composition II	5
Health & Fitness Distribution	1
	16
Fall Quarter, Second Year	Credits
ARI 130 Computer Graphics	5
Science Distribution	
Social Science Distribution	
	15
Winter Quarter, Second Year	Credits
Winter Quarter, Second Year ART 135 Graphic Design	
ART 135 Graphic Design	5
ART 135 Graphic DesignScience Distribution	5 5
ART 135 Graphic Design	5 5
ART 135 Graphic Design	5 5 5 15 Credits
ART 135 Graphic Design	5 5 5 15 Credits
ART 135 Graphic Design	5 5 5 15 Credits
ART 135 Graphic Design	5 5 15 Credits
ART 135 Graphic Design	5 5 15 Credits

Public Speaking.....5

CMST& 220

## **HISTORY**

**Emphasis:** History

**Degree:** Associate in Arts

**PURPOSE:** The Associate in Arts with an emphasis in History is designed to prepare students to major in history when they transfer to a four-year college or university.

Through the study of history students systematically examine the past and gain an opportunity to explore human nature and contemporary concerns. Historians work from the written records (cultural, economic, political, and scientific) of past generations to discover the kinds of lives led and problems faced.

The study of the trials and accomplishments, deeds, and aspirations of past generations is an excellent way to obtain the kind of broad education needed in our constantly changing world.

#### **Suggested Order of Classes**

Fall Oud	arter, Firs	st Year	Credits
		English Composition I	5
HIST&		Western Civilization I	
HUM		Cultural Ethics	
			15
Winter	Quarter	First Year	Credits
FNGI &	102	Composition II	Creans 5
HIST&	117	Western Civilization II	5 5
		Distribution	
		tion	
Science	Distribu		16
Sprina (	Duarter.	First Year	Credits
		Macroeconomics	
		Western Civilization III	
		Distribution	
	5		
200			16
Fall Oud	arter, Sec	ond Year	Credits
		Survey of Anthropology	5
		U.S. History I	
		tion	
			15
Winter (	Quarter,	Second Year	Credits
ENGL	260	Non-Western World Literature	5
HIST&	147	U.S. History II	5
Health 8	& Fitness	Distribution	1
Science	Distribu	tion	5
			16
			Credits
		U.S. History III	
POLS&	202	American Government	5
Humani	ities Dist	ribution	5
			15

These Humanities courses would be particularly valuable: Speech, Art History, and Music of the World.

## **HUMANITIES**

**Emphasis:** Humanities **Degree:** Associate in Arts

**PURPOSE:** The Associate in Arts degree with emphasis in Humanities is designed for those planning to major in English, History, Political Science, or related academic areas after transferring to a four-year college or university.

The study of a foreign language is highly recommended. Students are urged to consult with their advisor before selecting electives. This will allow coordination of electives with desired career goal.

Fall Qua	arter, Firs	st Year	Credits
ENGL&	101	English Composition I	5
HUM&	116	Humanities I	5
Quantit	ative Ski	lls Distribution	5
			15
Winter (	Quarter,	First Year	Credits
		Composition II	
		Humanities II	
Science	Distribu	tion	5
			15
Sprina (	Duarter.	First Year	Credits
		Western Civilization III	
		Humanities III	
PSYC&	100	General Psychology	5
Health 8	? Fitness	Distribution	3
ricultire	x 1 1011033		18
F-II O	<b>-</b>		ديد باند.
		cond Year	Credits
		Public Speaking	
		American Literature	
HUM	110	Ethics & Cultural Values	
			15
Winter (	Quarter,	Second Year	Credits
		Survey of Film Studies	
SOC&	101	Intro to Sociology	5
Science	Distribu	tion	5
			15
Sprina (	Duarter.	Second Year	Credits
		History of American Music	
		tion	

## **MATHEMATICS**

**Emphasis:** Mathematics **Degree:** Associate in Arts

**PURPOSE:** The Associate in Arts degree with an emphasis in Mathematics is for students interested in transferring to a four-year college or university to complete a bachelor's degree in mathematics.

Students who are not well prepared in high school math should plan, with an advisor, a three-year program to prepare for transfer to a four-year college or university. The emphasis in the first year should be on strengthening math, basic science, communication, and reading skills.

MATH& 142 Health & Fitness Humanities Distr	t Year Precalculus I Precalculus II (dependent on plants of the pl	acement) 5 1
MATH& 142 MATH& 151 MATH 156	First Year English Composition Precalculus II Calculus I Calculus I Lab (if enrolled in MAT stribution	5 TH& 151)1
MATH& 151 MATH& 152 Health & Fitness	Composition II	OR 5 1
MATH& 152 MATH& 146 Humanities Distr	ond Year Linear Algebra Calculus II Introduction to Statsibution	5
Humanities Distr	Second Year  Calculus IIIibutiontion	5
	Second Year  Differential Equations  Discrete Mathematics  Calculus IV  Distribution	5 3 1
	Courses 2, 223, 241, 242 2, 223	

# **MATHEMATICS EDUCATION**

**Emphasis:** Mathematics Education

**Degree:** Associate in Math Education – MRP

**PURPOSE:** The Associate in Math Education is intended to prepare students who aspire to be secondary math teachers. Students who complete this degree will have completed lower division general education requirements as well as the prerequisites for a major in math.

Fall Quarter, Fir	rst Year	Credits
	English Composition I	
	Precalculus I	
	Precalculus II (dependent on pla	
	tribution	
Tramamices Dis		15
Winter Quarter,	First Year	Credits
	Composition II	
	Precalculus II	
	Calculus I	
CMST& 220	Public Speaking	
		15
Spring Quarter,		Credits
	General Psychology	
	Calculus I	
	Calculus II	
Humanities Dis	tribution	5 <b>15</b>
- " -		
	cond Year	Credits
	Linear Algebra	
	Calculus II	
	Introduction to Stats	
	ution*	
Social Science L	Distribution	5 <b>20</b>
Winter Quarter,		Credits
EDUC& 201	Intro to Education	3
	Calculus III	
	s Distribution	
Social Science [	Distribution	
		16
Spring Quarter,		Credits
EDUC 202	Classroom Observation	2
MATH 264	Calculus IVElem Differential Equations	3
MATH 212	Elem Differential Equations	OR
MATH 228		
Science Distribi	ution*	
		15

<sup>\*</sup> Physics, Chemistry, Geology or Biology; at least one lab science required.

## **MEDIA STUDIES**

Emphasis: Radio Broadcasting, Television Production

**Degree:** Associate in Arts

**PURPOSE:** The Media Studies program is designed for students interested in transferring to a four-year college or university to complete a bachelor's degree in Electronic Media which includes: radio, television, video production, film broadcast journalism and sports announcing. In some cases, this program is equally suited for students interested in a two-year terminal degree prior to entry in the media field.

The Electronic Media facilities at Centralia College are unique among Washington community colleges. Students learn on professional audio and video equipment and are provided experience in numerous areas of production. KCED-FM, a fully equipped radio station authorized by the Federal Communications Commission, is operated by students in the Media Studies programs. Those students desiring an emphasis in radio broadcasting have ample opportunity for live on-the-air experience in broadcasting as well as studio production experience. The Centralia College television studio and production facilities are well equipped and provide experience in taping, directing, editing and producing. Students who transfer to a four-year college should consult their advisors for choice of distribution credit and elective courses.

#### **Suggested Order of Classes**

Fall Qua	ırter, Firs	t Year	Credits			
ENGL&	101	English Composition I	5			
M ST	230	English Composition I Intro to Radio Broadcasting*	5			
M ST	260	Intro to TV & Video Production	5			
Social S	cience D	istribution	5			
			20			
Winter (	Duarter.	First Year	Credits			
FNGI &	102	Composition II	5			
M ST	231	Adv Radio Broadcasting*	3			
M ST		Adv TV & Video Production				
		ibution				
· · · · · · · · · · · · · · · · · · ·	5.5		18			
C		First W	C 1:4.			
Spring C	zuarter, i	First Year Intro to Mass Media	Creaits			
	220	Intro to Mass Media	5			
M ST		Intro Broadcast News and Prod				
M ST		Television Production				
Health	k Fitness	Distribution	1 15			
			15			
Fall Qua	irter, Sec	ond Year	Credits			
M ST	271	Radio Broadcasting Intern**	OR			
M ST		TV Broadcasting Internship				
Humani		ibution				
Social S	cience D	istribution	5			
Science Distribution						
			16			
Mintor	Quarter !	Second Year	Credits			
MITT	zuurter, . 272	Radio Broadcasting Intern**				
M ST	2/2	TV Broadcasting Internship	 1_2			
		Distribution				
		istribution				
		tion				
Science	Distribu		12-13			
			12-13			
Spring C	Quarter, S	Second Year	Credits			
M ST	273	Radio Broadcasting Intern**	OR			
M ST	281	TV Broadcasting Internship	1 -3			
		Distribution				
	Quantitative Skills Distribution5					
Science	Distribu	tion	5			
			12 14			

- Radio Majors
- \*\* In cooperation with a professional radio or TV company, a student may enroll in MST 190 Cooperative Work Experience. A student may receive up to 12 credits for learning that occurs on the job. Attendance at a Work Experience Seminar is required of Co-op students. Students must take the Work Experience Seminar before or in the same quarter as the co-op course.

12-14

## **MEDIA STUDIES**

Emphasis: Film

**Degree:** Associate in Arts

**PURPOSE:** The Media Studies program is designed for students interested in transferring to a four-year college or university to complete a bachelor's degree in Electronic Media. In some cases, this program is equally suited for students interested in a two-year terminal degree prior to entry in the media field. The Electronic Media facilities at Centralia College are unique among Washington community colleges. Students learn on professional audio and video equipment and are provided experience in numerous areas of production.

For students interested primarily in television and film, the Centralia College television studio and production facilities are well equipped and provide experience in taping, directing, editing and producing.

Classes help students attain skills in camera work, studio and field production. Lighting, running an audio board, writing, directing, producing and editing short video projects are also covered. The Media Studies program in conjunction with the Drama department also offers students the opportunity to learn some set design and building crafts as well as lighting techniques and skills.

Students in the Television and Film classes will have the opportunity to participate in live productions, including broadcast of college basketball games, community forums as well as help in recording the college musical. Students who transfer to a four-year college should consult their advisors for choice of distribution credit and elective courses.

Fall Qua	arter, Fir	st Year	Credits
DRMA	106	Intro to Stage Craft	3
ENGL&	101	English Composition I	5
		Intro to TV & Video Production	
Social S	cience [	Distribution	5
			18
Winter (	Quarter,	First Year	Credits
DRMA	111	Stage Lighting	3
ENGL&	102	Composition II	
HUM	270	Survey of Film Studies	
M ST			
			18
Spring (	Quarter,	First Year	Credits
DRMA	103	Set Design	3
M ST	262	Television Production	5
Health 8	& Fitnes	s Distribution	3
Humani	ities Dist	tribution	5
			16
Fall Qua	arter, Se	cond Year	Credits
DRMA	107	Beginning Acting	5
M ST	281	Television Internship	1
Quantit	ative Sk	ills Distribution	5
Science	Distribu	ution	5
			16
Winter (	Quarter,		Credits
CMST&	102	Into to Mass Media	
Science	Distribu	ution	5
Social S	cience [	Distribution	5
			15
		Second Year	Credits
		ive	
		ution	
Social S	cience [	Distribution	5
			15

## **MEDIA STUDIES**

**Emphasis:** Sports Announcing and Production

**Degree:** Associate in Arts

**PURPOSE:** The Media Studies program is designed for students interested in transferring to a four-year college or university to complete a bachelor's degree in Electronic Media. In some cases, this program is equally suited for students interested in a two-year terminal degree prior to entry in the media field. The Electronic media facilities at Centralia College are unique among Washington community colleges.

Students learn on professional audio and video equipment and are provided experience in numerous areas of production. Students primarily interested in sports announcing have the opportunity to perfect their skills on campus radio station KCED-FM, on live broadcasts over the local cable access channel, and in the college's television studio and production rooms. Classes and practical application will help students develop skills sports announcers use to broadcast and report on sporting events.

Students also have the opportunity to host their own sports discussion show on KCED as well as calling the play by play action of college basketball, baseball and local high school football games.

Instruction on vocal techniques, production, conducting and recording interviews, writing and research as well as specific duties of each member of a broadcast booth will be covered. Students who transfer to a four-year college should consult their advisors for choice of distribution credit and elective courses.

Fall Quarter, First Year Credits				
ENGL&	101	English Composition I	5	
M ST	126	Sports Announcing for Football	1	
M ST	230	Radio Broadcasting	5	
Social So		stribution		
			16	
Winter C		- irst Year	Credits	
ENGL&	102	Composition II	5	
M ST	127	Sports Announcing for Basketball	1	
M ST	231	Adv Radio Broadcast		
Health 8	k Fitness	Distribution	1	
Social So	cience Di	stribution	5	
			15	
Spring C	Quarter, F	First Year	Credits	
CMST&		Intro to Mass Media		
M ST		Sports Announcing for Baseball		
M ST	220	Intro to Broadcast News & Produc	tion4	
Health 8	k Fitness	Distribution	1	
Science	Distribut	ion	5	
			16	
Fall Qua	rter, Sec	ond Year	Credits	
CMST&	220	ond Year Public Speaking	5	
M ST	260	Television Broadcasting and Produc	ction5	
Quantita	ative Skil	Is Distribution	5	
15				
Winter C	Quarter, S	Second Year Beginning Acting	Credits	
DRMA	107	Beginning Acting	5	
M ST	261	Adv. Television and Video Product	ion5	
Science	Distribut	ion	5	
15				
		Second Year	Credits	
M ST		Television Production		
		Distribution		
		ion		
Social So	cience Di	stribution	5	
16				

## **MEDICINE**

See Pre-Medicine, Pre-Dentistry

## **METEOROLOGY**

**See Earth Science** 

# NATURAL RESOURCE MANAGEMENT

**Emphasis:** Forestry, Fisheries, Wildlife Management

**Degree:** Associate in Arts

**PURPOSE:** This AA emphasis prepares students for transfer into Natural Resource Management professional programs typically with very specific coursework for a bachelor's degree.

To prepare for a program in forestry, fisheries, or wildlife management students should take at least two quarters of Calculus and one quarter of Introduction to Statistics.

	Fall Quarter, Firs	t Year	Credits
	ENGL& 101	English Composition I	5
	GEOL& 101	Intro to Physical Geology	5
	Social Science D	istribution**	5
			15
	Winter Quarter,		Credits
	ENGL& 102	Composition II	5
	ENVS 170	Intro to Natural Resources	5
	MATH& 146	Introduction to Stats	5
			15
	Spring Quarter, I	First Year	Credits
	BOTA 150	Dendrology-Trees in our Environ.	5
	GEOL& 208	Geology of Pacific NW*	5
	CHEM& 121	Intro to Chemistry	5
			15
	Fall Quarter, Sec		Credits
		jors Ecology/Evolution	
Humanities Distribution***			
	Social Science D	istribution**	5
			15
	Winter Quarter,	Second Year	Credits
	BIOL& 222 Maj	jors Cell/Molecular	5
		ribution***	
	Social Science D	istribution**	
			15
	Spring Quarter,		Credits
		Majors Organismal Phys	
		Distribution	
	Humanities Disti	ribution***	
			15

- \* GEOL& 208 Offered every other year.
- \*\* Choose from the following Social Science
  Distributions: ECON& 201, POLS& 101, POLS& 202 plus
  (5) additional credits of Social Science
- \*\*\* Choose from the following Humanities Distribution: CMST& 220 or PHIL 103 plus five additional credits of foreign language or other Humanities course needed for transfer program.

## **NURSING - REGISTERED**

Major: Nursing

**Degree:** Associate in Applied Science – Transfer

**PURPOSE:** The RN nursing program at Centralia College is designed to prepare men and women to give nursing care in a variety of health care settings. Students who complete the RN program are eligible to take the National Council Licensure Examination for Registered Nursing (NCLEX-RN). In addition to preparing a student to compete for employment in the nursing profession, the AAS-T degree provides science and general education courses appropriate for students planning a future transfer directly into selected Bachelor of Science in Nursing (BSN) programs.

A maximum of 24 students are selected each year for the RN program. RN students must apply for admission to the program. Students wishing to enter the RN program must meet all of the prerequisite courses, grade point average requirements, and have Nurse Aide Certification in Washington State. Complete RN admission application materials are available through the Centralia College Office of Admissions & Records. Applications are due in April; courses completed through spring quarter will be considered. (Subject to change.)

Students admitted to the RN program must then provide consent forms and immunization records to the Nursing Director and attend a mandatory orientation session. Before beginning clinicals, nationwide and Washington State background checks will be obtained. This includes a criminal records check required by clinical facilities in order to be at those clinical sites. Students also must show proof of current Basic Life Support (BLS) for Health Care Providers (HCP).

**PROGRAM OUTCOMES:** Students who successfully complete this program should be able to meet the Program Objectives associated with the following nursing roles:

- Caregiver-Provides nursing care interventions that demonstrate safety and a personal sense of accountability and commitment.
- Decision Maker-Uses decision making as a purposeful, self-regulated process that incorporates critical thinking in the consideration of evidence, contexts, conceptualizations, methods and criteria.
- Communicator-Demonstrates interactive communication processes (verbal, non-verbal, written, or through technology) that express advocacy, caring, compassion and cultural awareness.
- Teacher-Transmits health information, evaluates responses to teaching, and modifies teaching based on identified responses to promote and facilitate informed decision making, achieve positive outcomes and support self-care activities.

- Manager/Leader-Uses human, physical, financial and technological resources efficiently and effectively to meet client needs and support organizational outcomes. Possesses the ability to guide, teach, motivate, direct, and influence others to attain goals through cooperation and open professional communication in shared planning, decision making, problem solving and goal setting.
- Professional-Respects individual rights and professional standards, adheres to the nurse practice act and demonstrates honesty and integrity in behaviors characterized by commitment to others, appreciation for the values of the nursing profession, and participation in professional development activities.
- Researcher-Applies the scientific method to gain new knowledge, discover solutions to problems, advance the profession of nursing, and improve the delivery of nursing and health care.

Credits

**Prerequisites** 

rrerequisites	Creans
CHEM& 121	Intro to Chemistry5
ENGL& 101	English Composition I5
MATH& 146	Introduction to Stats5
PSYC& 200	Lifespan Psychology5
BIOL& 241	Human A & P 15
BIOL& 242	Human A & P 25
NAC Certificati	
Cara Daarinam	nents Credits
Core Requirem	
	are recommended to be taken prior to
	the Nursing Program.
BIOL& 260	Microbiology5
CMST& 220	Public Speaking5
ANTH& 206	
	Intro to Sociology5
Health & Fitne	ss Distribution3
NURSING COL	IRSES
First Year, Fall	Quarter Credits
NURS 101	Basic Nursing Care Concepts12
First Year, Wins	ter Quarter
NURS 102	Common Alterations I12
First Year, Sprii	na Ouarter
NURS 103	Common Alterations II12
Second Year, F	
NURS 201	
NURS 220	Management & Leadership2
	12
Second Year, W	Vinter Quarter Credits
NURS 202	Complex Alterations12
Second Year, S	pring Quarter Credits
	Complex Management8
NURS 222	Transition to Practice4
	12
	14

## MEDICAL ASSISTANT

**Emphasis:** Medical Assistant

**Degree:** Associate in Applied Science

**PURPOSE:** Medical Assistants are multi-skilled practitioners who perform a wide range of skills in physicians' offices and other health care settings. Program graduates assist physicians and other health care practitioners on many aspects of medical practice, including patient care management, administrative, and clinical procedures.

**PROGRAM OUTCOMES:** Students who successfully complete this program will have demonstrated the ability to:

- Perform administrative tasks using computer software to research and organize data for medical information systems.
- Demonstrate efficiency in maintaining accurate and wellorganized patient medical records.
- Effectively use oral and written communication skills as they relate to a medical office environment.
- Perform within legal and ethical boundaries, including issues of patient confidentiality.
- Recognize the impact of cultural differences in care of patients.
- Use problem-solving/critical thinking to identify proper medical office procedures/processes, including infection control guidelines (Standard Precautions) as determined by the Center for Disease Control and the Occupational Safety and Health Administration.
- Prepare and maintain examination and treatment areas.
- Prepare a patient for and assist with routine and speciality examinations and procedures, including obtaining/ documenting vital signs and body measurements.
- Demonstrate knowledge of basic pharmacology and medication administration.
- Demonstrate knowledge of laboratory procedures performed in the medical office laboratory, including venipuncture and capillary puncture.
- Recognize and be able to respond to medical office emergencies within the scope of training.
- · Maintain medical office equipment and supplies.

#### **Suggested Order of Classes**

Fall Quarter, First Year			Credits
HLSV	121	Introduction to Healthcare	2
ENGL&	101	English Composition I	5
BTEC	102		3
MA	139		5
		5,	15
Winter Quarter, First Year			Credits
BIOL&	170	3,	
MA	140	Medical Assisting Intro	5
HR	110	Human Relations-Workplace	5
			15
Spring Quarter, First Year			Credits
PSYC&	100	General Psychology	
MA			
BIOL	172	Human Biology Lab	1
BTEC	266	Medical Law & Ethics	3
Health & Fitness Distribution			3
			17

#### Prerequisites for 2nd year:

MA 130, MA 139, MA 140, BIOL& 170, BIOL 172; 2.5 in each prerequisite course; cumulative 2.5 GPA.

Apply for Medical Assistant Year 2

Credits	econd Year	arter, Se	Fall Qu
10	MA Clinical Procedures I	241	MA
8	MA Admin Procedures	249	MA
18			
Credits	Winter Quarter, Second Year		
6	Medication Administration	242	MA
5	MA Laboratory Procedures	246	MA
care1	Basic Life Support for Healthca	110	HLSV
12			
Credits	Spring Quarter, Second Year		
6	MA Clinical Procedures II	243	MA
1	MA Externship Seminar	244	MA
	MA Clinical Externship	245	MA
2	ECG	208	MA
15			

## **PRE-NURSING DTA**

**Emphasis:** Pre-Nursing

Degree: Associate in Pre-Nursing - MRP

**PURPOSE:** The Associate in Arts degree with Pre-Nursing emphasis is designed for students who intend to pursue a Bachelor of Science in Nursing (BSN) degree from a baccalaureate institution. The educational plan provides courses identified by both public and private colleges and universities to prepare students for further study in the field of nursing. Admission to all nursing programs in Washington is highly competitive. Completing this program of study will prepare students to transfer with junior standing to most four-year colleges and universities in Washington but does NOT guarantee admission to the Nursing program(s).

Students are urged to consult an advisor and refer to admission requirements for individual baccalaureate institutions for specific requirements and admission criteria.

#### **Suggested Order of Classes**

MATH& Health &	<b>Credits</b> 5 5 1 5		
Winter Quarter, First Year			Credits
BIOL&	100	Survey of Biology	OR
BIOL&	170	Human Biology	
CHEM&	121	Intro to Chemistry	5
PSYC&	100	General Psychology	
		, 3,	15
Spring (	Credits		
		Intro to Organic/Biochemistry	
FNGI &	102	Composition II	5
PSYC&	200	Lifespan Psychology	5
		Distribution	
ricaitir	x 1 1011033		16
Fall Quarter, Second Year			Credits
HUM	110		
NUTR&		Nutrition	
		Human A & P 1	
			15
Winter (	Second Year	Credits	
SOC&	101	Intro to Sociology	5
CMST&		Public Speaking	
BIOL&		Human A & P 2	
Health 8		Distribution	
			16
Sprina (	Quarter, :	Second Year	Credits
BIOL&	260	Microbiology	5
BIOL	243	Adv Topics Human A & P	5
			15

It is strongly recommended that students confer with an advisor at their potential transfer baccalaureate institution to determine the courses that best support or may be prerequisites for their BSN program.

BIOL 243, although not required, is strongly recommended.

## **PHARMACY**

See Pre-Pharmacy

## PHYSICAL EDUCATION

**Emphasis:** Teacher Education **Degree:** Associate in Arts

**PURPOSE:** The Teacher Education plan is designed for students wanting to transfer to a four-year college or university to complete a bachelor's degree. The plan is well suited for students preparing for a career in education.

#### **Suggested Order of Classes**

Fall Qua	arter, Firs	st Year	Credits
ENGL&	101	English Composition I	5
MATH&	107	Math in Society	5
PSYC&	100	General Psychology	5
PE	229	Physical Fitness Concepts	3
			18
Winter (	Quarter,	First Year	Credits
CHEM&	121	,	
ENGL&		Composition II	
NUTR&		Nutrition	
PE	150/15	2/153	1
			16
		First Year	Credits
		Human Biology	
	220	, ,	
PE		0/142	
Human	ities Dist	ribution	
			16
Fall Qua	arter, Sec	cond Year	Credits
Fall Qua	arter, Sec 241	cond Year Human A & P 1	
	a <b>rter, Sec</b> 241 140	cond Year Human A & P 1 Exercise & Nutrition	5
BIOL&	241	Human A & P 1	5
BIOL& HLTH	241 140	Human A & P 1 Exercise & Nutrition	5
BIOL& HLTH SOC&	241 140 101	Human A & P 1 Exercise & Nutrition Intro to Sociology	5 5 <b>13</b> Credits
BIOL& HLTH SOC& Winter (	241 140 101	Human A & P 1  Exercise & Nutrition  Intro to Sociology  Second Year  Human A & P 2	55 13 Credits
BIOL& HLTH SOC& Winter ( BIOL& EDUC&	241 140 101 <b>Quarter,</b>	Human A & P 1	55 13 Credits55
BIOL& HLTH SOC& Winter C BIOL& EDUC& EDUC	241 140 101 <b>Quarter,</b> 242	Human A & P 1	55 13 Credits55
BIOL& HLTH SOC& Winter ( BIOL& EDUC&	241 140 101 <b>Quarter,</b> 242 201	Human A & P 1	55 13 Credits5333
BIOL& HLTH SOC& Winter C BIOL& EDUC& EDUC	241 140 101 <b>Quarter,</b> 242 201 202	Human A & P 1	55 13 Credits55
BIOL& HLTH SOC& Winter ( BIOL& EDUC& EDUC HLTH	241 140 101 <b>Quarter,</b> 242 201 202 130 <b>Quarter,</b>	Human A & P 1	55 13 Credits55
BIOL& HLTH SOC& Winter ( BIOL& EDUC& EDUC HLTH	241 140 101 <b>Quarter,</b> 242 201 202 130 <b>Quarter,</b> 154	Human A & P 1	55555
BIOL& HLTH SOC& Winter ( BIOL& EDUC& EDUC HLTH Spring ( HLTH PSYC&	241 140 101 <b>Quarter,</b> 242 201 202 130 <b>Quarter,</b> 154 200	Human A & P 1	55555
BIOL& HLTH SOC& Winter O BIOL& EDUC& HLTH Spring O HLTH PSYC& Humani	241 140 101 <b>Quarter,</b> 242 201 202 130 <b>Quarter,</b> 154 200 ities Dist	Human A & P 1	
BIOL& HLTH SOC& Winter O BIOL& EDUC& HLTH Spring O HLTH PSYC& Humani	241 140 101 <b>Quarter,</b> 242 201 202 130 <b>Quarter,</b> 154 200 ities Dist	Human A & P 1	

## PHYSICAL EDUCATION

**Emphasis:** Exercise Science **Degree:** Associate in Arts

**PURPOSE:** The Associate in Arts degree with an emphasis in Exercise Science is designed for students wanting to transfer to a four-year college or university to complete a bachelor's degree. This educational plan is well suited for students preparing for a career in exercise science.

#### **Suggested Order of Classes**

Fall Qua	arter, Firs	st Year	Credits
ENGL&	101	English Composition I	5
MATH&	146	Introduction to Stats	
PSYC&		General Psychology	
PE	229	Physical Fitness Concepts	
• –			
HLTH	145	Safety & Fitness	
			18
Winter (	Ouarter,	First Year	Credits
CHEM&	-		5
ENGL&		Composition II	
NUTR&		•	
PF		2/153	
FE	130/13	2/133	 16
			10
Spring (	Quarter,	First Year	Credits
BIOL&	170	Human Biology	5
		Public Speaking	
PE		0/142	
		ribution	
Haman	itics Dist		16
Fall Qua	arter, Sed	cond Year	Credits
BIOL&	241	Human A & P 1	5
HLTH	140	Exercise & Nutrition	3
SOC&		Intro to Sociology	
3000		micro to sociology illiminimi	13
Winter (	Quarter,	Second Year	Credits
BIOL&	242	Human A & P 2	5
HLTH	130	Health & Wellness	3
Humani	ities Dist	ribution	5
			13
Spring (	Quarter,	Second Year	Credits
CHEM&	131	Intro to Organic/Biochemistry	y5
HLTH		First Aid/CPR	
PSYC&	200	Lifespan Psychology	5
		Distribution	
Jocial J	c.c.i.cc D		

## **PHYSICS**

**Emphasis:** Physics

**Degree:** Associate in Science

**PURPOSE:** The Associate in Science, Track 2, with an emphasis in physics is designed for students transferring to a four-year college or university to complete a degree in physics.

Students not well prepared in high school mathematics and science should plan, with an advisor, a three-year program at Centralia College in preparation for transfer to a four-year college or university. The emphasis in the first year at Centralia should be on strengthening mathematics, basic sciences, communications, and reading skills.

#### **Suggested Order of Classes**

Fall Quarter, Firs		Credits
	General Chemistry w/lab I	
	English Composition I	
Health & Fitness	Distribution	3
		14
Winter Quarter,	First Year	Credits
CHEM& 162	General Chemistry w/lab II	6
ENGL& 235	Technical Writing	5
	Calculus I	
		16
Spring Quarter,	First Year	Credits
CHEM& 163	General Chemistry w/lab III	6
MATH& 152		
<b>Humanities Dist</b>	ribution	OR
Social Science D	istribution	5
		16
Fall Quarter, Sec	ond Year	Credits
MATH 118	Linear Algebra	5
PHYS& 221	Engineering Physics I	5
<b>Humanities Dist</b>	ribution	OR
Social Science D	istribution	5
		15
Winter Quarter,	Second Year	Credits
ENGR 203	Applied Numerical Methods	5
MATH& 163	Calculus III	5
PHYS& 222	Engineering Physics II	5
		15
Spring Quarter,		Credits
MATH 212	Differential Equations	5
MATH 264	Calculus IV	3
PHYS& 223	Engineering Physics III	5
<b>Humanities Dist</b>	ribution	OR
Social Science D	istribution	5
		18

A minimum of 15 credits in Humanities and Social Science are required. See Associate in Science Degree description.

# PRE-CHIROPRACTIC PRE-PHYSICAL THERAPY

**Emphasis:** Pre-Chiropractic, Pre-Physical Therapy

Degree: Associate in Science

**PURPOSE:** The Pre-Chiropractic, Pre-Physical Therapy program is intended for persons who plan to pursue a professional career in chiropractic or physical therapy.

The plan of study presents a challenging blend of natural and physical sciences and can be tailored to meet individual needs. Students who complete the recommended courses are reasonably assured of being able to transfer with junior standing to most colleges and universities in Washington. Students interested in physical therapy should be aware that a master's degree is required for entry into professional practice. Students are urged to consult with an advisor as they plan their curriculum and select electives. This will allow the advisor to coordinate the program with the requirements of the institution to which the students expects to transfer.

#### **Suggested Order of Classes**

Fall Quarter, Firs		Credits
BIOL& 221	Majors Ecology/Evolution	5
CHEM& 161	General Chemistry w/lab I	6
ENGL& 101	Composition I	5
	·	16
Winter Quarter,	First Voar	Credits
BIOL& 222		
	General Chemistry w/lab II	
MATH& 151	Calculus I	
ונו אחואואו	Calculus I	 16
		10
Spring Quarter,		Credits
BIOL& 223		
CHEM& 163	General Chemistry w/lab III	6
MATH& 152	Calculus II	5
		16
Fall Quarter, Sec	ond Year	Credits
BIOL& 241	Human A & P 1	OR
	Engineering Physics I	
	Distribution	
	istribution	
Joeiai Jerenice D		13
Winter Quarter,	Second Year	Credits
BIOL& 242	Human A & P 2	OR.
	Engineering Physics II	
MATH& 146	· · · · · · · · · · · · · · · · · · ·	
	ribution	
riamamics bise		15
Spring Quarter,	Second Year	Credits
	Adv Topics Human A & P	
PHYS& 273	Engineering Physics III	5
Social Science o	r Humanities Distribution	5 5
LICCUVC		15

#### Science electives:

BIOL& 221, 222, 223 Majors BIOL& 241, 242, 243 Human A & P w/lab I-III CHEM& 261, 262, 263 Organic Chem w/lab i-III PHYS& 221, 222, 223 Engineering Physics I-III

## **PRE-DENTAL HYGIENE**

**Degree:** Associate in Arts

**PURPOSE:** The Pre-Dental Hygiene program provides appropriate science and general education courses for persons transferring to either a two- or four-year dental hygiene program. Students may prepare for the one-year program below by completing high school chemistry, biology, and algebra or BIOL& 100 and MATH 098. Since there may be differences in prerequisites or curricula for dental hygiene programs at various colleges, students need to contact their advisor or the institution to which they will apply for specific details.

Students may also be required to complete the Dental Hygiene Aptitude Test. An advisor will help set an educational plan to complete this program of study.

#### **Suggested Order of Classes**

Fall Quarter, Firs	st Year	Credits
CHEM& 121	Intro to Chemistry	5
ENGL& 101	•	
MATH& 107		
MATH& 146		
	The odder on to state minimum.	15
Winter Quarter,	First Year	Credits
ENGL& 102	Composition II	5
SOC& 101	Intro to Sociology	5
<b>Humanities Dist</b>	ribution	5
		15
Spring Quarter,	First Year	Credits
BIOL& 170	Human Biology	5
CHEM& 131	Intro to Organic/Biochemistry	5
	General Psychology	
		15
Fall Ouarter, Sec	cond Year	Credits
Fall Quarter, See BIOL& 241	cond Year Human A & P 1	Credits
BIOL& 241	Human A & P 1	5
BIOL& 241 NUTR& 101	Human A & P 1 Nutrition	5 5
BIOL& 241 NUTR& 101	Human A & P 1	5 5
BIOL& 241 NUTR& 101 Humanities Dist	Human A & P 1  Nutritionribution	5 5 5 <b>15</b> Credits
BIOL& 241 NUTR& 101 Humanities Dist	Human A & P 1 Nutritionribution	5 5 5 <b>15</b> Credits
BIOL& 241 NUTR& 101 Humanities Dist <i>Winter Quarter,</i> BIOL& 242	Human A & P 1ribution	5 5 1 <b>5</b> 5 Credits
BIOL& 241 NUTR& 101 Humanities Dist Winter Quarter, BIOL& 242 CMST& 220	Human A & P 1  Nutrition ribution  Second Year  Human A & P 2  Public Speaking	5 5 15 Credits 5
BIOL& 241 NUTR& 101 Humanities Dist Winter Quarter, BIOL& 242 CMST& 220	Human A & P 1ribution	5 5 15 Credits 5
BIOL& 241 NUTR& 101 Humanities Dist Winter Quarter, BIOL& 242 CMST& 220	Human A & P 1  Nutrition  ribution  Second Year  Human A & P 2  Public Speaking	555555
BIOL& 241 NUTR& 101 Humanities Dist  Winter Quarter, BIOL& 242 CMST& 220 Social Science D  Spring Quarter, BIOL& 260	Human A & P 1  Nutrition  ribution  Second Year  Human A & P 2  Public Speaking  Distribution  Second Year  Microbiology	
BIOL& 241 NUTR& 101 Humanities Dist  Winter Quarter, BIOL& 242 CMST& 220 Social Science D  Spring Quarter, BIOL& 260	Human A & P 1  Nutrition  ribution  Second Year  Human A & P 2  Public Speaking  Distribution  Second Year	
BIOL& 241 NUTR& 101 Humanities Dist  Winter Quarter, BIOL& 242 CMST& 220 Social Science D  Spring Quarter, BIOL& 260 HLTH 145	Human A & P 1  Nutrition  ribution  Second Year  Human A & P 2  Public Speaking  Distribution  Second Year  Microbiology	
BIOL& 241 NUTR& 101 Humanities Dist  Winter Quarter, BIOL& 242 CMST& 220 Social Science D  Spring Quarter, BIOL& 260 HLTH 145 Diversity Elective	Human A & P 1  Nutrition  ribution  Second Year  Human A & P 2  Public Speaking  Distribution  Second Year  Microbiology  Safety & Fitness	

Consult with an advisor for specific prerequisites for transfer institutions to determine the courses that best support their Dental Hygiene program.

BIOL 243, although not required, is strongly recommended.

## PRE-PHARMACY

Degree: Associate in Science

**PURPOSE:** The Pre-Pharmacy program is intended for persons who plan to pursue a professional career in pharmacy. The plan of study presents a challenging blend of natural and physical sciences and can be tailored to meet individual needs.

Students who complete the program outlined are reasonably assured of being able to transfer with junior standing to most colleges and universities in Washington. Students are urged to consult with an advisor as they plan a curriculum and select electives. This will allow an advisor to coordinate the program with the requirements of the institution to which the student expects to transfer.

#### **Suggested Order of Classes**

- "	. 17	- II.
Fall Quarter, Fire		Credits
BIOL& 221	5,	
CHEM& 161		
ENGL& 101	Composition I	5
		16
Winter Quarter,	First Year	Credits
BIOL& 222	Majors Cell/Molecular	5
CHEM& 162	General Chemistry w/lab II	6
	Calculus I	5
		16
Spring Quarter,	First Year	Credits
BIOL& 223	Majors Organismal Phys	5
CHEM& 163	General Chemistry w/lab III	6
MATH& 152		
		16
Fall Quarter, Sec	cond Year	Credits
Fall Quarter, See Biology/Chemis	cond Year try sequence***	<b>Credits</b> 5-6
Biology/Chemis	cond Year try sequence*** Distribution*	5-6
Biology/Chemis Social Science D	try sequence***	5-6 5
Biology/Chemis Social Science D	try sequence*** Distribution*	5-6 5
Biology/Chemis Social Science D Health & Fitness	try sequence***siribution*si Distributionsiributionsiributionsiributionsiributionsiributionsiributionsiributionsiributionsiributionsiribution	5-63 13-14
Biology/Chemis Social Science D Health & Fitness	try sequence***siribution*si Distributionsiributionsiributionsiributionsiributionsiributionsiributionsiributionsiributionsiributionsiribution	5-63 13-14
Biology/Chemis Social Science D Health & Fitness	try sequence***si Distribution*si Distributionsi Distribution	5-63 13-14 Credits
Biology/Chemis Social Science D Health & Fitness Winter Quarter, Biology/Chemis MATH& 146	try sequence*** Distribution*s Distributions Second Year try sequence***	5-63 13-14 Credits5-6
Biology/Chemis Social Science D Health & Fitness Winter Quarter, Biology/Chemis MATH& 146	try sequence***s Distribution*s Distributions Distributions Second Yeartry sequence***	5-63 13-14 Credits5-6
Biology/Chemis Social Science D Health & Fitness Winter Quarter, Biology/Chemis MATH& 146 Humanities Dist	Second Year Introduction*	5-653 13-14 Credits5-65 15-16 Credits
Biology/Chemis Social Science D Health & Fitness Winter Quarter, Biology/Chemis MATH& 146 Humanities Dist	Stry sequence***	5-653 13-14 Credits5-65 15-16 Credits
Biology/Chemis Social Science D Health & Fitness Winter Quarter, Biology/Chemis MATH& 146 Humanities Dist	Second Year Introduction*	5-65-65-65-65-65-165-6
Biology/Chemis Social Science D Health & Fitness Winter Quarter, Biology/Chemis MATH& 146 Humanities Dist Spring Quarter, Biology/Chemis Social Science of	try sequence***	5-65-65-65-65-165-65-165-65-65-75-65-75-6

#### Science electives:

BIOL& 241, 242, 243 Human A & P w/lab I-III; CHEM& 261, 262, 263 Organic Chem w/lab I-III; PHYS& 221, 222, 223 Engineering Physics I-III

<sup>\*\*\*</sup> Biology majors should select Organic Chemistry or Anatomy & Physiology (BIOL& 241, 242) and Microbiology (BIOL& 260) for second year sequence.

## PRE-MEDICINE, PRE-DENTISTRY

**Degree:** Associate in Science

**PURPOSE:** The Pre-Medicine, Pre-Dentistry program is intended for persons who wish to prepare for a career in a medical profession. Medical schools do not give higher priority to a given major field of study when selecting candidates.

Students are therefore encouraged to formulate a program of study which is scholastically challenging and which can be the basis for a future career or for graduate study in the event they are not admitted to a medical school. The program outlined below provides a solid foundation in the natural and physical sciences. Students who complete this program of study are reasonably assured of being able to transfer with junior standing to most four-year colleges and universities in Washington.

Students are urged to consult an advisor as they plan their curriculum and select electives. This will allow coordination of the program with the requirements of the intended major at the institution to which the student expects to transfer.

#### **Suggested Order of Classes**

Fall Quarter, First BIOL& 221 PHYS& 221 CHEM& 161	Majors Ecology/Evolution Engineering Physics I General Chemistry w/lab I	5 6
ENGL& 101	Composition I	5 <b>16</b>
	<b>=</b> 1	
Winter Quarter,		Credits
BIOL& 222 PHYS& 222	Majors Cell/Molecular	
CHEM& 162	Engineering Physics II General Chemistry w/lab II	
MATH& 151	Calculus I	
MATTICE 131	Calculus I	
Spring Quarter,		Credits
BIOL& 223	Majors Organismal Phys	
PHYS& 223	Engineering Physics III	
CHEM& 163	General Chemistry w/lab III	
MATH& 152	Calculus II	
		16
Fall Quarter, Sec	ond Year	Credits
Biology/Chemist	try/Physics sequence*	5-6
PSYC& 100	General Psychology	5
HUM 110	Ethics and Cultural Values	5
		15-16
Winter Quarter,	Second Year	Credits
	try/Physics sequence*	5-6
MATH& 146		
MATH& 163	Calculus III	5
CMST& 220	Public Speaking	5
		15-16
Spring Quarter,	Second Year	Credits
	try/Physics sequence*	
	Intro to Sociology	
	Distribution	
		13-14

#### Science electives:

BIOL& 221, 222, 223 Majors; BIOL& 241, 242, 243 Human A & P w/lab I-III; BIOL& 260 Microbiology; CHEM& 261, 262, 263 Organic Chemistry w/lab I-III; PHYS& 221, 222, 223 Engineering Physics I-III

\* Some baccalaureate institutions require physics with calculus. Biology majors should select Organic Chemistry or Physics for second year sequence.

## **PRE-VETERINARY MEDICINE**

Degree: Associate in Science

**PURPOSE:** The Pre-Veterinary program is intended for persons who plan to pursue a professional career. The plan of study presents a challenging blend of natural and physical sciences and can be used to meet the requirements for an animal science major at Washington State University. Students who complete the program outlined below are reasonably assured of being able to transfer with junior standing to most colleges and universities in Washington. Students are urged to consult with an advisor as they plan a curriculum and select electives. This will allow the advisor to coordinate the program with the requirements of the institution to which the student expects to transfer.

#### **Suggested Order of Classes**

Fall Qua	rter, Firs	t Year	Credits
		Majors Ecology/Evolution	5
		General Chemistry w/lab I	
		Composition I	
		•	16
Winter (	Quarter, l	First Year	Credits
BIOL&	222	Majors Cell/Molecular	5
		General Chemistry w/lab II	
		Calculus I	
			16
Spring C	Quarter, F	- irst Year	Credits
BIOL&	223	Majors Organismal Phys	5
		General Chem w/lab III	
		Calculus II	
			16
Fall Qua	rter, Sec	ond Year	Credits
CHEM&	261	Organic Chemistry w/lab I	5
Social So	cience Di	stribution	5
Health 8	k Fitness	Distribution	3
			13
Winter C	Quarter, S	Second Year	Credits
CHEM&	262	Organic Chemistry w/lab II	
MATH&	146	Introduction to Stats	OR
MATH&	163	Calculus III	5
CMST&	220	Public Speaking	5
			15
		Second Year	Credits
		Organic Chemistry w/lab III	
		Humanities Distribution	
Elective			5
			15

## **PSYCHOLOGY**

**Emphasis:** Psychology **Degree:** Associate in Arts

**PURPOSE:** The Associate in Arts with an emphasis in Psychology is for students interested in transferring to a four-year institution. This educational plan addresses issues of human behavior and thought, provides the opportunity to gain fuller understanding of one's self and others, and develops skills in human relations, communication, research, and analysis.

Emphasis in psychology provides preparation for a variety of careers, and will benefit students majoring in education, nursing, physical and occupational therapy, business, law, medicine, or other disciplines which deal with people. Consult with psychology faculty for additional information.

#### **Suggested Order of Classes**

PSYC& 100	English Composition I	5
PSYC& 200	First Year  Composition II  Lifespan Psychology  tion	5
PSYC 210 PSYC 250 Health & Fitness	First Year Introduction to Stats Personality Theories Social Psychology Distribution	OR 5 1
Humanities Dist Science Distribu	cond Year  Distribution  ribution  tion  istribution	5 5
Elective Elective	Second Yearistribution	5
Elective Health & Fitness	Second Year  Distribution tion	1
Recommended C BIOL& 170 CHEM& 121 CHEM& 161 PSYC& 220 SOC& 101	Courses  Human Biology, Intro to Chemistry , General Chemistry w/lab I, Abnormal Psychology, Intro to Sociology	OR 5

Psychology majors are encouraged to develop a broad base in the social sciences.

## **SOCIOLOGY**

**Emphasis:** Sociology **Degree:** Associate in Arts

**PURPOSE:** The Sociology program provides a better understanding of what makes people behave the way they do. The focus is on the kinds of groups that people create and on specific interactions that take place as part of the basic social processes. How group activities influence individual members are also analyzed.

The sociology program provides an adequate foundation for students to transfer to a four-year college or university. See the sociology faculty advisor for details.

#### **Suggested Order of Classes**

Fall Quarter, First Year ENGL& 101 English Composition I	<b>Credits</b> 5
SOC& 101 Intro to Sociology	
Humanities Distribution*	
	15
	Credits
ENGL& 102 Composition II	5 -
MATH& 146 Introduction to Stats	
Social Science Distribution	
	15
Spring Quarter, First Year	Credits
ANTH/SOC225 Cultural & Ethnic Pluralism	5
SOC& 201 Social Problems	5
Humanities Distribution	5
	15
Fall Quarter, Second Year	Credits
ANTH& 206 Cultural Anthropology	5
Humanities Distribution	5
Science Distribution**	5
	15
	Credits
ANTH& 210 Indians of North America	5
Elective	
Health & Fitness Distribution	
Science Distribution	
	15
Spring Quarter, Second Year	Credits
Elective	
Science Distribution	
Social Science Distribution	
	15

- \* Recommend a language
- \*\* Recommend ENVS& 100

Sociology majors are encouraged to develop a broad base in the social sciences to include:

PSYC& 100 General Psychology PSYC& 200 Lifespan Psychology

## **TECHNOLOGY**

Degree: Associate in Technology - MRP

**PURPOSE:** This degree is a Major Related Program designed for students transferring to Eastern, Central, or Western Washington Universities to complete one of the bachelor of science in technology degrees, such as Industrial Technology, Mechanical Technology, Applied Technology, Technology Education, or technology with various options (manufacturing, electronics, design, or construction).

This degree meets the requirements of the Statewide Technology DTA and Engineering Technology AS-T Track 2 (MRP) Agreement.

Elective credits should be planned with the help of an engineering advisor and be based on requirements of the specific program at the baccalaureate institution that the student plans to attend. This two-year program requires students to be calculus-ready by third quarter of the first year. Students not well prepared in high school mathematics and science should plan a three-year program at Centralia College in preparation for transfer to a four-year school. The main emphasis in the first year should be to strengthen mathematics, basic sciences, communication, and reading skills.

#### **Suggested Order of Classes**

Fall Qua	rter, Firs	t Year	Credits
<b>ENGL&amp;</b>	101	English Composition I	5
ENGR		Intro to Engineering	
		Precalculus*	
		Distribution	
ricaitire			15
Winter	Quartor I	First Year	Credits
ENGR&		Engineering Graphics**	
		Technical Writing	
		Precalculus II*	
Social So	cience Di	istribution	5
			17
Spring C	Quarter, F	First Year	Credits
CS&	131	Computer Science I C++	OR
CS&	141	Computer Science I Java	5
		Engineering Graphics II**	
		Calculus I	
		ibution	
Tidilidili	cies Disci		18
Fall Oua	rter, Sec	ond Year	Credits
-	-	General Chemistry w/lab I	6
		Engineering Physics I	
		ibution	
Humani	נופז טוזנו	ibution	16
Winter C	Quarter, S	Second Year	Credits
<b>ENGR</b>	203	Applied Numerical Methods	5
PHYS&		Engineering Physics II	
		istribution	
Jocial J.	ilenee Di		15
Sprina C	Duarter S	Second Year	Credits
CMST&	220	Public Speaking	5
PHYS&	223	Engineering Physics III	5
Social S	-ionco Di	istribution	5
Juciai 30	LICITICE DI		
			15

- \* Students could take MATH 135 in place of MATH& 141 and 142.
- \*\* Students may petition for an Independent study or transfer equivalent credits from another college for the following: ENGR& 111 and ENGR& 112.

## **TELEVISION**

See Media Studies

## **THEATER**

**See Dramatic Arts** 

## **WELDING**

**Emphasis:** Welding Technology **Degree:** Associate in Technical Arts

**PURPOSE:** The Welding Technology program prepares students to compete for employment as an entry-level welder in building trades, ship building, structural fabrication, automatic and semiautomatic welding, and in maintenance welding.

The Welding Technology ATA program prepares students for advanced welding skills in FCAW (Flux Cored Arc), GTAW (TIG), GMAW (MIG), and SMAW (stick) welding. Students will have the opportunity to gain WABO Welding Certification.

**PROGRAM OUTCOMES:** Students who successfully complete this program will have demonstrated the ability to:

- Follow industry safety practices and recognize the effects of welding on health.
- Set up and adjust SMAW, GMAW, FCAW, GTAW, and oxyfuel equipment and accessories.
- Apply principles and welding design practices to welding fabrication and inspection.
- Identify and make repairs to finished welds.
- Interpret information on welding blueprints.
- Apply principles of metallurgy to welding fabrication and inspection.
- Create workable drawings to scale for reproduction.
- Perform 3-G and 4-G AWS WABO welding code qualification tests.

#### **Suggested Order of Classes**

Fall Qu	arter, Fi	rst Year	Credits
WELD	159	Oxyfuel & GTAW Theory	4
WELD	160	Oxyfuel & GTAW Theory lab	
WELD	167	Metallurgy for Welders	4
			17
Winter	Quartei	r, First Year	Credits
MATH	095	Basic Math (if needed)*	1-5
WELD	161	Arc Welding Theory	4
WELD	162	Arc Welding lab	9
		-	13-18
Spring	Quarter	; First Year	Credits
TMATH	116	Industrial Math	
WELD	126	Industrial Drafting	OR
CAD	115	CAD for Industry	2
WELD	164	MIG Welding Theory	4
WELD	165	MIG Welding lab	
DET	166	Shop Skills	3
			20
Eall Ou	C.	econd Year	Cuadisa
ruii Qu	arter, se	cona rear	Credits
H R	110	Human Relations-Workplace	
			5
HR	110	Human Relations-Workplace	5 4
H R WELD	110 265	Human Relations-Workplace Advanced Arc Welding	5 4 9
H R WELD WELD	110 265 266	Human Relations-Workplace Advanced Arc Welding Advanced Arc Weld lab	5 4 9
H R WELD WELD WELD	110 265 266 271	Human Relations-Workplace Advanced Arc Welding Advanced Arc Weld labBlueprint Reading for Welders	5 9 4 <b>22</b> Credits
H R WELD WELD WELD	110 265 266 271	Human Relations-Workplace Advanced Arc Welding Advanced Arc Weld lab Blueprint Reading for Welders  Second Year Writing in the Workplace**	5 9 4 <b>22</b> Credits
H R WELD WELD WELD	110 265 266 271 <b>Quarter</b>	Human Relations-Workplace Advanced Arc Welding Advanced Arc Weld lab Blueprint Reading for Welders  Second Year Writing in the Workplace** Advanced Gas Shielded	594 22 Credits
H R WELD WELD WELD Winter WRT	110 265 266 271 <b>Quarter</b> 105	Human Relations-Workplace Advanced Arc Welding Advanced Arc Weld lab Blueprint Reading for Welders  Second Year Writing in the Workplace** Advanced Gas Shielded Arc Weld Theory	594 22 Credits
H R WELD WELD WELD Winter WRT	110 265 266 271 <b>Quarter</b> 105	Human Relations-Workplace Advanced Arc Welding	5444454
H R WELD WELD WELD Winter WRT WELD	110 265 266 271 <b>Quarter</b> 105 267	Human Relations-Workplace Advanced Arc Welding Advanced Arc Weld lab Blueprint Reading for Welders  Second Year Writing in the Workplace** Advanced Gas Shielded Arc Weld Theory	5444454
H R WELD WELD WELD Winter WRT WELD	110 265 266 271 <b>Quarter</b> 105 267	Human Relations-Workplace Advanced Arc Welding	5444454
H R WELD WELD WELD Winter WRT WELD WELD	110 265 266 271 <b>Quarter</b> 105 267 268	Human Relations-Workplace Advanced Arc Welding	5494 22 Credits59
H R WELD WELD WELD Winter WRT WELD WELD	110 265 266 271 <b>Quarter</b> 105 267 268	Human Relations-Workplace Advanced Arc Welding	54955549 189 Credits3
H R WELD WELD WINTER WRT WELD WELD	110 265 266 271 <b>Quarter</b> 105 267 268	Human Relations-Workplace Advanced Arc Welding	5
H R WELD WELD WELD Winter WRT WELD WELD  Spring HLTH	110 265 266 271 <b>Quarter</b> 105 267 268 <b>Quarter</b> 145	Human Relations-Workplace Advanced Arc Welding	5
H R WELD WELD WELD WINTER WRT WELD WELD Spring HLTH WELD	110 265 266 271 <b>Quarter</b> 105 267 268 <b>Quarter</b> 145 269	Human Relations-Workplace Advanced Arc Welding	5

<sup>\*</sup>Credits not included in graduation totals.

<sup>\*\*</sup>Students interest in the BAS-AM program should take ENGL& 101.

## WELDING

**Emphasis:** Welding Technology (4-quarter program)

**Degree:** Certificate of Proficiency

**PURPOSE:** The Welding Proficiency Program prepares students for advanced welding skills in FCAW (Flux Cored Arc), GTAW (TIG), GMAW (MIG) and SMAW (stick) welding. Students will have the opportunity to gain WABO Welding Certification.

PROGRAM OUTCOMES: Students who successfully complete this program will have demonstrated the ability to: Follow industry safety practices and recognize the effects of welding on health.

- Set up and adjust SMAW, GMAW, FCAW, GTAW, and oxy-fuel equipment and accessories.
- · Identify and make repairs on finished welds.
- Interpret information on welding blueprints.
- Apply principles of metallurgy to welding fabrication and inspection.
- Create workable drawings to scale for reproduction.

#### **Suggested Order of Classes**

Fall Qu	Credits		
MATH	095	Basic Math (if needed)	1-5
WELD	159	Oxyfuel & GTAW Theory	
WELD	160	Oxyfuel & GTAW lab	
WELD	167		
			17-22
WELD 167 Metallurgy for Welders			Credits
	-	•	5
TMATH	116		
WELD	161		
		7.1. c 7. c 1. d 1	23
Spring Quarter, First Year			Credits
DET	166	Shop Skills	3
WELD	126		
CAD	115	CAD for Industry	2
WELD	164	MIG Welding Theory	4
WELD	165	MIG Welding lab	
		-	15
Fall Quarter, Second Year			Credits
WELD	265	Adv. Arc Welding Theory	4
WELD	266	Adv. Arc Welding lab	9
WELD	271	Blueprint Reading for Welders	4
		_	
			17

Completion of HR 110 Human Relations-Workplace (5 credits) is required and may be completed any quarter.

## WELDING

**Emphasis:** Welding (Evening) **Degree:** Certificate of Proficiency

**PURPOSE:** Students who complete the following 20 credits will be awarded a certificate of completion in Welding Fundamentals (this certificate can be completed entirely in the evening). These courses will be offered in the evening every fall, winter, and spring quarters.

**PROGRAM OUTCOMES:** Students who successfully complete this program will have demonstrated the ability to:

- Follow industry safety practices and recognize the effects of welding on health.
- Set up and adjust SMAW, GMAW, FCAW, GTAW, and oxyfuel equipment and accessories.
- Identify and make repairs to finished welds.
- Perform 3-G and 4-G AWS- WABO welding code qualification tests.

#### **Suggested Order of Classes**

Fall Qu	Credits			
WELD	180	Oxyfuel & GTAW	5	
WELD	181	Shielded Metal Arc Welding	5	
WELD	182	Gas Metal Arc Welding		
WELD	285	Arc Welding Certification	5	
Winter Quarter (choose one of the following)				
WELD	180	Oxyfuel & GTAW	5	
WELD	181	Shielded Metal Arc Welding	5	
WELD	182	Gas Metal Arc Welding		
WELD	285	Arc Welding Certification		
Spring	Quarte	er (choose one of the following)		
WELD	180	Oxyacetylene and GTAW	5	
WELD	181	Shielded Metal Arc Welding	5	
WELD	182	Gas Metal Arc Welding		
WELD	285	Arc Welding Certification	5	
Summe	er Quar	ter (choose one of the following)		
WELD	180	Oxyacetylene and GTAW	5	
WELD	181	Shielded Metal Arc Welding	5	
WELD	182	Gas Metal Arc Welding	5	
WELD	285	Arc Welding Certification		

When students complete WELD 180, 181, 182, 285 for a total of 20 credits, they will receive a certificate of completion.

## **COURSE DESCRIPTIONS**

#### **DISTRIBUTION REQUIREMENTS**

Courses meeting distribution requirements are designated after the course titles in the following manner:

C = Communication Skills

D = Diversity

H = Humanities

M = Math/Quantitative Skills

S = Natural Science

SS = Social Science

HF = Health and Fitness

Courses which are part of a professional/technical program and which might not be considered for transfer by four-year colleges are designated after the course title in the following manner:

PT = Professional/Technical

## **ACCOUNTING**

#### ACCT 110

#### Practical Accounting I (3)

Emphasizes fundamental principles of double-entry accounting as applied to bookkeeping systems. The course focuses on the development of the accounting cycle for small businesses and professional organizations.

#### ACCT 120

#### Practical Accounting II (3)

Accounting theory as applied to bookkeeping systems of small businesses and professional organizations. Focuses on accounting for payroll, merchandise, sales and purchases, cash receipts and payments, preparation of the worksheet and annual financial statements. Prerequisite: ACCT 110.

#### ACCT 130

#### **Basic Computer Accounting (3)**

Accounting experience on a personal computer, using QuickBooks Pro software. Reinforces procedures learned in ACCT 110 and 120 or ACCT& 201. Students use QuickBooks Pro software to record transactions, prepare financial statements, and payroll. Prerequisite: ACCT& 201 or ACCT 110 and 120.

#### ACCT 200

#### Financial Reporting (5)

This course emphasizes the fundamentals of double-entry accounting and the preparation of financial statements for business entities. Topics include, but are not limited to, accounting for assets, liabilities, equity, revenue and expenses. Prerequisite: COMPAS score equivalency necessary for entrance into MATH 096.

#### ACCT& 201

#### Principles of Accounting I (5)

This course emphasizes fundamental principles of doubleentry accounting and the preparation of financial statements for sole proprietorships. Prerequisite: MATH 098 or equivalent or consent of instructor.

#### ACCT& 202

### Principles of Accounting II (5)

This course emphasizes accounting for partnerships and corporations. Topics include, but are not limited to, accounting for fixed and intangible asset, payroll, stock, bonds, the statement of cash flows, and financial statement analysis. Prerequisite: ACCT& 201.

#### **ACCT& 203**

#### Prin of Accounting III (5)

This course emphasizes accounting for departments and branches, cost accounting in a manufacturing environment cost-volume-profit analysis, budget preparation and analysis, standard costs, segment reporting, differential costs and revenues, and capital budgeting decisions. Prerequisites: ACCT 200 or ACCT& 201 and 202.

#### ACCT 210

#### Introduction to Audit (5)

An introduction to the audit environment as it applies to the professional spectrum of financial accounting and reporting. Prerequisite: ACCT& 203.

#### ACCT 220

#### Accounting Information Systems (5)

The application of accounting information systems used in the computing environment. It is intended for the public bookkeeper managing transactional disposition of all accounts, developing financial statements, and maintaining external schedules. Prerequisite: ACCT& 201 or instructor permission.

#### ACCT 240

#### **Business Entity Tax (5)**

This course focuses on the determination and disposition of taxation as it applies to business entities, as well as introducing elements of tax planning and research. Prerequisite: ACCT& 203.

#### ACCT 260

#### **Individual Income Taxes (5)**

Introductory course in taxation emphasizing the preparation of individual federal income tax returns. Course focuses on history, economics, social aspects, equity, and structure of the federal income tax laws of the United States. Prerequisite: ACCT& 201.

#### ACCT 270

#### Payroll Accounting (3)

ACCT 270 is an introductory course covering aspects of the Fair Labor Standards Act, the Social Security Act, Federal Income Tax withholding laws, and other laws affecting payroll operations and employment practices. Prerequisite: ACCT& 201.

#### ACCT 285

#### **Bookkeeper Certification Course (5)**

This is the capstone course for accounting students participating in the Associate of Technical Arts (ATA) program and culminating in the student candidacy of either the Certified Bookkeeper (CB), Registered Tax Return Preparer (RTRP), or both. Prerequisite: ACCT& 203, ACCT 240.

## **ADULT BASIC EDUCATION**

#### ABE 011-014 and 016

#### English as a Second Language I-V (1-10)

Students demonstrate knowledge of sound-letter relationships by listening, speaking, reading, and writing the English alphabet. They become familiar with US currency and recognize common forms of print found in the home and environment. Prerequisite: CASA/ESL appraisal test.

#### ABE 015

#### English as a Second Language Lab (1-6)

Students will improve listening, speaking, and reading skills while participating in computer assisted learning activities, conversation, and focused listening activities and use of multimedia that will aid them in becoming independent learners. Corequisite: recommended in conjunction with ABE 011, 012, 013, 014, and 016.

#### ABF 020

#### **Adult Basic Education Orientation (1)**

Includes individual goal setting. An introduction to educational programs offered at Centralia College, placement testing, advising, and educational planning. Prerequisite for all new students to the ABE/ESL programs.

#### ABE 021, 22, 23

## Adult Basic Education Level II Reading, Writing, and Math (1-5)

Students will complete Level 2A reading competencies mandated by the Washington State Basic Skills Competency Indicators and CASAS assessment in lab, lecture/lab setting. Prerequisite: CASAS score of 200-210.

#### ABE 028

#### ABE Integrated Level II (1-15)

Designed for students to learn and/or review beginning grammar, punctuation, spelling, sentence structure, paragraph development, reading, comprehension and math skills in preparation for passing of the GED exam. Prerequisite: CASAS appraisal score 201 to 210.

#### ABE 031, 032, 033

## Adult Basic Education Level III Reading, Writing, and Math (1-5)

Students will study Level 3 reading competencies mandated by the Washington State Basic Skills Competency Indicators and CASAS assessment in lab, lecture, or lecture/lab setting. Prerequisite: CASAS score of 211-220.

#### ABE 038

#### ABE Integrated Level III (1-15)

Designed for students to learn and/or review intermediate grammar, punctuation, spelling, sentence structure, paragraph development, reading comprehension and math skills in preparation for passing of the GED exam. Prerequisite: CASAS appraisal score 211 to 220.

ABE 041, 042, 043

## Adult Basic Education Level IV Reading, Writing, and Math (1-5)

Students will study Level 4 reading competencies mandated by the Washington State Basic Skills Competency Indicators and CASAS assessment in lab, lecture, or lecture/lab setting. Prerequisite: CASAS score of 221-235.

ABE 048

#### ABE Integrated Level IV (1-15)

Designed for students to learn and/or review advanced grammar, punctuation, spelling, sentence structure, paragraph development, reading comprehension and math skills in preparation for the GED exam. Prerequisite: CASAS appraisal score 221 to 235.

ABE 051, 052, 053

# Adult Basic Education Level V Reading, Writing, and Math (1-5)

Students will study Level 5 reading competencies mandated by the Washington State Basic Skills Competency Indicators and CASAS assessment in lab, lecture, or lecture/lab setting. Prerequisite: CASAS score of 236-245.

ABE 058

#### Integrated Level V (1-15)

Designed for students to learn and/or review advanced grammar, punctuation, spelling, sentence structure, paragraph development, reading comprehension and math skills in preparation for the GED exam. Prerequisite: CASAS appraisal score 236 to 245.

ABF 060

#### **Key Skills for Success (1-10)**

This course will provide students with targeted skills in areas that will ease their transition into academic and vocational courses or into employment and training. Targeted skills include coursework that addresses personal management, interpersonal communication, career information, college resources, computer basics and help for success within vocational content areas. The instruction in these areas is pre-academic or pre-vocational with the purpose of creating a bridge for student to traditional college courses and services. Prerequisite: CASAS testing.

ABE 061, 062, 063

## Adult Basic Education Level VI Reading, Writing, and Math (1-5)

Students will study Level 6 reading competencies mandated by the Washington State Basic Skills Competency Indicators and CASAS assessment in lab, lecture, or lecture/lab setting. Prerequisite: CASAS score of 246+.

ABE 068

#### ABE Integrated Level VI (1-15)

Designed for students to learn and/or review advanced grammar, punctuation, spelling, sentence structure, paragraph development, reading comprehension and math skills in preparation for the GED exam. Prerequisite: ABE 058, completion of 3 GED tests or CASAS 246-255.

ABE 085

#### **Contemporary World Problems (1-5)**

Designed to improve analysis, synthesis, evaluation, and application of text in reading, writing, and thinking within the context of contemporary world problems.

ABE 086

#### Pacific NW History (1-5)

Designed to improve analysis, synthesis, evaluation, and application of text in reading, writing, and thinking within the context of the U.S and Northwest history.

ABE 087

#### **US Government & Civics (1-5)**

Designed to improve analysis, synthesis, evaluation, and application of text in reading, writing, and thinking within the context of U.S. Civics.

ABF 088

#### US History (1-5)

Designed to improve analysis, synthesis, evaluation, and application of text in reading, writing, and thinking within the context of U.S. and Northwest history.

ABE 089

#### **Health and Nutrition (1-5)**

A review of nutrition and a healthy diet to enhance one's overall health.

ABE 090

#### Health and Exercise (1-5)

A review of nutrition and exercise to enhance one's overall health.

#### ABE 092

#### Critical Reading/Writing (1-5)

Course is designed to improve analysis, synthesis, evaluation, and application of text in reading, writing, and thinking.

#### ABE 093

#### Fine Arts (1-5)

Course is designed to improve analysis, synthesis, evaluation, and application of text in reading, writing, and thinking through exploration of the arts.

#### ABE 094

#### Science Literacy (1-5)

Course is designed to improve analysis, synthesis, evaluation, and application of text in reading, writing, and thinking through exploration of the general fields in science.

#### ABE 095

#### **Occupational Education (1-5)**

Course is designed to improve analysis, synthesis, evaluation, and application of text in reading, writing, and thinking through exploration and implementation of career choices.

#### ABE 096

#### Science Literacy Laboratory (1-5)

Course is designed to improve analysis, synthesis, evaluation, and application of scientific material/procedure through reading, writing, and exploration using scientific methodology and evaluation of data.

## **AMERICAN SIGN LANGUAGE**

#### ASL& 121

#### American Sign Language I (5)

An introductory course in American Sign Language (ASL). Topics covered include visual awareness, vocabulary, basic grammatical principles, comprehension skills, and the historical overview of the deaf community and its language.

#### ASL& 122

#### American Sign Language II (5)

Enables students to better use and comprehend ASL by building vocabulary, improving skills of signing, reading of signs, and understanding of the deaf community. Prerequisite: ASL& 121 or instructor permission.

#### ASL& 123

#### American Sign Language III (5)

An in-depth study of American Sign Language applications including conversation regulators, classifiers and locatives, directional verbs and cultural information. Prerequisite: ASL& 122.

#### ASL& 221

#### American Sign Language IV (5)

Express yourself using not only hands, but the whole body. Emphasizes the beauty of the language of signs; increasing flexibility, reducing inhibitions, and accuracy or expression of the concept as distinct from the words. Prerequisite: ASL& 123 or permission of instructor.

## **ANTHROPOLOGY**

#### **ANTH& 100**

#### Survey of Anthropology (SS) (D) (5)

Participate in a four-field approach to the study of the diversity of humans and human cultures. Explore subfields of anthropology: social/cultural anthropology, physical/biological anthropology, archaeology, and anthropological linguistics.

#### ANTH& 206

#### Cultural Anthropology (SS) (D) (5)

Explore the whole of the human social and cultural world by means of investigating other people's beliefs and behaviors. Through a cross-cultural perspective we attempt to understand others in order to better learn about ourselves.

#### ANTH& 210

#### Indians of North America (SS) (D) (5)

Investigate cultural systems of beliefs, behaviors and technology practiced by native North American peoples. Learn about subsistence patterns, exchange and trading relationships, marriage and the family, political organization, the life cycle, religion, belief and knowledge.

#### **ANTH 225**

# Cultural & Ethnic Pluralism in Contemporary Society (SS) (D) (5)

Examine ethnicity, ethnic identity, and cultural characteristics of ethnic and social groups in North America and around the world. Understand the relationship between social organization and forms of social, economic, and political domination and subordination.

#### ANTH 235

#### Myth, Ritual, and Magic (SS) (D) (5)

Experience the supernatural and religious beliefs of peoples and cultures. Examine different modes of constructing "reality" and "belief" as well as their methods of ritual application in societies worldwide.

### **ART**

#### ART& 100

#### Art Appreciation (H) (5)

Introduction to the visual arts. Painting, drawing, sculpture and architecture will be examined as art forms and for their role in human history. Students will be introduced to a variety of art media and techniques.

#### ART 102

#### Drawing (H) (5)

Study the fundamentals of drawing: composition, technique and manipulation of materials, exploration of subject matter. Lectures on contemporary and historical artists support drawing labs.

#### ART 103

#### Drawing (5)

Intermediate level study of the fundamentals of drawing: composition, technique and manipulation of materials, exploration of subject matter. Lectures on contemporary and historical artists support drawing labs. Prerequisite: ART 102 or instructor permission.

#### ART 104

#### Drawing (5)

Advanced level of study of the fundamentals of drawing: composition, technique and manipulation of materials, exploration of subject matter. Lectures on contemporary and historical artists support drawing labs. Prerequisite: ART 102, 103 or instructor permission.

#### ART 110

#### Design (4)

This course is an introduction to two-dimensional design. Assignments include a variety of subject matter and materials. No prerequisites.

#### ART 111

#### Sculpture (4)

An introduction to the fundamentals of three-dimensional design. Assignments include a variety of subject matter and materials. All are welcome.

#### ART 130

#### **Computer Graphics (5)**

An overview of computer programs used to create images for print and screen, still and moving. Gain basic skills in design and programs by creating digital art work in a series of assignments.

#### ART 135

#### **Graphic Design I (5)**

Problem solving in basic type and graphic design. Sequences of studio projects demonstrate students' ability to create, design and prepare art for reproduction. Lectures explore graphic design as an art form and as a business.

#### ART 151

#### Typography (5)

This course covers the history of type, designing with type, reproduction of type. Type is the foundation for graphic design. Students will apply knowledge gained in a series of studio projects. Prerequisite: ART 110 or instructor permission.

#### ART 160

#### Introduction to Fibers (H) (5)

An introduction to fiber art history and techniques with an emphasis on traditional, hand-manipulated processes such as basketry, felting, dyeing and simple loom work.

#### ART 170

#### Black & White Photography (H) (5)

Fundamentals of photography and camera handling with emphasis on understanding and using photography as an expressive art form. The course will cover basic camera operations, black and white darkroom processes familiarity with materials and equipment.

#### ART 174

#### Digital Photography (H) (5)

An introduction to digital photography as an expressive art form. Students will explore the creative and technical requirements of digital imaging, as well as examine the contributions of contemporary fine artists working in this medium. Prerequisite: basic computer experience required.

#### ART 190

#### **Cooperative Work Experience (1-12)**

See description under COOP 190 for additional information.

#### ART 200

#### Art History: Ancient (D) (H) (5)

A survey of the development of art in Europe, the Near East and Asia from prehistoric times through the 14th century CE. The course will explore developments in architecture, painting, sculpture and other art forms.

#### ART 201

#### Art History: 15th-17th Century (D) (H) (5)

A survey of the development of art in Pre-Columbian America, Africa and 15th-17th century Europe. The course will explore developments in architecture, sculpture, painting and other art forms.

ART 202

#### Art History: 18th-20th Century (D) (H) (5)

A survey of the history of art in 15th-20th century Asia and 18th-20th century Europe. Historical developments in architecture, sculpture, painting and other art forms will be examined.

ART 220

#### Computer 3-D Modeling (3)

This is an advanced computer-based course for students interested in learning surface and solid modeling techniques for future use in applications such as mechanical design, game development, and animation. Instructor permission is required.

ART 269

#### Portfolio (3)

Development and presentation of an individual portfolio which meets professional standards of excellence for job potential. Open to art and photography students. Prerequisite: instructor permission.

## **ASTRONOMY**

**ASTR 125** 

#### The Solar System (S) (3)

Brief overview of the history and scope of astronomy, followed by a study of our own solar system including its sun, planets, moons, asteroids, and comets, and its origin. Some writing and computation is expected. Prerequisite: completion of MATH 098 with a 2.0 or above.

**ASTR 126** 

#### Stars and Galaxies (S) (3)

Introduction to the astronomy of stars and galaxies including nuclear processes, spectroscopy, stellar evolution, black holes, quasars, and an introduction to cosmology. Some writing and computation are expected.

**ASTR 127** 

#### The Solar System & the Universe (S) (5)

Brief overview of the history and scope of astronomy, followed by a systematic study of the solar system, stars, galaxies, and the universe Prerequisite: one year high school algebra or MATH 098.

**ASTR 128** 

#### Observational Astronomy (S) (2)

Introduces the night sky as seen with the naked eye and a telescope. Lectures, labs, and observations provide astronomical concepts and hands on applications of these concepts. Transportation to Onalaska's Observatory is the student's responsibility.

## **BIOLOGY**

**BIOL& 100** 

#### Survey of Biology w/lab (S) (5)

Surveys the structures and functions of cells and organisms. Explores basic genetic and evolutionary processes, and outlines the characteristics of life, its history, and biodiversity.

BIOL& 170

#### **Human Biology (S) (5)**

Presents the structure, organization, and life functions of the human cells, tissues, and organ systems; development from embryo to adult; aging and disease; human evolution and ecology.

**BIOL 172** 

#### **Human Biology Lab (1)**

Investigate the structure and function of the integumentary, skeletal, muscular, nervous, sensory, endocrine, cardiovascular, immune respiratory, digestive, urinary, and reproductive systems. Prerequisite: BIOL& 170.

**BIOL 180** 

#### **Regional Biodiversity (5)**

Explore the biological diversity of a region. Identify the dominant organisms, describe their interactions with their physical, chemical, and biological environments. Focus on field trips. Prerequisite: instructor permission.

**BIOL 190** 

#### **Cooperative Work Experience (1-5)**

See description under COOP 190 for additional information.

BIOL& 221

#### Majors Ecology/Evolution w/lab (S) (5)

Ecology, evolution, taxonomy and phylogeny, diversity of life forms. First course in a three-quarter series (BIOL& 221, 222, 223). Prerequisite: high school biology or BIOL& 100 and MATH 098 or equivalent.

BIOL& 222

#### Majors Cell/Molecular w/lab (S) (5)

Metabolism and energetics, structure and function of biomolecules, Mendelian and molecular genetics, biotechnology, cell structure and function. Second course in a three-quarter series (BIOL& 221, 222, and 223) Prerequisites: HS biology or BIOL& 100; CHEM& 121 or CHEM& 161 recommended.

BIOL& 223

#### Majors Organismal Phys w/lab (S) (5)

Plant and animal comparative anatomy and physiology. Final course in a three-quarter series (BIOL& 221, 222, and 223). Prerequisite: BIOL& 221 or 222 or permission of instructor.

#### BIOL& 241 (formerly ZOOL 251)

#### Human A & P 1 w/lab (S) (5)

Investigate interactions between structures (anatomy) and function (physiology) essential for human health. Investigate organization and function of macromolecules, membranes and the cell, tissues, integument, skeleton and articulations, skeletal muscles, nervous system and the brain. Prerequisite: HS biology and chemistry or BIOL& 100 or BIOL& 170 and CHEM& 121.

#### **BIOL& 242**

#### Human A & P 2 w/lab (S) (5)

Investigate the interactions between structure (anatomy) function (physiology) essential for human health. Investigate organization and function of the sensory, endocrine, cardiovascular, immune, respiratory, digestive, urinary, and reproductive systems. Prerequisite: BIOL& 241 or instructor permission.

#### **BIOL 243**

#### Adv Topics Human A & P w/lab (S) (5)

Investigate the inheritance of human characteristics and the regulation of gene expression. Trace the development of major organ systems in utero and fetal development. Trace the physiological and anatomical transformations in older individuals. Prerequisite: BIOL& 242 or instructor permission.

#### **BIOL 250**

#### Introduction to Marine Biology w/lab (S) (5)

Introduction to physical and chemical factors affecting marine organisms: the various marine habitats, the animals and plants which inhabit them, and human exploitation of marine resources.

#### BIOL& 260

#### Microbiology w/lab (S) (5)

Understand the morphology, physiology, metabolism, genetics, and evolution of microbes. Explore the interactions of pathogenic microbes and human health. Review processes that inhibit microbial disease. Develop skills of culturing, identifying, and manipulating microbes. Prerequisite: one college chemistry course.

#### **BIOL 270**

#### Research in Biology (1-12)

Design a research project, set up experiments, collect data in the lab or in the field, and/or analyze data. Each credit hour requires 33 hours of activity per quarter. Prerequisite: instructor permission.

### **BOTANY**

#### **BOTA 110**

#### Survey of Botany w/lab (S) (5)

Basic concepts in plant biology for non-majors, with emphasis on plant diversity and how plants grow and reproduce. Modern issues concerning agriculture and conservation will be discussed.

#### **BOTA 113**

#### Plant Identification & Classification w/lab (S) (5)

The identification and classification of flowering plants of the Northwest with emphasis on plant families of western Washington. Includes field trips during lab sessions with walking on and off trails.

#### **BOTA 150**

#### Dendrology-Trees in Our Environment w/lab (S) (5)

Introduction to biology through trees, from cells and evolution through tree ecology and urban trees. Identification of trees will be featured, including both Pacific Northwest natives and common street trees. Includes field trips during lab sessions with walking on and off trails.

## **BUSINESS ADMINISTRATION**

#### BA 190

#### **Cooperative Work Experience (1-12)**

See description under COOP 190 for additional information.

#### BUS& 101

#### Intro to Business (5)

Introduction to the world of business. Emphasis will include functions of business, management, types of business ownership, human resources, production, marketing, ethics, and the role of accounting.

#### BUS 121

#### Business Math (5)

Surveys the commercial application of mathematics designed to assess and analyze business activities and their effect on cost, profitability and overall performance. Prerequisite: MATH 096 or equivalent test score.

#### BUS& 201

#### **Business Law (5)**

Introduction to state and federal constitution, laws and procedures including international trade, crimes, torts, contracts, sales, property, bankruptcy, securities, consumer protection, employment, and debtor creditor relationships. The relationship between ethics and law will be discussed.

#### BUS 215

#### **Principles of Finance (5)**

An introduction to the sources and uses of funds in a business. Focuses on ratio analysis, cost-volume-profit analysis, business valuation, and the relationship between risk and rate of return. Emphasizes the managerial implications of financial risk. Prerequisite: ACCT& 201, 202.

BUS 220

#### Marketing (5)

A broad overview of the market structure and marketing philosophies currently being used in business. Includes a description, analysis, and evaluation of the marketing system. Each student will conduct a marketing research project.

BUS 232

#### **Entrepreneurship (5)**

Experience the challenge and reward of planning a new business. Topics include: development of a business plan, failure factors in small businesses, capital, accounting, financial statements, marketing, human resource management, legal/regulatory issues and management principles. Prerequisite: BUS& 101; ACCT& 201, BUS 220.

BUS 240

#### Negotiations (5)

This course emphasizes the principles and concepts of merchandising management and studies store management, inventory control, purchasing, pricing, logistics, customer relationship management, and advertising.

BUS 275

#### Principles of Management (5)

Management styles and effective management of personnel from the manager's side of business. The course is built around the five traditional functions of management and exploring management problems and practices. Real-life case problems used.

## **BUSINESS OFFICE TECHNOLOGY**

BTEC 101

#### **Keyboarding for Business (3)**

For beginning students. Learn to keyboard to 25 wpm by touch. Develop speed, accuracy and apply basic word processing techniques to letters, reports and tables.

**BTEC 102** 

#### Keyboard Skillbuilding I (3)

Individualized skill-building program for increasing keyboarding speed and improving accuracy. Upon completion of this course, students should be able to type at a minimum of 35wpm with no more than one error per minute. Prerequisite: BTEC 101 and typing at 35wpm or instructor permission.

**BTEC 107** 

#### **Electronic Medical Records (3)**

Provides an overview of medical records as legal documents. Topics include the make-up of an electronic medical record, charting methods, and retention and storage of records. Course includes computerized medical record work. Prerequisite: keyboarding skill, medical terminology.

BTEC 110

#### **Business English (5)**

Editing skills including grammar, punctuation, proofreading, and spelling for office correspondence. A basis for machine transcription, business communication, and office procedures.

**BTEC 120** 

#### **Applied Business Math (5)**

A brief review of arithmetic fundamentals including decimals, fractions, percent's and their applications to a wide range of business problems. Prerequisite: MATH 096 or equivalent test score.

**BTEC 160** 

#### **Records Confidentiality - HIPAA (1)**

Overview of general confidentiality, considerations, and specific rules of the 1966 HIPAA law for healthcare/mental health professions. Explains and illustrates the law, with extensive review of security/privacy of patient information and records.

**BTEC 190** 

#### **Cooperative Work Experience (1-12)**

See description under COOP 190 for additional information.

**BTEC 191** 

#### **Work Experience Seminar (1)**

Topics include professional image, business etiquette, sexual harassment, resolving conflict, and diversity in the workplace. Must be taken prior to or concurrently with Cooperative Work Experience.

**BTEC 205** 

#### Microsoft Outlook (1)

Course uses Microsoft Outlook for e-mail, scheduling meetings, maintaining appointment calendars, managing contacts, and tasks. Prerequisite: Windows experience and keyboarding skills.

BTEC 210

#### Word I (5)

Class covers Word in depth: document preparation, formatting, graphics, WordArt, columns, sorts, charts, mail merge, and styles. Students will format business documents to business standards. Prerequisite: keyboard skill of 35wpm or instructor permission.

#### **BTEC 212**

#### Access I (3)

An introduction to Microsoft Access. Students will learn basic concepts of database software and be able to integrate Access with Word and Excel. Prerequisite: keyboard speed of 30wpm, Word I and Excel or instructor permission.

#### **BTEC 214**

#### Excel (5)

A hands-on approach for beginning through intermediate level applications of Excel spreadsheet using a variety of business applications. Prerequisite: word processing, windows, keyboard skills.

#### **BTEC 215**

#### **Excel Module (1)**

Introduction to spreadsheet. Upon completion of this course, students should have basic knowledge of a spreadsheet program. Prerequisite: keyboarding speed of 30wpm and Windows class or instructor permission.

#### **BTEC 218**

#### **Desktop Publishing (4)**

Course covers desktop publishing terminology and concepts to plan, create, and design professional-looking businesses and personal documents. Prerequisite: Word 1, keyboard speed of 35 wpm.

#### BTEC 219

#### Word II (4)

Course covers footnotes, endnotes, citations, bibliographies, table of contents, indexes, linked text boxes, multilevel lists, building blocks, fill-in forms, macros, outlines, Quick Parts, templates formal reports. Prerequisite: Word 1, keyboard speed of 35 wpm.

#### **BTEC 220**

#### Ten-Key Calculator (1)

Touch control of 10-key pad with emphasis on speed and accuracy. Addition, subtraction, multiplication, and division techniques used in solving business problems. Basic or Business Math recommended first.

#### BTEC 221

#### **Business Communications (5)**

Applying principles of effective communication in written and oral business communication: letters, memos, reports, and presentations. Upon completion students should be able to produce effective positive, negative, and routine letters, memos, and reports and graphs. Prerequisite: BTEC 110 or ENGL& 101 or WRT 105, or instructor permission.

#### **BTEC 222**

#### Microsoft Office-PowerPoint Module (1)

An introduction to Microsoft PowerPoint. Upon completion of this course students should have beginning knowledge of a presentation program. Prerequisite: keyboard speed of 35wpm, Windows Workstations OS or instructor permission.

#### BTFC 224

#### Office Procedures (5)

Topics include: professional image and dress, employer expectations, human relations, receptionist techniques, telephone procedures, processing mail, business ethics, job safety, office supplies and equipment, travel and meeting arrangements, reprographics, financial activities, PC cleaning/care, internet and email. Prerequisite: A grade of 2.0 in BTEC 110 and BTEC 103 or instructor permission.

#### BTEC 233

#### Filing (3)

Basic principles and procedures of records storage and management. Practice indexing, coding, and filing for alphabetic, numeric, subject, geographic filing systems, and introduction to forms design.

#### **BTEC 240**

#### Legal Terminology (3)

Development of a legal vocabulary with emphasis on definitions and spelling. Upon completion of this course students should be able to recognize and use basic terminology used in the legal field.

#### BTEC 255

#### Insurance and Billing (5)

Introduction to major insurance program information and federal healthcare legislation. Exploration of health insurance guidelines and the knowledge and skills required for billing and reimbursement. Includes hands-on practice with simulated billing software. Prerequisite: BTEC 260.

#### **BTEC 260**

#### **Medical Terminology (4)**

Development of a medical vocabulary with emphasis on definition and spelling. Upon completion of this course students should be able to recognize spoken medical terms, analyze word parts for meaning, and understand basic medical terminology.

#### **BTEC 261**

#### **Medical Office Procedures (5)**

Topics include professional image, medical ethics and law, safety, patient records, appointments, billing and collections, mail processing, meetings and travel arrangements, office finance, patient education, telephone procedures, cultural differences, and health insurance. Prerequisite: 2.0 or above in BTEC 110, 260, and 101.

#### **BTEC 263**

#### **Medical Transcription (4)**

A review of medical terminology and the preparation of medical transcripts. Prerequisite: 2.0 or above in BTEC 102, 110, and 260 and typing speed of 40wpm.

#### **BTEC 266**

#### Medical Law and Ethics (3)

Overview of medical law/ethics for healthcare professionals in various settings: billing/coding, transcription, phlebotomy, etc. Designed to explain ethical/legal obligations to the patient, employer, and health worker and clarify confidentiality requirements regarding patient records and history.

## CHEMICAL DEPENDENCY

#### CDP 100

#### Intro Chem Dependency (5)

Historical and current definitions of chemical dependency and abuse and effects of abuse on behavior, health, youth, family, special populations and society; focusing on the nature of addictions, casuality, progression, assessment, scope, intervention, treatment and prevention.

#### CDP 101

#### **Drug & Alcohol Responses (5)**

Body's physical and behavioral response to alcohol and drugs, research findings, basic information and terminology essential for working and communicating with professionals, patients, and families. Four-hour HIV/AIDS brief risk intervention for the chemically dependent training. Prerequisite: CDP 100.

#### CDP 110

#### **CDP Counseling Theory (5)**

Overview of communication skills, theories, and techniques used in developing a common understanding of addictive behavior. Comprehensive review of behaviors and an introduction to counseling methods to facilitate change in chemically dependent clients. Prerequisite: PSYC& 220.

#### CDP 120

#### CDP Law and Ethics (4)

Contemporary legal and ethical issues in chemical dependency counseling including professional and peer relationships, boundaries, NAADAC code of ethics, multiple relationships and values in the counseling relationship and laws surrounding counseling including confidentiality and HIPPA. Prerequisite: CDP 100

#### CDP 130

#### Assess & Treatment Plans (5)

Focus on assessment, placement, case planning and management of substance-abusing clients. Overview of federal, state, and agency policies and procedures, assessments, treatment and discharge planning. Prerequisite: CDP 100.

#### **CDP 140**

#### **Counseling Adolescents (3)**

An overview class covering the needs of the addicted adolescent. Developmental, cognitive and physiological issues that are complicated by an adolescent's use of alcohol or other drugs will be covered. Prerequisite: CDP 100; corequisite: PSYC& 200

#### CDP 240

#### **Relapse Prevention (2)**

Dynamics of post-acute withdrawal, relapse versus reoccurrence, and issues of relapse pertaining to the disease of addiction and the reuse of drugs after treatment as a separate and distinct episode not associated with treatment failure. Prerequisite: CDP 100.

#### CDP 250

#### **Community Prevention (3)**

Child and adolescent alcohol and drug abuse prevention. Discuss the history of prevention, research, community needs assessments and best/promising prevention practices. Design and evaluate an effective prevention program. Prerequisite: CDP 100.

#### CDP 280

#### **CDP Supervised Practicum (5)**

One hundred fifty unpaid hours of practicum with a minimum of 50 hours of direct supervised work experience in college faculty approved a chemical dependency treatment agency. This practicum allows the Chemical Dependency student to bridge their classroom education and training to the real world setting. Prerequisite: CDP 100.

#### CDP 281

#### **Practicum Seminar (1)**

Weekly seminar to share and integrate the learning from CDP 280, CDP Supervised Practicum. Prerequisite: CDP 100, CDP 280 (taken concurrently).

## **CHEMISTRY**

#### CHEM& 121

#### Intro to Chemistry w/lab(S)(5)

Survey of chemistry with applications in everyday life: atoms, bonds, reactions, and calculations. Prerequisite: one year HS algebra or MATH 098.

#### CHEM& 131

#### Intro to Organic/Biochemistry w/lab (S) (5)

Study of major organic functional groups and their properties and major biochemical compounds including carbohydrates, lipids, proteins, and major cellular energy pathways. Targeted for allied health programs. Prerequisite: CHEM& 121 with a 2.0 or instructor permission.

#### CHEM& 161

#### General Chem w/lab I (S) (6)

First quarter of a 1-year course of general chemistry for science and engineering majors: Atoms, molecules and ions; stoichiometry; aqueous solution reactions; gases; energy; electronic structure; periodic table. Prerequisite: CHEM& 121 or HS chemistry AND MATH 099.

#### CHEM& 162

### General Chem w/lab II (S) (6)

The periodic table, chemical bonding, introduction to organic chemistry, intermolecular forces and liquids and solids, physical properties of solutions and kinetics. Prerequisite: CHEM& 161, MATH 099 or equivalent.

#### CHEM& 163

#### General Chem w/lab III (S) (6)

Chemical equilibrium, acids and bases, solubility equilibria, thermodynamics, redox reactions, coordination chemistry, nuclear chemistry and polymers. Prerequisite: CHEM& 162.

#### CHEM& 261

#### Organic Chem I w/lab (S) (6)

General physical and chemical properties of simple aliphatic and aromatic compounds. Prerequisite: CHEM& 161, 162, 163 or instructor permission.

#### CHEM& 262

#### Organic Chem w/lab II (6)

Complex organic reactions: alkenes; alkynes; aromatics, aldehydes, ketones. Spectroscopy. Prerequisite: CHEM& 261 or equivalent.

#### CHEM& 263

#### Organic Chem w/lab III (6)

Complex organic reactions: acids, amines; carbanions, heterocyclic; polyfunctional compounds. Prerequisite: CHEM& 262 or equivalent.

#### CHEM 270

#### Research in Chemistry (1-12)

Design a research project, set up experiments, collect data in the lab or in the field, and/or analyze data. Each credit hour requires 33 hours of activity per quarter. Prerequisite: instructor permission.

## **CHILD & FAMILY STUDIES**

#### CFS 110

#### Learning and Playing (1-2)

Parents learn about child development and how to apply that knowledge in their parenting role. Children attend classes with parents and participate in learning activities.

#### CFS 120, 121, 122

#### Learning with Infants and Toddlers (2)

Parents learn about child development and how to apply that knowledge in their parenting role. Children attend classes with parents and participate in learning activities, music, discussion and art.

#### CFS 130, 131, 132

#### Positive Parenting I - III (1-4)

Students are introduced to parenting skills to use with children through classroom participation, lecture, and discussion.

#### CFS 135

#### Winning at Fatherhood (2)

Positive parenting techniques for fathers. Learn to build positive relationships with your children.

#### CFS 140, 141, 142

#### Positive Parenting IV-VI (1-4)

Students develop and practice parenting skills with children through classroom participation, lecture, and discussion.

#### CFS 145

#### Foster Parents Cope (3)

Provides an integrated training program for new and experienced foster parents. Areas of focus include key concepts of foster parenting, relationships, separation and visitation, child development, discipline, and self-esteem.

#### CFS 146

#### Parents and Adolescents (3)

Parents and teens strengthen their relationship through positive communications, self-awareness, feelings, problem solving, family rules and consequences, and age appropriate expectations and independence.

#### CFS 147

#### Family/Life Management (1-4)

Learn to effectively balance family and work.

#### CFS 150, 151, 152

#### Positive Parenting VII - IX (1-4)

Students demonstrate parenting skills from previous levels through classroom participation, lecture and discussion.

#### CFS 170

#### Nurturing Parents (1-4)

Increase parenting skills through direct instruction and feedback. The focus includes: attachment and bonding; normal child development; age appropriate expectations, guidance and discipline, and understanding and responding to children's individual needs.

## **CHINESE**

**CHIN& 121** 

#### Chinese I (D) (H) (5)

Learn the fundamental skills of listening comprehension, speaking, reading and writing the Mandarin Chinese language. Develop an understanding and appreciation of the Chinese people and culture.

**CHIN& 122** 

#### Chinese II (H) (5)

Continued study of the fundamental skills of listening comprehension, speaking, reading and writing the Mandarin Chinese language. Develop an understanding and appreciation of the Chinese people and culture. Prerequisite: CHIN& 121 or permission of instructor.

**CHIN& 123** 

#### Chinese III (H) (5)

Continued study of the fundamental skills of listening comprehension, speaking, reading and writing the Mandarin Chinese language. Develop an understanding and appreciation of the Chinese people and culture. Prerequisite: CHIN& 122 or instructor permission.

CHIN& 221

#### Chinese IV (H) (5)

Continued study of the fundamental skills of listening comprehension, speaking, reading and writing the Mandarin Chinese language. Develop an understanding and appreciation of the Chinese people and culture. Prerequisite: CHIN& 123 or permission of instructor.

CHIN& 222

#### Chinese V (H) (5)

Continued study of the fundamental skills of listening comprehension, speaking, reading and writing the Mandarin Chinese language. Develop an understanding and appreciation of the Chinese people and culture. Prerequisite: CHIN& 221 or instructor permission.

CHIN& 223

#### Chinese VI (H) (5)

Continued study of the fundamental skills of listening comprehension, speaking, reading and writing the Mandarin Chinese language. Develop an understanding and appreciation of the Chinese people and culture.

## COMMUNICATION

**COMM 100** 

#### **Dragon Naturally Speaking (2)**

Designed to assist students in the development of computer and English composition skills while using Dragon NaturallySpeaking (voice recognition) and text to speech software.

## **COMMUNICATION STUDIES**

CMST& 102

#### Intro to Mass Media (5) (formerly JOUR 160)

A survey of the mass media in America: newspapers, magazines, books, recorded music, radio, television, motion pictures, the World Wide Web: with emphasis on structure, function, audience, content, effect and social responsibility.

CMST 104

#### Racism, Sexism in Media (3) (formerly JOUR 170)

Examine issues of race and gender in the media from both an historical and current perspective.

CMST& 220

#### Public Speaking (5) (formerly SPEE 110 & 220)

Apply methods for managing speech anxiety, holding attention and making points in a variety of public speaking situations, including techniques for being credible and ethical. Communication theories and interpersonal skills also studied.

CMST 250

#### Interculteral Communication (5) (formerly SPEE 250)

Students will explore the dynamics of intercultural communication; how variables such as perceptions, language; usage, nonverbal style, gender, class, and values influence face-to-face communication among individuals of different cultures; and strengthen communication skills.

## **COMPUTER AIDED DRAFTING**

CAD 110

#### **CAD for Electronics (3)**

Introduces students to the art and science of reading and creating electrical schematics from a Computer Aided Drafting perspective in the AutoCAD environment. Knowledge of component identification is required. Prerequisite: ERA 101

CAD 112

#### **Computer Aided Drafting I (5)**

AutoCAD drafting, drawing, editing, dimensioning, drawing aids, layer control and plotting.

#### CAD 113

#### **Computer Aided Drafting II (5)**

Advanced AutoCAD commands, blocks, symbols library, including assigning and extracting block attributes, creating attribute reports, incorporating and managing external references, isometric drawings, creating dimension styles, use of multiple viewports, and introduction to 3-D wireframe models and 3D solid. Prerequisite: minimum 2.0 grade in CAD 112 or instructor permission.

#### CAD 114

#### **Computer Aided Drafting III (5)**

Develop sound computer-aided drafting. Emphasis is placed on importing survey points, defining parcels, creating 3D terrain models, calculating cut and fill volumes, and creating contours with labels. Prerequisite: minimum 2.0 grade in CAD 113 or instructor permission.

#### CAD 115

#### CAD for Industry (3)

AutoCAD drawings, editing, dimensioning, drawing aids, layer control designed to develop basic computer-aided drafting skills that may be used in industry. The emphasis will be given on creating basic drawings, blocks and plotting. Basic computer skills required.

# COMPUTER NETWORK TECHNOLOGY

#### CNT 117

#### **Windows Workstation OS (2)**

An introduction to the Windows workstation operating system. Course will cover such things as the taskbar, Start menu, recycle bin, window views, Windows Explorer, storage devices, printing, saving, control panels, etc.

#### CNT 123

#### Desktop OS I (4)

This is the first course based on CompTIA A+ and Linux+ certification materials. Material covered includes Virtualization, Vocabulary, OS Installation, Configuration, Customization and Usage Basics of the current popular Desktop Operating Systems.

#### CNT 124

#### Desktop OS II (4)

This is a second course based on Comp TIA A+ and Linux+ certification materials. Material covered includes system hardware, advanced system configuration, and an introduction to the command line. Prerequisite: CNT 123.

#### CNT 125

#### Desktop OS III (4)

This is a third course based on Comp IA A+ and Linux+ certification materials. Material covered includes advanced trouble-shooting, more advanced systems configuration and cmd/shell scripting. Prerequisite: CNT 124.

#### CNT 140

#### CNT Internship (1-8)

This course is designed to provide students with an introduction to and experience in Help Desk operations. Students will learn the fundamentals of Tier 1 call taking and customer service. Prerequisite: CNT 124.

#### CNT 201

#### Network Technology 1 (4)

This course is based on CompTIA Network+ certification materials. Material covered includes Fundamental Concepts, Terminology, LANs, WANs, Internetworking, VLANs, Routing Basics and Wireless Networking. Pre/corequisite: MATH 098.

#### CNT 202

#### Network Technology 2 (4)

A second course in Network Technology focusing on configuring, managing and troubleshooting Cisco devices using Cisco IOS. Prerequisite: CNT 201.

#### CNT 203

#### Network Technology 3 (5)

Course concentrates on materials commonly associated with Security+ certification. Coverage includes risk identification, intrusion detection, encrypted communication, firewalls and basic forensics. Prerequisite: CNT 201.

# COMPUTER SCIENCE TECHNOLOGY

#### CST 101

#### Intro to Programming (4)

This course provides an introduction to programming using Microsoft Visual Studio. Course focus is on building basic Windows Forms graphical applications.

#### CST 119

#### Web Scripting I (4)

This course is designed for new web designers who want to develop, modify and design web sites and web graphics using Macromedia products.

#### CS& 131

#### Computer Science I - C++ (5)

Intended as an introduction to programming. Emphasis is on the features of the "C" programming language with an introduction to C++ object oriented programming and good programming style.

CS& 141

#### Computer Science I - Java I (5)

A study of rapid application development (RAD) JAVA. Development of GUIs using Swing Technology. Object Oriented Programming as it is implemented in JAVA. Introduction to graphics, animation, and multi-threading. Prerequisite: MATH 099 or equivalent.

CST 204

#### XML (4)

XML (Extensible markup language), XHTML, Cascading style sheets, Document Type Definitions, Schema, Document Object Model, XPath, XSL. Prerequisite: CST 119.

CST 224

#### **JAVA 1 (5)**

Introduction to Java programming. Concepts including procedural programming (methods, parameters, and primitive variables), control structures and logic (if/else, for and while loops), arrays, and an introduction to object oriented programming. Prior computer knowledge recommended.

CST 228

#### **JAVA 2 (5)**

Second course in the introduction to Java programming sequence. These topics include: abstract data structures, lists, stacks, queues, linked lists, maps, recursion, interfaces, encapsulation, serialization, file access, sorting and computational complexity. Prerequisite: CST 224.

CST 230

#### **JAVA 3 (5)**

Third and final course in the introduction to Java programming sequence. This course covers recursion, exception handling and recovery, remote file access, event Prerequisite: CST 228.

# COOPERATIVE WORK EXPERIENCE

COOP 190

#### **Cooperative Work Experience (1-12)**

Cooperative Work Experience allows students to apply classroom learning to on-the-job settings. Credit is earned for new and continued learning taking place in the work environment. Reaching set learning objectives and development of positive work habits are emphasized. The Cooperative Education Faculty Coordinator, the student employee, and the worksite supervisor identify the learning

objectives. 30-360 hours on-the-job per quarter. Instructor's permission is required. Corequisite: Enrollment in a Work Experience Seminar is required of Coop students. You may take the Work Experience Seminar before or in the same quarter as the Coop course.

## **CRIMINAL JUSTICE**

CJ& 101

#### Intro to Criminal Justice (5)

Examines local, state and Federal law enforcement agencies and the judicial and correctional systems. Career opportunities and qualifying requirements are studied.

CJ 103

#### **Constitutional Case Law (5)**

Examines the Constitution and Bill of Rights in relation to law enforcement, the judiciary, and corrections. Defines guilt-laden facts, reasonable suspicion, and probable cause.

CI 104

#### Intro to Law Enforcement (5)

A broad survey of the theories, procedures and methods of police operations studied. Also examines police discretionary powers, career opportunities, and trends in law enforcement. Pre/corequisite: CJ& 101 or instructor permission.

CJ& 105

#### Intro to Corrections (5)

A broad survey of the history and evolution of adult and juvenile correctional models in America. All forms of incarceration and restrictive custody are studied. Pre/corequisite: CJ& 101 or instructor permission.

CJ& 106

#### Juvenile Justice (5)

Juvenile deviance and theories of criminality are studied. Economic, social, and psychological impact of juvenile delinquency trends examined. Pre/corequisite: CJ& 101 or instructor permission.

CJ 107

#### **Criminal Procedures (5)**

Examines state and federal laws of arrest, search and seizure, civil and criminal liability. The rules of evidence and courtroom proceedings are studied. Pre/corequisite: CJ& 101 or instructor permission.

CJ 109

#### **Community Policing (5)**

Focus on resolving community issues and concerns via Community Oriented Policing and Problem Solving (COPPS) skills and strategies. Pre/corequisite: CJ& 101 or instructor permission.

#### CJ& 110

#### Criminal Law (5)

A broad survey of the common criminal laws and statutes of Washington and the other 49 United States. Pre/corequisite: CJ& 101 or instructor permission.

#### CJ 111

#### **Criminal Justice Ethics (5)**

Presents an in-depth examination and analysis of the practical, theoretical, ethical and moral considerations found in the criminal justice system. Pre/corequisite: CJ& 101 or instructor permission.

#### CJ& 112

#### Criminology (5)

Examines social components of crime, deviance, criminality, and societal reactions to crime. Includes discussion of causes and impacts of crime on society, classifications and theoretical interpretations of crime and the criminal justice system.

#### CJ 114

#### **Critical & Current Issues (5)**

Examines current issues, topics and trends in the criminal justice system. Explores the issues of racism and bigotry as related to criminal justice practitioners. Pre/corequisite: CJ& 101 or instructor permission.

#### CJ 116

#### **Community Corrections (5)**

Community corrections, alternative sentencing, probation and diversion concepts studied. Explores technology innovations pertaining to community supervision. Pre/corequisite: CJ& 101 or instructor permission.

#### CJ 126

#### Homicide Investigation (5)

Tactics, procedures, and forensic techniques of homicide investigation are examined. Various tools and processes systematically employed to identify, arrest, and convict perpetrators are studied. Pre/corequisite: CJ& 101 or instructor permission.

#### CJ 129

#### Intro to Victimology (5)

Introductory course examines violent crime and victimology in American society. Factors leading to acquaintance and stranger violence, proactive and reactive strategies to crime, legal issues and self-defense measures studied and discussed.

#### CJ 130

#### **Domestic Violence & Abuse (5)**

This course examines physical and sexual domestic violence in our society. This includes spouse/partner abuse and child abuse. Contemporary investigation and intervention strategies and techniques are studied including evidence discover, collection, and preservation.

#### CJ 223

#### Felony Investigations (5)

Practical application of investigation techniques for felony crimes is studied and examined. Includes Part I offenses and drug crime, crime scene considerations, search warrants, report writing, evidentiary issues, surveillance, using informants, and assisting with prosecution.

#### CJ 224

#### **Criminal Interviews & Interrogations (5)**

Basic and intermediate skills required for criminal and forensic interviews and interrogations. Study, practice, role-play, and evaluate the techniques used to elicit factual information from victims, witnesses and suspects in the course of criminal investigations.

#### C1225

#### Crime Scene Technology (5)

Students learn techniques to collect and preserve common evidentiary items located at crime scenes for future laboratory analysis and judicial proceedings while ensuring proper chain of custody. Aspects of arson investigation are also studied.

#### C1228

#### **Crime Scene Photography (5)**

Practical application of basic crime scene photography methods and techniques for criminal investigations studied. Skills designed to capture the details of automobile accidents, misdemeanor, and felony crime scenes are discussed and practiced.

#### CJ& 240

#### Intro Forensic Science (5)

Introductory course in forensic science examines physical evidence and laboratory analysis in criminal investigations. Skills and procedures required for collection, preservation, and identification of physical evidence are studied. Diagramming of crime scenes is practiced.

# DIESEL EQUIPMENT TECHNOLOGY

#### **DET 100**

#### Shop Skills (7)

Theory of basic heavy equipment shop skills pertaining to safety, tool and equipment use and working skills. This is a requisite course to continue in the Diesel Equipment Technology program.

#### **DET 102**

#### Forklift Certification (1)

Comprehensive classroom training along with practical, hands-on instruction on forklift operation and safety. Course covers state and federal regulations and proper operator training. Students are awarded a certification card upon successful completion. Prerequisite DET 100.

#### **DET 110**

#### Mobile Electrical Systems I (7)

Explores the terminology and fundamental principles of electrical systems found on diesel equipment. Covers basic systems of batteries, starting circuits, charging circuits, and DC circuitry. Prerequisite: DET 100 and 125 or instructor permission.

#### **DET 120**

#### **Internal Combustion Engine I (7)**

The study of operating principles of the internal combustion engine.

#### **DET 125**

#### Power Transmission I (7)

The transmissions of power from the power source to the end function of machinery. Emphasis on mechanical devices. Theory of operation and repair.

#### **DET 130**

#### **Mobile Hydraulics (7)**

The terminology, physical laws, and principles used in hydraulic systems of diesel equipment.

#### **DET 166**

#### **Shop Skills for Welders (3)**

Develop practical work skills and work habits in the student. Includes safety procedures and practices, proper use and maintenance of common shop equipment and common processes and materials of metal products fabrication and manufacturing.

#### **DET 190**

#### **Cooperative Work Experience (7)**

See description under COOP 190 for additional information.

#### **DET 200**

#### **Mobile Electrical Systems II (7)**

Principles of operation of components of electrical/electronic systems. Covers electronic control module (ECM) systems and advanced electrical trouble shooting.

#### **DET 210**

#### Power Transmission II (7)

The study of power shift and automatic transmissions as used in diesel powered equipment. Prerequisite: DET 125.

#### **DET 220**

#### Internal Combustion Engine II (7)

Detailed study of engine analysis and testing theory that produce optimum engine performance.

#### **DET 225**

#### Heavy-Duty Chassis Systems (7)

The study and application of heavy duty chassis systems used in diesel powered equipment. Prerequisite: completion of first year diesel classes.

#### **DET 230**

#### **Practical Applications (7)**

Review of common technical repair practices. Introduction to wage/salary systems, productivity, customer relations, job ticket writing, phone etiquette, employer requirements and policies. Coverage of related state and federal requirements.

#### DFT 235

#### **Mobile HVAC Systems (7)**

The theory and application of basic principles used in Heating Ventilation and Air Conditioning (HVAC) systems of diesel powered equipment.

### DRAMA

#### **DRMA 100**

#### Applied Drama (3)

Provides credit for participation in either the artistic or technical aspects of the college's quarterly play productions. This course may be repeated for credit.

#### DRMA& 101

#### Intro to Theater (H) (5)

Overview of theatre as an art form with emphasis on the play in production and the roles of various theatre artists. Students are expected to attend two plays during the quarter at their own expense.

#### **DRMA 103**

#### Set Design (3)

Introduction to the basics of scenic design for the theatre; drafting and model building. Students will work on the concurrent Centralia College Drama production. Prior enrollment in DRMA 106 is preferred.

#### **DRMA 105**

#### Theater History (H) (3)

Survey of the major periods in Western drama through study of major representative plays and development of the physical theater of those periods.

#### **DRMA 106**

#### Introduction to Stagecraft (3)

Introduction to basic tools, materials, equipment, techniques used in the design and implementation of sets, lighting and sound for the theatre. Students will participate in the design, construction and lighting of the concurrent drama production.

#### **DRMA 107**

#### Beginning Acting (H) (5)

Introduction with emphasis on concentration, imagination, movement, and characterization via vocal, physical, emotional exercises, improvisation, and scene work. Students will be expected to attend two plays during the quarter at their own expense.

#### **DRMA 108**

#### Intermediate Acting (H) (5)

Continuation of acting fundamentals with an emphasis on improvisational techniques and exercises, and advance monologue and scene work. Students will be expected to attend two plays during the quarter at their own expense.

#### **DRMA 110**

#### Stage Makeup (3)

Introduction to the types of theatrical makeup and the techniques of application.

#### **DRMA 111**

#### Stage Lighting (3)

Introduction to the basic principles of stage lighting as an integral part of theatrical productions. The course will deal with theories and equipment commonly used in theatre lighting. Students will participate in the drama production.

#### **DRMA 115**

#### **Dramatic Performance (H) (5)**

For students involved in the creative/performance aspects of a play production, from audition through research/ preparation for their portrayal and evaluation of their performance. The student must successfully audition and be cast in a college production. Prerequisite: audition selection for quarterly play production.

#### **DRMA 120**

#### **Introduction to Playwriting (H) (5)**

Study the art and craft of writing for the stage. Students will be required to complete and oversee the production of a short play. Final performances of student works will be presented to the public.

#### **DRMA 141**

#### Theater Speech (3)

The training of the human voice to develop control. The emphasis is on voice projection, quality and accuracy of sound and articulation of the English language.

#### **DRMA 148**

#### Introduction to Dance (1)

Study the fundamentals of Ballet, Modern, and Jazz dance. Prior dance experience is not necessary. The student will be required to wear casual, comfortable clothing. Students may participate barefoot. Dance shoes are optional.

#### **DRMA 149**

#### Introduction to Movement for Theatre (1)

Introduction to dance for Musical Theatre. Prior dance experience is not necessary. The student will be required to wear casual, loose fitting clothing. Students may participate barefoot. Dance shoes are optional.

#### **DRMA 150**

#### **Introduction to Modern Dance (1)**

Study basic Modern Dance, Latin, and Swing movements. Prior dance experience is not necessary. The student will be required to wear comfortable, loose fitting clothing. Students may participate barefoot. Dance shoes are optional.

#### **DRMA 201**

#### Advanced Acting (H) (5)

Continued study of acting; character analysis, scene interpretation and classical styles. Students will be expected to attend two plays at their own expense and will be responsible for the presentation of a children's theatre production.

#### **DRMA 205**

#### **Contemporary World Theatre (3)**

Introduces contemporary world theatre using the theatrical productions of the Pacific NW regional theatres and the Broadway theatres of NY City. Travel to and study these productions. Visits to additional cultural events/locales will be included.

## **ECONOMICS**

#### FCON& 201

#### Microeconomics (SS) (5)

Study of individual markets and how prices and quantities react within those markets to meet the unlimited wants of human beings.

#### ECON& 202

#### Macroeconomics (SS) (5)

Study how any system allocates limited resources to meet unlimited human wants. The major concerns of macroeconomic policy are: inflation, full employment, national income accounting, fiscal policy, the money supply and international trade.

## **EDUCATION**

#### **EDUC 190**

#### **Cooperative Work Experience (1-12)**

See description under COOP 190 for additional information.

#### EDUC& 201

#### Intro to Education (3)

Explore the role of education in our society and investigate teaching as a career. Both the historical perspective and current trends in education will be discussed.

#### **EDUC 202**

#### Classroom Observation (2)

Students review teaching as a career. Students observe classrooms in action and attend seminars to discuss their findings. Students may make arrangement with the instructor to start observations before quarter begins.

## **EDUCATION-EARLY CHILDHOOD**

#### ECED& 100

#### **Child Care Basics (3)**

Designed to meet licensing requirements for early learning providers, STARS 30 hour basic course recognized in MERIT system. Topics: child development, cultural competency, community resources, guidance, health/safety/nutrition and professional practice.

#### ECED& 105

#### **Introduction to Early Childhood Education (5)**

Explore the foundations of early childhood education. Examine theories defining the field, issues and trends, best practices, and program models. Observe children, professionals and programs in action.

#### ECED& 107

#### Health/Safety/Nutrition (5)

Develop knowledge and skills to ensure good health, nutrition, and safety of children in group care and education programs. Recognize the signs of abuse and neglect, responsibilities for mandated reporting, and available community resources.

#### EDUC& 115

#### Child Development (5)

An in-depth study of the physical, emotional, social and mental development of children from conception through age eight. An understanding of family structures, interaction and function will be integrated throughout the developmental process.

#### ECED& 120

#### **Practicum-Nurturing Relationships (2)**

Students gain experience engaging in nurturing relationships with children, keeping children safe and promoting children's growth and development.

#### EDUC& 130

#### **Guiding Behavior (3)**

Examine the principles and theories promoting social competence in young children and creating safe learning environments. Develop skills promoting effective interactions while providing positive individual guidance and enhancing group experiences.

#### ECED& 132

#### Infants/Toddlers Care (3)

Examine the unique developmental needs of infants and toddlers. Study the role of the caregiver, relationships with families, developmentally appropriate practices, nurturing environments for infants and toddlers, and culturally relevant care.

#### ECED& 134

#### Family Child Care (3)

Learn the basics of home/family child care program management. Topics include licensing requirements; business management, relationship building, health, safety, and nutrition, guiding behavior and promoting growth and development.

#### **EDUC& 136**

#### School Age Care (3)

Gain skills to provide developmentally appropriate and culturally relevant activities and care for school-age children. Focus is on preparing the environment, implementing curriculum, building relationships, guiding academic/social skill development, and community outreach.

#### ECED& 139

#### Administration of Early Learning Program (3)

Establish administrative skills required to develop, open, operate, manage, and assess early childhood education and care programs. Explore techniques and resources available that meet Washington State licensing and NAEYC standards.

#### EDUC& 150

#### Child/Family/Community (3)

Investigate the family and community contexts in which children develop. Explore cultures and demographics of families in society, community resources, strategies for involving families in the education of their children and tools for effective communication.

#### ECED& 160

#### **Curriculum Development (5)**

Investigate learning theories and create curriculum that enhances the development of language, fine/gross motor, social-emotional, cognitive and creative skills in young children.

#### ECED& 170

#### **Environments-Young Child (3)**

Design and evaluate indoor and outdoor environments which ensure quality learning, nurturing experiences, and optimize the development of young children.

#### **ECED 181**

#### Language and Literacy (5)

Create teaching strategies for language acquisition and literacy skills at each developmental stage (birth-8) through the four interrelated areas of listening, speaking, writing, and reading.

#### ECED& 190

#### Observation/Assessment (3)

Collect data to assess children. Use this data to plan for group and individual needs.

#### EDUC& 203

#### **Exceptional Child (3)**

Explains the role of Special Education in education systems. Provides techniques to work with the exceptional child in the classroom. Topics include exceptionality in all areas of development, diagnosis, communication, and working with family structures.

#### ECED 233

#### ECE Practicum II (5)

Develop a professional understanding of teaching methods and practices with an opportunity to evaluate teaching skills and learning environment. Prerequisite: minimum 15 ECE credits.

## **ELECTRONICS/ROBOTICS**

#### ERA 101

#### **Electronics Assembly (4)**

Techniques of electronics assembly using though-hole and surface mount components. Schematics and computer aided design will be studied. Heavy emphasis placed on personal and component safety and Electrostatic Discharge (ESD). Pre/corequisite: MATH 098, ENGL 099 or equivalents.

#### ERA 105

#### **Industrial Computer Operation (3)**

Best practices computer operations in an industrial environment. Topics include Windows operation system navigation, hardware maintenance and various industrial software interfaces. Pre/corequisite: MATH 098, ENGL 099 or equivalents.

#### ERA 115

#### DC Electronics (5)

Analysis and troubleshooting of DC circuits including Ohm's Law, Watt's Law, and Kirchoff's Laws; and Thevenin and Norton equivalents. Class will emphasize DC circuit principles. Prerequisite: ERA 101.

#### FRA 120

#### Sensor Technology (3)

How to use, repair and calibrate electronic sensors that measure heat, light, magnetism, pressure, flow and liquid level.

#### ERA 121

#### **AC Electronics (5)**

Analysis and troubleshooting of AC circuits. The effects of devices such as capacitors, inductors and transformers in filter combinations are studied, along with the effects of alternating current and magnetism. Prerequisite: MATH 115, ERA 115.

#### ERA 150

#### Robotics I (3)

An introduction to the principles of robotics. Prerequisite: one quarter of prior programming.

#### FRA 151

#### Mechanical/Fluid Systems (3)

Mechanical forces, simple machines and the relationships between mass, force, and time, and those applications to mechanics. Hydraulic and pneumatic forces and component systems will also be studied and demonstrated. Prerequisite: ERA 101.

#### ERA 212

#### **Digital Electronics (5)**

Digital logic systems and devices, boolean and hexadecimal numbering systems, combinational logic sequences and application of logic systems. Lab section emphasizes safety and electro-static discharge avoidance. Prerequisite: MATH 115, ERA 115.

#### ELT 213

#### Small Signal Amplifiers w/lab (5)

Small signal amplifiers using bipolar junction transistors and field effect transistors studied. Circuit gain, input and output impedance and bandwidth calculations are used to predict circuit operation. Troubleshooting techniques practiced. Op amp circuits are studied.

#### FRA 230

#### Robotics II (4)

Students learn the mechanical, electronic and software features of autonomous robots. Prerequisite: ERA 150, ELT 115, CST 224.

#### ERA 250

#### Automation I (4)

An introductory study of the principles of Automation. This includes: Thyristors, Electric Motors, Motor Controls, Ladder Logic and Closed Loop Systems. Prerequisites: ELT 121, ERA 120, ERA 151.

#### ERA 251

#### Automation II (4)

Topics covered include electric motors, motor controls work cell robotics, and a very heavy emphasis on programmable logic controllers. Prerequisite: ERA 250.

#### ERA 270

#### Robotic III (4)

A third course in Robotics. Topics covered are: infrared range sensing, navigation principles of autonomous robots, behavior based control, and characteristics of work cell robotics. Prerequisite: ERA 230.

## **ENERGY TECHNOLOGY**

#### PPO 100

#### Introduction to the Energy Industry (5)

Provides a broad background in fields related to power generation.

#### PPO 102

#### Power Generation (5)

Focus will be on environmental issues surrounding power plants. Introduction to boilers including design and ancillary equipment. Prerequisite: PPO 100.

#### PPO 103

#### **Electric Utility Distribution Systems (5)**

Continuing coverage of power systems, boilers and prime movers. Prerequisite: PPO 102.

#### PPO 120

#### Energy Technology - Blueprint Reading (5)

An in-depth study of construction blueprints for residential, commercial, and industrial facilities, emphasizing interpretation as it applies to the energy and HVAC industries.

#### PPO 130

#### Industrial Safety (5)

Industrial safety practices, procedures, and equipment as found in modern power plants. Also included will be basic first aid and CPR, and basic fire fighting equipment and procedures. Basic Rigging will be taught stressing safety. Prerequisite: PPO 102.

#### PPO 150

#### **Energy Efficiency (3)**

A study of Energy Efficiency concepts related to the efficient and effective use of electricity in home and industry. Subjects covered will include electrical terms, green alternative energy sources, transportation, solar, wind, biomass, and insulation.

#### PPO 191

#### **Power Plant Job Preparation (4)**

Introduces students to local power generation facilities through touring potential job sites, performing market research and preparing for the POSS test which is required for entry level employment or apprenticeship.

#### PPO 201

#### Plant Systems (5)

Provides a background in power plant cycles, systems and equipment, including an introduction to instrumentation and control. Prerequisite: PPO 102.

#### PPO 202

#### Plant Maintenance (5)

Provides a background in refrigeration, heating, ventilation and air conditioning; and lighting. Prerequisite: PPO 201.

#### PPO 203

#### Plant Operations Refrigeration & HVAC (5)

Provides a background in power plant operations and controls. Prerequisite: PPO 202.

#### PPO 205

#### Power System Operator I (5)

First in a two-class series: provides background to operate the American electrical grid system under North American electrical Reliability Corporation (NERC) required standards and prepares for NERC exam. Prerequisite: minimum 2.5 grade in PPO 201 or instructor permission.

#### PPO 206

#### Power System Operator II (5)

This continuation of PPO 205 provides students with background in operating the American electrical grid system under North American Electrical Reliability Corporation (NERC) required standards and prepares for NERC exam. Prerequisite: minimum 2.5 grade in PPO 205 or instructor permission.

## **ENGINEERING**

#### **ENGR 100**

#### Introduction to Engineering (2)

Introduction to the various fields and careers of engineering. Topics will include: educational planning and transfer issues; problem solving, engineering design, teamwork, and communication skills.

#### ENGR& 111

#### **Engineering Graphics I (2)**

Introduces the basic concepts of engineering graphics through freehand sketching and computer-aided drafting. Includes orthographic projection, section and auxiliary views, dimensioning and text.

#### ENGR& 112

#### **Engineering Graphics II (3)**

Continuation of ENGR& 111. Emphasizes basic concepts of engineering graphics in CAD-based descriptive geometry applications. The latter part of the course covers a variety of 3-D modeling techniques and solid mass properties extraction. AUTOCAD software is used as the primary CAD -tool. Prerequisites: ENGR& 111 or equivalent, MATH & 141, or instructor permission.

#### **ENGR 203**

#### **Applied Numerical Methods (5)**

Numerical solutions to engineering and science problems using modern scientific computing tools. Application of mathematical judgment in selecting computational algorithms and communicating results. Introduction to MATLAB programming for numerical computation. Prerequisite: MATH& 152 (MATH 118 recommended) or instructor permission of instructor.

#### ENGR& 204

#### **Electrical Circuits (5)**

An introduction to basic electrical circuits and systems. Topics include: basic analysis techniques; nodal and mesh analysis; Thevenin and Norton equivalent circuits; operational amplifiers; step, natural and steady state circuit response. Concurrent enrollment in MATH 212 is recommended. Prerequisite: MATH& 152 and PHYS& 222.

#### FNGR& 214

#### Statics (5)

First of a three-course sequence. The basic principles of vector statics; friction, analytical and graphical methods of solving force systems including frames, trusses, and other simple mechanisms; centroids and moments of inertia; chains and cables. Corequisite: MATH& 151.

#### ENGR& 215

#### Dynamics (5)

Second of a three-course sequence includes the study of kinematics and kinetics of a particle, work-energy, impulse-momentum, relative motion, and rigid-body mechanics. Vector methods will be stressed throughout. Prerequisite: MATH& 152.

#### ENGR& 225

#### **Mechanics of Materials (5)**

The last of a three-course sequence. Includes the study of stress, strain, deflection in beams, columns, machine and structural members. Includes bending moments, shear, torsion, deformation, unsymmetrical bending, and eccentric loading. Prerequisite: ENGR& 214.

#### **ENGR 270**

#### Research in Engineering (1-12)

Design a research project, set up experiments, collect data in the lab or in the field, and/or analyze data. Each credit hour requires 33 hours of activity per quarter. Prerequisite: instructor permission.

## **ENGLISH**

#### ENGL 093

#### **Independent Study (1-5)**

Individualized instruction for the student whose needs are not currently being met by the available course offerings. Specialized curriculum and instruction are developed to meet each student's needs. Permission of instructor only.

#### **ENGL 094**

#### Spelling (1-5)

Topics covered in this course include basic spelling patterns, commonly confused words, apostrophe use, capitalization, plural formation, and how pronunciation helps to improve spelling. Students utilize materials according to pretesting information.

ENGL 095, 096

#### **Vocabulary Development I & II (1-5)**

Builds a base of words used in everyday communication, provides systematic study, and increases proficiency in oral and written communication and reading comprehension. Students are given a placement test and assigned materials at an appropriate level.

**ENGL 097** 

#### **Vocabulary Development III (1-5)**

Course provides a systematic study of college level academic words and their roots, prefixes, and suffices to increase proficiency in oral and written communication.

**ENGL 098** 

#### Writing & Grammar Review (1-5)

Study proper word usage, sentence structure, and punctuation. Writing includes personal essays and summaries. Emphasis is on improving grammar and writing skills for personal needs and preparation for technical coursework. Prerequisite: students must meet mandatory placement requirements to enroll.

**ENGL 099** 

#### Fundamentals of English (1-5)

Prepares students for college composition. Students analyze texts, review sentence structure and punctuation, and write several short essays and other writing. Students must meet mandatory placement requirements to enroll.

ENGL& 101

#### English Composition I (C) (5)

Expository writing course which encourages students to think and write with clarity, conciseness, and enjoyment; to organize and develop their ideas; and to express themselves sharply, economically, and grammatically. Prerequisite: students must meet mandatory placement requirements to enroll. A minimum score of 83 on the COMPASS test, a minimum score of 46 on the ASSET test, or completion of five credits of ENGL 099 with a minimum grade of 2.0.

ENGL& 102

#### Composition II (C) (5)

A course in argumentative and persuasive writing, methods of research, development and preparation of original source-based papers and projects. Prerequisite: completion of ENGL& 101 with a minimum grade of 2.0

**ENGL 103** 

#### Writing for College (1)

Lab hours in the Writing Center will support skill development and confidence in specific aspects of college writing, to be defined in an Individual Learning Plan (ILP) with instructor.

WRT 105 (formerly ENGL 105)

#### Writing in the Workplace (5)

Study a variety of workplace communications, along with proper use of grammar, sentence structure, mechanics and vocabulary within those communications. Prerequisite: ENGL 098 or equivalent score on Compass/Asset test.

FNGI & 111

#### Introduction to Literature (H) (5)

Introduces the major genres, techniques and themes of literature by examining the work of a variety of classic and contemporary authors.

ENGL& 113

#### Introduction to Poetry (H) (5)

Introduction to modern poetry (mid-19th c. to present) through the study of major English language poets: their lives, influences, and works. Corequisite: ENGL& 101.

ENGL& 114

#### Introduction to Dramatic Literature (H) (5)

Survey of dramatic literature from classical Greek to modern plays, emphasizing basic elements of plot, character, language, and the traditional genres of tragedy and comedy. Students will attend two plays at their own expense.

**ENGL 160** 

#### Women's Literature (H) (D) (5)

Examines literature written by women to understand how gender, class and race shape their experience and their writing. Genres will include poetry, short stories, non-fiction, fiction and drama. College-level reading and writing skills expected.

**ENGL 180** 

#### **Short Fiction (H) (5)**

Survey of short story as representational vehicle in romanticism, realism, modernism, horror, satire, science fiction, magical realism. Primarily American in focus; includes cross-cultural comparisons. College-level reading, writing skills expected. Creative writing options.

**ENGL 204** 

#### Introduction to Shakespeare (H) (5)

Learn about the life, times and works of William Shakespeare, how Elizabethans' likes and dislikes, superstitions, and social order influenced this golden age of the theatre by studying six of the Bard's 37 plays.

FNGI 208

#### Introduction to Creative Writing (H) (5)

Writers will move beyond the traditional "academic essay" into an exploration of literary genres to include poetry, creative nonfiction, short fiction, and drama in interactive workshop environment. Prerequisite: college level writing skills; test into ENGL& 101.

#### **ENGL 209**

#### The Hero's Quest: Survey of English Literature 7th Century (H) (5)

Surveys how medieval and early Renaissance English writers explored issues like the relationship between rulers and subjects, God and free will, and the war between the sexes. Covers the Beowulf poet, Chaucer, Shakespeare, and more.

#### ENGL 210

#### The Crisis of Faith: Survey English Literature 1616 (H) (5)

Surveys late Renaissance through Enlightenment writers like John Donne, Ben Johnson, Andrew Marvell, John Milton, Daniel Defoe, Jonathan Swift, Alexander Pope, and Samuel Johnson, emphasizing how writers reflected social concern about faith, politics, and gender roles.

#### **ENGL 211**

#### Survey of English Literature: 1798 - Present (H) (5)

This survey studies how, amid political, technological, religious, and artistic ferment, English literature was transformed by the Romantic poets, the rise of the Victorian novel, and the innovations of modern fiction, drama, and poetry.

#### **ENGL 220**

#### American Drama (H) (3)

Presents six classic American plays which deal with society and family expectations. Students will view, analyze, discuss, and write on the literary components and substance of these plays.

#### **ENGL 233**

#### Literature for Children and Adolescents (H) (5)

Introduction to historical framework of this genre of literature and the authors and illustrators of children's books from pre-school to adolescence. Classics as well as contemporary publications included. Reading to children at day-care included.

#### ENGL& 235

#### Technical Writing (C) (5)

An alternative to ENGL& 102 for science and engineering majors, focused on writing with clarity, objectivity, audience awareness, proper formats as well as research techniques, problem-solving, critical thinking and development of source-based writing. Prerequisite: completion of ENGL& 101 with a minimum grade of 2.0.

#### ENGL& 244

#### American Literature I (H) (5)

Surveys how great American writers have addressed classic American values and conflicts, tracing the development of our national literature through the Puritan, Transcendental, Realist, Naturalist, and modern movements and covering poetry, fiction, and nonfiction.

#### **ENGL 249**

#### The Great American Novel (H) (5)

Explore the development of the American novel and its major themes, focusing on classics by writers like Hawthorne, Melville, Twain, Chopin, Hemingway, Faulkner, and Morrison. This course requires college level reading and writing skills.

#### FNGI 250

#### **Literary Themes (1-5)**

A major theme is followed through important works of fiction, poetry, and drama. Themes vary depending on the instructor and the quarter in which it is offered.

#### **ENGL 260**

#### Non-Western World Literature (H) (D) (5)

Literature of the non-western world, ancient times to the present. Students will explore works from India, China, Africa, Japan, the Middle East, and Latin America.

#### **ENGL 271**

#### **Intermediate Creative Writing (3)**

Students will hone their creative writing, work shopping, and revising skills while working on an individual project. Prerequisite: ENGL 208 and instructor permission.

#### **ENGL 272**

#### **Advanced Creative Writing (3)**

For serious students who wish to prepare a manuscript for publication and/or writing program admission. Emphasis on work shopping, and revising of an individual project. Prerequisite: ENGL 271 & instructor permission.

## **ENVIRONMENTAL SCIENCE**

#### ENVS& 100

#### Survey of Environmental Science (S) (5)

An introduction to the interactions between humans and the natural world. Topics include structure and function of ecosystems; populations' growth; mineral, water, forest, food and energy resources, waste management, pollution. Local and global environmental issues will be discussed.

#### FNVS& 101

#### Introduction to Environmental Science w/lab (S) (5)

An interdisciplinary course for non-science majors and beginning science students. Topics include biodiversity, climate, pollution, energy and food. Independent laboratories and field trips included. Students cannot receive credit for Both ENVS& 100 and ENVS& 101.

#### **ENVS 120**

#### Watersheds: Connecting Mountains to the Sea (S) (5)

Investigate interconnections among geology, hydrology, biological diversity, ecology, human impacts and development along local rivers from headwaters to the ocean. General concepts presented in lectures are illustrated during day-long weekend field trips over rough terrain.

#### **ENVS 121**

# Fire and Ice, Rain and Rocks-The Geology of Water (1)

Examine the geologic and hydrologic characteristics and history of a river from its headwaters to its delta-how earthquakes, faulting, folding, climate, glaciers, volcanism, and man have affected the river. Includes a day-long field trip over rough terrain.

# **ENVS 122**

# Plants, People, and Watershed Health (1)

Investigate the role of upland forests and riparian vegetation on the health of watersheds and people. During a day-long field trip over rough terrain, identify plant species, measure ecosystem characteristics, observe healthy and impacted sites, and investigate the compatibility of forestry, agriculture and watersheds.

#### **ENVS 123**

# Let the Bugs Speak: Biological Communities (1)

Investigate biological communities found in local streams and rivers, focusing on aquatic insects and aquatic vertebrates. Apply stream survey techniques to assess stream health. Includes a day-long field trip over rough terrain.

## **ENVS 124**

# Life in the Mud: Where the River Meets the Sea (1)

Estuaries, important and yet impacted ecosystems, are critical nursery habitats for many marine species, including endangered salmon and important overwintering habitat for migratory birds. Investigate the impacts of anthropogenic modification to the local estuaries and recent attempts at habitat restoration. Includes a day-long field trip over rough terrain.

# **ENVS 125**

# Life on the Edge: Surviving the Intertidal (1)

Investigate the flora and fauna living in the intertidal zones of sandy and rocky habitats in Puget Sound and the Straits of Juan de Fuca. Explore the physical and biological factors that regulate intertidal communities in the Pacific Northwest. Includes field trips over rough terrain.

#### **ENVS 126**

## Our River's Keepers: Pollution/Remediation (1)

Examines pollution within the Chehalis River watershed, including pollutant types, sources, impacts, environmental fates and methods of remediation. Asses water quality, examine potential sources of pollutants, and visit restoration/remediation projects. Includes a day-long field trip over rough terrain.

#### **ENVS 127**

#### Fishes & Rivers in Northwest (1)

Investigate fish communities found in local streams and rivers. Examine the impacts of habitat loss, hydropower and dams, hatcheries, and overharvesting on local fish populations. Includes a day-long trip over rough terrain.

#### **ENVS 170**

#### Introduction to Natural Resources (S) (5)

What are Pacific Northwest forests, fishes and wildlife? Learn some common species, historical human uses; what policies drive their management, how to conserve them for future use, and how to plan for a career in the field.

# **FORENSIC SCIENCE**

#### **FORS 101**

#### Introduction to Forensic Science (S) (5)

Application of biology, chemistry, and physical science in evaluating evidence. Examine the capabilities and limitations of forensic science, the organization of the forensic science laboratory, using analytical tools, and applying science to questions of law.

# **FRENCH**

FRCH& 121, 122, 123

# French I-III (H) (5)

A multimedia course that combines video, audio, and print. Emphasis is on communicative proficiency, self-expression and cultural insight. Resources include CDs, videos and the World Wide Web.

# FRCH& 221, 222, 223

# French IV-VI (5)

Reviews and expands essential points of grammar. Students will develop reading skills, build their vocabulary, and increase their listening and speaking skills in a variety of topics. French is used almost exclusively in the classroom. Prerequisite: FRCH& 123 or instructor permission.

# GEOGRAPHIC INFORMATION SYSTEM

GIS 101

# Introduction to GIS (5)

Introduction to map creation and basic spatial analysis techniques using Geographic Information Systems (GIS) software and methods. Students apply GIS fundamentals to the fields of environmental science, urban planning, social science, business, and public health. Prerequisite: CNT 117 or equivalent skills recommended.

GIS 102

# GIS Spatial Data Design (3)

Provides in-depth analysis and hands-on practice with coordinate systems, projections, and the structure capabilities and methods for designing geo data bases within GIS. Students will complete Esri 'Virtual Campus' Certificates. Prerequisite: CNT 117 or equivalent skills recommended.

GIS 103

# GIS Based Cartography (3)

Introduces the art and science of GIS cartography (map making). Create digital and hardcopy representations for a variety of audiences, using the latest Esri GIS software and extensions. Students will complete Esri 'Virtual Campus' Certificates. Prerequisite: CNT 117 or equivalent skills recommended.

GIS 104

# GIS and GPS Integration (3)

Collect, transfer, and use Global Positioning System (GPS) data as primary and secondary data in GIS software for analysis and visualization. Students will complete Esri 'Virtual Campus' Certificates. Prerequisite: CNT 117 or equivalent; GIS 101 recommended.

GIS 110

## Principles of GIS (5)

Introduction to the principles of geographic information systems: data sources, data models, capturing and manipulating GIS data, geography concepts, and spatial data. Hands-on practice with GIS software. Prerequisite: MATH 098 and must have computer skills (email, file structure, windows).

GIS 120

#### **Spatial Analysis in GIS (5)**

Examination of spatial analysis methods within GIS. Analysis and visualization techniques will be developed using ArcGIS Extensions (3D Analyst, Network Analyst), vector and raster data models, and three dimensional surfaces in urban space. Prerequisite: GIS 101 or instructor permission.

GIS 130

#### Applied GIS (5)

Application of GIS techniques through lab work and case studies of social, economic, and environmental issues. Introduction of new techniques in online web mapping, basic programming for GIS, GPS integration, and remote sensing. Prerequisite: GIS 120.

GIS 200

# **GIS Extensions Analyst (3)**

Introduction to Esri's ArcGIS Extensions that provide advanced analysis and visualization options while developing skills using 3D Analyst, Spatial Analyst, Network Analyst, Model Builder, Maplex, and others. Students will complete Esri 'Virtual Campus' Certificates. Prerequisite GIS 101, 102.

GIS 201

# GIS Capstone (3)

In this culminating course, students plan and implement a project using skills such as spatial data design, cartography, and extensions analysis acquired in previous GIS courses. Prerequisite: GIS 101, 102, 103, 104, and 200.

GIS 250

# GIS and Remote Sensing (5)

Application of geographic information systems (GIS) and techniques of remote sensing in natural resource management, including area determination, scale, height measurement, and forest analysis. Detailed cases are studied. Prerequisite: GIS 110, ENGL 099, MATH 099, or instructor permission.

# **GEOGRAPHY**

GEOG& 200

# Human Geography (D) (SS) (5)

Introduction to basic geographical concepts, with an emphasis on inter-relationships of people and their physical and cultural environments. Course will satisfy requirements for elementary education majors and meet state-mandated Essential Academic Learning Requirements for geography.

**GEOG 201** 

# Physical Geography (S) (5)

Explore the characteristics of and relationships between Earth's natural systems: lithosphere, hydrosphere, atmosphere, and biosphere. Introduction to landforms, climates, vegetation, soils, mineral and water resources, plate tectonics, and maps.

# **GEOLOGY**

GEOL 100

# Geology for Engineering & Environmental Studies (S) (3)

Explore minerals and rocks, geological processes, and geological investigation techniques that relate to geo technical and environmental concerns.

#### GEOL& 101

# Intro Physical Geology (S) (5)

Explore and recognize earth materials, processes and structures within a plate tectonics framework; origin and structure of the Earth, rocks and minerals, geologic time, earthquakes and volcanoes, ocean basins, formation of landscapes, special topics.

**GEOL 102** 

# Earth Evolution & Global Change (S) (5)

Students will explore the evolution of the Earth and life through geologic time. Origin of the earth, its oceans and atmosphere, evolution of plants and animals, plate tectonics, changes in the continents through time, sedimentary deposits and environments, fossils, geologic time. No prerequisites but GEOL& 101 recommended. Coursework will include some college level writing and math.

**GEOL 108** 

# Natural Hazards and Catastrophes (S) (5)

An examination of earth materials and processes through the study of earthquakes, volcanoes, landslides, floods, tsunamis, hurricanes, tornadoes, wildfires, and meteorite impacts. Examination of causes and effects on human populations and the environment; preparedness, prediction and forecasting; mitigation of risks, and case studies.

**GEOL 180** 

# Cascade and Plateau Geology (S) (3)

Students will explore the geology of a selected area of interest, for example, Hawaii, Grand Canyon, Rocky Mountains, Cascades, Yellowstone, Tetons, Southwest Deserts, etc.

GEOL& 208

# Geology of Pacific NW (S) (5)

Examines the geology and geologic history of the Pacific Northwest and geologic processes important to its evolution. Topics include volcanoes, earthquakes, plate tectonics, rock and minerals, faults and folds, mountain building, landforms, glaciation, and surface processes.

**GEOL 270** 

# Research in Geology (1-12)

Design a research project, set up experiments, collect data in the lab or in the field, and/or analyze data. Each credit hour requires 33 hours of activity per quarter. Prerequisite: instructor permission.

# **HEALTH**

HLTH 120

#### Women's Health Issues (D) (HF) (3)

An opportunity to examine current women's health and well-being issues.

HLTH 125

# **Exploring Healthcare Professions (3)**

An opportunity for investigating the many career opportunities in the health sciences.

HITH 130

# Health & Wellness (HF) (3)

An exploration of current personal health issues and a presentation of contemporary approaches to obtaining and maintaining a high level of wellness.

HLTH 135

# Healthy Weight Control (HF) (2)

An introduction to healthy eating that focuses on a balance of foods, including a variety of lifestyle change strategies that will enhance the maintenance of a healthy weight.

**HLTH 140** 

# Exercise & Nutrition (HF) (3)

Two core components of a healthy lifestyle -a healthy diet and a safe exercise program -will be explained and developed. Students are expected to exercise outside of class time.

HLTH 145

# Safety and Fitness (HF) (3)

Emphasizes the importance of safety, first aid, and exercise as they relate to an individual's level of health and fitness. The course includes American Red Cross Community First Aid and Community CPR certification.

HLTH 154

#### Community First Aid and CPR (1)

Introductory American Red Cross first aid class with emphasis on the basic skills needed in case of an emergency. Adult, child and infant CPR covered.

**HLTH 160** 

#### **EMT Training (8)**

Techniques of emergency medical care presently considered as the responsibilities of a technician in his role. Designed to assure a uniformly high level of knowledge and skills among those involved in emergency care. Prerequisite: instructor permission.

# **HISTORY**

HIST 110

# History of Intolerance (D) (SS) (3)

An examination and analysis, through reading and film, of intolerance in America's history. Particular attention will be paid to historical events which demonstrate intolerance based on: religion, ethnicity, race, gender, sexual orientation and age.

HIST& 116

#### Western Civilization I (SS) (5)

Analysis of the development of major political, economic, social and cultural characteristics of Antiquity and Medieval Europe.

HIST& 117

#### Western Civilization II (SS) (5)

Analysis of the modern state with emphasis on the Renaissance, the Reformation, Absolutism, Scientific and Political Revolutions.

HIST& 118

# Western Civilization III (SS) (5)

Analysis of the late 19th and 20th centuries with special attention paid to the development of political, social and economic trends and events.

HIST& 146

# US History I (SS) (5)

Analysis of American history from the pre-invasion to the Antebellum Era. Emphasis will be on the political, social, and economic changes.

HIST& 147

# US History II (SS) (5)

Analysis of American history from Antebellum Era to the Progressive Era. Emphasis will be on the political, social, and economic changes.

HIST& 148

# US History III (SS) (5)

Analysis of American history from World War One to the present. Emphasis will be on the political, social, and economic changes.

**HIST 210** 

# Intro to Pacific Asian History (D) (SS) (5)

Description and analysis of emergence of modern nations of Pacific Asia. Gain understanding of historical and geographical context of the political and economic development of the region. HIS& 214

#### Pacific NW History (SS) (5)

Study of the early exploration and settlement of the Pacific Northwest. Emphasis will be on the economic, political and social developments. The course is designed to meet state certification requirements for teachers.

HIST& 215

# Women in U.S. History (SS) (5)

Exploration of female experiences in the 18th, 19th, 20th and 21st centuries by looking at class, race and ethnicity and study women in the context of the major historical developments in their time.

HIST& 220

#### African American History (D) (SS) (5)

Examines the history of the continent from the pre-colonial era to the present. Topics include pre-colonial lineage, patterns of ethnic identity, colonialism and tribal identity, urbanization and its impact, and apartheid.

HIST 275

# America in Vietnam (5)

Overview of the Vietnam Conflict, including the Vietnamese culture, and history; U.S. foreign policy; roots of the war; effects on world politics media conduct during and after the war; and impacts on American society.

HIST 280

# History of American Foreign Relations (SS) (5)

Survey of American foreign relations from the 17th to the 21st centuries focusing on such issues as national security, economic needs capitalism democracy and imperialism.

# **HONORS PROJECT**

**HON 160** 

# Honors Project (3)

Honors students will work with one faculty mentor to develop, complete, and publicly present a three-credit project or paper that requires original research and development. It is expected that the project will involve 60 to 90 hours of work, including initial and progress meetings with the faculty mentor.

HON 170

#### Honors Project (3)

Honors students will work with one faculty mentor to develop, complete, and publicly present a three-credit project or paper that requires original research and development. It is expected that the project will involve 60 to 90 hours of work, including initial and progress meetings with the faculty mentor.

HON 250

#### **Honors Colloquium (5)**

Honors students will explore the annual Phi Theta Kappa (International Honors society of the Two-Year College). Honors Study Topic in a colloquium setting, using texts, films, Internet, and other resources.

# **HUMAN RELATIONS**

HR 110

# **Human Relations-Workplace (5)**

Study of behavior, personality, self-management, self-development, and elementary business psychology in the workplace. Focus on understanding and demonstrating skills imperative to workplace success including communications, personal attitude, motivation, and workplace etiquette.

HR210

# **Human Resource Management (5)**

Introduction to fundamental concepts of human relations management. This course will focus on recruiting, employee selection and training, employee performance and compensation, and employee laws and labor relations.

# **HUMANITIES**

**HUM 110** 

# Ethics and Cultural Values (D) (H) (5)

An interdisciplinary study of philosophy, literature, history and religion within Western and Oriental ethical systems of thought. It focuses on the importance of cultural values through a study of virtue, duty, utility, and rights.

HUM& 116

# Humanities I (H) (5)

A survey of the major movements in art, architecture, music, philosophy and literature in a historical context, from prehistory to 1400 C.E

HUM& 117

#### Humanities II (H) (5)

A survey of the major movements in art, architecture, music, philosophy, and literature in a historical context, from 1300 C.E. to 1800 C.E.

HUM& 118

#### Humanities III (H) (5)

A survey of the major movements in art, architecture, music, philosophy, and literature in a historical context, from 1800 C.E. to the present.

HUM 270

#### Survey of Film Studies (H) (5)

An examination of the social, historical, technical, and artistic aspects of film through viewing, study and discussion of notable motion pictures.

HUM 281-286

#### Lyceum I-VI (1)

The Lyceum offers a variety of lectures on topics of current interest across a wide variety of disciplines. The theme may vary from quarter to quarter.

# INTENSIVE ENGLISH PROGRAM

IEP 084, 088, 092, 096

Intensive English: Speaking I-IV (1-5)

Multi-level language course with emphasis on communicative oral proficiency. Instruction includes use of multimedia to enhance the learning of the English language and American culture.

IEP 085, 089, 093, 097

# Intensive English Listening I-IV (1-5)

This course provides students with reciprocal listening training. They will also be introduced to non-reciprocal listening tasks both in a formal and non-formal method of communication.

IEP 086, 090, 094, 098

# Intensive English Reading I-IV (1-5)

Multi-level reading course for non-native English Speakers that emphasizes the acquisition of reading skills at a post-secondary level, including vocabulary, comprehension, reading rate, and study skills.

IEP 087, 091, 095, 099

# Intensive English: Writing and Grammar Level I-IV (1-5)

This is a multi-level class to prepare non-native English students for writing in college level academic and technical courses. Difficulty and length of writing assignments increase with each level. Students write about themselves, their culture or other familiar topics, discuss and write about American and world culture, and academic topics. Writing fluency is stressed, and correction focuses on structural and grammatical errors appropriate to each level. Paragraph development and short essay organization are emphasized. Writing includes description, narration, comparison/contrast, with some analysis and summarizing of short reading passages. Students keep a daily journal.

# **JOURNALISM**

**JOUR 106** 

#### Intro to News Writing I (H) (5)

Learn the difference between news writing and other types of writing. Practice writing a variety of kinds of news articles.

**JOUR 107** 

# Intro to News Writing II (H) (3)

Start, develop and polish hard news and soft news stories. Practice gathering information from a variety of sources. Prerequisite: JOUR 106.

**JOUR 180** 

#### Issues in Mass Media (2)

Discuss and interpret issues as they relate to the media. Learn to evaluate media messages critically.

**JOUR 206** 

# News Reporting and Writing (5)

Write a variety of in-depth and extended coverage news articles concentrating on enterprise and package projects. Practice writing editorials, columns and reviews. Learn the basics of broadcast and public relations writing. Prerequisite: JOUR 106, 107, 111, ENGL 101

# LIBRARY

I IBR 180

## Research in the 21st Century (5)

Students examine various strategies for locating, evaluating, and applying information resources in the research process. Attention is paid to information issues like intellectual property, censorship, and freedom of information. Prerequisite: eligibility for ENGL 101.

LIBR 182

# Research Skills (2)

Student will learn how to use the tools of research, including both traditional library resources and those accessed over the internet. They will discover how information is organized and indexed for retrieval, the appropriate search syntax for a variety of databases, and the underlying search patterns that remain constant from resource to resource. Students will demonstrate acquisition of these skills through the creation of a topic pathfinder and individual weekly assignments. Prerequisite: ENGL 099 or equivalent.

# **MATHEMATICS**

MATH 094

# **Independent Study (1-5)**

Individualized instruction for the student whose needs are not currently being met by the available course offerings. Specialized curriculum and instruction are developed to meet each student's needs. Permission of instructor only.

**MATH 095** 

# **Basic Mathematics (1-5)**

For students who need to review basic math concepts such as whole number, fraction and decimal operations. Appropriate placement test scores

**MATH 096** 

# Pre-Algebra (1-5)

Covers percentages, proportions, unit conversions, geometry, simplifying algebraic expressions and solving simple first degree linear equations. Prerequisite: MATH 095 or appropriate test score placement.

**MATH 097** 

## Algebra for Statistics (5)

An algebra course for students intending to enroll in MATH& 146, Introduction to Stats. This course does not meet the algebra prerequisite or other quantitative skills courses or for transfer to the University of Washington. Prerequisite: MATH 096 or Compass score of 78+.

**MATH 098** 

# Algebra I (1-5)

For students with good arithmetic skills and familiarity with signed numbers and basic algebraic expressions. Problemsolving skills are emphasized. Topics include: linear equations and inequalities, graphing, polynomials, and rational expressions. Prerequisite: MATH 096.

MATH 099

#### Algebra II (1-5)

Introduces the concept of functions, their graphs and properties. Particular attention will be paid to linear, quadratic, exponential and logarithmic functions. Prerequisite: MATH 098 or equivalent.

TMATH 100 (formerly MATH 100)

#### **Technical Mathematics I (5)**

Focus is on methods of problem solving for the technical fields. Course develops mathematical vocabulary and skill with algebraic expressions, formula manipulations, graphing techniques, right triangle trigonometry, geometry, exponents, logarithms, and equation/system of equation solving. Prerequisite: MATH 098 or equivalent

#### TMATH 101(Replaces MATH 101)

#### Foundational Math Concepts (5)

Study of foundational math theory and concepts including number sense, algebra, geometry, data analysis and math vocabulary through inquiry-based learning. This course does not satisfy the quantitative skills distribution requirement for AA degree. Prerequisite: MATH 095 or equivalent.

#### MATH& 107

# Math in Society (M) (5)

Designed to enhance math proficiency of liberal arts students as they meet personal and professional demands. Includes mathematics in management, statistics, probability, art, and other practical applications in society. Not preparation for calculus. Prerequisite: MATH 099 or equivalent.

# TMATH 110 (formerly MATH 110)

# **Technical Mathematics II (3)**

Course emphasizes trigonometric functions used to solve engineering, electronics, and mechanics application problems. This course does not satisfy the quantitative skills distribution requirement for AA degree. Prerequisite: MATH 098.

#### MATH 115

# College Algebra for Business (M) (5)

Linear, polynomial and rational function models. Exponential and logarithmic functions, Mathematics of finance, matrices, linear programming, set operations, and probability. Prerequisite: MATH 099 or equivalent.

#### TMATH 116 (formerly MATH 116)

#### **Industrial Math (5)**

Application of basic mathematical operations to specific workforce programs including common fractions, decimal fractions, percentages, ratio and proportion, practical algebra, and computations involving rectangles and triangles. Emphasizes the use mathematics in diesel and welding. This course does not satisfy the quantitative skills distribution requirement for AA degree.

#### MATH 118

# Linear Algebra (M) (5)

Computational and modeling tools with applications in physics, mathematics, engineering, economics, and business. Topics include systems of equations, matrix algebra, vector spaces, subspaces, bases, orthogonally, transformations, and eigenvalues. Prerequisite: MATH& 142 or equivalent placement.

#### **TMATH 121**

# Electronics Math 1 (M) (5)

Students will be introduced to math concepts relating to electronics and robotics. Topics studied will include functions, direct and inverse relationships, unit analysis, calculator operation, linear and exponential equations, and spreadsheet math operations. This course does not satisfy the quantitative skills distribution requirement for AA degree. Prerequisite: MATH 098.

#### **TMATH 122**

# Electronics Math 2 (M) (2)

Continuation of Electronics Math 1 -students will learn math concepts applicable to AC electronics and semiconductor device performance. Trigonometry and complex numbers will be emphasized. This course does not satisfy the quantitative skills distribution requirement for AA degree. Prerequisite: TMATH 121.

#### MATH& 131

# Math for Elementary Education 1 (M) (5)

Designed to provide the conceptual framework for teaching mathematics from kindergarten through eighth grade. Prerequisite: MATH 099 or equivalent ASSET/COMPASS score.

#### MATH& 132

# Math for Elementary Education 2 (M) (5)

The second of two courses designed to provide the conceptual framework for teaching mathematics from kindergarten through eighth grade. Prerequisite: MATH& 131.

# MATH 135

## Precalculus Refresher (M) (5)

Designed as a refresher course for students who have previously had a Precalculus course. Content includes everything covered in MATH 141 and MATH 142. Prerequisite: High school Precalculus equivalent or Instructor Approval.

#### MATH& 141

# Precalculus I (M) (5)

Study of elementary functions (polynomial, exponential, logarithmic), systems of equations, matrix algebra. Modeling and problem solving techniques are emphasized from a graphic, symbolic and numeric perspective. Prerequisite: MATH 099 or equivalent placement.

#### MATH& 142

#### Precalculus II (M) (5)

Graphical, numerical, symbolic development of trigonometric functions and their inverses as defined on the unit circle and right triangles; identities, equations, and applications; complex numbers, polar coordinates, parametric equations, vectors, conics, and sequences and series. Prerequisite: MATH& 141.

#### **MATH& 146**

# Introduction to Stats (M) (5)

Introduction to concepts of data collection, organization and summaries. Develop the fundamental concepts of mean, median and standard deviation, probability, probability distributions, and apply these ideas to hypothesis testing, linear regression and analysis of variance. Prerequisite: MATH 099 or equivalent.

# MATH 150

#### Survey of Calculus (M) (5)

Serves the needs of students whose programs demand a relatively brief introduction to the calculus concepts of limit, change, rate of change, and integration with applications in the field biological, social and management sciences. Prerequisite: MATH& 141, MATH 115 or equivalent.

#### MATH& 151

# Calculus I (M) (5)

The first in a four-quarter sequence. Limits, derivatives of algebraic and some transcendental functions, applications of derivatives, the indefinite integral. Topics covered from numerical, analytical and graphical viewpoints. Prerequisite: MATH& 142 or equivalent.

#### MATH& 152

#### Calculus II (M) (5)

The second in a four-quarter sequence. Covers the calculus of transcendental functions (exponential, logarithm, inverse circular, hyperbolic), techniques of integration, sequences, series, and power series. Prerequisite: MATH& 151 or equivalent.

## MATH 156

# Calculus I Lab (1)

Analyze concepts from Calculus I using algebra-based computer software. For students currently enrolled in Calculus I or who have instructor permission. Corequisite: MATH& 151.

#### MATH& 163

#### Calculus III (5)

Third in a four-quarter sequence. Polar coordinates, parametric equations, vectors, and vector fields, the analytic geometry of three-space, partial derivatives, and multiple integrals. Prerequisite: MATH& 152 or equivalent.

#### MATH 212

#### **Elementary Differential Equations (5)**

Linear ordinary differential equations with emphasis on supporting concepts of differential operators, Wronskians, characteristic polynomials, homogeneous and nonhomogeneous cases, variation of parameters, undetermined coefficients.

Solution of IVP by Laplace transforms and power series method. Prerequisite: MATH& 163.

#### **MATH 228**

# Discrete Mathematics (M) (5)

This class introduces the basic concepts of mathematics that are used in computer science. Topics covered include logic, mathematical induction, combinatorics, set theory, relations and functions and descriptive statistics. Prerequisite: MATH& 141 or equivalent.

#### **MATH 264**

# Calculus IV (3)

Fourth in a four-quarter sequence. Optimization of 2 and 3 variable functions, Lagrange Multipliers, applications and techniques of multiple integration, Green's Theorem, Stokes Theorem, and line and surface integrals. Prerequisite: MATH& 163 or its equivalent.

# **MEDIA STUDIES**

#### M ST 125

# **Introduction to Sports Announcing (1)**

Learn about the history of Sports Broadcasting. Specific duties of announcers as well as technical knowledge, current trends, career paths, legal and ethical issues of Sports Broadcasting will be covered during the quarter.

#### M ST 126

# **Sports Announcing for Football (C) (1)**

Learn and apply the basic skills and knowledge required of today's football announcers. This course will emphasize practical tips, ideas and theories that will help you on your way to becoming a quality football announcer.

#### M ST 127

# **Sports Announcing for Basketball (1)**

Learn and apply the basic skills and knowledge required of today's basketball announcers. This course will emphasize practical tips, ideas and theories that will help you on your way to becoming a quality basketball announcer.

# M ST 128

#### Sports Announcing for Baseball (1)

Learn and apply the basic skills and knowledge required of today's baseball announcers. This course will emphasize practical tips, ideas and theories that will help you on your way to becoming a quality baseball announcer.

#### M ST 158

# Studio & Outdoor Lighting for Television & Film (2)

Discover the basic principles and techniques of lighting television and film sets in both indoor and outdoor situations.

#### M ST 159

# Stagecraft for Television and Film (2)

Designed specifically for television and film majors, this class introduces students to the basic tools, materials, equipment and techniques used in the design and building of television and film sets.

#### M ST 190

# **Cooperative Work Experience (1-12)**

See description under COOP 190 for additional information.

#### M ST 220

### Introduction to Broadcast News and Production (4)

Learn basic media news writing, produce and broadcast news and feature stories on both radio and television. Some media production techniques will be covered during the quarter.

#### M ST 225

#### Introduction to Telecommunications (5)

The field of telecommunications is constantly changing and affecting the way we live our lives. Learn about the history, social impact, moral, ethical issues and philosophies of telecommunications in our society.

#### M ST 230

#### Introduction to Radio Broadcasting (C) (5)

As an introduction to radio broadcasting you will learn about programming philosophies, announcing skills, production techniques, copy writing and the FCC rules and regulations that apply to the industry.

#### M ST 231

# **Advanced Radio Broadcasting (3)**

Learn strategies to research and prepare material for broadcast. The use of promotions and contests to increase station ratings also will be covered.

#### M ST 260

# Introduction to TV & Video Production for Electronic Media (5)

Learn studio and control room operations, field and studio camera techniques, basic script writing and video editing. At the end of the quarter students will be able to write, produce and edit short videos.

## M ST 261

#### Advanced TV & Video Production for Electronic Media (5)

Improve editing skills while producing documentary and music videos. Advanced camera, editing, studio and field production techniques will be covered. Students will also take part in producing live college basketball games.

#### M ST 262

# **Television Production (5)**

Students will write, direct, produce and edit video packages and participate as crew members in producing classmate's video projects.

#### M ST 271

# Radio Broadcasting Internship (1)

Practice and perfect your announcing skills on the campus radio station KCED FM. Prerequisite: M ST 230, 231 or instructor permission.

#### M ST 272

# Radio Broadcasting Internship (2)

Practice and perfect your announcing skills on the campus radio station KCED FM. Prerequisite: MST 230, 231 or instructor permission.

#### M ST 273

# Radio Broadcasting Internship (3)

Practice and perfect your announcing skills on the campus radio station KCED FM. Prerequisite: M ST 230, 231 or instructor permission.

#### M ST 274

#### Radio Broadcasting Internship (4)

Practice and perfect your announcing skills on the campus radio station KCED FM. Prerequisite: M ST 230, 231 or permission of the instructor

#### M ST 281

#### TV Broadcasting Internship (1)

Designed for students who wish to produce independent video projects outside of the classroom environment. Permission of instructor required. Prerequisite: M ST 260, 261, 262.

# **MEDICAL ASSISTANT**

#### MA 130

#### Medical Math (5)

A mathematics course that focuses on solving applications using percent, proportion, and unit conversion as well as descriptive data interpretation. Satisfies the math requirement for the Medical Assistant ATA. Prerequisite: MATH 096 or equivalent.

#### MA 139

# MA Medical Terminology (5)

A required class for all students enrolled in the Medical Assistant Program to develop a medical vocabulary from an anatomy, physiology, and pathology format. It is suitable for others entering medical-related fields.

#### MA 140

#### **Medical Assisting Introduction (5)**

An introduction to the profession of medical assisting in the ambulatory health care setting. Designed to explore the medical assistant as a valuable member of the health care team. Prerequisite: MA 139 with a 2.5 gpa.

#### MA 208

#### MA Electrocardiography (2)

Electrocardiography (ECG) for the medical assistant student; including anatomy of the heart and the cardiac cycle, ECG applications and methods for testing in ambulatory care. Prerequisite: acceptance into 2nd year MA program.

#### MA 241

#### **MA Clinical Procedures I (10)**

Overview of physical examinations, procedures, and testing that a medical assistant would assist a health care provider within an ambulatory care setting. Prerequisite: acceptance into 2nd year MA program.

#### MA 242

#### **Medication Administration (6)**

An overview of pharmacology and medication administration as it applies to the medical assistant's responsibilities in ambulatory care. Prerequisite: acceptance into 2nd year MA program.

#### MA 243

# **MA Clinical Procedure II (6)**

Surgical setup for clinical/office procedures explored in detail; review of the role of diagnostic imaging, rehabilitation, and nutrition in the interdisciplinary approach of patient care.

Prerequisite: acceptance into 2nd year MA program.

#### MA 244

#### MA Externship Seminar (1)

This class allows the medical assistant extern to explore objectives and challenges in bridging their classroom/lab experiences to the experiences they are encountering in their externships. Prerequisite: acceptance into 2nd year MA program.

#### MA 245

# MA Clinical Externship (6)

One hundred eighty unpaid hours of externship in an ambulatory health care setting that allows the medical assistant student to bridge their classroom education and lab training to the real world medical setting. Prerequisite: acceptance into 2nd year MA program.

# MA 246

## **MA Laboratory Procedures (5)**

Overview of laboratory procedures and regulations for the ambulatory health care setting, including phlebotomy training. Prerequisite: acceptance into 2nd year MA program.

#### MA 249

# **MA Administrative Procedures (8)**

Administrative protocols and procedures related to front and back office responsibilities in an ambulatory care setting; with emphasis on communications, medical records management, and fiscal management practices. Prerequisite: acceptance into 2nd year MA program.

# MUSIC

#### MUSC 100

#### Music Reading (2)

Designed for the student that has not previously had exposure to reading music. The skills acquired can be used to perform, create music, or enter the field. Practice rooms with pianos are available at the college.

#### MUSC& 105

# Music Appreciation (H) (5)

Explores music's history from the early beginnings of music into the twenty-first century. Topics include: elements of music, appreciation process, musical styles, music history, sound, musical instruments, and listening techniques. No prior music knowledge is required.

#### **MUSC 108**

#### Piano I (1)

Introductory piano. Emphasizing basic keyboard skills, music reading, and conceptual understanding pertinent to early level study. Includes transposition, harmonization, sight reading, improvisation, and basic keyboard repertoire. Pre/corequisite: MUSC& 131.

#### MUSC 109 & 110

# Piano II-III (1)

Continued piano study for the non-keyboard music major. Emphasizes arpeggios, inversions, seventh chords, modes, pedaling and performance of elementary-level repertoire. Prerequisite for MUSC 109: MUSC 108 with a minimum grade of 2.5 or instructor permission. Prerequisite for MUSC 110: MUSC 109 with a minimum grade of 2.5 or instructor permission.

#### MUSC 114

# Fundamentals of Music for Education (3)

A beginning music course to prepare elementary education majors for the upper division course or courses required which they will take to complete the education degree. Also aimed at the student seeking an AA degree who may have an interest in learning the mechanics of music reading and composition. In addition this course can be taken in preparation for those students who wish to major in music but who do not have enough basic skills to begin the Music Theory Sequence.

#### MUSC 115, 116, 117

#### **Applied Music I-III (1)**

Study of specific instrument literature and techniques applied to performance. Required of all music majors. By audition and permission of instructor only.

#### MUSC& 121

#### Ear Training I (H) (2)

An aural study of musical scales and intervals, designed for music majors and minors. Emphasis on dictation, sight singing, functional keyboard skills. Required of all music majors. (Music majors are required to register for MUSC& 131 with MUSC& 121.) Prerequisite: Music reading skill.

#### MUSC& 122

#### Ear Training II (2)

An aural study of musical scales and intervals, designed for music majors and minors. Emphasis on dictation, sight singing, functional keyboard skill. Required of all music majors. The student must simultaneously register for MUSC& 132. Prerequisite: MUSC& 121 or permission of instructor.

#### MUSC& 123

## Ear Training III (2)

An aural study of musical scales and intervals, designed for music majors and minors. Emphasis on dictation, sight singing, functional keyboard skills. Required of all music majors. Students must simultaneously register for MUSC& 133. Prerequisite: MUSC& 122 or permission of instructor.

#### **MUSC 130**

#### History of Western Music (H) (5)

Introduction to musical elements, musical form, and stylistic periods in western music.

# MUSC& 141

#### Music Theory I (H) (5)

A technical study of musical architecture. Emphasis on aural and written skill of signatures, chords, intervals, musical notation. Piano proficiency of basic scales and five-finger patterns. Finale $^{\text{TM}}$  is used for computer generated manuscript. Prerequisite: music reading skill.

#### MUSC& 142

#### Music Theory II (5)

Designed for music majors and minors. Emphasis on aural and written skill of part-writing, harmonization of melody and harmonic analysis. Piano proficiency of grade three piano studies. Finale™ is used for computer generated manuscript. Prerequisite: MUSC& 141.

#### MUSC& 143

## Music Theory III (5)

Designed for music majors and minors. Emphasis on aural and written skill of seventh chords, secondary dominant and secondary seventh chords. Piano proficiency of Bach two-part Inventions. Finale™ is used for computer generated manuscript. Prerequisite: MUSC& 142

#### **MUSC 139**

# Music of the World (D) (H) (5)

A music survey of diversity found in music around the world. Examines music as accompaniment to ceremony and ritual, aid to work and routine, and an expression of universal unchanging human emotions. Prior musical experience is not necessary. Prerequisite: Proficiency in reading, grammar skills.

#### MUSC 140

# History of American Popular Music (D) (H) (5)

Exposure to styles of American popular music from the 1890's to the present. The development of four American styles: Blues, Ragtime, Dance and Jazz showing the evolution of American popular music. Prior musical training is not required. Prerequisite: Proficiency in reading, grammar skills.

# MUSC 144, 145, 146, 147, 148, 149

# Choir I-VI (2)

A vocal group consisting of the part distribution: soprano, alto, tenor, and bass. Will perform both sacred and secular music literature. Participation in one evening concert per quarter is mandatory. Previous choral experience not necessary. Prerequisite: by audition only.

## MUSC 215, 216, 217

# Applied Music IV - VI (1)

Study of specific instrument literature and techniques applied to performance. Required of all music majors. By audition and permission of instructor only.

#### MUSC& 221

#### Ear Training IV (2)

An aural study of musical scales and intervals, designed for music majors and minors. Emphasis on dictation, sight singing, functional keyboard skills. Required of all music majors. Prerequisite: MUSC& 123 or permission of instructor. Corequisite: MUSC& 231.

#### MUSC& 222

#### Ear Training V (2)

An aural study of musical scales and intervals, designed for music majors and minors. Emphasis on dictation, sight singing, functional keyboard skills. Required of all music majors. Prerequisite: MUSC& 221 or permission of instructor. Corequisite: MUSC& 232.

#### MUSC& 223

## Ear Training VI (2)

An aural study of melody, harmony and musical form, designed for music majors and minors. Emphasis on dictation and sight singing. Required of all music majors. Prerequisite: MUSC& 222 or permission of instructor. Corequisite: MUSC& 233.

#### MUSC& 241

# Music Theory IV (5) (formerly MUSC& 231)

An advanced technical study of western music. Emphasis on written and aural skill of chromatic chords, modulations and musical form. Piano proficiency of primary and secondary chord progressions. Prerequisite: MUSC& 143.

#### MUSC& 242

#### Music Theory V (5) (formerly MUSC& 232)

An advanced technical study of music including aural skill and analysis of late 19th century western music. Piano proficiency of chromatic chord progressions and beginning score reading. Prerequisite: MUSC& 241.

#### MUSC& 243

#### Music Theory VI (5) (formerly MUSC& 233)

An advanced technical study of music including aural skill and analysis of late 20th century music. Piano performance skill of score reading, four-part choral accompaniments, and level four piano. Prerequisite: MUSC& 242.

#### MUSC 234, 235, 236, 237, 238, 239

# Jazz Band I-VI (2)

Jazz ensemble consisting of the following instrumentation: saxophone, trumpet, trombone, piano, bass, guitar and percussion. Perform both on and off campus. Participation in one evening concert is mandatory. Auditions held on first day of class. Prerequisite: by audition only.

#### MUSC 244, 245, 246, 247, 248, 249

#### Performance Ensemble I-VI (1)

An ensemble is for the advanced performer (Instrumentalists or Vocalists). Music reading is imperative. Will perform many styles of music. Concert performances will be both on and off campus and/or tour. By audition ONLY.

#### MUSC 250

#### Musical Theatre Production I (H) (5)

Designed to introduce the student to all the elements of musical theatre. The student will study the audition process, the effect of musical choreography, the historical setting of the work chosen, musical score and dialogue.

#### MUSC 251

## **Musical Theatre Production II (5)**

The student will continue to study the audition process, the effect of musical choreography, the historical setting of work chosen, musical score and dialogue. Prerequisite: by audition only.

#### MUSC 254, 255, 256, 257, 258, 259

#### Vocal Ensemble I-VI (2)

A small vocal ensemble that prepares and performs chamber works, and contemporary vocal literature. Placement is by audition only. Auditions will take place during the first scheduled class.

#### MUSC 264

# Music History I (D) (5)

Traces the development of musical composition from antiquity and the early Christian era, through the Baroque era. Music listening is a strong component of the course.

#### MUSC 265

# Music History II (5)

Study of the following periods in music history: Baroque, Classical and Romantic. Music listening is a strong component of the course. Writing and scholarly reading in the field of music will be required.

#### MUSC 266

#### **Music History III (5)**

Studies the development of music from the early twentieth century through contemporary music of the twenty first century. Music listening will be a strong component of the course.

#### **MUSC 276**

#### Music Technology (3)

Detailed study of MAC-based music software to create recordings. Will acquaint the student with music technology to professionally edit, publish and compose original music.

# MUSC 281, 282, 283, 284, 285, 286

# Instrumental Improvisation I-VI (2)

An historical study of improvisation in instrumental styles: Dixieland, jazz, and contemporary popular music. Course will involve stylistic and chordal analysis as well as performance on the student's major instrument.

# **NATURAL RESOURCES**

# NATR 131

# Plants of the Pacific Northwest (5)

Basic biology, life history and distribution of plants of the Pacific Northwest, emphasizing major tree species. Laboratory exercises focus on taxonomy and identification methods. An accelerated two-week course: first in a three part series. Prerequisite: ENGL 099, placement in ENGL& 101 or instructor permission.

#### **NATR 150**

# **Disturbance Ecology (5)**

Investigation of forces that change forest and riparian plant communities: fire, wind, floods, and insects and diseases endemic to the Pacific Northwest. An accelerated two-week course; second part of a three-part series. Prerequisite: ENGL 099 or placement in ENGL& 101 or instructor permission.

#### **NATR 160**

# **NW Terrestrial Habitats (5)**

Exploration of diverse Pacific Northwest ecosystems. Succession, plant associations, site characteristics, biodiversity, population ecology and community ecology are studied within the context of ecosystem sustainability. A two-week, accelerated course; third in a three-part series. Prerequisite: ENGL 099 or placement in ENGL& 101 or instructor permission.

#### **NATR 191**

# **Work Experience Seminar (1)**

Preparation for cooperative work experience required for the Natural Resources- Forestry Technician program: job applications, resumes, cover letters, interview techniques, and employment research.

#### **NATR 260**

#### Forest Mensuration w/lab (5)

Forestry measurement requirements, such as timber cruising, log scaling, tree grading, inventory techniques, and computer applications. Labs, some in the field, emphasize equipment and techniques necessary to measure forest resources. Prerequisite: ENGL 099, MATH 099 or college-level placement or instructor permission.

# NATR 265

# Forest Management w/lab (5)

Contemporary forest management principles, economics and concepts. Emphasizes sustainable forest management; certification systems, fragmentation and current forest rules including policy and regulatory issues on the state and federal levels.

# NATR 270

# Silviculture w/lab (5)

Forestry fundamentals, including methods of regeneration, site preparation, planting practices, animal damage control, nursery practices, pesticide/herbicide use and safety, prescribed burning, pre-commercial and commercial thinning and harvest treatments.

#### NATR 280

# Harvest Systems and Products w/lab (5)

Forest harvest techniques; includes transport systems, logging plans, wood products and other forest products, road layout and construction, best management practices, timber appraisal and contracts.

# NURSING

#### **NURS 101**

#### **Basic Nursing Care Concepts (12)**

Program themes of homeostasis, the role of the nurse, and continuum of care are applied at on-campus theory and skills labs and off-campus clinical experiences at assisted living and long-term care facilities. Prerequisite: admission to the Centralia College Nursing Program.

#### **NURS 102**

# **Common Alterations I (12)**

Progressive competencies reflecting program themes are applied to cardiac, respiratory, and endocrine systems; and medication and fluid administration. On-campus theory, skills labs and off-campus clinical experiences are provided. Prerequisite: NURS 101 or equivalent.

#### **NURS 103**

#### **Common Alterations II (12)**

Progressive competencies reflecting program themes are applied to surgical, neurologic, musculoskeletal, renal, and gastrointestinal nursing care. On-campus theory and skills labs and off-campus acute care clinical experiences are provided. Prerequisite: NURS 101, 102 or equivalent.

#### **NURS 108**

# **Electrocardiography for Health Care Professional (2)**

Review of cardiac anatomy and physiology; ECG equipment operation and supplies; patient preparation; ECG testing procedure; rhythm recognition and interpretation; cardiovascular disorders; pharmacology in ECG testing. Includes hands on ECG training and practice. Corequisite: RN, LPN, or nursing student or instructor permission.

#### **NURS 190**

#### **Cooperative Work Experience (1-5)**

See description under COOP 190 for additional information.

#### **NURS 201**

# Mental Health & Lifespan (10)

Progressive competencies reflecting program themes are applied to the care of clients with mental health alterations, complications of child-bearing and high-risk newborns and children. Community-based and in-patient clinical experiences are provided. Prerequisite: NURS 101, 102 & 103 or equivalent.

## **NURS 202**

# **Complex Alterations (12)**

Progressive competencies reflecting program themes are applied to the care of clients with complex alterations in health. Women's Health and Pediatric and Adult acute care clinical opportunities are provided at regional facilities. Prerequisite: NURS 201 and 220 or equivalent.

#### **NURS 203**

#### **Complex Management (8)**

Progressive competencies reflecting program themes are applied to the care of clients with complex alterations in health. Community-based and acute care inpatient clinical opportunities are provided at regional facilities. Prerequisite: NURS 201 and 202 or equivalent.

**NURS 210** 

# **Basic Life Support for Healthcare Providers (1)**

Covers the information and skills needed for adult, child, and infant cardiopulmonary resuscitation; the use of an automated external defibrillator; recognition and treatment of choking; safety factors in training and actual rescue. Corequisite: admission to the nursing program or permission of the instructor.

**NURS 220** 

# Management & Leadership (2)

Expands on the program theme of the role of the nurse to provide a stronger theoretical foundation for assuming a management and leadership role in a variety of care settings. Prerequisite: NURS 101, 102 and 103 or equivalent; corequisite: NURS 201.

**NURS 222** 

#### **Transition to Practice (4)**

Preceptor-guided experiences in a variety of community health care organizations are provided. Community-based and personal professional development projects are assigned. Prerequisite: NURS 201 and 202 or equivalent; corequisite: NURS 203.

# **NURSING ASSISTANT**

HLSV 110

# **Basic Life Support for Healthcare (1)**

Course covers the information and skills needed for adult, child, and infant cardiopulmonary resuscitation; the use of an automated external defibrillator; recognition and treatment of choking; safety factors in training and actual rescue.

HLSV 121

# Intro to Healthcare (2)

The complexity of health care, health care provider certifications and team concepts will be introduced. Professionalism, safe patient handling, physical/emotional changes with aging, and specific infection control issues for all care givers will be explored.

HLSV 130

# **Basic Fundamentals of Caregiving (2)**

Focus is on the requirements for basic caregiving. Topics include client rights, communication, problem solving skills, and protecting the health and safety of residents.

HLSV 131

#### **Nursing Assistant Certification (9)**

Awareness of the role of the nursing assistant in nursing care and skill development. Topics: maintain a safe environment, provide restorative care, communication, and practice basic concepts of care. Background check is required for clinical.

HI SV 132

#### Nurse Delegation (2)

Class is for Washington State caregivers who work in or will work in specific community-based long-term care settings. Course covers: medication administration, diabetes care, roles and laws pertaining to delegation and hands-on skills practice. Prerequisite: NAC Certification or co-enrollment in NAC.

**HLSV 133** 

# Mental Health (1)

Learn how a caregiver, in a generalized residential setting, can work effectively with a person who has a major mental disorder. Prerequisite: NAC certification or currently enrolled in NAC course.

**HLSV 134** 

#### Dementia (1)

Learn how a caregiver, in a generalized residential setting, can work effectively with a person who has memory impairments. Prerequisite: NAC certification or currently enrolled in NAC course.

**HLSV 163** 

# **Emergency Medical Responder (5)**

This course prepares students for certification as a First Responder in the State of Washington. Both lecture and handson practical training are used to teach important aspects of basic pre-hospital emergency care.

# **NUTRITION**

**NUTR& 101** 

# Nutrition (S) (5)

An exploration of the six basic nutrients with diet planning principles, human metabolism, weight control and digestion also being studied. Some chemistry or biology background is helpful. Prerequisite: prior knowledge of chemistry or biology would be helpful.

**NUTR 202** 

#### **Nutritional Laboratory (1)**

Consumer-oriented labs will teach students how to analyze their diet, apply nutrition knowledge to menu planning and reading food and supplement labels. Prerequisite: NUTR 201, HLTH 140 or permission of instructor.

**NUTR 203** 

## Issues in Nutrition (S) (5)

Examines the interrelationship between diet and individual lifestyles with regard to health risks during all stages of life.

# **OCEANOGRAPHY**

OCEA& 101

# Introduction to Oceanography (S) (5)

Explore the physical, geological, chemical and biological characteristics of the ocean: waves and tides, ocean and atmosphere circulation, coastal features and beach processes, ocean basins, sediments, ocean chemistry and physics, plate tectonics, and marine life.

# **PHILOSOPHY**

PHIL& 101

# Introduction to Philosophy (H) (5)

Investigate the assumptions philosophers have made about reality, knowledge, truth, God, morality, social construction, freedom, and paternalism.

**PHIL 103** 

#### Introduction to Ethics (H) (5)

Focus on choices made in concrete circumstances. Study traditional ethical theories and present-day moral dilemmas.

# PHYSICAL EDUCATION

PE 101

# **Introduction to Physical Education (3)**

A survey course designed for students considering a career in physical education, recreation and sports. Presents background information for the wide scope of career opportunities.

P E 103

# Basketball (1)

This course will cover the basic skills and techniques of basketball. Includes team defense and team offense.

PE 107

# Cycling Basics (HF) (2)

A class consisting of road tours of varying distances as well as classroom lectures. Each student must have a bicycle in good repair and an approved helmet.

P E 109

#### Golf (1)

Instructions for beginners, fundamentals, rules, and etiquette. Off campus but first class will meet in HWC 103.

PE 110

#### Physical Fitness (HF) (1)

Study all five areas of fitness: aerobic endurance, muscle strength, muscle endurance, flexibility, and body composition. Students work at their own fitness levels.

PE111

# Fitness in the Workplace (HF) (1-2)

Course will increase cardiovascular endurance, flexibility, and increase strength. Students will develop and conduct their own personal fitness program.

PE 115

# Volleyball (1)

This course will cover the fundamental skills and techniques of beginning volleyball. Includes basic rules, scoring and strategy.

PE117

# Lifeguard Training (2)

Students will obtain the knowledge and skills needed to prevent and respond to aquatic emergencies. Upon successful completion of this class a student will obtain the American Red Cross Lifeguarding certificate. Prerequisite: PE 114 or instructor permission.

PE 120

# Lifestyle Management and Exercise (HF) (2)

Designed to assist individual in making life style changes associated with health and fitness.

PE 123

# Basic Weight Training/Conditioning (HF) (1)

Designed to condition the musculature of the body using machine and free weights.

PE 125

# Free Weights (HF) (1)

Designed to develop muscle fitness through lifting free weights, Olympic lifts, plyo-metrics and power lifting. Students need prior weight training experience.

P E 130

# **Basketball Applications (3)**

A course designed to provide experience in advanced strategies, fundamental skills, and team concepts of basketball. Prerequisite: PE 103, 167 or instructor permission.

PF 131

# **Baseball Application I (3)**

Learn the techniques and strategies in a practice or game situation with an emphasis on fundamentals, conditioning, team concept and sportsmanship.

#### PE 139

# **Volleyball Applications (3)**

A course designed to provide experiences in advanced strategies, skills, and team concepts of volleyball. Prerequisite: PE 115 or instructor permission.

#### PE 140

# **Boot Camp Basics (HF) (1)**

A high-impact exercise class designed to improve muscle strength, endurance, flexibility and aerobic capacity.

#### PF 142

# Cardio Combo (HF) (1)

A combination of cardio experiences to improve cardiovascular endurance, body composition, muscle fitness and flexibility. A variety of movements will be explored, including step aerobics, kickboxing, Drums Alive, Zumba, and circuits and weights.

## PE 150

# Yoga (HF) (1)

An exercise class integrating components of flexibility, muscular strength and endurance, and relaxation. Students will be encouraged to work at their own level of fitness.

#### PE 151

# Aerobic Fitness/Walking (HF) (1)

A fitness program emphasizing aerobic activities only. Designed to develop cardiovascular endurance, flexibility and body composition.

#### PE 152

# Pilates/Core (HF) (1)

An exercise class designed to teach breathing with movement, body mechanics, balance, coordination, spatial awareness, strength and flexibility.

#### PE 153

# Tai Chi Basics (HF) (1)

Develop balance, lower-body strength and relaxation in motion with Wu Style Tai Chi. Students will work at their own level of fitness.

#### PE 158

# Beginning Tae Kwon Do (HF) (2)

Develop balance, coordination, agility, spatial awareness, strength, and flexibility through the Korean art of Tae Kwon Do. Students will work at their own level of fitness.

# PE 159

# Intermediate Tae Kwon Do (2)

Further development of the techniques, forms, the sport, and self-defense aspects required to advance to blue belt in the Korean martial art of Tae Kwon Do.

#### PE 160

# Advanced Tae Kwon Do (2)

Further development of the techniques, forms, the sport, and self-defense aspects required to advance to blue and orange belt in the Korean martial art of Tae Kwon Do.

#### PE 162

#### Softball Fundamentals (1)

A mental and physical approach to the fundamentals of fast pitch softball. An emphasis will be placed on the basic skills and concepts needed to play the game effectively.

#### PF 163

# Step Aerobics (HF) (1)

Combines simple, low impact step movements with music to improve cardiovascular endurance, flexibility and body composition.

#### PE 164

# Softball Theory (3)

An analysis of the mental approach to the game of softball. An emphasis will be placed on the theories and strategies of fast pitch.

#### PE 165

#### Softball Applications I (3)

Learn how to apply the fundamentals of softball in game like situations.

#### PE 166

#### **Baseball Fundamentals (1)**

On-the-field practice in development of the basic fundamentals of baseball. Emphasis on basic skills and conditioning.

#### PE 167

#### **Basketball Fundamentals (1)**

This course will implement basic fundamentals with theory of various phases of the game. Conditioning for a lifetime activity is an important aspect of the course.

# P E 168

# Lifetime Fitness (HF) (2)

Cardiovascular endurance, muscle fitness, weight management and flexibility will be studied. One lecture hour and two hours of activity per week.

#### P F 160

# Cardio Kickboxing (HF) (1)

Designed to offer high-impact aerobic conditioning. Each week new basic body moves and techniques introduced to improve the individual's level of fitness.

#### PE 172

#### Theory of Baseball (3)

A practical course with emphasis on the coaching of offensive and defensive strategies, theory, psychology and basic rules. First class meets in the Gym.

# PE 174

#### Team Games (3)

Planning, organizing and proper supervising of physical education team game activities. Practical experience in presentation, evaluation and safety in team games.

#### PF 175

# Physical Education Activities/Elementary Level (3)

Instruction in organization, skills and rules of various games. Opportunity for planning, organizing, creating and leading activities suitable for elementary and middle school age levels.

#### P E 180

# Officiating Basketball (3)

A course designed for physical education and recreation majors. Presentation of rules and techniques involved in officiating basketball. Practical officiating experience in a laboratory situation to be included

#### PE 181

# Officiating Team Sports (2)

Designed to present the rules and techniques involved in officiating basketball, volleyball, and soccer. Required for Physical Education Teaching majors but open to the public. Practical officiating experience in a laboratory situation to be included.

# P E 203

# Advanced Basketball (1)

This course will review basic skills and techniques of basketball. Included in the course also will be advanced skills and techniques along with game strategies, team offense, and team defense. Prerequisites: PE 103 or instructor permission.

# P E 209

# Advanced Golf (1)

The course is designed to help the individual develop more advanced skills and strategies of golf. Prerequisite: PE 109 or instructor permission. First class meets in the Gym.

#### PE210

#### Advanced Physical Fitness (HF) (1)

Designed to continue the individual's personal health-related physical fitness - cardiovascular endurance, muscular strength, muscular endurance, body composition and flexibility. Students will be encouraged to work at their own level of fitness. Prerequisite: PE 110 or instructor permission.

#### PE 213

#### **Advanced Tennis (1)**

For students who are more advanced than the beginning level in tennis. First class will meet in the gym classroom. Borst Court will be used.

#### PE 215

# **Advanced Volleyball (1)**

Advanced techniques and skills included in competitive volleyball. Advanced offensive and defensive tactics and strategy will be covered. Prerequisite: PE 115 or instructor permission.

#### PF 223

# Advanced Weight Training (HF) (1)

Advanced weight training methods and programs including Olympic lifting and power lifting programs. Prerequisite: PE 123.

#### P E 228

#### **Advanced Modern Dance (1)**

The development of creative dance movements with emphasis on form and choreography. Prerequisite: PE 128 or instructor permission.

#### P E 229

# Physical Fitness Concepts (HF) (3)

A combination of theory and practice in the development of physical fitness. Two lecture hours and two activity hours per week.

#### P E 230

#### **Advanced Basketball Applications (3)**

A course designed to provide experiences in advanced strategies, advanced fundamental skills, and advanced team concepts of basketball. Prerequisite: PE 130 or instructor permission.

## P E 231

#### **Baseball Application II (3)**

Learn advanced techniques and strategies in a practice or game situation with an advanced emphasis on fundamentals, conditioning, team concept and sportsmanship. Prerequisite: PE 131 or instructor permission.

#### P E 239

# **Advanced Volleyball Applications (3)**

Provides experiences in advanced techniques and tactics needed to execute advanced team concepts of volleyball.

#### P F 251

# Advanced Aerobic Fitness/Walking (HF) (1)

Advanced aerobic conditioning class for the well-conditioned aerobic athlete. Prerequisite: PE 151.

#### P E 262

#### **Advanced Softball Fundamentals (1)**

Continuation of the physical and mental skills needed for playing fast pitch softball. Emphasis will be on a variety of strategies utilized in the game of softball.

#### PE 263

# Advanced Step Aerobics (HF) (1)

Combines simple, low impact step movements with music to improve cardiovascular endurance, flexibility, and body composition. Prerequisite: PE 163.

#### PF 264

# Advanced Softball Theory (3)

An advanced analysis of the mental approach to the game of softball. An emphasis will be placed on the theories and strategies of fast-pitch. Prerequisite: PE 164.

#### P E 265

# **Softball Applications II (3)**

Learn how to apply the advanced techniques of softball in gamelike situations. Prerequisite: PE 165 or instructor permission.

#### P E 266

# **Advanced Baseball Fundamentals (1)**

On the field practice in development of the advanced fundamentals of baseball. Emphasis on advanced skills, strategies, and techniques. Prerequisite: PE 166 or instructor permission.

#### PE 267

#### Advanced Basketball Fundamentals (1)

More advanced skills practiced. Prerequisite: PE 167 or instructor permission.

#### PF 269

## Advanced Cardio Kickboxing (HF) (1)

Designed to offer high-impact aerobic conditioning with the addition of hand weights. Each week more involved forms of body moves and techniques introduced to improve the individual's level of cardiovascular fitness. Prerequisite: PE 169.

# P E 271

# PE Practicum I (1)

Physical Education Majors will observe K-6 Physical Education teachers. Exercise Science Majors will observe a commercial Fitness Center. Both majors will attend seminars to discuss their findings. Prerequisite: EDUC 201 or concurrent enrollment or instructor permission.

#### P E 272

# **Physical Education Practicum II (1)**

Physical Education Majors will observe Middle School Physical Education teachers. Exercise Science Majors will observe a medical setting. Both majors will attend seminars to discuss their findings. Prerequisite: PE 271 or instructor permission.

#### P E 273

# **Physical Education Practicum III (1)**

Physical Education Majors will observe Physical Education teachers in the high school setting. Exercise Science Majors will observe a community recreation program. Both majors will attend seminars to discuss their findings. Prerequisite: PE 272 or instructor permission.

#### PE 275

# Prevention and Care of Athletic Injuries (3)

The prevention, recognition, and care of athletic injuries.

# **PHYSICS**

#### PHYS& 110

Physics: Non-Science Majors w/lab (formerly PHYS& 100) (S) (5)

A survey of physics with applications in everyday life for non-science majors. Basic concepts in Newtonian mechanics, thermodynamics, electricity, magnetism, optics, and modern physics. Requires knowledge of basic algebra. Includes a 2 hour lab.

#### PHYS& 114

#### General Physics I w/lab (S) (5)

Fundamentals of classical mechanics. The first of a three quarter sequence for science majors not requiring calculus based physics. Classical mechanics including statics and dynamics of particles, rigid bodies, and fluids. Prerequisite: two years HS algebra and trigonometry or concurrent enrollment in MATH 110.

#### PHYS& 115

# General Physics II w/lab (S) (5)

Fluids, electrostatics, simple circuits, and the fundamental laws of thermodynamics. A continuation of PHYS& 114. Prerequisite: PHYS& 114.

# PHYS& 116

# General Physics III w/lab (S) (5)

Magnetism and A.C. circuits, optics, and modern physics. Includes Laws of Faraday, Lenz, and Ampere, geometrical and physical optics, special relativity, atomic and nuclear physics. A continuation of PHYS& 114 and PHYS& 115. Prerequisite: PHYS& 115.

#### PHYS& 221

#### Engineering Physics I (S) (5)

First in a three quarter calculus-based sequence for science and engineering majors stressing classical mechanics. Include dynamics of translational, rotation, and oscillatory systems of solids, particles and fluids. Prerequisite: MATH& 151 and corequisite: MATH& 152

#### PHYS& 222

## Engineering Physics II w/lab (S) (5)

Wave motion, thermodynamics, and electrostatics. Includes sound, heat transfer, law of thermodynamics, and electric fields. Prerequisite: PHYS& 221 and MATH& 152 and corequisite: MATH& 153

#### PHYS& 223

# **Engineering Physics III (S) (5)**

Optics modern physics, electricity and magnetism. Includes geometrical and physical optics, Maxwell's equations, AC/DC circuits and special relativity. Prerequisite: PHYS& 222 and MATH& 153.

#### **PHYS 270**

# Research in Physics (1-12)

Design a research project, set up experiments, collect data in the lab or in the field, and/or analyze data. Each credit hour requires 33 hours of activity per quarter. Prerequisite: instructor permission.

# **POLITICAL SCIENCE**

#### POLS& 101

# Introduction Political Science (SS) (5)

Exploration of the fundamentals of political science: key concepts, principles, and theories. Analyze why and how leaders make the decisions they do, and why citizens obey most of these decisions.

#### POLS& 202

#### American Government (SS) (5)

Students will examine the American political structure and its ideological roots. We will explore how the structure is organized and how it operates.

#### POLS& 204

# **Comparative Government (D) (SS) (5)**

Examine political theory and application within a comparative framework: ideology, nature of participation, as well as a variety of governmental structures, and functions. Contemporary situations will provide the cases for example and analysis.

#### POLS 220

#### **International Terrorism (5)**

An introduction to terrorism in contemporary society, focusing on the underlying political, social, economic, cultural and religious causes, its use as a political tool and measures to be taken to counter and prevent its use.

#### **POLS 280**

## History of American Foreign Relations (SS) (5)

Survey of American foreign relations from the 17th to 21st centuries, focusing on such issues as national security, economic needs capitalism, and democracy and imperialism.

# **PSYCHOLOGY**

## PSYC& 100

#### General Psychology (SS) (5)

An introduction to the scientific study of behavior: history, research methods, biology of behavior, lifespan development, sensation and perception, learning, memory, intelligence, motivation, emotion, personality, psychological disorders and therapies, and social psychology.

#### PSYC& 200

# Lifespan Psychology (SS) (5)

Human development from conception to death. Basic concepts and principles of biological, cognitive, and psychosocial development are integrated for each age period. Typical developmental tasks as well as problems are emphasized. Prerequisite: PSYC& 100 or instructor permission.

# PSYC 202

# Biopsychology (5)

Biopsychology, studies the branch of neuroscience that explains human behavior in terms of the biology of the brain, including mechanisms that produce motivation, emotion, and aggression. Prerequisite: PSYC& 100.

#### PSYC 209

#### Research Methods (5)

Overview of scientific method, major research designs, statistical concepts and utilization of materials related to scientific journals. Prerequisites: PSYC& 100 (may be currently enrolled), eligible for ENGL& 101 and college-level math.

#### PSYC 210

# **Introduction to Personality (5)**

An introduction to the study of personality, including major theories, with a focus on basic principles of psychology and their application to personality development, personal growth and psychological adjustment. Prerequisite: PSYC& 100 or instructor permission.

#### **PSYC& 220**

# **Abnormal Psychology (5)**

An introduction to the study of abnormal behavior, including behavioral problems, personality disorders and maladjustment, and the study of the causes, diagnoses, and treatment. Prerequisite: PSYC& 100 or instructor permission.

#### PSYC 250

# Social Psychology (5)

The scientific study of how a person's thoughts, emotions and behaviors are influenced by other people. Includes an exploration of: propaganda, persuasion, social cognition, human aggression, prejudice, love, and interpersonal sensitivity. Prerequisite: PSYC& 100 or instructor permission.

# READING

#### RFAD 096

# Independent Study (1-5)

Individualized instruction for the student whose needs are not currently being met by the available course offerings. Specialized curriculum and instruction are developed to meet each student's needs. Permission of instructor only.

#### **READ 097**

# Specific Reading Skill Development (1-3)

This course is designed to provide students with opportunities to improve their reading specifically identified areas of need. Comprehension building, word attack skills, and content area reading are a few of the specific areas that can be targeted by this class.

#### **READ 099**

# Improvement of Reading (1-5)

Students strengthen thinking, reading comprehension, and vocabulary skills in learning to read and study textbooks, writing summaries, note taking, and test taking. Completion of course satisfies the basic skill deficiency in reading. Prerequisite: ASSET placement (reading) 33-41.

#### **READ 100**

# **Technical Reading (3)**

Designed to teach discipline-specific reading strategies useful to students in both vocational and academic areas. It will also teach awareness of academic though processes and present skills to enhance that thinking process.

#### **READ 110**

# Speed Reading (3)

Self-paced course for students wishing to increase reading rate and comprehension using proper eye movements, improved vocabulary, and correct reading methods based on reading material. Prerequisite: college level reading and vocabulary skills.

# **SCIENCE**

# **SCIE 103**

# Survey of Earth Sciences w/lab (S) (5)

Explores topics in earth sciences: geology, oceanography, meteorology, astronomy. Earthquakes, volcanoes, glaciers, streams, floods, landslides, tides, coastal features, weather and climate, planets and stars. Integrates information about the relationship between humans and the physical environment. Designed for students with little or no science background.

#### **SCIE 104**

#### Introduction to Physical Science w/lab(S) (5)

Study the basic concepts of physical science, learn to apply the scientific method to problem solving and popular science, and apply the scientific methods to a project.

# **SCIE 115**

# Weather and Climate w/lab (S) (5)

Study of Earth's atmosphere, atmospheric processes, weather, climate, and climate history. Experience will be provided in weather map interpretation, use of instruments, forecasting, interpretation of past climate conditions, and hands-on dendrochronology. Prerequisite: MATH 098 or equivalent.

# **SOCIOLOGY**

#### SOC& 101

# Intro to Sociology (SS) (5)

Study of society and human interaction. Topics include social ranking, change, deviance, social control, the creation of thought and personality, groups, institutions, political and economic power, social movements, and how to gather valid sociological information.

# SOC 125

# Sociology of the Family (SS) (5)

Introduction to the study of the family as a social institution. An overview of social theories and methodological underpinnings will be included.

## SOC 190

# **Cooperative Work Experience (1-12)**

See description under COOP 190 for additional information.

#### SOC& 201

# Social Problems (SS) (5)

Investigate problems within society and how we view certain social conditions as social problems. Topics include technology, environment, population, economy, class, race/ethnic relations, sexism, ageism, family problems, education, cities, deviance, crime, mental health, physical health.

SOC 225

# Cultural & Ethnic Pluralism in Contemporary Society (D) (SS) (5)

Examine ethnicity, ethnic identity, and cultural characteristics of ethnic and social groups in North America and around the world. Understand the relationship between social organization and forms of social, economic, and political domination and subordination.

# **SPANISH**

**SPAN 105** 

# **Spanish for Public Service (3)**

Basic Spanish to meet the needs of working professionals who wish to communicate with Spanish speaking persons.

SPAN 106 & 107

# Spanish for Social Services (3)

Basic Spanish to meet the needs of working professionals who wish to communicate with Spanish speaking persons.

SPAN& 121, 122, 123

# Spanish I-III (H) (5)

Learn the fundamental skills of listening comprehension, speaking, reading and writing. Develop an awareness of Spanish speaking countries and their cultures. Compact discs are used outside of class to promote oral proficiency.

SPAN& 221, 222, 223

## Spanish IV -VI (H) (5)

Discuss Hispanic cultures in Spanish, develop oral and written skills, review and expand essential points of grammar, and build vocabulary. Prerequisite: SPAN& 123 or permission of instructor.

# **SPEECH**

**SPEE 101** 

# Fundamentals of Public Speaking (H) (3)

A course focusing on development, preparation, and delivery skills for beginning public speakers. Attention given to anxiety reduction techniques in addition to the preparation and use of visual aids in informative and persuasive speeches.

# STUDENT DEVELOPMENT

SDEV 097

# Intro to Online Learning (0)

Students work in an online environment to communicate with others, submit homework, view lessons and correctly configure technology.

SDEV 099

#### Study Skills (1-5)

Students learn essential skills needed for effective study. Course includes learning style assessment, time management, study reading, memory techniques, test-taking strategies, and research techniques.

SDFV 100

#### Start Smart (1)

A seminar for new students on college expectations and communication and technological skills for college. Introduction to academically related technology. Students will participate in small group activities, reading, writing and discussion exercises and practice accessing on-line resources.

**SDEV 101** 

# Centralia College 101 (1)

An orientation class emphasizing utilization of campus resources and offering multiple workshops on library research skills, note taking, test taking, stress management, reading skills and memory improvement.

**SDEV 105** 

# **Career Planning (2)**

Students identify their interests, skills and abilities and evaluate their personality styles, values and work environments as they relate to careers. Activities include interest inventory test, computer programs, job market research and informational interviewing. The format is lecture, discussion, group activities and individual projects.

**SDEV 126** 

## **Career Workshops (1)**

Nine workshops cover analyzing peoples' interests, values, aptitudes and personalities as they relate to career success. Includes career information, transfer information, resume writing, interviewing, placement and workforce trends.

**SDEV 150** 

#### Student Success (3)

College success strategies; goal-setting, time management, memory improvement, textbook reading strategies, note-taking, test-taking, project management. Taught by lecture, group and individual work. Includes Saturday field trip for challenge course activities.

**SDEV 155** 

#### College Success (5)

Major topics include setting academic, career and personal goals; effective communication and presentation skills; study, research and test-taking strategies; critical thinking; note taking and memory improvement. Includes Saturday field trip for challenge course activity.

#### **SDEV 166**

#### Stress Management for Test Anxiety (2)

Identify causes of stress and physical and emotional sideeffects. Learn methods for reducing stress, including progressive relaxation, meditation, biofeedback, cognitive analysis, and nutrition and exercise strategies. Management of test and math anxiety is emphasized.

# WELDING

## **WELD 126**

# **Industrial Drafting (2)**

Basic concepts in developing working drawings for use in industry. Emphasis is on the use of freehand sketching and drawing instruments to produce drawings of three-dimensional objects. Also included is basic dimensioning and pictorial drawing.

#### WELD 151

### Welding Theory for Mechanics (1-3)

Introduction to principles of gas and arc welding and cutting processes. Includes information in welding equipment and material, various welding techniques and proper safety procedures. Corequisite: concurrent enrollment in WELD 152 or instructor permission.

#### WELD 152

# Welding Procedures for Mechanics (1-5)

Practical application of welding and cutting techniques using oxyacetylene and electric arc welding equipment. Metal preparation, layout, and weldment testing included. Concurrent enrollment in WELD 151 required.

# WELD 159

# Oxyfuel and GTAW Theory (4)

Theory of oxyacetylene welding, brazing, cutting and gas tungsten arc welding theory. Topics: safety practices for equipment operation, handling and use of compressed gases, identification of filler rods, base metals, types of weld joints, and procedures. Concurrent enrollment in WELD 160 or permission of instructor required.

# WELD 160

# Oxyfuel and GTAW Lab (9)

Consists of oxyacetylene welding, brazing, cutting and gas tungsten arc welding lab exercises. Expand on theories taught in WELD 159. Welding demonstrations and practice are on butt, lap, tee, and corner joints in all positions. Prerequisite: WELD 159.

# **WELD 161**

# Shielded Metal-Arc Welding (SMAW) Theory (4)

Theory related to shielded metal arc welding safety, joint design, electrode selection, welding machine setup and welding operations in all positions. Correct procedures for airarc cutting and weld testing will also be covered.

#### WELD 162

#### Arc Welding Lab (9)

Shielded metal-arc welding safety, machine setup and welding procedures. Shielded metal-arc welding practices include welding butt, lap, tee and corner joints in all positions. Weld testing and air carbon arc cutting included. Prerequisite: WELD 161

#### **WELD 164**

# M.I.G. Welding Theory (4)

Theory related to gas metal-arc welding (GMAW) and flux cored arc welding (FCAW); process and shop safety; machine setup, operation and troubleshooting; welding procedures and techniques; filler electrode selection and AWS weld testing.

#### **WELD 165**

# **Gas Shielded Arc Welding Lab (6)**

Welding lab consists of GMAW and FCAW gas shielded arc welding instruction, practices and procedures on butt, lap, tee, and corner joints in all positions on steel. Also includes GMAW with aluminum.

#### **WELD 167**

# **Metallurgy for Welders (4)**

Study of metals relevant to welding technology, extraction of metals from ores, refining metals, the manufacture of metal products, mechanical, physical and chemical properties of metals and the hardening, tempering and heat treating of metals.

#### **WELD 180**

# Oxyacetylene and Gas Tungsten Arc Welding (5)

Safety, setup, brazing, cutting, and welding in all positions using oxyacetylene and gas tungsten arc welding equipment.

#### WELD 181

# Shielded Metal Arc Welding (5)

Safety, setup, and welding in all positions using AC/DC arc welding equipment.

# WELD 182

# Gas Metal Arc Welding (5)

Safety, setup, and welding in all positions using gas metal arc welding equipment.

#### WELD 190

# **Cooperative Work Experience (1-12)**

See description under COOP 190 for additional information.

#### WELD 265

#### **Advanced Arc Welding Theory (4)**

Outline practices and procedures to follow to prepare for Washington Association of Building Officials (WABO) certification test on plate and pipe. Included are layout procedures, cutting, fitting, inspection, physical testing, and troubleshooting of welding problems. Corequisite: WELD 266; Prerequisite: WELD 161.

#### WFI D 266

#### Advanced Arc Welding Lab (9)

Practical exercises enable students to prepare for the Washington Association of Building Officials (WABO) tests. Includes shielded metal arc welding of test plates and pipe in all positions. Concurrent enrollment in WELD 265 or permission of instructor is required. Prerequisite WELD 160 and 161.

#### **WELD 267**

# Advanced Gas Shielded Arc Welding Theory (4)

Procedures to prepare for the Washington Association of Building Officials tests in Gas Metal Arc. Flux Cored Arc, and Gas Tungsten Arc Welding. Equipment setup, base and filter metal selection, pipe layout and fitting procedures. Prerequisite: WELD 164 and 165 or permission of instructor.

#### **WELD 268**

### **Gas Shielded Arc Welding (9)**

Exercises enable students to prepare for the Washington Association of Building Officials tests. Includes Gas Metal Arc, Flux Cored Arc and Gas Tungsten Arc Welding on test plates and pipe in all positions; Oxy fuel introduced. Concurrent enrollment in WELD 267. Prerequisite: WELD 164 or permission of instructor.

#### **WELD 269**

# Adv. Fabrication and Welding Theory (4)

Fabrication and fitting tools, setup and procedures. Correct steps to follow when designing, cost estimating, and planning a large scale welding project. Blueprint interpretation and the completion of scale drawing will also be required. Prerequisite: WELD 267 or permission of instructor.

#### WFI D 270

# Advanced Fabrication and Welding Procedure Lab (6)

Fabrication and fitting tools, setup, and procedures. Butt and tee joint will be required in the flat position using various welding processes. Students will have the opportunity to work on individual projects. Prerequisite: WELD 268 or permission of instructor. Corequisite: WELD 269.

#### WELD 271

## **Blueprint Reading for Welders (4)**

Fundamentals of drawing interpretation in the welding trade. Included are blueprint reading, welding symbols, fabrication techniques, identification of welds, and welding abbreviations.

#### WELD 281

# Adv. Gas Metal Arc Welding - Aluminum (5)

Provides a thorough understanding of welding safety and gas metal arc welding of aluminum. Prerequisite: WELD 165, WELD 181 or prior welding experience with permission of instructor.

#### WFI D 285

# **Arc Welding Certification (5)**

Practical exercises enable students to prepare for the Washington Association of Building Officials (WABO) certification tests in gas metal arc welding (GMAW), flux cored arc welding (FCAW), and shielded metal arc welding (SMAW). Prerequisite: prior welding experience required.

#### WELD 287

#### Welding Fabrication (5)

Fabrication and fitting tools, setup and procedures. Students have the opportunity to work on individual projects and/ or cooperative work experience. Prerequisite: prior welding experience required.

# **ZOOLOGY**

## ZOOL 221

#### Basic Anatomy and Physiology (3)

Survey of basic human structure and function including tissues, organ systems, growth and development, and genetics. Does not meet the requirements for most nursing and health sciences programs, but good preparation for BIOL 241, 242, and 243. BIOL 105 or BIOL 130 recommended.

# **APPLIED BACCALAUREATE PROGRAMS**

# Bachelor of Applied Science (BAS) Degree Programs

# WHAT IS A BACHELOR OF APPLIED SCIENCE (BAS) DEGREE?

A traditional bachelor degree requires general education classes from many disciplines and is designed to provide students a wide base of knowledge, allowing them to concentrate their education in the third or fourth year of their education. A BAS degree gives students the chance to focus their education on their specific educational and career goals early within your education and incorporates more practical and concentrated hands-on learning in a specific industry or the career of their choice.

# The Bachelor of Applied Science in Applied Management

(BAS-AM) degree at Centralia College is specifically designed for working students throughout the region who want to prepare for management positions in a wide range of business and industry. Students meet on campus just two evenings a week, with the rest of the coursework available online. This hybrid format allows busy professionals and those seeking promotions at their present jobs to achieve the education they need for advancement while continuing to work. With two- and three-year tracks available, a BAS-AM degree at Centralia College is achievable for even the busiest professional.

# The Bachelor of Applied Science in Diesel Technology

(BAS-DT) degree at Centralia College incorporates many of the benefits of an education in advanced diesel technology, then includes leadership and management coursework to prepare students for supervisory and management positions within the diesel industry. In addition to the significant, quality hands-on training they receive in advanced diesel technologies such as alternative fuels, power technology, hybrid technology and others, with a BAS-DT degree from Centralia College, students will be prepared to enter the rapidly advancing diesel industry with the management and supervisory skills they need to set themselves apart as a leader. This program is conducted in face-to-face classes with some courses being web-enhanced.

All BAS degrees are accredited by the regional accreditation body, the Northwest Commission on Colleges and Universities (NWCCU).

# STEPS TO APPLY TO A BACHELOR OF APPLIED SCIENCE PROGRAM

- Review the entrance requirements for the desired program. Refer to www.bachelors.centralia.edu website for a complete list of entrance requirements.
- Complete and submit the application materials for the desired program within the date for priority registration.

# **ADVISING**

Students accepted into a bachelor program will receive quarterly advising from the Associate Dean of BAS Programs or by an appointed faculty advisor.

# REGISTRATION

Students accepted into a BAS Program will be provided registration information quarterly by the office of the Associate Dean of BAS Programs. Registration for 300 and 400 level courses is restricted to students accepted into a BAS Program.

# **TUITION**

The Washington State Board for Community and Technical colleges sets the tuition rate for Applied Baccalaureate programs. Refer to www.bachelors.centralia.edu website for current rates.

# FINANCIAL AID & SCHOLARSHIPS

Please see page 14-15 of the catalog for information on applying for financial aid and scholarships.

#### MINIMUM CENTRALIA COLLEGE CONTENT

To be eligible for the awarding of a degree, BAS students must complete a minimum of 30 credits of BAS coursework at Centralia College and that coursework must include any of the BAS capstone courses.

# MINIMUM GRADE

The student must achieve a grade of 2.0 or better in each of the upper division courses that comprise the BAS program. No credit is given for any grade lower than 2.0, and if the course is a prerequisite for another BAS course, that prerequisite is not met. A student who earns a grade lower than 2.0 in a BAS course may repeat that course only once. A student who earns grades lower than 2.0 in two or more courses is subject to removal from the program. The Associate Dean of BAS in consultation with the VP Instruction will determine the feasibility of a student repeating more than one BAS course due to a grade less than 2.0

# BAS COURSE ENROLLMENT BY NON-MATRICULATED STUDENTS

The BAS programs are designed for student cohorts who are committed to the attainment of the Bachelor of Applied Science degree. Non-matriculated students may be enrolled in specific courses on a space available basis at the discretion of the respective faculty member and with the concurrence of the Associate Dean of BAS. A maximum of three courses may be taken by any non-matriculated student. Non-matriculated students must meet all of the normal BAS entrance requirements with the exception of the requirement to have an associate degree. Centralia College will consider non-matriculated students for enrollment in 300/400 level courses including:

- Community members employed in the occupation who could benefit from the specific course as an educational or skills upgrade.
- Students with deferred admission status.
- Students seeking future admission interested in trying an upper division course before applying to the program.
- Students in related lower division programs who use the 300 or 400 level courses as electives or substitutes for required courses in the associate degree.

# **CONTACT INFORMATION**

# **Connie Smejkal**

Associate Dean, Baccalaureate Programs 360-736-9391 ext. 432 bachelors@centralia.edu Walton Science Center, Room 120



# **BACHELOR OF APPLIED SCIENCE IN APPLIED MANAGEMENT (BAS-AM)**

The Bachelor of Applied Science in Applied Management (BAS-AM) degree is designed to provide a rigorous educational experience that fulfills the program's mission.

The mission is to ensure that graduates of the Centralia College Bachelor of Applied Science in Applied Management degree program will have the qualifications for entry into or promotion into management positions in a wide range of business or industries. Graduates will acquire skills to improve the success of small business or entrepreneurial ventures.

Centralia College's Bachelor of Applied Science in Applied Management (BAS-AM) builds on an existing Associate in Arts, Associate in Applied Science, or Associate in Applied Science-Transfer adding upper division coursework to complete a four-year degree. Applicants are accepted for the fall quarter of each year. The BAS-AM operates as a cohort-based program with all students starting in fall quarter and completing the program in either two years (six quarters) or three years (nine quarters).

The BAS-AM degree program is designed to meet employment needs of the Centralia College service area and to provide program graduates the knowledge and skills needed to move into or advance in management and supervisory positions as well as to become entrepreneurs.

All classes are conducted using the hybrid modality with each class meeting on campus for one two-hour period in the evening each week. Classes are on Tuesdays from 5-7 p.m., 7-9 p.m. and Thursdays from 6-8 p.m. The balance of class work is online.

Admission into the BAS-AM program is competitive and merit based. Meeting the minimum entrance requirements does not guarantee admission as the number of qualified applicants may exceed the number of available enrollment spaces. In order to be placed into the admissions pool, applicants must complete or submit the following:

- All BAS application materials
- An earned associate's or higher degree from a regionally accredited college or university with a minimum cumulative GPA of 2.5.

The following courses must be completed prior to bachelor degree obtainment. The courses can be included in the two-year degree or be completed during the bachelor's program in addition to the required courses. Students who have completed the requirements at the time of application will receive preferred entrance consideration.

Successful completion of each of these required courses with a minimum 2.0 grade:

- English 101 English Composition (5 credits).
- College-level math course for which intermediate algebra is a prerequisite (5 credits).
- Social science course (5 credits).
- Natural science course (5 credits).
- Five additional general education requirements.

Additional consideration will be given to applicants in the admissions pool who have successfully completed (2.0 grade minimum) these recommended courses:

- English 102 Composition II (5 credits) or English 235 Technical Writing (5 credits).
- CMST& 220 Public Speaking (Formerly known as Speech 110 – Principles of Speech Communication [5 credits] or Speech 220 – Theory and Practice of Public Speaking [5 credits])
- ACCT& 201, 202 Principles of Accounting I & II (prerequisites for BACCT 301, 302, 401, 402, 403)

# **DEGREE REQUIREMENTS**

To qualify for a Bachelor of Applied Science – Applied Management degree, students must complete a minimum of 180 credits in courses numbered 100 and above of which 90 credits must be BAS courses all of which are numbered 300 or above. Students must have a cumulative grade point average (GPA) of at least a 2.0 ("C" average) for the BAS courses and all credits at the 300 or above levels must have been earned with a minimum grade of 2.0 in each course. The 180 credits must include the following general education requirements

# **GENERAL EDUCATION REOUIREMENTS:**

# **Foundation Coursework from Associate Degree**

- ENGL& 101 English Composition
- Social Science course
- College-Level Math with prerequisite of intermediate algebra
- Physical, biological or earth science (lab course)
- Five additional credits in general education in one of the above distribution areas is required for admission

# **BAS-AM general education coursework**

- BCMST 330 Professional and Organizational Communications
- BHUM 315 Ethics
- BMGMT 325 Legal Issues
- BMGMT 320 Leadership and Organizational Behavior
- BECON 305 Managerial Economics
- BMATH 350 Managerial Statistics
- BENVS 440 Environmental Issues

# **Management Core Coursework**

- BMGMT 300 Foundations of Management
- BMGMT 340 Applied Financial Management
- BMGMT 370 Practicum
- BMGMT 420 Human Resource Management
- BMGMT 470 Management Internship
- BMGMT 490 Strategic Management and Policy

#### BAS Electives (must take 5)

- BACCT 310 Accounting Principles for Managers
- BACCT 401 Governmental Accounting\*
- BMGMT 380 Marketing for Managers
- BACCT 402 Audit & Fraud\*
- BMGMT 360 Business Principles, Planning & Strategy
- BACCT 301 Intermediate Accounting I\*
- BMGMT 410 Project Management
- BACCT 302 Intermediate Accounting II\*
- BMGMT 435 Operations Management
- BACCT 403 Issues in Federal Taxation\*
- \* Prerequisite ACCT &201 and 202.

# **MANAGEMENT (BAS-AM) PROGRAM OF STUDY**

**Emphasis:** Applied Management **Degree:** Bachelor of Applied Science

**PURPOSE:** The BAS-AM program is designed to provide a rigorous educational experience to graduate individuals who are well-grounded in management knowledge and ethical values, who possess the requisite skills in communications, teamwork, and business fundamentals, and who are ready to provide leadership and effective decision-making to both existing and startup organizations.

**PROGRAM OUTCOMES:** Students who successfully complete this program should be able to:

# (A) Communication Skills

- Employ effective oral, written and analytical communication appropriate to organizational settings.
- Recognize communication issues in organizations and apply communication concepts to explain and manage such issues.
- Analyze and apply communication skills in human resource management, negotiations and small and large group discussions.

# (B) Decision-making

- Differentiate among decision-making strategies and their application in management and analyze the institutional resource commitment required by different decisions.
- Apply analytical tools and quality information resources in the decision making process.
- Design evaluation strategies that will be integrated into business practices to foster continuous improvement.

#### (C) Diversity

- Articulate the benefits of diverse populations contributing diverse perspectives for better management decisions.
- Articulate the ethical issues with regard to community diverse populations that go beyond legal considerations.
- Analyze workplace scenarios to show how careful attention to members of a diverse population can result in significant competitive advantages.
- Access and articulate the key laws and regulations that structure personnel standards and guide management actions.
- Articulate how organizations can move from accommodation, to inclusion, to aggressive recruitment to attain a competitive advantage.

# (D) Finance and Analytics

- Locate information using a variety of media and technologies and evaluate their reliability and usefulness.
- Design statistical models and apply standard statistical techniques to gather and analyze data in support of business decision-making and process refinement.
- Apply managerial accounting tools in the development and analysis of capital and operating budgets.
- Analyze financing options and avenues to best meet organizational needs.

# (E) Global Perspectives

- Demonstrate an understanding of the interconnectivity between economies and markets and how overseas events often impact U.S. markets and U.S. businesses.
- Articulate the challenges and financial impacts associated with offshore supply of final goods, raw materials and components.

# (F) Leadership and Management

- Analyze leadership and management practices, roles and styles in business and management situations.
- Work collaboratively in a team setting and identify practices that support and sustain positive team environments.
- Recognize the value of diversity and community involvement in business ventures.

#### (G) Legal Issues & Ethics

- Articulate a personal ethical philosophy and explain its application to the workplace.
- Develop and defend a course of action to address ethical issues in the context of business decision-making.
- Analyze the relationship between business ethics, business law and organizational integrity.
- Evaluate the impact of applicable local, state, and federal laws and regulations to business and management scenarios.
- Apply human resource management laws, principles, and practices in business and organizations.
- Analyze the impact of state and federal laws on management behavior and organizational practices.

#### (H) Operations Management

- Integrate operations management theory into the process for delivering goods and services.
- Apply established marketing principles to guide product and service development as well as the development of marketing plans.
- Apply current technologies to increase effectiveness in the practice of management.

# (I) Strategic Management

- Apply financial management theory and tools in the strategic planning process.
- Use economic theory to explain the influence of local, national, and global economic issues in strategic planning.
- Apply project management concepts to develop a project plan and manage and track a project.
- Demonstrate the value of adjusting marketing strategies based on the analysis of company/product strengths to drive products and/or improve customer service.
- Use economic theory to explain the influence of local, national, and global economic issues in strategic planning.

# (J) Tax & Audit

- Report financial performance in accordance with accounting principles required in tax, commercial, or government conceptual frameworks.
- Apply audit procedures necessary in creating reasonable assurance as it pertains to financial performance presentation.

# REOUIRED COURSE SCHEDULE

# Two-Year Track (subject to change)

Fall Quarter, Firs	t Year Credits			
BMGMT 300	Foundations of Management5			
BMGMT 320	Leadership & Org. Behavior5			
BMGMT 380	Marketing for Managers*OR			
BACCT 402	Audit & Fraud*5			
	15			
Winter Quarter, I	First Year Credits			
BHUM 315	Ethics5			
BCMST 330	Pro. & Org. Communication5			
BMGMT 420	Mgmt of Human Resources5			
	15			
Spring Quarter, I	Spring Quarter, First Year Credits			
BACCT 310	Accounting Principles for Mgrs*OR			
BACCT 401	Governmental Accounting*5			
BMGMT 325	Legal Issues5			
BMGMT 370	Practicum in Management5			
	15			
Fall Quarter, Second Year Credits				
Fall Quarter, Sec	ond Year Credits			
Fall Quarter, Sec BECON 305	ond Year Credits Managerial Economics5			
BECON 305	Managerial Economics5			
BECON 305 BMGMT 340	Managerial Economics5 Applied Financial Mgmt5			
BECON 305 BMGMT 340 BMGMT 360	Managerial Economics5 Applied Financial Mgmt5 Business Principles, Planning & Strategy*OR			
BECON 305 BMGMT 340 BMGMT 360	Managerial Economics			
BECON 305 BMGMT 340 BMGMT 360 BACCT 301	Managerial Economics			
BECON 305 BMGMT 340 BMGMT 360 BACCT 301	Managerial Economics			
BECON 305 BMGMT 340 BMGMT 360 BACCT 301 Winter Quarter, 5 BMATH 350	Managerial Economics			
BECON 305 BMGMT 340 BMGMT 360 BACCT 301 Winter Quarter, 5 BMATH 350 BMGMT 490	Managerial Economics			
BECON 305 BMGMT 340 BMGMT 360 BACCT 301 Winter Quarter, 3 BMATH 350 BMGMT 490 BMGMT 410	Managerial Economics			
BECON 305 BMGMT 340 BMGMT 360 BACCT 301  Winter Quarter, 5 BMATH 350 BMGMT 490 BMGMT 410 BACCT 302	Managerial Economics			
BECON 305 BMGMT 340 BMGMT 360 BACCT 301  Winter Quarter, 5 BMATH 350 BMGMT 490 BMGMT 410 BACCT 302  Spring Quarter, 5 BMGMT 470	Managerial Economics			
BECON 305 BMGMT 340 BMGMT 360 BACCT 301  Winter Quarter, S BMGMT 490 BMGMT 410 BACCT 302  Spring Quarter, S BMGMT 470 BENVS 440	Managerial Economics			
BECON 305 BMGMT 340 BMGMT 360 BACCT 301  Winter Quarter, 3 BMGMT 490 BMGMT 410 BACCT 302  Spring Quarter, 3 BMGMT 470 BENVS 440 BMGMT 435	Managerial Economics			
BECON 305 BMGMT 340 BMGMT 360 BACCT 301  Winter Quarter, S BMGMT 490 BMGMT 410 BACCT 302  Spring Quarter, S BMGMT 470 BENVS 440	Managerial Economics			

<sup>\*</sup> Required elective courses – students must complete five. Students interested in completing the accounting concentration should complete BACCT 301, 302, 401, 402, 403.



# REQUIRED COURSE SCHEDULE

# THREE-year track

Fall Quarter, First Year Credits					
	Foundations of Mgmt	5			
	Leadership & Org. Behavior				
	, ,	10			
Winter Quarter, First Year					
BHUM 315	Ethics	5			
BCMST 330	Prof. & Org. Communication	5			
		10			
Spring Quarter, First Year					
	Accounting Principles for Mgrs*.	OR			
BACCT 401	Governmental Accounting*	5			
	Practicum in Management				
	, and the second	10			
Fall Quarter, Second Year		Credits			
BECON 305	Managerial Economics				
	Marketing for Managers*				
BACCT 402	Audit & Fraud*	5			
		10			
Winter Quarter, Second Year Cre					
	Mgmt of Human Resources				
BMGMT 435	Strategic Mgmt & Policy				
		10			
Spring Quarter, Second Year		Credits			
BMGMT 325	Legal Issues	5			
BENVS 440	Environmental Issues	5			
		10			
Fall Quarter, Third Year		Credits			
	Applied Financial Mgmt				
	Business Principles*				
BACCT 301					
J. 1001		10			
Winter Quarter, Third Year Credits					
BMATH 350	Managerial Statistics	5			
BMGMT 410	Project Management*				
BACCT 302	Intermediate Accounting II*				
	J	10			
	Spring Quarter, Third Year Credits				
BMGMT 470	Applied Mgmt Internship				
BMGMT 435	Operations Mgmt				
BACCT 403	Issues in Federal Taxation	5			
		10			

\* Required elective courses -students must complete five. Students interested in completing the accounting concentration should complete BACCT 301, 302, 401, 402, 403.

# **BAS APPLIED MANAGEMENT COURSE DESCRIPTIONS**

#### BMGMT 300

# Foundations of Management (5)

Foundation course that explores organizational theory and introduces the principles and concepts of effective management including planning, organizing, leading and controlling. Effective decision-making, conflict resolution, change management and motivating employees will be discussed.

#### BECON 305

# **Managerial Economics (5)**

This course surveys economic condition and the application of tasks normally associated with a corporate economist. Topics of study include free market economies, supply and demand, regulation, inflation, price elasticity, and comparative advantage.

#### BACCT 310

# **Accounting Principles for Managers (5)**

Foundation course in accounting principles from a management perspective. Analyze the interrelationships of financial statements and cost behavior to measure and control the performance of a business entity, and make decisions based on this information.

#### **BHUM 315**

#### Ethics (5)

Foundation course in ethics as applied to businesses and organizations related to management issues. Students will explore theoretical concepts in business ethics and apply them to real-world situations based on challenges managers face.

# BMGMT 320

# Leadership & Org. Behavior (5)

Relate theory and research to organizational problems by reviewing advanced concepts in motivation, perception, leadership, decision-making, communication and influence, group behavior, diversity, conflict and cooperation, politics, corporate culture, organizational structure, and environmental influences.

# BMGMT 325

# Legal Issues (5)

A core course concerning the impact of laws, regulations and legal responsibilities on management behavior with a focus on the application of this learning to real life situations for organizations both large and small.

#### BCMST 330

# **Prof & Org Communication (5)**

Foundation course designed to develop effective written and verbal communication skills in organizational settings. Students will gain an appreciation for the crucial role communication plays in organizations and how to improve their employability.

# BMGMT 340

# **Applied Financial Management (5)**

Surveys the application of tasks normally associated with the corporate financial manager. Topics of study include planning, controls, capital markets, capital budgeting, capital structure, and working capital management. Prerequisite: BACCT 310 with minimum grade of 2.0.

#### **BMATH 350**

# Managerial Statistics (5)

Statistical analysis techniques will be examined and applied in case studies involving real-world management issues. Students will examine difficulties, subjective decisions, and pitfalls when analyzing data and making inferences from numbers. Prerequisite: QSR math distribution.

#### BMGMT 360

# Bus Principles, Planning & Strategy (5)

Core course in strategy and planning. Topics include: establishing organizational mission, formal planning, strategy formulation, and implementation. Identify strengths, weaknesses, opportunities, and threats facing organizations.

## BMGMT 370

# **Practicum in Management (5)**

This course will explore and build student comprehension of the application of management functions covered in courses via direct interaction between students and local managers and entrepreneurs from private, public and non-profit sectors.

# BMGMT 380

# **Marketing for Managers (5)**

A core course designed to develop the marketing knowledge and skills necessary for the successful manager of a profit or non-profit organization. Students will develop and present a comprehensive marketing plan.

# BMGMT 410

# **Project Management Application (5)**

The theory and practice of project management as it relates to managers. Planning, organizing, securing and managing the human, financial, and physical inputs required to meet project objectives will be covered.

#### BMGMT 420

## Management of Human Resources (5)

Core course in the responsibilities and role of human resource management in today's workplace. Material will concentrate on both regulatory and strategic responsibilities of HR. Topics include recruitment, interviewing, compensation and current HR issues.

#### BMGMT 435

# **Operations Management (5)**

Introduction to the key ideas and techniques used to plan, measure and improve an organization's production of goods and services. Topics explored include process-system modeling, product design/quality, inputs, processes, supplychains, inventory, and people management. Prerequisite: enrollment in BAS-AM or by instructor permission.

#### BFNVS 440

#### **Environmental Issues (5)**

An exploration of environmental issues and their effect on business, communities and consumers. Case studies are used to examine basic concepts of ecology and environmental science as they relate to permitting and other business decisions. Prerequisite: enrollment in BAS-AM or by permission.

#### BMGMT 470

# Management Internship (5)

A capstone course applying BAS-AM program outcomes in an internship with specific outcomes as agreed to by the student, internship provider and instructor. Classes will focus on sharing progress, issues or barriers from the internships. Prerequisite: completion of BAS foundation courses and 30 additional BAS core credits.

# BMGMT 490

# Strategic Management (5)

A capstone course which focuses on the key aspects that must be addressed for sustained organizational success, effective problem solving, and the capture of opportunities from the perspective of the general manager or the entrepreneur.

#### BACCT 301

#### Intermediate Accounting I (5)

The first installment of a two-part course designed to teach a professional level understanding of financial accounting and reporting as it applies to business entities both publically traded and privately held. Prerequisite: enrollment in BAS-AM or by permission.

#### BACCT 302

# Intermediate Accounting II (5)

The second installment of a two-part course designed to teach a professional level understanding of financial accounting and reporting as it applies to business entities both publically traded and privately held. Prerequisite: BACCT 301.

#### BACCT 401

## **Governmental Accounting (5)**

An accounting course as it applies to government and notfor-profit entities. The topics include fund management, budget preparation, presentation of both fund and government-wide financial statements, and not-for-profit entity financial performance. Prerequisite: enrollment in BAS-AM or by permission.

# BACCT 402

# Audit & Fraud (5)

This course is designed to teach the audit environment of professional financial accounting and reporting as it applies to fraud and internal controls. Prerequisite: enrollment in BAS-AM or by permission.

# BACCT 403

# Federal Taxation Issues (5)

This course is designed to teach the application of tax law and internal revenue code used to complete tax returns associated with not-for-profit entities, estates, and trusts. Prerequisite: enrollment in BAS-AM or by permission.

# **BACHELOR OF APPLIED SCIENCE IN DIESEL TECHNOLOGY (BAS-DT)**

Admission into the BAS-DT program is merit-based. Meeting the minimum entrance requirements does not guarantee admission as the number of qualified applicants may exceed the number of available enrollment spaces. In order to be placed into the admissions pool, applicants must complete or submit the following:

- BAS application materials and
- Proof of an earned associate's degree in diesel technology, diesel mechanics, OR equivalent degree and transcripts approved by BAS administration from a regionally accredited college or university with a minimum cumulative GPA of 2.5

The following courses must be completed prior to bachelor degree obtainment. The courses can be included in the two-year degree or be completed during the bachelor's program in addition to the required courses. Students who have completed the requirements at the time of application will receive preferred entrance consideration.

Successful completion of each of these required courses with a minimum 2.0 grade:

- ENGL& 101 English Composition (5 credits)
- Any college level MATH requiring MATH 099 as a prerequisite (such as MATH& 107, MATH& 141, MATH& 146)

To qualify for the Bachelor of Applied Science Diesel Technology, students must complete a minimum of 180 credits in courses numbered 100 and above of which 70 credits must be upper division courses which are numbered 300 or above. Students must have a cumulative grade point average (GPA) of at least a 2.0 ("C" average) for the degree courses and all credits at the 300 or above levels must have been earned with a minimum grade of 2.0 in each course. The 180 credits must include the following:

# **GENERAL EDUCATION REOUIREMENTS**

#### **Communications**

- ENGL& 101 English Composition
- ENGL& 235 Technical Writing

#### **Humanities**

- BHUM 315 Ethics
- Humanities elective

#### **Social Science**

- ECON& 201/202 Micro OR
- Macroeconomics
- PSYC& 100 General Psychology

## Mathematical

- MATH college-level math with prerequisite of intermediate algebra
- BMATH 350 Managerial Statistics

# **Natural Science**

- PHYS& 110 Physics: Non Science major w/lab
- BDET 400 Material Science of Fuels and Lubes w/lab

# **Foundation Coursework from Associate Degree**

#### **Diesel Core Coursework**

- BDET 300 Survey of Business Management
- BDET 310 Electrical III Advanced Circuits
- BDET 320 Exhaust After Treatment/Regulations
- BDET 330 Hydraulics II-Advanced Fluid Systems
- BDET 340 Combustion Engine Fuels
- BDET 350 Applied Failure Analysis
- BDET 360 Power Generation and Maintenance
- BDET 410 Regulatory Issues
- BDET 420 Metallurgy and Fabrication
- BDET 430 Shop/Fleet Management
- BDET 440 Hybrid Drives Electric/Hydraulic
- BDET 450 Internship

# **DIESEL (BAS-DT) PROGRAM OF STUDY**

**Emphasis:** Diesel Technology **Degree:** Bachelor of Applied Science

**PROGRAM OUTCOMES:** Students who successfully complete this program should be able to:

#### **Technical**

- Analysis and evaluation of data Analyze and evaluate data collected from component failures, hydraulic systems, and complex electrical circuits.
- Professional interactions Interact appropriately and professionally with customers and employees.
- Complex system operations Explain the operation of complex systems including: computerized engine and transmission controls used for fuel efficiency and emissions control; regenerative hybrid technologies used to capture energy; multi-fuel technologies to save fuel costs.
- Theory application Apply theories and skills taught in the classroom in a shop environment.
- Shop procedures Create shop procedures that reflect industry standards and maintain compliance with regulations set by governing agencies.
- Fluids analyses Apply the principles of tribology in the analysis of engine efficiency, life, and maintenance costs.
- Analysis of failure modes Analyze test results from oil, coolant, fuel, or emissions analysis systems.

# Managerial

- Policies and practices Implement the practices, policies, and leadership to efficiently operate a fleet or repair facility.
- HR management and ethical principles Apply fundamental principles of human resource management and ethics.
- Communications Employ effective oral, written, and analytical communication appropriate to organizational settings including personnel situations and in large and small group discussions.
- Leadership styles Distinguish between management and leadership, and differentiate among the varieties of styles and roles of management and be able to identify the most appropriate in a given situation.
- Use of teams Create, manage and participative effectively in teams.

Fall Quarter, First Year         Credits           BDET         300         Applied Managmemt         .5           BDET         430         Shop/Fleet Management         .5           ENGL&         101         English Composition I         .0R           College level MATH, if not met         .5           Winter Quarter, First Year         Credits           BDET         330         Hydraulics II         .5           BDET         340         Combustion Engine Fuels         .5           PHYS&         110         Physics: Non-Sci Major w /lab         .5           PSYC&         100         General Psychology         .5           20         Spring Quarter, First Year         Credits           BDET         310         ELectrical III         .5           BDET         360         Power Generation & Maint         .5           BDET         360         Power Generation & Maint         .5           BDET         360         Power Generation & Maint         .5           BDET         450         Internship         .5           BDET         450         Internship         .5           BDET A00         Material Science of Fules/Lubes         .5<					
BDET         430         Shop/Fleet Management			st Year		
ENGL& 101         English Composition I         OR           College level MATH, if not met         5           15           Winter Quarter, First Year         Credits           BDET         340         Combustion Engine Fuels         5           PHYS& 110         Physics: Non-Sci Major w /lab         5           PSYC& 100         General Psychology         5           20           Spring Quarter, First Year         Credits           BDET         310         ELectrical III         5           BDET         360         Power Generation & Maint         5           BDET         360         Power Generation & Maint         5           BDET         450         Internship         5           Internship         5           Endl Quarter, Second Year         Credits           BDET         320         Emissions Control         5           BDET         320         Emissions Control         5           BDET         400         Material Science of Fules/Lubes         5           BDET         350         Applied Failure Analysis         5           BDET         410         Regulatory Issues					
Solution					
Winter Quarter, First Year         Credits           BDET         330         Hydraulics II         5           BDET         340         Combustion Engine Fuels         5           PHYS&         110         Physics: Non-Sci Major w /lab         5           PSYC&         100         General Psychology         5           20           Spring Quarter, First Year         Credits           BDET         310         ELectrical III         5           BDET         360         Power Generation & Maint         5           BHUM         315         Ethics         5           BDET         450         Internship         5           SDET         450         Internship         5           BDET         320         Emissions Control         5           BDET         320         Emissions Control         5           BDET         400         Material Science of Fules/Lubes         5           BDET         40         Maragerial Statistics         5           BDET         410         Regulatory Issues         5           BDET         410         Regulatory Issues         5					
Winter Quarter, First Year         Credits           BDET         340         Combustion Engine Fuels         5           PHYS&         110         Physics: Non-Sci Major w /lab         5           PSYC&         100         General Psychology         5           20         20           Spring Quarter, First Year         Credits           BDET         310         ELectrical III         5           BDET         360         Power Generation & Maint         5           BHUM         315         Ethics         5           BDET         450         Internship         5           BDET         450         Internship         5           BDET         320         Emissions Control         5           BDET         400         Material Science of Fules/Lubes         5           BMATH         350         Managerial Statistics         5           BDET         400         Regulatory Issues         5           BDET         410         Regulatory Issues         5           BDET         410         Regulatory Issues         5           ENGL&         235         Technical Writing***         5           Spring Quarter, Second Ye	College	level MA	ATH, if not met	5	
BDET       330       Hydraulics II				15	
BDET       330       Hydraulics II	Winter	Quarter,	First Year	Credits	
BDET       340       Combustion Engine Fuels				5	
PHYS&         110         Physics: Non-Sci Major w /lab         5           PSYC&         100         General Psychology         5           20           Spring Quarter, First Year         Credits           BDET         310         ELectrical III         5           BDET         360         Power Generation & Maint         5           BHUM         315         Ethics         5           BDET         450         Internship         5           Internship         5         5           BDET         320         Emissions Control         5           BDET         400         Material Science of Fules/Lubes         5           BMATH         350         Managerial Statistics         5           BDET         400         Regulatory Issues         5           BDET         410         Regulatory Issues         5           BDET         410         Regulatory Issues         5           ENGL&         235         Technical Writing***         5           Spring Quarter, Second Year         Credits           BDET         420         Metallurgy & Fabrication         5           BDET         440			•		
PSYC&         100         General Psychology         5           20           Spring Quarter, First Year         Credits           BDET         310         ELectrical III         5           BDET         360         Power Generation & Maint         5           BHUM         315         Ethics         5           BDET         450         Internship         5           Internship         Internship					
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BDET       360       Power Generation & Maint.       5         BHUM       315       Ethics.       5         BDET       450       Internship.       5         15         Fall Quarter, Second Year       Credits         BDET       320       Emissions Control.       5         BDET       400       Material Science of Fules/Lubes.       5         BMATH       350       Managerial Statistics.       5         15         Winter Quarter, Second Year       Credits         BDET       410       Regulatory Issues.       5         ENGL&       235       Technical Writing***       5         5         Spring Quarter, Second Year       Credits         BDET       420       Metallurgy & Fabrication.       5         BDET       440       Hybid Drives.       5         BDET       440       Hybid Drives.       5         ECON&       201       Microeconomics***       OR         ECON&       202       Macroeconomics***       5			Flectrical III	5	
BHUM       315       Ethics       5         BDET       450       Internship       5         15         Fall Quarter, Second Year       Credits         BDET       320       Emissions Control       5         BDET       400       Material Science of Fules/Lubes       5         BMATH       350       Managerial Statistics       5         15         Winter Quarter, Second Year       Credits         BDET       410       Regulatory Issues       5         ENGL&       235       Technical Writing***       5         5         Spring Quarter, Second Year       Credits         BDET       420       Metallurgy & Fabrication       5         BDET       440       Hybid Drives       5         BDET       440       Hybid Drives       5         ECON&       201       Microeconomics***       OR         ECON&       202       Macroeconomics***       5					
BDET         450         Internship         5           Fall Quarter, Second Year         Credits           BDET         320         Emissions Control         5           BDET         400         Material Science of Fules/Lubes         5           BMATH         350         Managerial Statistics         5           BDET         350         Applied Failure Analysis         5           BDET         410         Regulatory Issues         5           ENGL&         235         Technical Writing***         5           ENGL&         235         Technical Writing***         5           5         15           Spring Quarter, Second Year         Credits           BDET         420         Metallurgy & Fabrication         5           BDET         440         Hybid Drives         5           BDET         440         Hybid Drives         5           ECON&         201         Microeconomics***         OR           ECON&         202         Macroeconomics***         5					
### Fall Quarter, Second Year   Credits  ### BDET   320					
Fall Quarter, Second Year         Credits           BDET         320         Emissions Control         5           BDET         400         Material Science of Fules/Lubes         5           BMATH         350         Managerial Statistics         5           15           Winter Quarter, Second Year         Credits           BDET         350         Applied Failure Analysis         5           BDET         410         Regulatory Issues         5           ENGL&         235         Technical Writing***         5           5         15           Spring Quarter, Second Year         Credits           BDET         420         Metallurgy & Fabrication         5           BDET         440         Hybid Drives         5           BDET         440         Hybid Drives         5           ECON&         201         Microeconomics***         OR           ECON&         202         Macroeconomics***         5	DDLI	430	internsinp		
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BDET       400       Material Science of Fules/Lubes       .5         BMATH       350       Managerial Statistics       .5         15         Winter Quarter, Second Year       Credits         BDET       350       Applied Failure Analysis       .5         BDET       410       Regulatory Issues       .5         ENGL&       235       Technical Writing***       .5         15         Spring Quarter, Second Year       Credits         BDET       420       Metallurgy & Fabrication       .5         BDET       440       Hybid Drives       .5         ECON&       201       Microeconomics***       OR         ECON&       202       Macroeconomics***       .5	Fall Quarter, Second Year Credit.				
BDET       400       Material Science of Fules/Lubes       .5         BMATH       350       Managerial Statistics       .5         15         Winter Quarter, Second Year       Credits         BDET       350       Applied Failure Analysis       .5         BDET       410       Regulatory Issues       .5         ENGL&       235       Technical Writing***       .5         15         Spring Quarter, Second Year       Credits         BDET       420       Metallurgy & Fabrication       .5         BDET       440       Hybid Drives       .5         ECON&       201       Microeconomics***       OR         ECON&       202       Macroeconomics***       .5	BDET	320	Emissions Control	5	
15           Winter Quarter, Second Year         Credits           BDET         350         Applied Failure Analysis	BDET	400			
15           Winter Quarter, Second Year         Credits           BDET         350         Applied Failure Analysis	BMATH	350	Managerial Statistics	5	
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BDET         420         Metallurgy & Fabrication					
BDET         420         Metallurgy & Fabrication	Sprina Quarter, Second Year Credits				
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ECON& 201 Microeconomics***OR ECON& 202 Macroeconomics***5		440			
ECON& 202 Macroeconomics***5	ECON&		Microeconomics***	OR	
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\*\*\* Must meet GURs (General Education Requirements/ Distribution Requirements) as listed under the Associate in Arts Degree (DTA).

# BAS DIESEL TECHNOLOGY COURSE DESCRIPTIONS

**BDET 300** 

#### **Applied Management (5)**

Introduces the principles and concepts of effective management including human resource management, quality control, social responsibility, decision-making, communication, conflict resolution and customer service. Prerequisite: enrollment in BAS-DT or by permission.

**BDET 310** 

# Electrical III (5)

Course content will focus on the theory and application of advanced electrical circuits, schematic reading, and proper troubleshooting techniques. Prerequisite: enrollment in BAS-DT or by permission.

**BDET 320** 

# **Emissions Control (5)**

Course content will focus on the theory and application of diesel exhaust emissions reduction technology. Prerequisite: enrollment in BAS-DT or by permission.

**BDET 330** 

#### Hydraulics II (5)

Studies the application of complex hydraulics systems with an emphasis on troubleshooting and system design. Prerequisite: BDFT 300.

**BDFT 340** 

# **Combustion Engine Fuels (5)**

Examines a variety of alternative power sources used in internal combustion engines including diesel fuel, biodiesel, gasoline, ethanol, propane, and CNG fueled engines. Prerequisite: BDET 300.

**BDET 350** 

# **Applied Failure Analysis (5)**

Identifies initial failures, progressive damage and appropriate documentation with a focus on root cause analysis and correction actions. Prerequisite: BDET 300.

**BDET 360** 

# Power Generation/Maintenance (5)

Examines the theory, application, and maintenance of equipment and controls used in on-site power generation. Content will cover power generation systems that run in a variety of commercial, industrial, and personal applications. Prerequisite: BDET 300.

**BDET 400** 

#### Science of Fuels & Lubes (5)

Studies the tribology of automotive and industrial equipment fuels, coolants, lubricants and additives. Samples of each will be taken and examined to comprehend the chemical breakdown processes, the contaminants that are involved and the consequences for engines and transmissions. Prerequisite: DET B300.

**BDET 410** 

# Regulatory Issues (5)

Studies the requirements set forth by OSHA, MSHA, and the EPA relating to diesel fueled automotive and industrial equipment. Content to include current laws, preferred practices and case studies of industrial accidents. Prerequisite: DET B300.

**BDET 420** 

#### Metallurgy & Fabrication (5)

Focuses on various types of steel and non-ferrous metals respective strengths and other key attributes regarding how those materials are repaired and components using those metals are designed and fabricated.

**BDET 430** 

# **Shop/Fleet Management (5)**

Addresses the relationships between the repair facility and customers as well as internal shop relationships and the development of a strong customer service culture. Topics will include work flow and methods, shop layout, work ethics, effective communications and skills needed by effective supervisors and foremen. Prerequisite: BDET 300.

**BDET 440** 

#### Hybrid Drives (5)

Reviews current and emerging propulsion technologies including electric forklifts, diesel- electric propulsion and hydraulic accumulator drive systems. Prerequisite: BDET 300.

**BDET 450** 

# Internship (5)

Consists of work completed on the site of a maintenance/ repair facility based upon a contractual agreement requiring specific attention to a project or problem that directly addresses BAS-DT program outcomes. Prerequisite: BDET 300.