2023-24

COLLEGE CATALOG

www.centralia.edu • 360-736-9391

CENTRALIA COLLEGE

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CENTRALIA COLLEGE MISSION, THEMES, VALUES, VISION, & COMMITMENT

MISSION

Centralia College is committed to student success, academic excellence and supporting our community in an inclusive and equitable learning environment.

MISSION FOCUS AREAS

Student Success: Centralia College students will progress, persist, and complete their educational endeavors.
Academic Excellence: Centralia College students will complete well defined educational and program goals relevant to future success.
Supporting Community: Centralia College will engage our communities in educational, recreational, and cultural opportunities while demonstrating equity, stewardship, and sustainability.

COLLEGE VALUES

At Centralia College we value:

- Student success
- Quality education and services
- Equity and inclusion
- Our diverse communities
- Stewardship and sustainability

VISION STATEMENT

Centralia College strives to be a responsive educational leader for our community.

CENTRALIA COLLEGE CALENDARS

2023-24

FALL TERM 2023

Labor Day Holiday	Sept. 4
Faculty Days	Sept. 5-15
First Day of Class	Sept. 18
All Campus Meeting (no classes)	Oct. 13
Assessment Day (no classes)	Oct. 24
Advising Day (no classes)	Nov. 1
Veterans Day Holiday (observed)(campus closed)	Nov. 10
Thanksgiving Holiday (campus closed)	Nov. 23-24
Last Class Day	Dec. 4
Faculty Day	Dec. 5
Final Examinations	Dec. 6-8
Winter Holiday (observed) (campus closed)	Dec. 25
Quarter Break	Dec. 9-31

WINTER TERM 2024

New Year's Day (campus closed)	Jan. 1
First Day of Class	Jan. 2
Martin Luther King Holiday (campus closed)	Jan. 15
Advising Day (no classes)	Feb. 15
President's Day Holiday (campus closed)	Feb. 19
Last Class Day	March 14
Assessment Day (no classes)	March 15
Final Examinations	Mar 18-20
Faculty Days	Mar 21-22
Quarter Break	Mar 23-Apr 7

SPRING TERM 2024

First Day of Class	April 8
Advising Day (all classes in session)	May 15
Memorial Day Holiday (campus closed)	May 27
Last Class Day	June 17
Final Examinations	June 18-21
Juneteenth Holiday (campus closed)	June 19
Commencement	June 21
Assessment Day (no classes)	June 24
Quarter Break	Jun 22-30

SUMMER TERM 2024

First Day of Class	July 1
Fourth of July Holiday (campus closed)	July 4
Last Class Day (6-week session)	Aug. 9
Last Class Day (8-week session)	Aug. 23

2024-25

FALL TERM 2024

Labor Day Holiday	Sept. 2
Faculty Days	Sept. 9-20
First Day of Class	Sept. 23
All Campus Meeting (no classes)	Oct. 11
Advising Day (no classes)	Nov. 1
Veterans Day Holiday (campus closed)	Nov. 11
Thanksgiving Holiday (campus closed)	Nov. 28-29
Last Class Day	Dec. 6
Assessment Day (no classes)	Dec 9
Final Examinations	Dec. 10-12
Faculty Day	Dec. 13
Winter Holiday (observed)(campus closed)	Dec. 25
Quarter Break	Dec. 13-31

WINTER TERM 2025

New Year's Day (campus closed)	Jan. 1
First Day of Class	Jan. 2
Martin Luther King Holiday (campus closed)	Jan. 20
Advising Day (no classes)	Feb. 11
President's Day Holiday (campus closed)	Feb. 17
Last Class Day	March 17
Assessment Day (no classes)	March 18
Final Examinations	Mar 19-21
Faculty Days	Mar 24-25
Quarter Break	Mar 26-Apr 4

SPRING TERM 2025

First Day of Class	April 7
Advising Day (all classes in session)	May 15
Memorial Day Holiday (campus closed)	May 26
Last Class Day	June 16
Final Examinations	June 17-18
Commencement	June 18
Juneteenth Holiday (campus closed)	June 19
Assessment Day (no classes)	June 20
Quarter Break	June 21-Jul 4

SUMMER TERM 2025

First Day of Class	July 7
Fourth of July Holiday (campus closed)	July 4
Last Class Day (6-week session)	Aug. 15
Last Class Day (8-week session)	Aug. 29

**BAS-AM and BAS-TE classes will meet on Advising (non-class) Days. Calendars subject to change.*

CAMPUS INFORMATION

600 Centralia College Blvd
Centralia, WA 98531
360-736-9391
www.centralia.edu

Regular Hours (Labor Day-early June)
8 a.m.-5 p.m. Monday-Friday

Summer Hours
8 a.m.-5 p.m. Monday-Thursday

As the oldest continuously operating two-year public college in the state of Washington (founded in 1925), Centralia College has a rich heritage of transfer, Career and Technical and basic skills programs serving the community. We also offer bachelor degree programs. A community college in the truest sense, we are in the center of Centralia on a tree-lined, 30+ acre campus. The college serves Lewis and south Thurston counties with a population over 75,000.

ACCREDITATION

Centralia College is accredited by the Northwest Commission on Colleges and Universities (NWCCU). NWCCU is a regional organization recognized by the U. S. Department of Education as the authority on educational quality and institutional effectiveness of higher education institutions in the seven-state Northwest region.

EDUCATION CENTERS AND TEACHING SITES

CENTRALIA COLLEGE EAST

701 Airport Way • P.O. Box 87
Morton, WA 98356
360-623-8925 OR 360-496-5022

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

In addition to face-to-face, online, and virtual classes, CCEast provides educational advising, college level placement testing, registration support, Running Start testing and advising, financial aid assistance, GED testing and classes, and high school completion classes. The CCEast Organization of Students offers opportunities for leadership development as well as activities for the students.

- **Associate in Arts Degree Program.** Academic classes offered at CCEast enable students to complete a Centralia College Associate in Arts degree in two years. Pre-college level classes are available to help students get their writing and math skills college ready.
- **Business Office Technology.** Develop computer-based skills in CCEast's computer lab. Classes such as Microsoft Office, Excel, Word, digital photography, and desktop publishing 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.** Basic Education for Adults (BEdA) classes prepare students for the GED and for college preparation courses. Self-paced ABE classes are offered in math, writing, and reading.
- **Other Offerings.** CCEast offers personal enrichment opportunities for credit and non-credit, including an array of community education classes, including the summer theater production performed at the Roxy Theater in Morton.

GARRETT HEYNS EDUCATION CENTER

2321 W. Dayton Airport Road • P.O. Box 900
Shelton, WA 98584
360-426-4433, Ext. 5509

Through the Garrett Heyns Education Center, Centralia College has provided services to students at the Washington Corrections Center since 1975. Courses offered include basic education for adults and GED testing, Construction Trades Apprenticeship Preparation (CTAP), reentry life skills, and college-level instruction leading to the Associate in Arts-Direct Transfer Agreement degree. The college also provides educational navigation to identify and pursue academic and career goals. Educational services at GHEC are possible through an interagency agreement with the State Board for Community and Technical Colleges and the Washington State Department of Corrections.

CEDAR CREEK EDUCATION CENTER

1220 Bordeaux Road • P.O. Box 37
Littlerock, WA 98556
360-359-4132

Since 2011, Centralia College has delivered educational services to students at the Cedar Creek Corrections Center. Courses offered include basic education for adults and GED testing, Construction Trades Apprenticeship Preparation (CTAP), reentry life skills, and college level instruction leading to the Associate of Arts-Direct Transfer Agreement degree. The college also provides educational navigation to assist students in identifying and pursuing academic and career goals.

CHEHALIS TRIBAL CENTER

461 Secena Road • P.O. Box 536
Oakville, WA 98568
360-709-1698

College instruction leading to the Associate in Arts-Direct Transfer Agreement degree, GED, and high school completion (HS+) are offered through a collaboration with the Confederated Tribes of the Chehalis Reservation, classes are offered in basic skills.

CENTRALIA COLLEGE AT GREEN HILL ACADEMIC SCHOOL

375 SW 11th Street
Chehalis, WA 98532
360-740-3520

College instruction leading to the Associate in Arts-Direct Transfer Agreement degree and vocational certification is available to qualifying Green Hill School residents through a collaboration with Green Hill School, the Department of Children, Youth, and Families (DCYF), and Centralia College.

OTHER SITES

Pacific Northwest Center of Excellence for Clean Energy
600 Centralia College Blvd.
TransAlta Commons, Room 320
Centralia, WA 98531
360-623-8924

EXTERNSHIPS/INTERNSHIPS, CLINICAL/PRACTICUM

Placement sites change quarterly. Names and addresses of the sites can be provided by calling 360-623-8963.

ADMISSION/ENROLLMENT

Enrollment Services Office

TransAlta Commons Building, Second Floor
360-623-8976
admissionsCC@centralia.edu

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 explained in the Admissions for Underage Student or Admission for High School Diploma/GED sections.

Some programs have special admission requirements. These programs are Nursing, Running Start, HS+/GED, and bachelor's degrees. Some programs, such as Nursing, require a fee to apply.

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 360-623-8966. Students are encouraged to do this as early as possible*

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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. Apply for admission online on the college website.

B. Complete or submit placement for both math and English. There are four options:

- Take a Next-Generation ACCUPLACER placement test on campus. For test times and instructions, contact the Testing Center at 360-623-8920 or email cctestingcenter@centralia.edu.
- If a student has completed placement someplace else, they can submit their scores to the Enrollment Services Office. Next-Generation ACCUPLACER, applicable AP scores, and Smarter Balanced are some of the scores that will be accepted. Check with Enrollment Services to determine how long your score is valid.
- High School Transcripts may be used for placement. Provide Enrollment Services a copy of the transcript to see if any of the completed classes qualify for placement.
- Students who have taken an English and/or math class, with a passing grade, can use their transcripts

from regionally accredited colleges to waive the appropriate placement test. Submit transcripts to Enrollment Services

II. Transfer Student

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

A. Apply for admission online on the college website.

B. Complete placement in both math and English. There are three options:
   - Take a Next-Generation ACCUPLACER placement test on campus. For test times and instructions, contact the Testing Center at 360-623-8920 or email cctestingcenter@centralia.edu.
   - Students who have completed testing someplace else must submit their test scores to the Enrollment Services Office. Test scores must be no older than two years.
   - Students who have taken an English and/or math class, with a passing grade, can use their transcripts to waive the appropriate placement test. Submit transcripts to Enrollment Services.

III. Returning Student

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

A. Students who have been away for less than a year (1-3 academic quarters) need to submit a Returning Student Form online at centralia.edu/admissions/returning-student.aspx.
B. Students who previously completed classes but have been gone more than three quarters are considered new students and can apply online at apply.ctc.edu.
C. 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 if they want their credits considered for their degree.

Important Note: *All admission and enrollment information is sent via letter and/or 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. Students can change their address by going to their ctcLink Student Homepage, clicking on the Profile tab, and clicking on Addresses.*

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 requesting credits be evaluated and transferred 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*: Credits earned at regionally accredited colleges and universities are eligible for 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 sent directly to the college or submit a sealed official transcript to the Enrollment Services Office.
2. Complete and submit an Application for Credit Evaluation for official evaluation. This form is available online at www.emailmeform.com/builder/form/5K0Q9Yj0e14C3MODzG14xgTe. Centralia College does not evaluate transcripts without an official Credit Evaluation Application from the student.

Note: *Enrolled students should allow a minimum of six weeks for processing from the start of the first quarter after their*

transcript arrives and/or after the Application for Credit Evaluation is submitted.

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.

Academic Credit for Prior Learning

In addition to taking classes from Centralia College or transferring credits from other colleges, there are other ways students may be able to apply credits towards their program. These are called non-traditional credits. Non-traditional credits are granted on a case-by-case basis consistent with non-traditional credit requirements established by NWCCU. Students receiving non-traditional credit must meet Centralia College's degree requirements. Centralia College will recognize four categories of Credit for Non-Traditional Learning, as follows (descriptions are taken from the State Board for Community and Technical Colleges):

1. Credit by Testing: Commonly accepted higher education equivalency exams that are documented via transcripts or other official record.
    a. **Advanced Placement.** Centralia College will grant a minimum elective credit for an Advanced Placement (AP) score of 3 or higher. Credit will be awarded on the basis of official AP results, not transcript notation. AP grade reports should be requested from the College Board and sent to the Enrollment Services office.
    b. **Cambridge International.** Centralia College will grant a minimum elective credit for each Cambridge International (CI) Examination for A-level exam with a passing grade or above for approved examinations. Credit will be awarded on the basis of official CI Examination results, not transcript notation. Duplicate credit for the same subject taken on different exams will not be granted. No grades are posted for A-level exams.
    c. **International Baccalaureate.** Centralia College will grant a minimum elective credit for an International Baccalaureate (IB) Higher Level (HL) exam score of 5 or higher. Credit will be awarded on the basis of official IB results, not transcript notation, that have been submitted to Enrollment Services. For International Baccalaureate Exams, Washington community and technical colleges though the Articulation and Transfer Council (ATC) are in the process of conducting a review of Higher-Level exams for grades of 4, along with a comprehensive review of Standard Level (SL) subjects to determine credit award policies for exams with grades of 4 or higher.
2. Prior Experiential Learning: Knowledge and skills acquired through experience alone, evaluated by a faculty member via evaluation of a compilation of work.
3. Extra-Institutional Learning: Knowledge and skills acquired outside the institution and verified through third-party certifications, industry-recognized testing/ training, or crosswalks. Refer to Policy 4.121 for the Military Credit Acceptance Policy.
4. Course Challenges: Challenge examinations are sufficiently comprehensive to determine that the student has the same knowledge and skills as those students who enroll in, and successfully complete, the course. A student should have previous training, private study, work experience, or other bona fide qualifications indicating the student has the knowledge or abilities equivalent to course completers.

ADMISSION AS AN UNDERAGE STUDENT

The underage admission process applies to students currently attending high school or those who are home-schooled, and are under the age of 18.

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 tuition/fees. The Centralia College website lists the open enrollment dates and times. Individuals seeking entrance into a special program may have to meet additional requirements for admission. Former students can contact

Enrollment Services to register online.

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 that are considered underage and are not part of the Running Start program should contact Enrollment Services for more information.

ADMISSION FOR HIGH SCHOOL DIPLOMA/GED

High School+ (HS+) is a competency-based high school diploma program for adult learners 18 and older. GED classes help students prepare for the Mathematical Reasoning, Reasoning through Language Arts, Social Studies, and Science GED test.•

New Students

1. Apply for admission
2. Sign up for Orientation
3. Attend the Orientation you selected. At Orientation, you will learn about college and career ready programs, view the class schedule, develop your academic plan, and register for classes that best match your goal.

Returning Students

If you are returning after missing one quarter (less than 5 months), call 360-623-8957 or email BEdA@centralia.edu for a registration appointment.

If you are returning after missing 5 months or more, complete the following:

1. Apply as a returning student.
2. Sign up for Orientation.
3. Attend the Orientation you selected. At Orientation, you will learn about college ready programs, view the class schedule, develop your academic plan, and register for classes that best match your goal.

ENROLL 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.

High School Graduates or Students 18 Years or Older
Classes for Credit/Grade: If a prospective student hasn't applied for admission, they will need to apply for admission first. If they have attended within the last three quarters, they can complete the Student Update Form. Students will then have the opportunity to register online during open enrollment.

Continuing Education/Community Service Classes: To enroll in a course for personal enrichment, improving job skills, or for a workshop or a special program, students can register online at www.campusce.net/centralia.

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 interested in Running Start should contact the Advising/Counseling Center for more information. Students that are considered underage and are not part of the Running Start program should contact Enrollment Services for more information.

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.

Senior Citizens
Adults at least 50 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 Enrollment Services for more information.

ADMISSION AS AN INTERNATIONAL STUDENT

Enrollment Services Office

TransAlta Commons Building, Second Floor
360-623-8976
intlCC@centralia.edu

Centralia College encourages and welcomes students from other countries who want to pursue a quality education. Centralia College offers academic and technical programs. 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, the following items must be submitted to the International Student Programs office via email to **intlcc@centralia.edu** or via postal mail to **International Student Programs, 600 Centralia College Blvd, Centralia, WA 98531**:

1. Completed and signed **International Student Application**
2. 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, but they can apply for college scholarships. Continued enrollment will require a more current statement of financial support.
3. Official transcripts from high school and all colleges attended (including all language schools, universities, etc.)
4. Copy of current passport.
5. Students with a TOEFL score higher than 500 (paper- based)/173 (computer-based)/61 (Internet-based) or an IELTS score higher than 5.5 may enroll in college- level courses after an assessment of readiness has been completed at Centralia College.

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
TransAlta Commons Building, Second Floor
360-623-8967
ccrunningstart@centralia.edu

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 Advising/Counseling Center for more information.

To apply for Running Start, students must return the following to the Advising/Counseling Center:

A. Apply online at apply.ctc.edu
B. High school transcript
C. Placement test results

Program acceptance letters will be sent after the application and qualifying placements are received with additional instructions.

ADVISING/EDUCATIONAL PLANNING

Advising/Counseling Center

Centralia College East or TransAlta Commons Building, Second Floor
360-623-8967
ccadvising@centralia.edu

Assessing one's readiness for college coursework is the first step toward success as a college student.
Students that gain priority status, will be assigned a faculty advisor who will assist with planning a program of study. 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 can assist with these choices.

Advising

New Students
After applying for admission and completing/submitting placement, students will need to finish assessment requirements. Assessment requirements include completing the Smarter Measure assessment.

Smarter Measure

The Smarter Measure Learning Readiness Indicator is an assessment meant to be an interesting experience by which you may learn more about yourself. It will take you about 25-35 minutes from start to finish but you may log out and complete it later if necessary. After logging, you will receive an email from Smarter Measure with a PIN number that will allow you to log back in later or view your results again. Please complete prior to your advising appointment. To complete the Smarter

Measure Assessment, login at:
https://centralia.smartermeasure.com
Username: centralia_college
Password: student

After completing assessment and orientation requirements, 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.

Returning Students
Returning students must meet with an advisor prior to registering. Visit the Advising/Counseling Center or Centralia College East, or call 360-623-8967 to schedule an appointment.

Current Students
Students must meet with their advisor on Advising Day or during Advising Week to plan their classes and get their registration hold released. Students are expected to contact their advisor BEFORE Advising Day to set up an advising appointment. After meeting with their advisor, students can visit their ctcLink student homepage to access their registration time and register for classes.

Students may request to change their advisor at any time.

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.*

REGISTRATION

Enrollment Services Office

TransAlta Commons Building, Second Floor
360-736-8976 Main Campus • 360-496-5022 Centralia College East

Registration is the process of enrolling in classes. Only officially registered students may attend class. Registration depends on the type of student and their educational plans.

Students can register based upon the following order of their registration status:

1. Early
2. Priority
3. Open

Early Registration

Per RCWs[1,2,] Centralia College provides Early Registration, which takes place before Priority Registration, to student Veterans, spouses/dependents using VA educational benefits or the state veteran waiver and some students with specific disabilities.

Priority Registration

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

1. Apply for Admission,
2. Intend on earning a certificate, degree or diploma,
3. Complete placement requirement(s),
4. Complete the orientation (if required), and
5. Meet with an entry advisor.

Students that have completed the process will be assigned a faculty advisor and changed to priority status. Students with priority enrollment status are given priority in selecting their classes, after students with Early Registration status, for the next quarter. Appointment times for registration are created according to total Centralia College cumulative credits earned.

Having earned at least 90 credits, students accepted into any Bachelors of Applied Sciences program(s) will receive a registration time before students working toward an associate degree/certificate.

Centralia College has the authority to determine additional populations that can be moved to an earlier registration time, regardless of credits earned.

Open Registration

The period of registration in which drop-in students register is called open registration. Students interested in taking classes, workshops, non-degree programs, or learning assistance programs for personal enrichment can register during open registration. If the class is for credit and/or a grade, the student will need to apply for admission. Drop-in students register after early and priority registration. Drop-in students can register for remaining classes on a first-come, first-served, space-available basis.
[1] RCW 28B.15.624 / [2] RCW 28B.10.912

Late Registration

Students may add classes by completing and submitting a Class Registration Form or Schedule Change 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 ask for the instructor's permission and, if authorized, obtain the instructor's signature or authorization via email or Canvas. 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 without a Late Registration Authorization Form. 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 Class Registration form to the Enrollment Services Office. Forms are available on the college's website and in the Enrollment Services Office. Through the first week of the quarter, students can drop their class(es) through ctcLink.

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. Student who are receiving VA Educational Benefits must check in with the School Certifying Official 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 Class Registration 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

Students who withdraw from their class(es) before the Enrollment Census Date will have their name removed from the

class list and no record will appear on their transcript.

If a student withdraws from the class, after the census date and by the last class day, the student will receive a grade of "W" on their transcript. Students who stop attending class will not be withdrawn automatically.

Instructor Initiated Withdrawal

Students are expected to attend all classes for which they enroll. Faculty will notify Enrollment Services of all students who do not attend class or secure approval for their absence: this notification will take place after the end of the second class session, but before noon of the sixth business day from the start of the term.

Note: *The instructor must notify the Enrollment Services Office of this withdrawal by noon of the sixth business day since the start of the class. If a student has attended before the first day that an instructor can drop the student for non-attendance, the student cannot be dropped from the class for non-attendance.*

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 military assignment.

COLLEGE COSTS

Enrollment Services Office

TransAlta Commons Building, Second Floor
360-623-8976 Main Campus • 360-496-5022 Centralia College East

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

Tuition rates for Centralia College are set annually by the state legislature and the State Board for Community and Technical Colleges.

The most up-to-date tuition rates and fees are posted on the Centralia College website.

The Associated Students of Centralia College (ASCC) student fee of $30 per quarter will be charged in addition to tuition and fees. Student Use Fee of $4 per credit (up to 10 credits/maximum $40 per quarter). Student Project Fee of 5 percent per credit (up to 18 credits). Lab/course fees may apply.

- ABE/ESL - $25 per student/per quarter
- Parent Education - $16 per credit
- Senior Citizen Courses (ASI and SNRC) - $20 per credit + fees
- Vocational 18+ credits - No charge
- EMT - $31 per credit
- Apprentice - $56.62 per credit
- Veterans, child and spouse of totally disabled POW/MIA or deceased eligible veterans or National Guard members tuition waiver - 100 percent
- Space Available Basis*
    - State Employee Waiver - $20 per quarter up to two quarters
    - Senior Citizen Waiver - $5 per quarter up to two classes + fees

**Students wanting to use this waiver can register for the class on third day of the quarter with instructor permission.*

FINANCIAL OBLIGATION

Students are expected to meet all financial obligations by established deadlines. Centralia College may remove students from classes by the census date if the student has not paid tuition and fees in full, qualified for a waiver, established a payment plan, or received a guarantee from a third-party payer. The college may revoke registration privilege if the student has unpaid debt of any amount. Financial obligations of $100 and above will be sent to a collections agency as described by Business Office procedures.

PAYMENT PLAN

Centralia College offers a payment plan to help students spread the cost of tuition and fees throughout the quarter. Students can enroll in a payment plan by visiting the ctcLink Student Homepage. Click on Financial Account, then Payment Plans, then Enroll in Payment Plan.

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. New legislation (SB 5194), effective July 25, 2021, provides more opportunities for students to meet residency requirements for in-state tuition.

To qualify, students must meet all of the following requirements:

- Earn a high school diploma, GED, or diploma equivalent before their first term at the college determining residency.
- Maintain a primary residence in Washington for at least 12 consecutive months immediately before their first term at the college determining residency.
- Sign an affidavit saying they meet the above requirements and that one of the following is true:
    - They will file an application to become a permanent resident of the United States as soon as they are eligible to apply. And, that they are willing to engage in activities designed to prepare them for citizenship, including citizenship or civics review courses or
    - They are a U.S. citizen, U.S. national, or U.S. permanent resident.

How to submit the affidavit:

- **Individuals who applied or will apply for state financial aid using the Washington Application for State Financial Aid (WASFA)**
  WASFA-filers submitted/will submit the affidavit as part of the WASFA. The WASFA is for undocumented students, students who are not eligible for federal aid, and students who do not want to apply for federal aid.
- **Individuals who applied or will apply for federal and state financial aid using the Free Application for Federal Student Aid (FAFSA) or who are not applying for aid**
  FAFSA-filers or people not applying for aid will submit a PDF form to their school.

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 unless they meet the qualifications above. 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 on the Centralia College website.

For classes beginning after the first week of the quarter, refunds are calculated according to policies listed on the college website. 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 business 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.

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.

Exceptions to the Refund Policy

Requests for students to have all or part of their tuition and fees refunded, to the original funder, and/or a withdrawal may be considered due to any of the following reasons:

- **Medical** reasons in accordance to the RCW 28B.15.605,
- **Military Servicemembers** called to service in accordance to the RCW 28B.10.270,
- or **Extreme Hardships**, at the discretion and approval of the Director of Enrollment Services or designee.

Contact Enrollment Services for more information.

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 student fails to meet their financial obligations to the college, the college will block their registration. 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 Business Services.

FINANCIAL AID

Financial Aid Office

TransAlta Commons Building, Second Floor
360-623-8975 • 360-330-7105 Fax
ccfinancialaid@centralia.edu

More than 70 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 funding 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. Payment plans are available. See www.centralia.edu/funding/pay.aspx for details.

Students are encouraged to check their ctcLink account to view the status of their financial aid. There, students can confirm what documents are needed and received.

Eligibility

In general, to be eligible for financial aid students must:

1. Be a U.S. citizen or eligible non-citizen (FAFSA) or undocumented Washington resident (WASFA)
2. Have a high school diploma or GED, or meet the ability to benefit guidelines

Applying for Aid

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

1. Free Application for Federal Student Aid (FAFSA) or, for Washington residents who are undocumented, DREAMers, or DACA, the WASFA (Washington Application for State Financial Aid)
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 Form (https://www.centralia.edu/funding/docs/cc_financial_aid_form.pdf)
4. Verification or Other Required Forms – The Financial Aid Office may need additional forms. Students will be notified by email if this occurs.

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, Washington College Grant, Federal Supplemental Educational Opportunity Grant, or Centralia College Grant
- WorkStudy (federal, state or institutional funds): Federal or State WorkStudy, Student Employment
- Scholarships (institutional): Centralia College (separate process for applying)

Loans

Centralia College does not participate in the Federal Direct Loan program, but alternative loans may be available through outside lending agencies.

Standards of Academic Progress (SAP)

To be awarded and continue to receive financial aid funds, students must meet Centralia College Financial Aid 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.

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

WORKFORCE FUNDING

Transitional Services Building (TSB), Room 101
ccworkforcefunding@centralia.edu

Worker Retraining

The Worker Retraining (WRT) program provides funding to Washington State community and technical colleges for dislocated and unemployed workers to enter approved training programs. Students may receive related support services including assistance with Employment Security Department applications, financial aid, career advising, educational planning, referral to training resources, job referral, and job development.

Students may be eligible for Worker Retraining support for any of the following reasons:

- Receiving or eligible to receive unemployment benefits
- Have exhausted unemployment benefits within the past 4 years.
- Formerly self-employed and currently unemployed due to general economic conditions.
- Unemployed veteran discharged within the past four years.
- Unemployed or underemployed after having been dependent on another family member's income but no longer supported by that income due to separation, divorce, death, or permanent disability of the main wage earner, within in the past 24 months.
- A vulnerable worker (at risk of being unemployed) who meets certain requirements.

Worker Retraining funds may be awarded for tuition, fees, books, childcare, tools, or Training Completion Aid. Eligible students must apply for federal financial aid.

WorkFirst

The WorkFirst program at Centralia College provides employment and training services to students who receive Temporary Assistance for Needy Families (TANF) from DSHS. WorkFirst can help students pay for tuition and books.

Approved programs include:

- High School Diploma
- GED
- Basic Skills
- English Language Acquisition (ELA)
- All professional-technical certificates/degrees
- Continuing Education (job-related)

WorkFirst students may also qualify for WorkFirst Student Support funds, childcare, and other benefits through DSHS.

Basic Food Employment & Training (BFET)

The BFET program can help students get the training they need for a better-paying job and economic security, To be eligible for the program, students must qualify for basic food assistance, but not be receiving Temporary Assistance for Needy Families (TANF).

BFET may assist with tuition and fees, required textbooks, and some required class supplies.

Approved programs include:

- High School Diploma
- GED
- Basic Skills
- English Language Acquisition (ELA)
- All professional-technical certificates/degrees
- Continuing Education (job-related)
- Most Associate of Arts degrees (focused)

BFET may assist with tuition and fees, required textbooks, and some required class supplies.

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. For questions, please contact the Cashier's Office at 360-623-8931 or cashieroffice@centralia.edu.

SCHOLARSHIPS

Centralia College Foundation

401 Centralia College Blvd.
360-623-8942

Centralia College, through its foundation, has more than 250 scholarships available to new and continuing students. Scholarship applications are available on the college's and foundation's website beginning at the start of March and are typically due mid-April. Recipients are matched to the scholarships with the criteria that best fits their academic path and accomplishments. A single application applies to most of the scholarships to be awarded. There are additional steps for several scholarships, including nursing, valedictorian, and salutatorian scholarships. The foundation notifies recipients during spring quarter.

SERVICES FOR VETERANS

TransAlta Commons Building, Second Floor

Centralia College is approved to provide educational benefits to veterans, active-duty service members, National Guard, and eligible spouses/dependents who receive benefits.

SCHOOL CERTIFYING OFFICIAL

Enrollment Services Office

Kathy Tukes 360-623-8553
kathy.tukes@centralia.edu

The School 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.

Any changes to a student's schedule or program must be immediately communicated to the School Certifying Official.

VETERANS CENTER

Kirk Library, Room 103
360-623-8958

The Centralia College Veterans Center is a dedicated safe zone on campus for all veterans, active duty personnel and spouses/dependents currently enrolled and receiving benefits. The Veterans Center connects students to both college and community veteran's resources, as well as providing access to the computer lab, free printing, and a commons area.

MILITARY CREDIT ACCEPTANCE

In response to RCW 28B.10.057, Centralia College will evaluate and grant credit hours for military education based on the

recommendations from the American Council on Education's (ACE) Guide to the Evaluation of Educational Experiences in the Armed Services. This is in accordance with transfer credit policies at Centralia College and the State Board for Community and Technical Colleges. Students are required to supply Enrollment Services with an official copy of their Joint Services Transcript (JST) or a transcript from the Community College of the Air Force, as well as previous academic transcripts.

EARLY REGISTRATION

Centralia College allows early registration (as defined by RCW 28B.15.624 and HB 1052) to all eligible veterans (with qualifying DD214), National Guard members, and spouses/ dependents who are receiving VA Educational benefits. Refer to the Academic Calendar for registration dates.

ADDITIONAL INFORMATION

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

Centralia College does not and will not provide any commission, bonus, or other incentive payment based directly or indirectly on success in securing enrollment or financial aid to any persons or entities engaged in any student recruiting or admissions activities or in making decisions regarding the award of student financial assistance.

Centralia College is required by the VA to limit student enrollment to 85 percent veteran enrollment per cohort. In the event a veteran wishes to enroll in a class that has already reached the 85 percent cap, they may do so, but it will not be eligible for VA funding. Chapter 35 and 31 students may still enroll even if the 85 percent has been realized. Note: This applies per USC 3680A(d)(1) for each program/ concentration/ track offered at the school.

PARTICIPATION IN COURSES PENDING VA PAYMENT

In accordance with Title 38 US Code 3679 subsection (e), Centralia College adopts the following additional provisions for any students using U.S. Department of Veterans Affairs (VA) Post 9/11 G.I. Bill® (Ch. 33) or Vocational Rehabilitation and Employment (Ch. 31) benefits, while payment to the institution is pending from the VA. This school will not:

- Prevent the student's enrollment;
- Assess a late penalty fee to;
- Require student secure alternative or additional funding;
- Deny their access to any resources (access to classes, libraries, or other institutional facilities) available to other students who have satisfied their tuition and fee bills to the institution.

However, to qualify for this provision, such students may be required to:

- Produce the Certificate of Eligibility by the first day of class;
- Provide written request to be certified;
- Provide additional information needed to properly certify the enrollment as described in other institutional policies

ACADEMIC INFORMATION

INSTRUCTION OFFICE

Walton Science Center • Room 120
360-623-8929

Unit 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 units. Laboratory and certain other courses vary. The unit 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 unit (generally from 1 to 15 units). With assistance from an advisor and/or the course instructor, students decide how many units they can reasonably carry in one quarter and register for that amount.

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

UNIT 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 unit earned.

Units represent time. Each quarter, students must realistically assess their time commitments. Students are encouraged to take a unit load that can be managed successfully. To estimate the time needed to commit to college, students can figure three hours per week for each unit (combined class and study time). For example, a 15-unit 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 units each quarter. Other students take fewer units 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 .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 follow:

4.0-3.8 A Superior achievement
3.7-3.5 A-
3.4-3.2 B+
3.1-2.8 B High achievement
2.7-2.5 B-
2.4-2.2 C+
2.1-1.8 C Average achievement

***Note**: 1.8 and 1.9 are below the 2.0 minimum requirement for program entrance or completion.*

1.7-1.5 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 last 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.

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 default grade, 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 Enrollment Services 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 with Enrollment Services. Incomplete work must be completed and submitted to the instructor by the deadline established by the instructor but not to exceed 180 days past the end of the quarter.

N • Audit
No credit. Not calculated in grade point average.

S • Passing with unit
Not calculated in grade point average. Used only by approved departments. Degrees and certificates may limit the use of S units.

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 and 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 Enrollment Services 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 that are interested in auditing a course can observe class activities and receive instruction with an instructor's permission without being required to complete assignments or take exams. To audit a course, the student must complete the Schedule Change form with the instructor's signature, enroll by the census date, and pay appropriate tuition and/or fees. Auditing a course results in the class not being awarded credit or a grade. The transcript will show an "N'' for an audited course and will not factor into the GPA.

Grade Forgiveness
Grade forgiveness provides the student an opportunity to request to have specific class(es) not calculate into the GPA.

Grade forgiveness will be granted by meeting the following criteria:

- Only grades below a 2.0 GPA can be requested.
- Grade(s) must be at least one year old.
- The student must have completed a minimum of 24 units, with a cumulative GPA of 2.0 or higher, from Centralia College and/or another regionally accredited college/university since the quarter of the grade forgiveness requested.

Forgiven courses

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

Academic Renewal

Academic renewal provides the student an opportunity to have entire quarter(s) not calculate toward the GPA.

Students may request for any quarter(s) for academic renewal under the following conditions:

- The quarter(s) requested must be at least one year old.
- The requested quarter(s) cannot be used previously as units in any degree, certificate or diploma.

Academic renewal grades will remain on the student's transcript but will not calculate in their GPA or units at Centralia College and cannot be reinstated later. The request must include all courses in the quarter.

Advising Note: *Forgiven grades may not be recognized by other colleges. 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 with a few exceptions. The higher grade will count toward their GPA. Both grades will remain on the student's permanent record. Enrollment Services may adjust for educational or regulatory reasons.

A student can repeat a credit-bearing course, a fourth time, only to fulfill a skills requirement or academic progress in accordance with the State Board for Community and Technical College's Repeat Course Rules[1,2]. Students enrolled in a course, for a fourth time, will be unenrolled from that class unless the student appeals to the Director of Enrollment Services before the third business day before the start of the quarter.

[1]SBCTC Policy Manual Chapter 4 Appendix A
[2]SBCTC Policy Manual Chapter 5 Appendix A Reporting Enrollment

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 transcript. 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

TransAlta Commons Building, Second Floor
360-623-8976

Student Identification Number

All students are assigned a student identifier known as a ctcLink ID when they apply for admission to Centralia College. This number provides access to a number of services at the college.

If a student has transferred from another college in the Washington State community and technical college system, that number will be transferred.

Confidentiality of Student Records

The Family Educational Rights and Privacy Act (FERPA) of 1974 affords students certain rights with respect to their 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:

- **Inspect and review their education records.** Students may contact Enrollment Services to request an inspection of their records. A request must be submitted in writing to the Registrar. Centralia College has 45 days from the receipt of the request to arrange for access.
- **Request an amendment of their education records.** Students may submit a written request to the Registrar if they wish to have an amendment made to their education records. If Centralia College decides not to amend the student's record as requested, the student will be notified and advised of the student's right to a hearing regarding the request for an amendment.
- **Consent to disclosures of personally identifiable information contained in the student's education records**, except to the extent that FERPA authorizes disclosure without consent. Disclosure to school officials with legitimate educational interests does not require the student's consent. A school official is a person employed by Centralia College in an administrative, supervisory, academic or research, or support staff position; a person or company with whom Centralia College has contracted (such as an attorney, auditor, or collection agency); a person serving on the Board of Trustees; or a student serving on an official committee, or assisting another school official in performing their tasks. Volunteers and interns serving in any of these capacities are also considered school officials. A school official has a legitimate educational interest if the official needs to review an education record to fulfill their professional responsibility. Upon request, Centralia College may disclose education records without consent to officials of another school in which you are currently enrolled, receive services, or seek or intend to enroll.
- **Prevent disclosure of directory information.** Centralia College routinely publishes and discloses directory information about students to various requestors. FERPA defines directory information as information contained in the education records of a student that would not generally be considered harmful or an invasion of privacy if disclosed.
    - Directory information consists of:
        - Name
        - Field of study
        - Participation in officially recognized activities and sports
        - Dates of attendance
        - Enrollment status
        - Degree or certificate earned
        - Term Degree or certificate earned
        - Honors
    - Students who would like to block Centralia College from releasing their directory information must submit a request in writing by utilizing the Student Directory Restriction Request form provided by Enrollment Services or through their ctcLink profile.
        - Please note - If a restriction request is in place, Centralia College could be restricted from including the student's name in the commencement program or from providing verification of enrollment, graduation, or degrees awarded to third parties, including potential employers, insurance companies and sports recruiters. No directory information would be released to any person. Requests for confidentiality are permanent until removed in writing by the student.
- **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
      600 Independence Avenue, SW
      Washington, D.C. 20202-4605

Additionally, the Solomon Amendment, a federal law, authorizes representatives from the Department of Defense to request the following information: level of education, age, date of birth, place of birth, and phone number for recruiting purposes.

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 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

When their address changes, students must notify the Enrollment Services Office by completing the Student Update Form or making the changes in their ctcLink account.

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. Enrollment Services can change a name with government-issued documentation.

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 the student.

Emergency Notifications

The possibility of an emergency exists on the Centralia College campus. There are natural and human-caused situations that require all students, employees, and others to be notified. The college uses Singlewire Informacast to deliver mass emergency notifications to students, employees, and volunteers. This is the primary means of mass notification when emergency and selected other events and situations arise that impact normal operation of the college. To get text alerts for only Centralia College, text #ccalerts to 360-347-2347. To get text alerts for only CCEast only, text #cceastupdates to 360-347-2908.

Right to Know

Annual Security and Fire Safety Report

Centralia College publishes the Annual Security and Fire Safety Report each year on the college website. The report contains crime and fire statistics from the previous three years for certain on-campus, non-campus, and residential college facilities. All current and prospective students and staff are notified of this report annually. If you would like to receive a hard copy of the Annual Security and Fire Safety Report, contact Facilities Operations and Maintenance at 360-623-8947.

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 on the college website.

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.

Students must earn a cumulative grade point average (GPA) of 2.0 or above to be in good academic standing. If a student does not receive a cumulative GPA of 2.0 or above then the college will place the student on warning, probation, suspension, or conditional probation.

The category depends upon how many times the student's GPA falls below 2.0. If the student raises their cumulative GPA to 2.0 or above then the college will remove any warning, probation, or suspension status. The college reserves the right to place enrollment conditions on students anytime their cumulative GPA falls below a 2.0.

Warning

The first term the student's cumulative GPA falls below 2.0, the college will place the student on Academic Warning. There is no appeal.

Probation

The second term that a student's cumulative GPA falls below 2.0, the college will place the student on Academic Probation. This is the final warning prior to suspension. There is no appeal.

One-Quarter Suspension

The third term a student's cumulative GPA remains below 2.0, the college will suspend the student for one term. During the suspension, the student may not register for any course, and may not participate in events or activities reserved for students. The student has the right to appeal the suspension.

Conditional Probation

Suspended students who return from one-term or one-year suspension or were granted an appeal will be placed on conditional probation status. Students on conditional probation status must increase their cumulative GPA to above 2.0 or meet the conditions outlined in their approved appeal. Students who meet the conditions of the appeal but do not raise their cumulative GPA to above a 2.0 will remain on conditional probation status. Students who fail to increase their cumulative GPA to above 2.0 or fail to meet the conditions of their appeal will be suspended for one year. During the suspension, the student may not register for any course, and may not participate in events or activities reserved for students. The college will remove all warning, probation, suspension or conditional probation status from students increasing their cumulative GPA to above 2.0.

Appeals

Suspended students can submit an appeal to the Vice President of Student Services as long as they have not filed any previous appeals or have received above a 2.0 GPA in every course. In an approved appeal, the student must show proof of circumstances over which the student had no control and/or show proof of making measurable and substantial progress toward raising their GPA. The Vice President reviews appeals on a case-by-case basis. The Vice President may take the following actions on an appeal:

- Grant the appeal and move the student to conditional probation status
- Grant the appeal under certain conditions and move the student to conditional probation status
- Deny the appeal

The decision of the Vice President is final.

GRADUATION AND ACADEMIC HONORS

Students planning to graduate need to submit an Application for Degree/Certificate form for priority evaluation. The application for Degree/Certificate is available online. Centralia College will mail diplomas or certificates approximately 60 days after the grades post at the end of the quarter.

Priority Deadline to Submit Application for Degree/Certificate

Quarter You Plan to Finish All Required Courses for Degree/Certificate/Diploma	Apply for Graduation by This Date
Summer	April 15
Fall	July 15
Winter	Sept. 15
Spring	Nov. 15

Time Restriction for Graduation

Students' graduation requirements are determined by the academic catalog when they began their degree programs. Students may also elect to take advantage of later changes to their degree programs by electing to use catalog requirements after time of admittance. For special admissions programs, the active catalog is when the student was admitted into the program. Students who stop attending over one year (four quarters) must reapply to the college and use the current catalog requirements at the time of readmission to the college/program. For discontinued programs, Centralia College will honor discontinued program degree requirements for five years after discontinuation of the program.

Academic Residency

Students must earn at least 15 credits or 25 percent (whichever is lower) of the credits being applied towards the degree or certificate from Centralia College. Credit granted through academic credit for prior learning is excluded from fulfilling the academic residency requirement.

Commencement Ceremony

A commencement ceremony is held at the end of the academic year. Students who applied for graduation during that year may take part in the ceremony. There is a fee for a graduation cap and gown.

Academic Honors

Quarterly Honors

Quarterly honors will be documented on the transcript in the appropriate term for all students who take 12 or more decimal graded units and qualify based on their GPA. Students who take less than 12 decimal graded units are not eligible for quarterly honors. Students with a quarterly GPA of 3.9 to 4.0 will be on the President's List. Students with a quarterly GPA of 3.75 to 3.89 will be on the Vice President's List. 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.

- **HIGHEST HONORS**: Students with a cumulative GPA of 3.90 to 4.0 will graduate with HIGHEST HONORS and receive a medallion and gold cord.
- **HIGH HONORS**: Students with a cumulative GPA of 3.75 to 3.89 will graduate with HIGH HONORS and will receive a gold cord.
- **HONORS**: Students with a cumulative GPA of 3.50 to 3.74 will graduate with HONORS and receive a silver cord.

Individuals receiving the honors listed above will be recognized in the commencement program and have the honor stated when their name is announced at the commencement ceremony. Honor grades are calculated through winter quarter for the commencement program and ceremony.

Directory Restriction and Graduation/Commencement
If a directory restriction request is in place, Centralia College is prevented from including the student's name in the commencement program and public notifications. No directory information would be released to any person. Requests for confidentiality are permanent until removed in writing by the student. If a student would like to revoke the restriction for commencement purposes, they will need to contact Enrollment Services.

SERVICES FOR STUDENTS

Bookstore

TransAlta Commons Building, First Floor
8 a.m.-5 p.m. Monday-Thursday
8 a.m.-12 p.m. Friday
360-623-8964
ccbookstore@centralia.edu

The Centralia College Bookstore serves students, faculty, staff, and community members. As a self-supporting auxiliary of Centralia College, all revenue earned benefits Centralia College and campus programs. The bookstore offers new, used, and digital course materials, reference and study aids, art and computer supplies, stationery, snacks, Blazer gear, and gifts.

Visit www.centraliabookstore.com for quarterly course materials information, extended hours, buyback, and rental return information.

Blazer Bite Cafeteria

TransAlta Commons Building, First Floor
8 a.m. – 2 p.m. Monday-Thursday
8 a.m. – 1 p.m. Friday
Closed on days there are no scheduled classes

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

Children's Development Center

412 S. Oak Street
7 a.m.-5:30 p.m. Monday-Friday
360-623-8949

Childcare services are available on campus for children ages one year through six years. The childcare program participates in the Washington State Early Achievers Program. Areas of specialization are Child Outcomes, Curriculum, Staff Supports, and Family Engagement and Partnership. Parents participate in the children's classroom and parenting classes. The childcare center is utilized by the Early Childhood Education programs on campus for training and observation purposes.

ADVISING/COUNSELING CENTER

TransAlta Commons Building, Second Floor
360-623-8967
ccadvising@centralia.edu

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

Career Services

Career counseling helps students to identify suitable academic programs and career paths. In collaboration with a counselor, students discover aptitudes, interests, values, and skills through assessment and exploration. Tools available include the Washington Occupational Information System (WOIS), the Strong Interest Inventory and Myers-Briggs Type Indicator® (fee applies), and other career exploration programs. These assessments and resources help students find college programs, career fields and occupations that align with interests and aptitude. These systems can also be used to search for specific information concerning training, skill needs, rate of pay, and job prospects. Students can also receive assistance with resume writing, interview preparation, and job searching.

Counseling

Pre-admission counseling is available to prospective students to provide information about college programs and courses in their area of interest. Personal counseling and educational problem-solving helps students to manage various problems that may interfere with college success. Examples include stress, relationship problems, interpersonal conflicts, anxiety, depression, or grief. Counselors can also help students build strong study skills, manage test anxiety, set realistic goals, explore transfer information, and troubleshoot problems. Counselors help connect students with resources and services to support a positive educational experience.

Educational Services

- **Pre-admissions Counseling:** Pre-admissions counseling can provide information about programs, courses, and services to match student interest.
- **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 ACCUPLACER placement test and career inventories (Myers-Brigg-type indicators).
- **Transfer Advising:** Subject area faculty advisors are the primary source for assisting students in transferring to four-year colleges. However, faculty counselors can assist with application planning and researching transfer options. Transfer information for two- and four-year colleges in Washington are available in the Advising/ Counseling Center.

Blazer Central

Blazer Central is a student resource and success hub located in the TransAlta Commons room 333. It is an intentional study and collaboration space that is relaxed and supportive, and which offers academic and holistic programming that promotes student success.

Services include:

- Low-level technology support – student email, Canvas, Microsoft Office, etc
- Workshops focused on study skills and habits for success, such as time management, effecting textbook reading techniques, and note-taking
- Individual support for navigating the college experience and connecting to campus resources
- The M^2IND Initiative (Mentoring/Motivating for Inspiring, Networking, and Development), M2IND—Mentoring/Motivating for Inspiring, Networking, & Development—a peer mentoring program, pairs apprentices with mentors to help them best utilize and maximize their time at Centralia College

DISABILITY SERVICES

TransAlta Commons Building, Room 208
360-623-8966

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 for students that qualify. Current (usually not older than three years) documentation of the disability by a qualified professional is highly recommended to facilitate optimal services.

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 an advisor for information.

Outstanding Student Award

Outstanding Students, as living examples of the Centralia College mission, will be recognized for their efforts in persevering to overcome obstacles while pursuing their degree, for achieving their educational goals, and for being an active and engaged member of the community. 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

Enrollment Services Office
TransAlta Commons Building, Second Floor
360-623-8976 • intlcc@centralia.edu

The Enrollment Services Office helps international students with academic planning and immigration.

International students must follow immigration regulations. With an F-1 student visa, students must enroll in a minimum of 12 credits per term, 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 Enrollment Services can provide assistance.

TESTING

Kirk Library, Room 121
8 a.m. – 7 p.m. Monday-Thursday

360-623-8920 • cctestingcenter@centralia.edu

Tests Offered

- Next-Generation ACCUPLACER (college English placement)
- GED
- Emergency Medical Technician (EMT) certification
- American Medical Technologist (AMT) exam
- Washington Educator Skills Tests (WEST)
- WAMAP (college math placement)

Testing Accommodations

Students with documented disabilities can request accommodations and apply for services through Centralia College Disability Services at 360-623-8966. For accommodation requests for GED testing, contact Pearson Vue at www.ged.com.

Current photo ID is required for all testing.

INSTRUCTIONAL SUPPORT

Writing Center

TransAlta Commons Building, Room 301
360-623-8841

The L.G. Foss Writing Center offers support to students working on academic writing. In the center, trained writing center consultants offer students feedback on their writing while encouraging them to apply what they learn to improving their own writing process. Students can submit their drafts online, make an appointment, or drop by to work with the center's staff. In addition, the Writing Center has computer stations, workshops, and resources that may help students as they continue to develop their writing skills. Students can visit www.centralia.edu/resources/academic/writing-center.aspx to get additional information, to make appointment, or to submit a draft online.

PROS Speech Tutors

TransAlta Commons Building, Room 337
10 a.m.-1 p.m. Monday-Thursday (closed in the summer)

This drop-in center provides help to any student with an upcoming presentation, speech, or even job interview. If it has to do with communication, these are your "Pros."

STEM Tutoring Center

Walton Science Center, Room 309
Hours vary by quarter

The STEM Tutoring 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 and a group work area for science, technology, engineering, math, and other areas as tutors are available. For information about subjects and time, visit the Canvas classroom at https://centralia.instructure.com/courses/1942307.

Peer Tutoring

Walton Science Center, Room 309

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, tutoring is available for most classes taught at Centralia College.

Peer tutoring is free to registered Centralia College students. To apply to be a peer tutor, students need to meet a

minimum of 3.2 GPA and complete an application form.

Library

360-623-8956

The Kirk Library provides a robust and relevant variety of print, digital, media, and open education resources. The library website is the gateway to information resources and academic research tools. Currently enrolled students may borrow materials, access library computers with Microsoft Office Suite, and use Ask-WA, a live chat service with a librarian, 24-hours-a-day, 7-days-a-week.

Elearning

Kirk Library, Room 137
360-623-8955
ccelearniong@centralia.edu
eLearning can help students with online educational tools including Canvas, Panopto, and other websites used for classes. eLearning can also help with software used for classes, such as internet browsers and Microsoft Office. In addition, eLearning can help with signing in and resetting your ctcLink password, learning how to use the above tools, and troubleshooting with you when things go wrong.

PARKING

Students should not park in spots marked RESERVED or in spots marked for Disabled Parking unless they have legal state-issued decal. See the Centralia College website for detailed information about parking.

Racks are provided for bicycles. Bicycles are not permitted inside buildings and may not be secured to college facilities (other than designated bike racks).

SPORTS PROGRAMS

Intercollegiate Athletics
Michael Smith Gymnasium, Room 117
360-623-8926
centraliablazers.com

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
- Soccer – Men and Women
- Softball (fast pitch) – Women
- Volleyball – Women

STUDENT JOB CENTER

TransAlta Commons Building, Room 228
360-623-8974
studentjobs@centralia.edu

The Student Job Center can help Centralia College students find part-time student employment on- and off-campus to supplement their educational costs. Visit the Job Center to review potential jobs and receive a job referral for an official interview.

Student Employment Programs:

- Federal Work-Study On-campus (must be eligible for financial aid)
- On-campus Employment (no financial aid eligibility required)
- Federal Work Study Community Service (on and off- campus, must be eligible for financial aid)
- State Work Study On-campus (must be a Washington resident and eligible for financial aid)
- State Work Study Off-campus (must be a Washington resident and eligible for financial aid)
- Federal Work Study Reading/Math Tutor (must be eligible for financial aid)

STUDENT LIFE AND INVOLVEMENT CENTER (SLIC)

TransAlta Commons Building, Room 137
360-623-8972

How To Get Involved

The Student Life and Involvement Center (SLIC) is the headquarters for student leadership and campus involvement. SLIC oversees student government; budgets for all student-funded programs, clubs, and organizations; and provides 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 and parking passes, maintains a campus lost and found, and posts on campus bulletin boards.

Student Advocacy Activities Leadership Team (SAALT)

SAALT is a group of student leaders who advocate and plan events for Centralia College students. SAALT is committed to social justice, sustainability and creating inclusive events for all Centralia students. The President, Vice President and Coordinators on SAALT work together to provide social, cultural, educational, and advocacy work through serving on campus committees, being part of the College Shared Governance Model and campus programming. As the representatives for the governing body of Centralia College Students, all SAALT members are responsible for advocating for students.

SAALT holds weekly meeting that are open to all students. Members of SAALT are selected each spring and receive compensation for their time. SAALT appoints students to be part of the governance process by serving on college committees.

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:

- Gender Sexuality Alliance
- Medical Assistant Club
- Nerds the Gathering
- Art Club
- Theatre Club
- Speech Club

- Spilled Ink (Literary publication)
- Latinxs Unidos
- Centralia College East Organization of Students
- And many more!

Students are encouraged to start clubs through the recognition process. For a complete list of currently recognized clubs and organizations, visit https://www.centralia.edu/resources/student-life/clubs.aspx.

Esports

TransAlta Commons Building, Room 339
360-623-8660

Centralia College has joined more than 180 other institutions nationwide in offering esports that are competitive at the intercollegiate level. Centralia College is a member of the National Junior College Athletic Association Esports. In the fall of 2019, CC finished first and third in Smash Ultimate and second in Rocket League.

Food Pantry

TransAlta Commons Building, Room 137
360-623-8972

The Trailblazer Food Pantry exists to provide free food and personal care items to Centralia College students experiencing food insecurity. The pantry is a "client choice" pantry, meaning students can pick the food that suits their needs best. Food from the pantry is a mix of donated and purchased items. Currently enrolled students can access the food pantry twice per month.

STUDENT RIGHTS AND RESPONSIBILITIES

The college has established policies providing for the rights and responsibilities of students. Copies of this code (WAC 132L-351) are available from the SLIC or the Vice President of Student Services Office.

1. 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-351-010.
3. If you violate this code, Centralia College can discipline you. See WAC 132L-351-015.
4. Some words in the code have technical or special meanings. These are defined. See WAC 132L-351-020.
5. You are accountable for your behavior both on and off campus. See WAC 132L-351-025.
6. You have constitutional rights. See WAC 132L-351-030.
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-351- 035.
8. You should take an active role in your learning, obey the law, and follow college rules. See WAC 132L-351-040.
9. Do not hurt, intimidate, or bother people. See WAC 132L- 351-040.
10. Be honest and tell the truth. See WAC 132L-351-040.
11. Do not cheat. See WAC 132L-351-040.
12. Do not steal or cause damage to other people's property. See WAC 132L-351-040.
13. Do not go where you are not supposed to. See WAC 132L-351-040.
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-351-040.
15. The use of tobacco, alcohol, and drugs is strictly controlled. See WAC 132L-351-040.
16. Hazing is prohibited. See WAC 132L-351-040.

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-351-040.
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-351-050.
19. If you are a threat to people, you will be suspended immediately. You will get a hearing later. See WAC 132L-351-100.
20. If you are accused of violating this code, you will be summoned to an initial hearing. See WAC 132L-351-055.
21. You can appeal decisions to the Conduct Committee, then to the president. See WAC 132L-351-060.
22. There are rules about how the Conduct Committee conducts its process and handles records. See WAC 132L-351-080.
23. There are rules about how the Conduct Committee considers evidence. The college has to prove its case by a preponderance of evidence. See WAC 132L-351-085.
24. There are rules about what the Conduct Committee can do, and how it communicates its results. See WAC 132L-351-090.
25. There are rules about how and when to appeal. See WAC 132L-351-095.
26. There are rules about how this code is changed. WAC 132L-351-240.
27. There is supplemental discipline process for sexual misconduct cases that have a few differences. WAC 132L-351-200.
28. The Conduct officer will communicate to both parties during a sexual misconduct case and investigation. WAC 132L-351-230.
29. The complainant in a sexual misconduct case can appeal. WAC 132L-351-280.

TRIO PROGRAMS

TransAlta Commons Building, Second Floor

Three federally funded TRIO programs – TRIO TS, Upward Bound, and Student Support Services – provide support services to help underrepresented college-bound students who meet federal eligibility requirements. The programs assist students as they prepare for college, attend college, and transfer to a four-year college or university.

TRIO TS

360-623-8969

TRIO TS assists 7-12 grade students with the exploration of career and educational options beyond high school. Services include academic support, career and college guidance, and assistance with the completion of college, financial aid and scholarship applications.

Upward Bound

360-623-8968

This college-prep program prepares high school students for college success through weekly academic support during the school year, and an intensive six-week program in the summer, including college visits and cultural opportunities.

Student Support Services

360-623-8970

Student Support Services (SSS) helps students learn how college works and how to make it work for them. Services are designed to help students build the skills and motivation necessary to graduate from Centralia College and/or transfer to a four-year college to earn a bachelor's degree.

SSS offers these services:

- Free 3-credit Student Success Course
- In-person math and English tutoring
- 24/7 online tutoring in 300 subjects (English and Spanish)

- Academic advising with priority registration
- Textbook and laptop loan
- Help with the FAFSA
- Student advocacy and empowerment
- Career exploration
- Transfer planning
- Four-year college visits and tours
- Scholarship search assistance
- Financial literacy training

TECHNOLOGY RESOURCES

The college provides a wide range of computing resources and internet services to students. There are general-purpose computer labs with Windows-based PCs equipped with a variety of software applications. There are specialty labs supporting various educational programs including computer science, graphic arts, music, mathematics, and physics. Many of our labs incorporate delivery of applications via VDI (Virtual Desktop Infrastructure) for reduced energy use and carbon footprint. The campus wireless network has been upgraded to WiFi 6 to improve connectivity. Students also have the option of free access to Microsoft applications under the Microsoft Campus Agreement.

ONLINE COURSES

Kirk Library

360-623-8955

Centralia College offers a variety of course formats called modalities. These options allow extra flexibility in scheduling classes. All of these options require some computer literacy and internet access due to the online course content.

Online Section

Class is held online with no required dates/times for meeting. All activities delivered online through Canvas or similar system.

Virtual Section

Class meets with instructor through Zoom, WebEx, etc. (subject to instructor preference) with required dates and times.

Hybrid Section

Class is a combination of online and face-to-face with instructor on campus at required dates/times.

Hybrid/Virtual Section

Class is a combination of online and using meeting platforms like Zoom, WebEx, etc. with required dates and times specified.

For more information about class registration and becoming a priority student, please see the Registration section. For questions about specific courses being offered, please contact the instructor of the course or the Instruction Office at 360-623-8929.

NOTE: *Persons with a disability who would like accommodations with any of the programs and services of the college can contact the Disability Services Office at 360-623-8966. Students are encouraged to do this as early as possible.*

CONTINUING EDUCATION

Career and Technical Education Office

Technology Building, Room 114
360-623-8940
www.campusce.net/centralia

Centralia College's Continuing Education department offers a variety of non-credit classes, workshops, and certifications that are offered throughout the year. The classes are self-supporting and are offered at various times and locations. The classes are designed for personal enrichment and/or job advancement. The Continuing Education department also develops and coordinates training for business and industry in the local community. Consult the quarterly schedule of classes or contact the Continuing Education department for current offerings or training needs.

Certificate Programs

Centralia College offers several non-credit vocational certificates. Contact the Centralia College Career and Technical Education Office for details.

ACADEMIC AND CREDIT INFORMATION

Full-Time Designation

How many hours does a student need, to be considered full-time?

- Full-time: 12 or more units per quarter
- ¾-time: 9-11 units per quarter
- ½-time: 6-8 units per quarter
- Less than ½-time: 1-5 units per quarter

Units By Class Type

- Lecture/Theory – 1 contact hour per week per unit; 2 hours per week outside work per unit
- Lab/Guided Practice – 2 contact hours per week per unit; 1 hour per week outside work per unit
- Field Studies/Clinical Experience – 3 contact hours per unit per week; no outside work

The following definitions have been established to guide instructional practice, with each definition equating to a minimum of three weekly hours of students' effort per unit.

Lecture/Theory

Students are engaged with faculty and class members in learning theoretical material and/or engaging in activities to apply the theory leading to mastery of course outcomes. Modes of instructional delivery could include but are not limited to: lecture, small group discussion, guided conversation, demonstration, case studies, role playing, problem-based inquiry, and collaborative activities. Instruction may be a mix of presentation, facilitation, and guided activities evidenced by frequent ongoing communication between instructor and students. Such activities could take place in a variety of instructional modalities. One credit is generated by one weekly contact hour of instruction or the equivalent amount of work over a different amount of time. Generally, this requires out-of-class student effort, typically two hours per class hour.

Lab/Guided Practice

Students are actively engaged in practicing and mastering skills under the supervision of the instructor. This category of instruction could include but are not limited to labs, studios, shops, clinical experiences, computer-mediated learning, hands-on projects, or other skill building activities. Instruction may be individualized or group-focused and include skills assessment. Such activities could take place in a variety of instructional modalities. One credit is generated by two weekly

contact hours of instruction or the equivalent amount of work over a different amount of time. May also include out-of-class student effort, typically one hour per two class hours.

Field Studies/Clinical Experience

Students are engaged in autonomous study or related work activity under the intermittent supervision of the instructor. This mode includes working with or under the direction of professional practitioners and may include preceptorships, co-ops, internships, or service learning activities. Verification of learning outcomes is documented by college faculty in collaboration with professional practitioners. One credit is generated by a minimum of three weekly contact hours of supervised learning experience. Programs may determine that additional hours are needed for the student learning needs. However, only one credit will be generated for enrollment counting purposes. *Source: https://www.sbctc.edu/colleges-staff/policies-rules/policy-manual/chapter-5.aspx*

Class Breaks

The normal class schedule is 50 minutes, with 10 minutes between classes. Labs and block classes operate on extended class periods of two or more hours. In those cases, it is appropriate for faculty to provide students with break periods. However, the cumulative time for breaks should not exceed the total of 10 minutes per hour. Students should be back in class and fully productive at the end of the break period. Breaks should be scheduled regularly throughout the class period and class periods may not be shortened by elimination of the break periods.

Class Dismissals

Holding classes in accordance with adopted schedules has high priority in the educational program. However, the class periods can, on occasion, be superseded by other educational opportunities.

Class and Office Disruptions and Student Discipline

Centralia College exists to provide educational programs for its students and activities that disrupt the educational process will not be tolerated. All members of the faculty and staff have a responsibility to ensure the orderly conduct of the educational process.

STUDENT TRANSFER

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

Only the Associate in Arts (AA) 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 Applied Science (AAS) 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.

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.

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)

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 Transfer Council (JTC). 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 Transfer Council (JTC). 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 units 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.

DEGREES AND CERTIFICATES

Centralia College offers different degrees to meet varied student needs. All associate degrees require a minimum of 90 units. To be eligible for a degree or certificate from Centralia College, students must earn at least 15 credits or 25 percent (whichever is lower) of the credits being applied towards the degree or certificate from Centralia College – see Academic Residency in this catalog for details. 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 their 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 units. Students may still need to complete more than 90 quarterly units 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 units will be accepted in transfer. Depending upon the institution, students may have their units evaluated on a course by course basis. Centralia College Limited Transfer degrees include:

Associate In Applied Science – Transfer

Career and Technical 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 Career and Technical Education degrees include: Associate in Applied Science.

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 units required for the degree will transfer or that general university requirements will be satisfied.

Certificates Of Proficiency

Certificates of Proficiency are Career and Technical Education programs that require at least 45 units and which provide job specific skills.

Certificates Of Completion

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

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.

STUDENT LEARNING COMPETENCIES

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 student learning competencies:

Critical Analysis: the student effectively evaluates information and creates solutions through observation, reflection, reasoning, and experience.

Communication: the student effectively conveys information and ideas by adapting their communication style to different situations and audiences when speaking, writing, and listening to others.

Global Awareness & Cultural Competency: the student effectively engages with the multi-cultural world by studying the practices and perspectives of varying communities and cultures.

Information Literacy: the student effectively engages in a reflective process of inquiry to find, evaluate, use, and ethically create content

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 Career and Technical Education degree or certificate includes courses that enable students to achieve profession-specific program 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 units in courses numbered 100 or above, with a cumulative grade point average (GPA) of at least 2.0 ("C" average).

The 90 units must include the following:

Core Skills - 15 units

A. Communication Skills 10 units
   ENGL& 101, ENGL& 102, ENGL& 235
B. Quantitative Skills 5 units

Humanities - 15 units
Select from at least three of the disciplines listed on the distribution list. No more than 5 units in foreign language at the 100 level may apply.

Social Sciences - 15 units
Select from at least three disciplines listed on the distribution list.

Natural Sciences - 15 units
Select from at least two disciplines on the distribution list. Include at least one laboratory course.

Health and Fitness - 3 units
Selected from either discipline listed on the distribution list.

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

Academic Electives - 27 units
A minimum of 27 elective units are required. Elective courses may be selected to satisfy major emphasis requirements (see program summaries section), or to satisfy department requirements of the college/university chosen for transfer. If desired, students may include up to a maximum of 12 units from courses numbered 100 and above that are not included on the ICRC approved electives list. A maximum of three (3) PE units may be included in the AA degree.

Associate In Science Degree

The Associate in Science degree represents attainments generally required by four-year colleges and universities for pre-professional 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:

1. A minimum of 90 units is required for the degree.
2. A minimum grade point average (GPA) of 2.0 ("C" average) is required for the degree.
3. 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.
4. 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:

Core Skills - 15 units

A. Communication Skills 5 units
   ENGL& 101
B. Quantitative Skills 10 units
   MATH& 151, MATH& 152

Humanities & Social Sciences - 15 units

Select from at least three disciplines listed on the distribution list with at least 5 units from humanities (H) and 5 units from social sciences (SS). The remaining 5 units can be from either category.

Health and Fitness - 3 units

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

Diversity - 3-5 units

A 3 to 5 unit course listed as a Diversity (D) course. Diversity courses may carry another distribution designation that can be counted toward both distribution requirements.

Track I – Biological Sciences, Environmental/Resource Sciences, Chemistry, Geology, Earth Science
Core Requirements: - 48-56 units

A. CHEM& 161, 162, 163
B. MATH& 146 or MATH& 163
   Students should work with an advisor to determine the best class based upon the specific discipline at the baccalaureate institution the student selects to attend.
C. BIOL& 221, 222, 223, or PHYS& 114 115, 116, or PHYS& 221, 222, 223
D. An additional 10-18 units in physics, geology, organic chemistry, biology, or mathematics, consisting of courses generally taken for science majors. Preferably in a 2-3 quarter sequence. Biology majors should select CHEM& 261, 262, 263, or PHYS& 114, 115, 116, or PHYS& 221, 222, 223.

Remaining Units: 1-9 units

Sufficient additional college-level units so that the total units earned are at least 90-quarter units. These remaining units may include prerequisites for major courses, additional pre-major coursework, or specific general education or other university requirements, as approved by the advisor.

A list of classes that should be considered for the units:

- BIOL& 241, BIOL& 242, BIOL 243
- BIOL 250
- BIOL& 260
- CHEM& 261, CHEM& 262, CHEM& 263
- GEOL& 101, GEOL 102, GEOL& 103

- MATH 118
- MATH 212
- PHYS& 114, PHYS& 115, PHYS& 116
- PHYS& 221, PHYS& 222, PHYS& 223

No more than two units of non-academic electives.

Track II – Atmospheric Science, Computer Science, Engineering, Physics
Core Requirements: - 26 units

A. PHYS& 221, 222, 223
B. CHEM& 161
C. MATH& 163 or MATH& 146
   Students should work with an advisor to determine the best class based upon the specific discipline at the baccalaureate institution the student selects to attend.

Remaining Units: - 31 units
The remaining 31 units should be planned with the help of an advisor based on the requirements of the specific discipline at the baccalaureate institution the student selects to attend.

No more than two units of non-academic electives.

Electives up to a maximum of 5 units 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.

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 units 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 units 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 program 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 units

B. **Quantitative Reasoning** - (see distribution list) - 5 units
C. **Humanities & Social Science -** (see distribution list) - 10 units
D. **Health & Fitness** - (see distribution list) - 3 units

CAREER AND TECHNICAL DEGREES

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 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 units must include the following related instruction minimum requirements:

A. Written Communication Skills - 5 units
B. **Health and Fitness - 3 units** from list of approved health or PE courses in Health and Fitness distribution (HF)
C. Computation Skills - 5 units

Programs vary in total units necessary to obtain a degree, although the minimum requirement is 90 units. Core program units 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 units in courses numbered 100 or above, with a cumulative grade point average of at least a 2.0 ("C" average).

The 90 units must include the following:
Forty-three (43) units taken in communication skills, humanities, math/natural sciences, social sciences, and health and fitness consisting of the following:

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

An additional 47 units 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 are less than 45 units. The courses tend to concentrate on one set of skills.

Certificates Of Proficiency

Students may earn a Certificate of Proficiency by completing a professional/technical program which typically requires a minimum of 45 units, includes related instruction, and a grade point average (GPA) of at least 2.0 ("C"). At times, the State Board of Community Colleges (SBCTC), will approve a certificate of proficiency between 40-44 units based on strong evidence provided by the college during the program approval process. Certificates of Proficiency are awarded in these programs:

- Accounting Clerk
- Criminal Investigation
- Industrial Trades
- Medical Office Assistant / Medical Scribe
- Office Applications / Office Assistant
- Phlebotomy
- Retail Management
- State Early Childhood Education Certificate
- Welding

Transitional Studies Programs

Transitional Studies help you learn English, earn a high school diploma or GED, or prepare for college and job training. Classes are offered in the morning and evening and at various locations throughout Lewis County. The cost is $25 per quarter (waivers are available). Most programs are open to students age 16 years and older. Any student younger than 19 must provide a high school release form. Contact Transitional Studies at 360-623-8957 or BEdA@centralia.edu.

English Language Acquisition (ELA)

Non-native English students learn to listen, speak, read, and write English. Students learn basic computer skills and prepare for academic and Career and Technical classes. Students will thrive in the community and at work.

Civics

Reading for Civics is a citizenship preparation class. Students learn to complete the N-400 (Citizenship) application, and prepare for the naturalization interview with USCIS. Students gain confidence and learn interview skills. They also practice reading, writing, speaking, and listening in English.

Adult High School Diploma

High School Plus is a competency-based high school diploma program for adult learners 18 and older who do not have a high school diploma or equivalent.

Please submit an official high school transcript to the Enrollment Services prior to advising. Official transcripts can be submitted directly to Enrollment Services (second floor, TransAlta Commons) or mailed to: Enrollment Services, 600 Centralia College Blvd., Centralia, WA 98531-4099

GED

GED classes focus on GED topics to help students prepare for the Mathematical Reasoning, Reasoning Through Language Arts, Social Studies, and Science tests.

Career and College Preparation

Students with a high school diploma or GED can brush up on their reading, writing, and math for college level classes, to prepare for job training or for entering the job market. Students enrolled in college preparation classes can take other college classes at the same time.

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/Quantitative Skills
SS – Social Science
NS – Natural 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 units.
2. 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 (Competencies: Communication and Global Awareness & Cultural Competency).
    - Apply analytical thinking to reading, writing, revising, and discussion activities (Competencies: Critical Analysis, Communication, Global Awareness & Cultural Competency).
    - Prepare clearly organized and well-supported written works, including specific documentation formats, which meet the conventions of assignments (Competencies: Critical Analysis and Communication).
    - Collaborate with others respectfully and with attention to guidelines given for various projects (Competencies: Global Awareness & Cultural Competency)
    - Discuss and respond to writings drawn from diverse traditions, ethnicities, cultures, classes, and genders (Competencies: Global Awareness & Cultural Competency)
    - Access and utilize appropriate technologies and library resources in the preparation of written and oral projects (Competencies: Communication, Information Literacy, and Global Awareness & Cultural Competency).

English

ENGL& 101 English Composition I 5
ENGL& 102 Composition II 5
ENGL& 235 Technical Writing 5

Quantitative Skills (M)

1. 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:
3. Recognize and then apply mathematical concepts to personal, professional and scientific situations. (Competencies: Critical Analysis).
4. Communicate ideas through mathematics graphically, symbolically, numerically and verbally with clarity and accuracy. (Competencies: Communication).
5. Utilize technology as a tool in the application of mathematical concepts. (Competencies: Information Literacy).

Math

MATH& 107 Math in Society 5
MATH 118 Linear Algebra 5
MATH 128 Discrete Structures 5
MATH& 131 Math for Elementary Ed I 5
MATH& 132 Math for Elementary Ed II 5
MATH 135 Precalculus Refresher 5
MATH& 141 Precalculus I 5
MATH 142 Precalculus II 5
MATH& 146 Introduction to Stats 5
MATH 147 Finite Math for Business 5
MATH& 148 Business Calculus 5
MATH& 151 Calculus I 5
MATH& 152 Calculus II 5
MATH 228 Discrete Mathematics 5
MATH 245 Statistical Programming 5
MATH 246 Intermediate Statistics 5
MATH 315 Teaching Math * 5

MATH 350 Managerial Statistics * 5

*Although this class offers distribution, it is only available to students in specific BAS programs.

Other Requirements

Humanities (H)

1. The course carries three or more units.
2. The course objectives address three or more of the following outcomes:
    a. Students should be able to:
        - Articulate the roles, purposes, and functions of the Humanities using discipline-specific vocabulary. (Competencies: Critical Analysis and Communication).
        - Recognize and apply the discipline-specific structures used to communicate critically and/or creatively. (Competencies: Critical Analysis and Communication).
        - Access and utilize appropriate technologies to research, experience, and respond to the Humanities (Competencies: Critical Analysis, Communication and Information Literacy).
        - Explore and assess how language, philosophy, and/or the arts represent and record individuals' and communities' engagement with social issues. (Competencies: Global Awareness and Cultural Competency)
        - Demonstrate an understanding of, and appreciation for, how these humanities influence, and are influenced by, their cultural contexts. (Competencies: Critical Analysis, Global Awareness and Cultural Competency).

American Sign Language

ASL& 121 Am Sign Language I 5
ASL& 122 Am Sign Language II.....5
ASL& 123 Am Sign Language III 5

Art

ART& 100 Art Appreciation 5
ART 102 Drawing I *.....5
ART 106 Printmaking I 5
ART 110 2D Design *.....5
ART 111 3D Design.....5
ART 112 Color Theory.....5
ART 130 Computer Graphics *.....5
ART 135 Graphic Design Layout * 5
ART 160 Intro to Fibers *.....5
ART 174 Digital Photography * 5
ART 200 Art History: Ancient 5
ART 201 Art History: 15th -17th C.....5
ART 202 Art History: 18th-20th C.....5
ART 220 3D Modeling & Animation.....5

Chinese

CHIN& 121 Chinese I **.....5
CHIN& 122 Chinese II ** 5
CHIN& 123 Chinese III ** 5
CHIN& 221 Chinese IV **.....5
CHIN& 222 Chinese V **.....5
CHIN& 223 Chinese VI **.....5

Communication Studies

CMST& 102 Intro to Mass Media 5
CMST 104 Racism, Sexism & Media.....3
CMST 110 Social Media Communication 5
CMST 130 Debate I 3
CMST& 220 Public Speaking 5
CMST 240 Adv Public Speaking 5
CMST 250 Intercultural Communication 5
CMST 330 Prof & Organizational Comm *** 5

Drama

DRMA& 101 Intro to Theater.....5
DRMA 105 Theater History 3
DRMA 107 Beginning Acting *.....5
DRMA 108 Intermediate Acting * 5
DRMA 115 Dramatic Performance *.....3
DRMA 120 Introduction to Playwriting 5
DRMA 130 Directing 5
DRMA 201 Advanced Acting *.....5
DRMA 210 Multicultural Theatre 5

English

ENGL& 111 Introduction to Literature.....5
ENGL& 113 Introduction to Poetry.....5
ENGL& 114 Intro to Dramatic Literature.....5
ENGL 160 Women's Literature.....5
ENGL 180 Short Fiction 5
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	222	Screenwriting	5
ENGL	233	Lit for Children & Adolescents	5
ENGL&	244	American Literature	5
ENGL&	245	American Literature II	5
ENGL&	246	American Literature III	5
ENGL	249	The Great American Novel	5
ENGL	251	Science Fiction	5
ENGL	260	Non-Western World Literature	5
ENGL	271	Intermediate Creative Writing	5

French

FRCH&	121	French I **	5
FRCH&	122	French II **	5
FRCH&	123	French III **	5

Humanities

HUM	110	Ethics and Cultural Values	5
HUM&	116	Humanities I	5
HUM&	117	Humanities II	5
HUM&	118	Humanities III	5
HUM	270	Survey of Film Studies	5
HUM	315	Ethics ***	5

Media Studies

M ST	222	Screenwriting	5

Music

MUSC	100	Fundamentals of Music	5
MUSC	101	Music History	5
MUSC&	105	Music Appreciation	5
MUSC	118	Musical Theatre	5
MUSC	139	Music of the World	5
MUSC	140	History of American Music	5
MUSC&	141	Music Theory I	5
MUSC&	142	Music Theory II	5
MUSC&	143	Music Theory III	5
MUSC&	241	Music Theory IV	5
MUSC&	242	Music Theory V	5
MUSC&	243	Music Theory VI	5
MUSC	250	Musical Theatre Production *	5

Philosophy

PHIL&	101	Introduction to Philosophy	5
PHIL	103	Introduction to Ethics	5

Spanish

SPAN&	121	Spanish I **	5
SPAN&	122	Spanish II **	5
SPAN&	123	Spanish III **	5
SPAN&	170	Latin American Texts	5
SPAN&	201	Heritage Spanish I	5
SPAN&	202	Heritage Spanish II	5
SPAN&	221	Spanish IV	5
SPAN&	222	Spanish V	5
SPAN&	223	Spanish VI	5

* No more than five units allowed for distribution in performance/skills courses.
** No more than five units in a foreign language at the 100 level allowed for distribution.
*** Although this class offers distribution, it is only available to students in specific BAS programs.

Social Science (SS)

1. The course carries three or more units.
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 (Competencies: Communication and Global Awareness & Cultural Competency).
    - Identify and apply terminology, concepts, theories, data, and principles used by the various social science disciplines (Competencies: Critical Analysis and Global Awareness & Cultural Competency).
    - Develop an informed sense of self that demonstrates tolerance and respect for diverse perspectives (Competencies: Global Awareness & Cultural Competency and Information Literacy).
    - Demonstrate critical thinking skills through formulating questions, analyzing data, and distinguishing between objective fact and subjective interpretation (Competencies: Critical Analysis).

Anthropology

ANTH&	100	Survey of Anthropology	5
ANTH&	204	Archaeology	5
ANTH&	206	Cultural Anthropology	5
ANTH&	210	Indians of North America	5
ANTH	225	Cultural & Ethnic Pluralism	5
ANTH	235	Myth, Ritual, and Magic	5
ANTH	275	Ethnographic Survey of Taiwan	5

Economics

ECON&	201	Microeconomics	5
ECON&	202	Macroeconomics	5
ECON	305	Managerial Economics *	5

Education

ECED&	105	Intro Early Child Ed	5
EDUC&	115	Child Development	5

Geography

GEOG&	200	Human Geography	5

History

HIST	110	History of Intolerance	3
HIST&	116	Western Civilization I	5
HIST&	117	Western Civilization II	5
HIST&	118	Western Civilization III	5
HIST&	126	World Civilization I	5
HIST&	127	World Civilization II	5
HIST&	128	World Civilization III	5
HIST&	146	U.S. History I	5
HIST&	147	U.S. History II	5
HIST&	148	U.S. History III	5
HIST	210	Intro to Pacific Asian History	5
HIST&	214	Pacific NW History	5
HIST&	215	Women in US History	5
HIST&	220	African American History	5
HIST	280	American Foreign Relations	5

Linguistics

LING	101	Intro to Linguistics	5
LING	102	World Languages Survey	5

Political Science

POLS&	101	Intro Political Science	5
POLS&	202	American Government	5
POLS&	204	Comparative Government	5
POLS	280	Hist of American Foreign Rel	5

Psychology

PSYC&	100	General Psychology	5
PSYC&	200	Lifespan Psychology	5
PSYC	320	Leadership & Org Behavior *	5

Sociology

SOC&	101	Intro to Sociology	5
SOC	125	Sociology of the Family	5
SOC&	201	Social Problems	5
SOC	225	Cultural & Ethnic Pluralism	5

Social Studies

SST	365	Teaching Social Studies *	5

*Although this class carries distribution, it is only available to students in specific BAS programs.

Natural Science (NS)

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. (Competencies: Communication).
    - Apply the scientific method to solve problems, conduct experiments, evaluate data, and test hypotheses. (Competencies: Critical Analysis, Communication, Global Awareness & Cultural Competency).
    - Critically evaluate scientific information and its sources (Competencies: Critical Analysis, Global Awareness & Cultural Competency).

Anthropology

ANTH&	205	Biological Anthropology	5
ANTH&	215	Bioanthropology w/Lab	5
ANTH&	236	Intro to Forensic Anthropology	5

Astronomy

ASTR	125	The Solar System	3
ASTR	126	Stars & Galaxies	3
ASTR	127	The Solar System & Universe	5
ASTR	128	Observational Astronomy	2

Biology

BIOL&	160	General Biology w/Lab	5
BIOL&	170	Human Biology	5
BIOL&	221	Majors Ecology/Evolution w/lab	5
BIOL&	222	Majors Cell/Molecular w/lab	5
BIOL&	223	Majors Organismal Phys w/lab	5
BIOL&	241	Human A & P 1 w/lab	5
BIOL&	242	Human A & P 2 w/lab	5
BIOL	243	Adv Topics Human A & P w/lab	5
BIOL	250	Intro to Marine Biology w/lab	5
BIOL&	260	Microbiology w/lab	5
BIOL	360	Life Science Concepts *	5

Botany

BOTA	110	Survey of Botany (lab	5
BOTA	113	Plant Identification w/lab	5
BOTA	150	Dendrology-Trees in Our Env	5

Chemistry

CHEM&	110	Chemical Concepts w/lab	5
CHEM&	121	Intro to Chemistry w/lab	5
CHEM&	131	Intro to Organic/Biochemistry	5
CHEM&	139	General Chemistry Prep	5
CHEM&	161	General Chemistry w/lab I	6
CHEM&	162	General Chemistry w/lab II	6
CHEM&	163	General Chemistry w/lab III	6
CHEM&	261	Organic Chemistry w/lab I	6
CHEM&	262	Organic Chemistry w/lab II	5
CHEM&	263	Organic Chemistry w/lab III	5

Environmental Science

ENVS&	100	Survey of Env Science	5
ENVS	100L	Survey of Env Sci Lab	1
ENVS&	101	Intro to Env Science	5
ENVS	120	Watersheds	5
ENVS	170	Natural Resources Mgmt	3
ENVS	440	Environmental Issues *	5

Geography

GEOG	201	Physical Geography w/lab	5

Geology

GEOL&	101	Intro Physical Geology	5
GEOL	102	Physical Geology II	5
GEOL&	103	Historical Geology w/lab	5
GEOL	106	Survey of Earth Sciences	5
GEOL	108	Natural Hazards & Catastrophes	5
GEOL	180	Cascade & Plateau Geology	3
GEOL&	208	Geology of the Pacific NW w/lab	5

Nutrition

NUTR&	101	Nutrition	5
NUTR	103	Intro Food Science W/Lab	5
NUTR	203	Issues in Nutrition	5

Oceanography

OCEA&	101	Intro to Oceanography w/lab	5

Physics

PHYS&	110	Phys: Non-Science Majors w/lab	5
PHYS&	114	General Physics I w/lab	5
PHYS&	115	General Physics II w/lab	5
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	5
SCIE	115	Weather and Climate w/lab	5

* Although this class offers distribution, it is only available to students in specific BAS programs.

Health and Fitness (HF)

The course provides the student with knowledge and skills that enable them to achieve and maintain optimal health over a lifetime. Health and Physical Education courses are non-academic electives.

Health

HLTH	120	Women's Health Issues	3
HLTH	130	Health and Wellness	3
HLTH	135	Healthy Weight Control	2
HLTH	140	Exercise and Nutrition	3
HLTH	141	Global Health Issues	3
HLTH	143	Stress Management	2
HLTH	144	Technology Health/Fitness	2
HLTH	145	Safety and Fitness	3

Physical Education

(No more than 3 units may be counted toward a transfer degree)

PE	107	Cycling Basics	2
PE	110	Physical Fitness	1
PE	111	Fitness in the Workplace	1-2
PE	120	Lifestyle Mgmt & Exercise	2
PE	121	Stretching & Flexibility	1
PE	123	Weight Training	1
PE	125	Free Weights	1
PE	140	Boot Camp Basics	1
PE	142	Cardio Conditioning	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	168	Lifetime Fitness	2
PE	210	Advanced Physical Fitness	1
PE	223	Advanced Weight Training	1
PE	229	Physical Fitness Concepts	3
PE	251	Advanced Aerobic Fitness	1

Diversity (D)

1. The course carries three or more units.
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. (Competencies: Critical Analysis, Global Awareness & Cultural Competency, and Information Literacy).
    - Analyze the multiple identities, histories, cultures, perspectives, contributions, knowledge, struggles, and/or strategies of historically excluded groups. (Competencies: Critical Analysis, Global Awareness & Cultural Competency, and Information Literacy).
    - Explain the value of diversity in the classroom, workplace, community, country, and the world. (Competencies: Critical Analysis, Communication, Global Awareness & Cultural Competency, and Information Literacy).
    - Explain personal views, values, and prejudices and their impact on the ability to identify and benefit from the contributions of others. (Competencies: Critical Analysis, Communication, Global Awareness & Cultural Competency, and Information Literacy).

Anthropology

ANTH&	100	Survey of Anthropology	5
ANTH&	206	Cultural Anthropology	5
ANTH&	210	Indians of North America	5
ANTH	225	Cultural & Ethnic Pluralism	5
ANTH	235	Myth, Ritual, and Magic	5
ANTH	275	Ethnographic Survey Taiwan	5

Art

ART&	100	Art Appreciation	5
ART	200	Art History: Ancient	5
ART	201	Art History: 15th-17th C	5
ART	202	Art History: 18th-20th C	5

Chinese

CHIN&	121	Chinese I	5
CHIN	270	History/Culture Rep of China	5

Communication Studies

CMST&	104	Racism, Sexism & Media	3
CMST	250	Intercultural Communication	5

English

ENGL	160	Women's Literature	5
ENGL	233	Children's Literature	5
ENGL&	245	American Literature II	5
ENGL&	246	American Literature III	5
ENGL	260	Non-Western World Literature	5

Geography

GEOG&	200	Human Geography	5

Health

HLTH	120	Women's Health Issues	3
HLTH	141	Global Health Issues	3

History

HIST	110	History of Intolerance	3
HIST&	126	World Civilization I	5
HIST&	127	World Civilization II	5
HIST&	128	World Civilization III	5
HIST	210	Intro to Pacific Asian History	5
HIST&	215	Women in US History	5
HIST&	220	African American History	5

Humanities

HUM	110	Ethics and Cultural Values	5

Linguistics

LING	102	World Languages Survey	5

Music

MUSC	101	Music History	5
MUSC&	105	Music Appreciation	5
MUSC	139	Music of the World	5
MUSC	140	History Amer. Popular Music	5

Political Science

POLS&	204	Comparative Government	5

Sociology
SOC 225 Cultural & Ethnic Pluralism.....5

Spanish
SPAN 170 Latin American Texts.....5

INTERCOLLEGE RELATIONS COMMISSION (ICRC) APPROVED ACADEMIC ELECTIVES

For additional information and current transfer policies, please refer to the Intercollege Relations Commission (ICRC) Handbook at https://www.wa-council.org/icrc/

Accounting.....201, 202, 203
Anthropology.....all courses numbered 100 and above
American Sign Language.....121, 122, 123
Art.....100, 102, 111, 130, 160, 174, 200, 201, 202, 203, 210, 211
Astronomy.....all courses numbered 100 and above
Biology.....all courses numbered 100 and above
Botany.....all courses numbered 100 and above
Business Administration.....101, 201
Chemistry.....all courses numbered 100 and above
Chinese.....all courses numbered 100 and above
Communication Studies.....all courses numbered 100 and above
Criminal Justice.....101, 104, 105, 106, 110, 240
Drama.....all courses numbered 101 and above
Early Childhood Education.....*105*
Economics.....all courses numbered 100 and above
Education.....115, 201, 205
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
History.....all courses numbered 100 and above
Humanities.....all courses numbered 100 and above
Information Technology.....CS& 131, CS& 141, IT 101
Journalism.....180
Mathematics.....all courses numbered 107 and above (except 110 and 116)
Media Studies.....125, 220, 225, 230, 260
Music.....all courses numbered 100 and above
Nutrition.....101, 103, 202, 203
Oceanography.....101
Philosophy.....all courses numbered 100 and above
Physics.....all courses numbered 100 and above
Political Science.....all courses numbered 100 and above
Psychology.....all courses numbered 100 and above
Science.....all courses numbered 100 and above
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 Applied Science
Total Units: 90
Class Type: Lecture, Lab, Hybrid, Online

PURPOSE: The AAS 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: Upon successful completion, students will have demonstrated the ability to:

- Manage accounting information and data in a variety of business settings.
- Prepare financial statements in accordance with Generally Accepted Accounting Principles (GAAP).
- Assist in conducting audits in accordance with Generally Accepted auditing Standards (GAAS).
- Use the computer accounting software QuickBooks.
- Calculate tax liability and prepare tax forms for individuals and business entities.
- Prepare written and oral business communications to industry standards using word processing and spreadsheet software.

Suggested Order of Classes

Term 1			***Units***
ACCT&	201	Principles of Accounting I	5
BTEC	214	Excel I	5
BTEC	120	Applied Business Math	OR
MATH&	146	Introduction to Stats (M) **	5
			15

Term 2			***Units***
ACCT&	202	Principles of Accounting II	5
BTEC	221	Business Communications	OR
ENGL&	101	English Composition I (C) **	5
BTEC	210	Word I	5
			15

Term 3			***Units***
ACCT&	203	Principles of Accounting III	5
ECON&	201	Microeconomics (SS) **	OR
ECON&	202	Macroeconomics (SS) **	5
H R	110	Human Relations-Workplace	5
Health & Fitness Distribution (HF)			3
			18

Term 4			***Units***
ACCT	260	Individual Income Tax	5
ACCT	270	Payroll Accounting	3
BUS	215	Principles of Finance	5
			13

Term 5			***Units***
ACCT	240	Business Entity Taxation	5
BUS&	201	Business Law	5
Business Elective *			5
			15

Term 6			***Units***
ACCT	210	Intro to Audit	5
ACCT	220	QuickBooks	4
ACCT	285	Bookkeeper Certification Course	5
			14

* Business Elective: BUS& 101, BUS 275, BUS 225, ENGL& 102**, MATH& 146**, or 5 units of distribution**

**Indicates course options to fulfill BAS-AM general education requirements.

ACCOUNTING

Emphasis: Accounting Clerk
Degree: Certificate of Proficiency
Total Units: 47
Class Type: Lecture, Lab, Hybrid, Online

PURPOSE: The Accounting Clerk 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: Upon successful completion, students will have demonstrated the ability to:

- Manage accounting information and data in a variety of business settings.
- Use the computer accounting software QuickBooks.
- Prepare written and oral business communications to industry standards using word processing and spreadsheet software.

Suggested Order of Classes

Term 1			***Units***
ACCT&	201	Principles of Accounting I	5
ACCT	270	Payroll Accounting	3
BTEC	214	Excel	5
BUS	120	Applied Business Math	5
			18

Term 2			***Units***
ACCT&	202	Principles of Accounting II	5
BTEC	210	Word I	5
BTEC	221	Business Communications	OR
ENGL&	101	English Composition I	5
			15

Term 3			***Units***
ACCT&	203	Principles of Accounting III	5
ACCT	220	QuickBooks	4
H R	110	Human Relations-Workplace	5
			14

ACTING

See Dramatic Arts

ANTHROPOLOGY

Emphasis: Anthropology
Degree: Associate in Arts
Total Units: 90-93

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 our 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.

For additional information concerning the anthropology major, feel free to consult the anthropology faculty advisor.

Suggested Order of Classes

Term 1		***Units***
ANTH& 100	Survey of Anthropology (SS) (D)	5
ENGL& 101	English Composition I (C)	5
Humanities Distribution (H) *		5
		15

Term 2		***Units***
ANTH& 210	Indians of North America (SS) (D)	5
ENGL& 102	Composition II (C)	5
Humanities Distribution (H) *		5
		15

Term 3		***Units***
ANTH& 215	Bioanthropology w/ Lab (NS)	5
ANTH 235	Myth, Ritual, and Magic (D) (SS)	5
Quantitative Skills Distribution (M) **		5
		15

Term 4		***Units***
ANTH& 206	Cultural Anthropology (SS) (D)	5
Natural Science Distribution (NS)		5
Social Science Distribution (SS) ***		5
		15

Term 5		***Units***
Electives		7-10
Health & Fitness Distribution (HF)		3
Social Science Distribution (SS) ***		5
		15-18

Term 6		***Units***
ANTH 225	Cultural and Ethnic Pluralism in Contemporary Society (SS) (D)	5
Elective		5
Humanities Distribution (H)		5
		15

* A foreign language is strongly recommended.
** MATH& 146 Introduction to Stats (M) is recommended.
*** HIST& 116 Western Civilization I is recommended for Anthropology students desiring to specialize in Archaeology.
ANTH 260 or ANTH 290, Anthropology Fieldtrip, is strongly recommended.
Anthropology majors are encouraged to develop a broad base in the social sciences to include: SOC& 101-Intro to Sociology, and PSYC& 100-General.

ART

See Fine Arts or Graphic Design

ASTRONOMY

See Earth Science

BIOLOGY

Emphasis: Biology, Botany, Ecology, Zoology
Degree: Associate in Biology-DTA/MRP
Total Units: 99

PURPOSE: This program is for students who wish to complete a bachelor's degree is such disciplines as general or molecular biology, microbiology, zoology, 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, plan your program of study with your advisor and with the specific requirements of your likely transfer institution.

Suggested Order of Classes

Term 1		***Units***
CHEM& 161	General Chem w/ Lab (NS)	6
ENGL& 101	English Composition I (C)	5
MATH& 141	Pre-Calculus I (M)	OR
Humanities Distribution (H) *		5
		16

Term 2		***Units***
CHEM& 162	General Chem w/Lab II (NS)	6
ENGL& 102	Composition II (C)	OR
ENGL& 235	Technical Writing (C)	5
MATH& 142	Pre-Calculus II (M)	OR
Social Science Distribution (SS) *		5
		16

Term 3		***Units***
CHEM& 163	General Chem w/ Lab III (NS)	6
MATH& 151	Calculus I (M)	5
Humanities Distribution (H) ***		5
		16

Term 4		***Units***
BIOL& 221	Majors Ecology/Evolution (NS)	5
Elective **		OR
Social Science Distribution (SS) *		5
Humanities Distribution (H) ***		5
		15

Term 5		***Units***
BIOL& 222	Majors Cell/Molecular (NS)	5
Elective **		OR
Social Science Distribution (SS)		5
Health & Fitness Distribution (HF)		3
Humanities Distribution (H) *		5
		18

Term 6		***Units***
BIOL& 223	Majors Organismal Phys (NS)	5
Elective		5
Social Science Distribution (SS)		5
		15

* Students requiring Pre-Calculus I or II should complete these now. 2nd year electives can be used for 3rd Social Science or Humanities electives. Students who do not need Pre-Calculus I or II should satisfy Social Science and Humanities electives.
** Recommended electives include a full year sequence of Organic Chemistry or additional math classes, such as Statistics or Calculus II.

BIOLOGY

Emphasis: Animal (Zoology) Biology, Plant (Botany) Biology
Degree: Associate in Science
Total Units: 91-94

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.

If you are not well-prepared in high school mathematics and science, you should plan, with your 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 your mathematics, basic sciences, communications, and reading skills.

To ensure optimal course selection, plan your program of study with your advisor.

Suggested Order of Classes

Term 1		***Units***
BIOL& 221	Majors Ecology/Evolution (NS)	5
CHEM& 161	General Chem w/ Lab I (NS)	6
ENGL& 101	English Composition I (C)	5
		16

Term 2		***Units***
BIOL& 222	Majors Cell/Molecular (NS)	5
CHEM& 162	General Chem w/ Lab II (NS)	6
MATH& 151	Calculus I (M)	5
		16

Term 3		***Units***
BIOL& 223	Majors Organismal Phys (NS)	5
CHEM& 163	General Chem w/ Lab III (NS)	6
MATH& 152	Calculus II (M)	5
		16

Term 4		***Units***
Biology/Chemistry/Physics sequence *		5-6
Health & Fitness Distribution (HF)		3
Social Science Distribution (SS)		5
		13-14

Term 5		***Units***
MATH& 146	Introduction to Stats (M)	OR
MATH& 163	Calculus III (M)	5
Biology/Chemistry/Physics sequence *		5-6
Humanities Distribution (H)		5
		15-16

Term 6		***Units***
Biology/Chemistry/Physics sequence *		5-6
Social Science Distribution (SS)		OR
Humanities Distribution (H)		5
Elective		5
		15-16

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

* Biology majors should select Organic Chemistry or Physics for second year sequence.

BUSINESS

Emphasis: Business
Degree: Associate in Business-DTA/MRP
Total Units: 90-92

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

Term 1		***Units***
ECON& 202	Macroeconomics (SS)	5
ENGL& 101	English Composition I (C)	5
Humanities Distribution (H)		5
		15

Term 2		***Units***
ECON& 201	Microeconomics (SS)	5
ENGL& 102	Composition II (C)	5
Natural Science Distribution (NS)		5
		15

Term 3		***Units***
CMST& 220	Public Speaking (H)	5
MATH& 146	Introduction to Stats (M)	5
Elective		2-5
Health & Fitness Distribution (HF)		3
		15-18

Term 4		***Units***
ACCT& 201	Principles of Accounting I	5
BUS& 201	Business Law	5
Humanities Distribution (H)		5
		15

Term 5		***Units***
ACCT& 202	Principles of Accounting II	5
MATH 147	Finite Math for Business (M)	5
Natural Science Distribution (NS)		5
		15

Term 6		***Units***
ACCT& 203	Principles of Accounting III	5
MATH 148	Business Calculus (M)	5
Social Science Distribution (SS)		5
		15

BUSINESS ADMINISTRATION / MANAGEMENT

Degree: Associate in Applied Science
Total Units: 93
Class Type: Lecture, Lab, Hybrid, Online

PURPOSE: The Associate in Applied Science in Business Administration 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:** Upon successful completion, students will have demonstrated the ability to:
- Prepare statements to monitor, evaluate, and assess financial performance of a business.
- Evaluate the performance of a business by using tools of pricing, promotion, product development, & 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 regard 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.

Suggested Order of Classes

Term 1			***Units***
BTEC	210	Word I	5
BUS&	101	Introduction to Business	5
CMST&	220	Public Speaking (H)	5
			15
Term 2			***Units***
BTEC	214	Excel I	5
WRT	105	Writing in the Workplace	OR
BTEC	221	Business Communications	OR
ENGL&	101	English Composition I	5
BUS	275	Principles of Management	5
			15
Term 3			***Units***
H R	110	Human Relations-Workplace	5
BTEC	120	Applied Business Math	OR
MATH&	146	Introduction to Stats (M)	5
Health & Fitness Distribution (HF)			3
Business Elective *			5
			18
Term 4			***Units***
ACCT&	201	Principles of Accounting I	5
BUS	203	Human Resource Management	5
Business Elective *			5
			15
Term 5			***Units***
ACCT&	203	Principles of Accounting III	5
Business Elective *			5
Business Elective *			5
			15
Term 6			***Units***
Business Elective *			5
Business Elective *			5
Business Elective *			5
			15

* **Recommended Business Electives**: Any BUS course, up to 10 units of ACCT courses, CMST 110, ENGL& 102**, MATH& 146**, 5 units Natural Science w/lab (NS) **, and 10 units Social Science (SS) **.

** Indicates options to fulfill BAS-AM general education requirements.

BUSINESS OFFICE TECHNOLOGY

Emphasis: Administrative Assistant
Degree: Associate in Applied Science
Total Units: 90
Class Type: Lecture, Lab, Hybrid, Online

PURPOSE: The Associate in Applied Science Administrative Assistant degree prepares 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 may include demonstrated proficiency in English, math, and basic keyboarding skills. Upon completion, students will be prepared to compete for entry-level employment as office assistants, receptionists, and transcriptionists in general offices, legal offices, or medical offices.

PROGRAM OUTCOMES: Upon successful completion, students will have demonstrated the ability to:

- Demonstrate 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
- Demonstrate the ability to relate effectively with others in the classroom
- Demonstrate human relations skills and professional behavior necessary for successful job performance
- Analyze and organize business transactions applying bookkeeping theory and systems
- Demonstrate the ability to apply acquired skills in the workplace
- Compose business letters, memos, resumes, and letters of application
- Enter and organize data using database software
- Enter accounting transactions and generate reports using QuickBooks
- 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 communication skills using electronic software

Suggested Order of Classes

Term 1			***Units***
BTEC	102	Skillbuilding I	3
BTEC	233	Records Management	5
COLL	100	College & Career Success	3
I T	117	Introduction to Windows OS	3
			14

Term 2			***Units***
BTEC	210	Word I	5
BTEC	221	Business Communications	OR
ENGL&	101	English Composition I *	5
H R	110	Human Relations-Workplace	5
			15

Term 3			***Units***
BTEC	120	Applied Business Math	OR
MATH&	146	Introduction to Stats	5
BTEC	219	Word II	5
BTEC	220	Ten-Key Calculator	1
Health & Fitness Distribution **			3
			14

Term 4			***Units***
ACCT&	201	Principles of Accounting	5
BTEC	191	Cooperative Work Exp Seminar	1
BTEC	214	Excel I	5
BUS&	101	Introduction to Business	5
			16

Term 5			***Units***
BTEC	205	Outlook	1
BTEC	222	PowerPoint	1
BUS&	201	Business Law	5
CMST&	220	Public Speaking (H)	5
			12

Term 6			***Units***
ACCT	220	QuickBooks	4
BTEC	190	Cooperative Work Experience	5
BTEC	212	Access I	5
BTEC	224	Office Procedures	5
			19

** Indicates options to fulfill BAS-AM general education requirements.

** HLTH 145 Safety & Fitness is recommended and may be completed any quarter.

BUSINESS OFFICE TECHNOLOGY

Emphasis: Medical Administrative Assistant
Degree: Associate in Applied Science
Total Units: 96
Class Type: Lecture, Lab, Hybrid, Online

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 may include demonstrated proficiency in math, reading, English, and basic keyboarding skills. Upon completion, students will be prepared to compete for entry-level employment as office assistants, receptionists, and transcriptionists in general offices, legal offices, or medical offices.

PROGRAM OUTCOMES: Upon successful completion, students will have demonstrated the ability to:

- Demonstrate 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
- Demonstrate the ability to relate effectively with others in the classroom
- Demonstrate human relations skills and professional behavior necessary for successful job performance
- Analyze and organize business transactions applying bookkeeping theory and systems
- Demonstrate the ability to apply acquired skills in the workplace
- Compose business letters, memos, resumes, and letters of application
- Obtain a first aid and CPR certificate
- Use medical terms correctly
- Demonstrate an understanding of human biology
- Transcribe medical documents from recorded dictation
- Enter patient record information using electronic software
- Demonstrate an understanding of the Health Insurance Portability and Accountability 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.

Suggested Order of Classes

Term 1			***Units***
BTEC	102	Skillbuilding I	3
BTEC	233	Records Management	5
COLL	100	College & Career Success	3
I T	117	Introduction to Windows OS	3
			14

Term 2			***Units***
BTEC	210	Word I	5
BTEC	221	Business Communications	OR
ENGL&	101	English Composition I *	5
H R	110	Human Relations-Workplace	5
			15

Term 3			***Units***
BTEC	120	Applied Business Math	OR
MATH&	146	Introduction to Stats *	5
BTEC	219	Word II	5
BTEC	220	Ten-Key Calculator	1
BTEC	266	Medical Law and Ethics	3
Health & Fitness Distribution **			3
			17

Term 4			***Units***
ACCT&	201	Principles of Accounting	5
BTEC	191	Cooperative Work Exp Seminar	1
BTEC	214	Excel I	5
M A	130	Medical Terminology	5
			16

Term 5			***Units***
BTEC	107	Electronic Medical Records	4
BTEC	205	Outlook	1
BTEC	255	Insurance and Billing	5
CMST&	220	Public Speaking (H)	5
			15

Term 6			***Units***
BIOL&	170	Human Biology (NS) ***	5
BTEC	190	Cooperative Work Experience	5
BTEC	261	Medical Office Procedures	5
BTEC	263	Medical Documentation	4
			19

*Indicates course options to fulfill baccalaureate general education requirements.
** HLTH 145 Safety & Fitness is recommended and can be completed any quarter.
***BIOL 172 Human Biology Lab is recommended for students interested in fulfilling baccalaureate natural science requirement.

BUSINESS OFFICE TECHNOLOGY

Emphasis: Medical Office Assistant
Degree: Certificate of Proficiency
Total Units: 58
Class Type: Lecture, Lab, Hybrid, Online

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: Upon successful completion, students will have demonstrated the ability to:

- Demonstrate 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
- Demonstrate the ability to apply acquired skills in the workplace
- Demonstrate the ability to 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
- Demonstrate an understanding of 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

Suggested Order of Classes

Term 1			***Units***
BIOL&	170	Human Biology (NS)	5
BTEC	102	Skillbuilding I	3
BTEC	233	Records Management	5
M A	139	Medical Terminology	5
			18

Term 2			***Units***
BTEC	107	Electronic Medical Records	4
BTEC	210	Word I	5
BTEC	221	Business Communications	5
BTEC	255	Insurance and Billing	5
			19

Term 3			***Units***
BTEC	120	Applied Business Math	5
BTEC	261	Medical Office Procedures	5
BTEC	266	Medical Law & Ethics	3
H R	110	Human Relations-Workplace	5
Health & Fitness Distribution (HF)			3
			21

BUSINESS OFFICE TECHNOLOGY

Emphasis: Office Assistant
Degree: Certificate of Proficiency
Total Units: 49
Class Type: Lecture, Lab, Hybrid, Online

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: Upon successful completion, students will have demonstrated the ability to:

- Demonstrate 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
- Demonstrate the ability to apply acquired skills in the workplace
- Demonstrate the ability to relate effectively with others in the classroom
- Demonstrate human relations skills and professional behavior necessary for successful job performance
- Analyze and organize business transactions applying bookkeeping theory and systems
- Develop effective presentations using presentation software
- Develop effective communications skills using electronic software
- Possess a basic understanding of receiving office visitors, using the telephone, scheduling appointments, customer service, and confidentiality skills in an office.

Suggested Order of Classes

Term 1			***Units***
ACCT&	201	Principles of Accounting I	5
BTEC	102	Skillbuilding I	3
BTEC	214	Excel I	5
BTEC	233	Records Management	5
			18

Term 2			***Units***
BTEC	205	Outlook	1
BTEC	210	Word I	5
BTEC	221	Business Communications	5
BTEC	222	PowerPoint	1
Health & Fitness Distribution (HF)			3
			15

Term 3			***Units***
BTEC	120	Applied Business Math	5
BTEC	220	Ten-Key Calculator	1
BTEC	224	Office Procedures	5
H R	110	Human Relations-Workplace	5
			16

*HLTH 145 Safety & Fitness is recommended for the Health and Fitness Distribution and can be completed any quarter.

BUSINESS OFFICE TECHNOLOGY

Emphasis: Office Applications
Degree: Certificate of Proficiency
Total Units: 56
Class Type: Lecture, Lab, Hybrid, Online

PURPOSE: This certificate prepares students with the skills needed for entry level positions in office settings or small businesses.

PROGRAM OUTCOMES: Upon successful completion, students will have demonstrated the ability to:

- Demonstrate the ability to keyboard with speed and accuracy
- File correctly using alphabetic, numeric, geographic, and subject filing systems
- Format basic business letters, memos, reports, tables, and newsletters to office standards
- Demonstrate the ability to relate effectively with others in the classroom
- Demonstrate human relations skills and professional behavior necessary for successful job performance
- Demonstrate the ability to apply acquired skills in the workplace
- Formant basic business letters, memos, reports, tables, and newsletters to office standards
- Compose business letters, memos, resumes, and letters of application
- Develop effective presentations using presentation software
- Analyze and calculate data using spreadsheet software
- Prepare documents using advanced features in word processing software
- Enter and organize data using database software
- Develop effective presentations using presentation software

Suggested Order of Classes

Initial Certificate of Completion

Business Technology			***Units***
BTEC	102	Keyboard Skillbuilding I	3
BTEC	214	Excel I	5
I T	117	Intro to Windows OS	3
Health & Fitness Distribution			3
			14

AND

Certificate of Completion

Office Applications Basic			***Units***
BTEC	205	Outlook	1
BTEC	210	Word I	5
BTEC	221	PowerPoint	1
BTEC	233	Records Management	5
			12

AND

Certificate of Completion

Office Applications Advanced			***Units***
BTEC	212	Access	5
BTEC	219	Word 2	5
H R	110	Human Relations-Workplace	5
			15

AND

Certificate of Proficiency

Office Applications			***Units***
BTEC	120	Applied Business Math	5
BTEC	221	Business Communications	5
BTEC	225	Excel 2	5
			15

BUSINESS OFFICE TECHNOLOGY

Emphasis: Office Manager
Degree: Associate in Applied Science
Total Units: 97
Class Type: Lecture, Lab, Hybrid, Online

PURPOSE: The Associate in Applied Science – Office Manager degree prepares students for entry-level management positions in office settings. The coursework prepares students to hire and supervise clerical and administrative staff, develop and monitor department deadlines, effectively use office technology, possess professional verbal and written communication skills, and professionalism needed to support the business.

PROGRAM OUTCOMES: Upon successful completion, students will have demonstrated the ability to:

- Prepare statements to monitor, evaluate, and assess financial performance of a business
- Demonstrate human relations skills and professional behavior necessary for successful job performance
- Explain the importance and challenges of diversity, employee motivation, and employee engagement in the workplace
- Summarize basic laws in regards to business ownership, recruitment and hiring practices, OSHA, and liability.
- Describe the activities involved in each function of management and at various levels of management in the workplace
- Demonstrate 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, table, and newsletters to office standards
- Analyze and calculate data using spreadsheet software.
- Demonstrate the ability to demonstrate effectively with others in the classroom
- Demonstrate the ability to apply acquired skills in the workplace
- Compose business letters, memos, resumes, and letters of application,
- Enter and organize data 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

Suggested Order of Classes

Term 1			***Units***
BTEC	102	Skillbuilding I	3
BTEC	233	Records Management	5
BUS&	101	Intro to Business	5
COLL	100	College & Career Success	3
			16

Term 2			***Units***
BUS	275	Principles of Management	5
BTEC	221	Business Communications	OR
ENGL&	101	English Composition I (C) *	5
BTEC	210	Word I	5
			15

Term 3			***Units***
BTEC	120	Applied Business Math	OR
MATH&	146	Introduction to Stats (M)	5
BTEC	219	Word II	5
BTEC	220	Ten-Key Calculator	1
Health & Fitness Distribution (HF)			3
			14

Term 4			***Units***
ACCT&	201	Principles of Accounting I	5
BTEC	191	Work Experience Seminar	1
BTEC	214	Excel I	5
BUS	203	Human Resource Management	5
			16

Term 5			***Units***
BTEC	205	Outlook	1
BTEC	222	PowerPoint	1
BUS&	201	Business Law	5
CMST&	220	Public Speaking	5
H R	110	Human Relations-Workplace	5
			17

Term 6			***Units***
ACCT	220	QuickBooks	4
BTEC	190	Cooperative Work Experience	5
BTEC	212	Access I	5
BTEC	224	Office Procedures	5
			19

CHEMISTRY

Emphasis: Chemistry
Degree: Associate in Science
Total Units: 99

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 State. You are urged to consult with your advisor to coordinate your program with the requirements at the institution to which you intend to transfer. If you have successfully completed algebra, geometry, trigonometry, pre-calculus, chemistry and physics in high school you are prepared to enter Pre-Calculus Refresher (MATH& 135) and General College Chemistry (CHEM& 161) and completion of your program in four years is possible.

If you are not well prepared in high school mathematics and science, you should plan, with your 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 your mathematics, basic sciences, communications, and reading skills.

To ensure optimal course selection, plan your program of study with your advisor.

Suggested Order of Classes

Term 1		***Units***
CHEM& 161	General Chem w/ Lab I (NS)	6
ENGL& 101	English Composition I (C)	5
Social Science Distribution (SS)		5
		16

Term 2		***Units***
CHEM& 162	General Chem w/ Lab II (NS)	6
CMST& 220	Public Speaking (H)	5
MATH& 151	Calculus I (M)	5
Health & Fitness Distribution (HF)		1
		17

Term 3		***Units***
CHEM& 163	General Chem w/ Lab III (NS)	6
MATH& 152	Calculus II (M)	5
Health & Fitness Distribution (HF)		1
Humanities Distribution (HD)		OR
Social Science Distribution (SS)		5
		17

Term 4		***Units***
CHEM& 261	Organic Chem w/ Lab I (NS)	6
MATH 118	Linear Algebra (M)	5
PHYS& 221	Engineering Physics I (NS)	5
		16

Term 5		***Units***
CHEM& 262	Organic Chem w/ Lab II (NS)	6
MATH& 163	Calculus III	5
PHYS& 222	Engineering Physics II (NS)	5
Health & Fitness Distribution (HF)		1
		17

Term 6		***Units***
CHEM& 263	Organic Chem w/ Lab III (NS)	6
MATH 212	Differential Equations	5
PHYS& 223	Engineering Physics III (NS)	5
		16

CHIROPRACTIC

See Pre-Chiropractic, Pre-Physical Therapy

COMMERCIAL DRIVER LICENSE

Emphasis: Commercial Driver License (CDL)
Degree: Certificate of Completion
Total Units: 12

PURPOSE: The commercial truck driving course provides a comprehensive hands-on skill development and instruction that aligns with the Department of Transportation. The student will maneuver a commercial vehicle in different traffic conditions; operate a tractor-trailer combination; and maneuver the vehicle safely forward and backward around various obstacles.

PROGRAM OUTCOMES: Upon successful completion, students will have demonstrated the ability to:

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

Suggested Order of Classes

Term 1			***Units***
CDL	100	Commercial Truck Driving	12
			12

Prerequisites

- 18 years of age or older
- Pass Federal Department of Transportation health and drug screening
- Valid Washington state driver license
- No DUI, hit and run, reckless, or negligent infractions within the past five years
- Have no more than three moving violations in the past 3 years

COMMUNICATION STUDIES

Emphasis: Communication Studies
Degree: Associate in Arts
Total Units: 91
Class Type: Lecture, Lab, Hybrid

PURPOSE: People who can effectively communicate their opinions, thoughts and ideas can often outperform people who might have higher intelligence quotients but lack solid communication skills. The study of communication - sending and receiving messages, both verbal and nonverbal - is more important than ever in today's fast-paced, collaborative, technology-driven society.

The Associate in Arts degree with an emphasis in Communication Studies is for students who want to complete a two-year program or transfer to a four-year college or university to pursue a Communications related bachelor's degree. Students who obtain a degree in Communications enjoy a wide range of employment opportunities because hiring managers place such a high priority on communication skills (National Association of College Employers, 2014, as cited by Forbes Magazine, 2014).

Suggested Order of Classes

Term 1			***Units***
CMST&	220	Public Speaking (H)	5
CMST	250	Intercultural Communication (D) (H)	5
Humanities Distribution (H)			5
			15

Term 2			***Units***
CMST	104	Racism, Sexism, & Media (D) (H)	3
ENGL&	101	English Composition I (C)	5
MATH&	146	Introduction to Stats (M)	5
Health & Fitness Distribution (HF)			3
			16

Term 3			***Units***
CMST&	102	Intro to Mass Media (H)	5
ENGL&	102	Composition II (C)	5
PSYC&	100	General Psychology (SS)	5
			15

Term 4			***Units***
CMST	240	Advanced Public Speaking (H)	5
PHIL	103	Intro to Ethics (H)	5
Natural Science Distribution (NS)			5
			15

Term 5			***Units***
CMST	110	Social Media Comm. (H)	5
Natural Science Distribution w/ lab (NS)			5
Social Science Distribution (SS)			5
			15

Term 6			***Units***
CMST	130	Debate I (H)	5
Natural Science Distribution (NS)			5
Social Science Distribution (SS)			5
			15

Recommended Humanities Distribution: ART& 100 Art Appreciation, ART 110 2D Design, ART 130 Computer Graphics, ENGL& 111 Intro to Literature, or ENGL 208 Intro to Creative Writing

It is strongly recommended that students confer with an advisor at their potential transfer institution to determine the Communication Studies courses that best support or may be prerequisites for their program. This Educational Plan can possibly be modified to meet their requests

INFORMATION TECHNOLOGY

Emphasis: Application Development
Degree: Associate in Applied Science
Total Units: 96
Class Type: Lecture, Lab, Hybrid, Virtual

PURPOSE: Provides students with a foundation in the principles and philosophies of application development. Successful completion of the two-year program will prepare students for entry-level application/software developer positions. It will also satisfy the requirements necessary for students to pursue a Bachelor of Applied Science degree.

PROGRAM OUTCOMES: Upon successful completion, students will have demonstrated the ability to:

- Creativity and innovation: Students demonstrate creative thinking, construct knowledge, and develop innovative products and processes using technology.
- Communication and collaboration: Students use digital media and environments to communicate and work collaboratively, including at a distance, to support individual learning and contribute to the learning of others.
- Research and information fluency: Students apply digital tools to gather, evaluate, and use information.
- Critical thinking, problem-solving, and decision making: Students use critical thinking skills to plan and conduct research, manage projects, solve problems, and make informed decisions using appropriate digital tools and resources.
- Digital citizenship: Students understand human, cultural, and societal issues related to technology and practice legal and ethical behavior.
- Technology operations and concepts: Students demonstrate a sound understanding of technology concepts, systems, and operations.

Suggested Order of Classes

Term 1			***Units***
COLL	100	College & Career Success	3
CS&	131	Computer Science I C++	OR
CS&	141	Computer Science I Java	OR
ENGL&	101	English Composition I (C) *	OR
WRT	105	Writing in the Workplace *	5
I T	101	Introduction to Programming	5
I T	150	Relational Databases	5
			18

Term 2			***Units***
H R	110	Human Relations-Workplace	5
I T	111	Programming I *	5
I T	119	Intro to Web Development *	5
			15

Term 3			***Units***
I T	112	Programming II *	5
I T	121	Web Development I *	5
MATH	128	Discrete Structures (M) *	OR
MATH&	142	Pre-Calculus II (M) *	5
			15

Term 4			***Units***
I T	212	Web Development II *	5
I T	113	Programming III *	5
CMST&	220	Public Speaking (H)	5
			15

Term 5			***Units***
I T	213	Web Development III *	5
I T	220	Software Development I *	5
I T Elective			5
			15

Term 6			***Units***
Health & Fitness Distribution			3
I T	221	Software Development II *	5
I T	290	Capstone*	5
I T Elective			5
			18

Recommended IT Electives:
ART 130, ART 220, BUS 250, or any IT or CS& course, ENGL& 102 ** *, 5 units Natural Science w/lab (NS) **, 5 units Social Science (SS) **

*Course has a prerequisite.
**Indicates course options to fulfill BAS-IT: AD general educational requirements.

COMPUTER SCIENCE

Emphasis: Computer Science
Degree: Associate in Arts
Total Units: 93
Class Type: Lecture, Lab, Hybrid

PURPOSE: The AA 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. If you are not well prepared in high school math at least through a second-year algebra course (following geometry), you should plan, with your advisor, a three-year program to prepare you for transfer to a four-year college or university. The emphasis in the first year should be on strengthening your math, basic science, communication, and reading skills. The given sequence begins with MATH& 141, Pre-Calculus I. If possible, start with MATH& 151, Calculus I. Except for the sequences of mathematics, physics, and English composition, the order in which courses are taken is not important.

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

PROGRAM OUTCOMES: Upon successful completion, students will have demonstrated the ability to:

- Script static web pages.
- Code dynamic web pages.
- 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.

Suggested Order of Classes

Term 1		***Units***
ENGL& 101	English Composition I (C)	5
MATH& 141	Pre-Calculus I (M)	5
Health & Fitness Distribution (HF)		3
Humanities Distribution (H)		5
		18

Term 2		***Units***
ENGL& 102	Composition II	5
MATH& 142	Pre-Calculus II (M)	5
Natural Science Distribution (NS)		5
		15

Term 3		***Units***
MATH& 151	Calculus I (M)	5
MATH 228	Discrete Math (M)	OR
Computer Science Elective		5
Humanities Distribution (H)		5
		15

Term 4		***Units***
Computer Science Elective		5
Natural Science Distribution (NS) *		5
Social Science Distribution (SS)		5
		15

Term 5		***Units***
Computer Science Elective		5
Natural Science Distribution (NS)		5
Social Science Distribution (SS)		5
		15

Term 6		***Units***
MATH 228	Discrete Math (M)	OR
Computer Science Elective		5
Humanities Distribution (H)		5
Social Science Distribution (SS)		5
		15

Recommended Complete Science Electives:
MATH 118 Linear Algebra (M), MATH& 152 Calculus II (M), CS& 131 Computer Science I C++, IT 224 Java 1, IT 228 Java 2, IT 230 Java 3

*Recommended Natural Science Distribution: PHYS& 221 Engineering Physics 1

CONSTRUCTION MANAGEMENT

Emphasis: Construction Management
Degree: Associate in Construction Management-DTA/MRP
Total Units: 101

PURPOSE: This degree is 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. This 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.

Elective units should be planned with the help of an engineering advisor and be based on the 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 second 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

Term 1		***Units***
ACCT& 201	Principles of Accounting I	5
ENGL& 101	English Composition I (C)	5
MATH& 146	Introduction to Stats (M)	5
Health & Fitness Distribution (HF)		1
		16

Term 2		***Units***
ACCT& 202	Principles of Accounting II	5
ENGL& 102	Composition II (C)*	OR
ENGL& 235	Technical Writing (C)*	5
ENGR& 111	Engineering Graphics I	2
MATH& 151	Calculus I (M)	5
		17

Term 3		***Units***
ACCT& 203	Principles of Accounting III	5
BUS& 201	Business Law	5
ENGR& 214	Statics*	5
MATH& 152	Calculus II (M)	5
		20

Term 4		***Units***
CHEM& 161	General Chem w/ Lab I (NS)	6
PHYS& 221	Engineering Physics I (NS)	5
Humanities Distribution (H)		5
		16

Term 5		***Units***
ECON& 201	Microeconomics (SS)	5
GEOL& 101	Intro Physical Geology (NS)	5
PHYS& 222	Engineering Physics II (NS)	5
Health & Fitness Distribution (HF)		1
		16

Term 6		***Units***
CMST& 220	Public Speaking (H)	5
ECON& 202	Macroeconomics (SS)*	OR
Social Science Distribution (SS)		5
Humanities Distribution (H)		5
Health & Fitness Distribution (HF)		1
		16

* Select course as appropriate for intended transfer institution.

CRIMINAL JUSTICE

Emphasis: Criminal Justice
Degree: Associate in Applied Science
Total Units: 90-93
Class Type: Lecture, Lab, Hybrid, Online

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 alike. Cooperative education components offered in partnership with regional law enforcement agencies, adult and juvenile correctional institutions.

PROGRAM OUTCOMES: Upon successful completion, students 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

Term 1			***Units***
CJ&	101	Intro Criminal Justice	5
CJ	103	Constitutional Case Law	5
Criminal Justice Elective			5
ENGL&	101	English Composition (C)	OR
WRT	105	Writing in the Workplace	5
			20

Term 2			***Units***
CJ	104	Intro to Law Enforcement	5
CJ	107	Criminal Procedures	5
Criminal Justice Elective			5
			15

Term 3			***Units***
CJ	109	Community Policing	5
CJ&	110	Criminal Law	5
CJ	111	Criminal Justice Ethics	5
Quantitative Skills Distribution (M)			5
			20

Term 4			***Units***
CJ&	106	Juvenile Justice	5
CJ&	112	Criminology	5
CJ	204	Reports, Forms, & Affidavits	5
Criminal Justice Elective			5
			20

Term 5			***Units***
H R	110	Human Relations-Workplace	5
Health & Fitness Distribution			3
Criminal Justice Elective			5
General Education Elective			2-5
			15-18

Recommended General Education Electives

BTEC	101	Keyboarding for Business	3
BTEC	221	Business Communications	5
PSYC&	100	General Psychology	5
SOC&	101	Intro to Sociology	5
SPAN&	121	Spanish I	5

Criminal Justice Elective Units (Classroom=CR/Online=OL)

CJ&105	Intro to Corrections (Fall OL/Fall CR)	5
CJ 126	Homicide Investigation* (Winter CR)	5
CJ 129	Intro to Victimology (Winter CR / Summer OL)	5
CJ 130	Domestic Violence/Abuse (Winter CR / Summer OL)	5
CJ 223	Criminal Investigation (Fall OL / Summer CR)	5
CJ 224	Interview / Interrogation (Fall OL / Winter CR)	5
CJ 228	Crime Scene Photography* (Spring CR)	5
CJ& 240	Intro to Forensic Science (Fall CR / Spring OL)	5

*All Criminal Justice courses are offered in the classroom (CR) and fully online (OL) except those marked with an *, CJ 126, and CJ 228.

CRIMINAL JUSTICE

Emphasis: Criminal Justice
Degree: Associate in Arts
Total Units: 90
Class Type: Lecture, Lab, Hybrid

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, and Federal law enforcement or in the private sector.

PROGRAM OUTCOMES: Upon successful completion, students 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

Term 1			***Units***
CJ&	101	Intro to Criminal Justice	5
CJ	105	Intro to Corrections	5
ENGL&	101	English Composition I (C)	5
			15

Term 2			***Units***
CJ	104	Intro to Law Enforcement	5
ENGL&	102	Composition II (C)	5
MATH&	107	Math in Society (M)	OR
MATH&	146	Introduction to Stats (M)	5
			15

Term 3			***Units***
CJ&	110	Criminal Law	5
Humanities Distribution (H)			5
Natural Science Distribution (NS)			5
			15

Term 4			***Units***
CJ	105	Intro to Corrections	5
POLS&	202	American Government	5
Natural Science Distribution (NS)			5
			15

Term 5			***Units***
PHIL	103	Intro to Ethics (H)	5
Natural Science Distribution (NS)			5
Social Science Distribution (SS)			5
			15

Term 6			***Units***
Health & Fitness Distribution (HF)			3
Social Science Distribution (SS)			5
Electives			7
			15

CRIMINAL JUSTICE

Emphasis: Criminal (Crime Scene) Investigation
Degree: Certificate of Proficiency
Total Units: 50
Class Type: Lecture, Lab, Hybrid, Online

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

PROGRAM OUTCOMES: Upon successful completion, students 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

Core Requirements			***Units***
CJ	126	Homicide Investigation	5
CJ	129	Intro to Victimology	5
CJ	130	Domestic Violence and Abuse	5
CJ	223	Criminal Investigation	5
CJ	224	Criminal Interviews/Interrogations	5
CJ	228	Crime Scene Photography	5
CJ&	240	Intro to Forensic Science	5
			35

Related Instruction			***Units***
BTEC	120	Applied Business Math	5
H R	110	Human Relations-Workplace	5
WRT	105	Writing in the Workplace	5
			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
Total Units: 90-92
Class Type: Lecture, Lab, Hybrid

PURPOSE: The 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, and mining), agriculture equipment, or trucking.

PROGRAM OUTCOMES: Upon successful completion, students 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

Term 1			***Units***
BTEC	214	Excel 1**	OR
I T	117	Intro to Windows OS *	3-5
TRDS	100	Industrial Safety	5
TRDS	101	Career & College Success	3
TRDS	120	Mechanical Systems	5
			16-18

Term 2			***Units***
TRDS	140	Fluid Systems	5
TRDS	180	Electrical Systems	5
HLTH	145	Safety & Fitness *	3
			13

Term 3			***Units***
BTEC	191	Work Experience Seminar	1
DET	102	Forklift *	1
ENGL&	101	English Composition *	OR
WRT	105	Writing in the Workplace *	5
Diesel Program Electives ***			12
			19

Term 4			***Units***
DET	200	Mobile Electrical Systems II	7
DET	220	Internal Combustion Engines II	7
			14

Term 5			***Units***
DET	210	Power Transmission II	7
DET	225	Heavy-Duty Chassis Syst	7
			14

Term 6			***Units***
DET	190	Cooperative Work Experience	OR
DET	230	Practical Shop Applications	7
DET	235	Mobile HVAC Systems	7
			14

* Courses may be taken during the summer quarter.

**Suggested for AAS ERA students.

***Check the Industrial Trades certificate for Diesel, Energy Technology, ERA, and Welding program electives.

Diesel Program Electives (12): DET 120 (7); Welding Elective (5): WELD 151, 180, 181, or 182

Students will need to purchase tools for this program. Please see a diesel instructor for a tool list.

DRAMATIC ARTS

Emphasis: Dramatic Arts
Degree: Associate in Arts
Total Units: 91

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.

This course work can provide an important supplement to the work of those who plan to major in the humanities and social sciences. Dramatic experience brings insight into the complex motivation for human behavior.

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."

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

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

Suggested Order of Classes

Term 1			***Units***
DRMA&	101	Intro to Theatre (H)	5
DRMA	107	Beginning Acting (H)	5
ENGL&	101	English Composition I (C)	5
			15

Term 2			***Units***
DRMA	120	Introduction to Playwriting (H)	5
ENGL&	102	Composition II (C)	5
Health & Fitness Distribution (HF)			1
Social Science Distribution (SS)			5
			16

Term 3			***Units***
DRMA	106		3
Elective			3-5
Natural Science Distribution (NS)			5
			11-13

Term 4			***Units***
Health & Fitness Distribution (HF)			1
Humanities Distribution (H)			5
Quantitative Skills Distribution (M)			5
Social Science Distribution (SS)			5
			16

Term 5			***Units***
ENGL&	114	Intro to Dramatic Lit (H)	5
Health & Fitness Distribution (HF)			1
Elective			3
Natural Science Distribution (NS)			5
			14

Term 6			***Units***
DRMA/MUSC	118	Musical Theatre (H)	5
Natural Science Distribution (NS)			5
Social Science Distribution (SS)			5
			15

EARLY CHILDHOOD EDUCATION

Emphasis: Early Childhood Education
Degree: Associate in Arts
Total Units: 91

PURPOSE: The Early Childhood Education 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. These courses acquaint the student with terms, vocabulary, and activities pertinent to a quality experience within the early childhood education field. Course expectations include tasks to provide a foundation and proficiency for work toward a four-year degree program in early childhood education.

Suggested Order of Classes

Term 1		***Units***
ECED& 105	Intro Early Child Ed (SS)	5
EDUC& 130	Guiding Behavior	3
ENGL& 101	English Composition I (C)	5
Health & Fitness Distribution (HF)		1
		14

Term 2		***Units***
EDUC& 115	Child Development (SS)	5
ENGL& 102	Composition II (C)	5
Health & Fitness Distribution (HF)		1
Natural Science Distribution (NS)		5
		16

Term 3		***Units***
ECED& 107	Health / Safety / Nutrition	5
Health & Fitness Distribution (HF)		1
Humanities Distribution (H)		5
Social Science Distribution (SS)		5
		16

Term 4		***Units***
ECED& 120	Practicum-Nurturing Relations	2
PSYC& 100	General Psychology (SS)	5
Natural Science Distribution (NS)		5
Quantitative Skills Distribution (M)		5
		17

Term 5		***Units***
CMST& 220	Public Speaking (H)	5
EDUC& 205	Intro to Education w/ Field Exp	5
Natural Science Distribution (NS)		5
		15

Term 6		***Units***
ECED& 180	Lang/Literacy Develop	3
Humanities Distribution (H)		5
Social Science Distribution (SS)		5
		13

EARLY CHILDHOOD EDUCATION

Emphasis: Early Childhood Education
Degree: Associate in Applied Science
Total Units: 91-96
Class Type: Lecture, Lab, Hybrid, Online

PURPOSE: The Early Childhood Education - Associate in Applied Science 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 teacher's aide. The Children's Lab School provides a lab environment for observation and practice.

Students may enter the program during any quarter and participate part-time or full-time. Completion of the AAS program prepares graduates to compete for employment in childcare centers, family day care homes, cooperative and private preschools, ECEAP, or Head Start.

The curriculum provides instruction for parents, foster parents, day care parents, and persons working with children.

PROGRAM OUTCOMES: Upon successful completion, students will have demonstrated the ability to:

- Demonstrate an understanding of how children differ in their development and approaches to learning and to use this knowledge to provide opportunities that support the physical, social, emotional, and cognitive development of all young children from birth through age eight.
- Demonstrate the ability to use theory, research and foundations of education when planning and implementing Early Child Education programs.
- Plan and implement developmentally appropriate curriculum and teaching practices based on knowledge of individual children, the community and the curriculum goals and content.
- Use individual and group guidance and problem-solving techniques to develop positive and supportive relationships with children and develop personal self -control, self-motivation, and positive self-esteem.
- Establish and maintain positive, collaborative relationships with families.
- Articulate a philosophy and rationale for decisions while continually assessing and evaluating the effects of their choices and actions on others.
- Serve as an advocate on behalf of young children and their families, programs for young children and the working environment for early childhood educators.
- Demonstrate an understanding of the early childhood profession and a commitment to professionalism.
- Demonstrate competence in managing human, fiscal, and spatial resources while meeting the health and safety needs of children and adults.
- Model global awareness and respect for the cultural diversity of children.
- Examine, discuss, evaluate, and critique various issues and trends in Early Childhood Education.
- Identify and explain the major historic events and theoretical perspectives of Early Childhood Education.

Suggested Order of Classes

Term 1			***Units***
ECED&	105	Intro Early Child Ed (SS)	5
EDUC&	130	Guiding Behavior	3
EDUC&	150	Child/Family/Community	3
ENGL&	101	English Composition I (C)	OR
WRT	105	Writing in the Workplace	5
			16

Term 2			***Units***
ECED&	120	Practicum-Nurturing Rel	2
ECED&	190	Observation & Assessment	3
EDUC&	115	Child Development (SS)	5
H R	110	Human Relations-Workplace	5
			15

Term 3			***Units***
ECED&	107	Health/Safety/Nutrition	5
ECED&	160	Curriculum Development	5
BTEC	120	Business Math	OR
Quantitative Skills Distribution (M) *			5
			15

Term 4			***Units***
ECED&	132	Infant/Toddler Care	3
Education Elective			3-8
Humanities Distribution (H) **			5
Natural Science Distribution (NS) ***			5
			16-21

Term 5			***Units***
ECED&	170	Environments-Young Child	3
EDUC&	204	Exceptional Child	5
Health & Fitness Distribution (HF)			3
Social Science Distribution (SS) ****			5
			16

Term 6			***Units***
ECED&	180	Lang/Literacy Develop	3
ECED	233	ECE Practicum II	5
Natural Science Distribution w/ Lab (NS) ***			5
			13

Recommended Education Electives:

ECED& 134, ECED& 138, ECED& 139, EDUC& 136, or EDUC 205

Recommended Distribution Electives:

* MATH& 131

** CMST& 220

*** Natural Science with at least one lab:
Physical Science: (Oceanography, Geology, Chemistry)
Life Science: (Nutrition, Environmental Science, Biology)

**** Social Science: U.S. History, PNW History

EARLY CHILDHOOD EDUCATION

Emphasis: Early Childhood Education
Degree: Associate in Applied Science – Transfer
Total Units: 93-95
Class Type: Lecture, Lab, Hybrid, Online

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.

Coursework can apply to the Early Childhood endorsement for Washington State teaching certification. These courses acquaint the student with terms, vocabulary, and activities pertinent to a quality experience within the early childhood education field.

PROGRAM OUTCOMES: Upon successful completion, students will have demonstrated the ability to:

- Demonstrate an understanding of how children differ in their development and approaches to learning and to use this knowledge to provide opportunities that support the physical, social, emotional, and cognitive development of all young children from birth through age eight.
- Demonstrate the ability to use theory, research and foundations of education when planning and implementing Early Child Education programs.
- Plan and implement developmentally appropriate curriculum and teaching practices based on knowledge of individual children, the community and the curriculum goals and content.
- Use individual and group guidance and problem-solving techniques to develop positive and supportive relationships with children and develop personal self -control, self-motivation, and positive self-esteem.
- Establish and maintain positive, collaborative relationships with families.
- Articulate a philosophy and rationale for decisions while continually assessing and evaluating the effects of their choices and actions on others.
- Serve as an advocate on behalf of young children and their families, programs for young children and the working environment for early childhood educators.
- Demonstrate an understanding of the early childhood profession and a commitment to professionalism.
- Demonstrate competence in managing human, fiscal, and spatial resources while meeting the health and safety needs of children and adults.
- Model global awareness and respect for the cultural diversity of children.
- Examine, discuss, evaluate and critique various issues and trends in Early Childhood Education.
- Identify and explain the major historic events and theoretical perspectives of Early Childhood Education.

Suggested Order of Classes

Term 1			***Units***
ECED&	105	Intro to Early Child Ed (SS)	5
ECED&	107	Health/Safety/Nutrition	5
ENGL&	101	English Composition I (C)	5
			15

Term 2			***Units***
ECED&	120	Practicum-Nurturing Rel	2
EDUC&	115	Child Development (SS)	5
EDUC&	130	Guiding Behavior	3
ENGL&	102	Composition II (C)	5
			15

Term 3			***Units***
CMST&	220	Public Speaking (H)	5
ECED&	180	Lang/Literacy Develop	3
Education Elective			3-5
Social Science Distribution (SS)			5
			16-18

Term 4			***Units***
EDUC&	150	Child/Family/Community	3
H R	110	Human Relations-Workplace	5
Health & Fitness Distribution (HF)			3
Natural Science Distribution (NS)			5
			16

Term 5			***Units***
ECED&	170	Environments-Young Child	3
ECED&	190	Observation/Assessment	3
Humanities Distribution (H)			5
Natural Science Distribution (NS)			5
			16

Term 6			***Units***
BTEC	120	Applied Business Math	OR
Quantitative Skills Distribution (M)			5
ECED&	160	Curriculum Development	5
ECED	233	ECE Practicum II	5
			15

Recommended Education Electives:
ECED& 134, ECED& 138, or ECED& 139, OR
EDUC& 136, EDUC& 204, or EDUC& 205

Recommended Natural Science Distribution: Lab Science, Life Science, or Physical Science courses with at least one lab

Recommended Social Science Distribution: History, PNW History, or Western Civilization

EARLY CHILDHOOD EDUCATION

Emphasis: Early Childhood Education
Degree: Initial State Certificate-Early Childhood Ed
Total Units: 12
Class Type: Lecture, Lab, Hybrid, Online

Degree: Short State Certificate of Specialization
Total Units: 20
Class Type: Lecture, Lab, Hybrid, Online

PURPOSE: The Early Childhood Education Certificate Program prepares students to compete for entry level employment in the childcare field. This certificate also increases the knowledge and skills of people who currently work with children. The Children's Lab School provides an environment for observation and practice. Students acquire in-depth knowledge of child development from birth through age eight.

PROGRAM OUTCOMES: Upon successful completion, students will have demonstrated the ability to:

- Demonstrate an understanding of how children differ in their development and approaches to learning and to use this knowledge to provide opportunities that support the physical, social, emotional, and cognitive development of all young children from birth through age eight.
- Demonstrate the ability to use theory, research and foundations of education when planning and implementing Early Child Education programs.
- Plan and implement developmentally appropriate curriculum and teaching practices based on knowledge of individual children, the community and the curriculum goals and content.
- Use individual and group guidance and problem-solving techniques to develop positive and supportive relationships with children and develop personal self -control, self-motivation, and positive self-esteem.
- Establish and maintain positive, collaborative relationships with families.
- Articulate a philosophy and rationale for decisions while continually assessing and evaluating the effects of their choices and actions on others.
- Serve as an advocate on behalf of young children and their families, programs for young children and the working environment for early childhood educators.
- Demonstrate an understanding of the early childhood profession and a commitment to professionalism.
- Demonstrate competence in managing human, fiscal, and spatial resources while meeting the health and safety needs of children and adults.
- Model global awareness and respect for the cultural diversity of children.
- Examine, discuss, evaluate, and critique various issues and trends in Early Childhood Education.
- Identify and explain the major historic events and theoretical perspectives of Early Childhood Education

Initial Certificate 40E			***Units***
ECED&	105	Intro Early Childhood Ed (SS)	5
ECED&	107	Health/Safety/Nutrition	5
ECED&	120	Practicum-Nurturing Rel	2
			12

PLUS

Early Childhood Education (General) 41E			***Units***
EDUC&	115	Child Development (SS)	5
EDUC&	130	Guiding Behavior	3

OR

Infant and Toddler Care 42E			***Units***
EDUC&	115	Child Development (SS)	5
ECED&	132	Infant/Toddler Care	3

OR

School-Age Care 43E			***Units***
EDUC&	115	Child Development (SS)	5
EDUC&	136	School Age Care	3

OR

Family Child Care 44E			***Units***
EDUC&	115	Child Development (SS)	5
ECED&	134	Family Child Care	3

OR

Administration 45E			***Units***
EDUC&	115	Child Development (SS)	5
ECED&	139	Administration of ECE	3

OR

Home Visitor/Family Engagement 47E			***Units***
EDUC&	115	Child Development (SS)	5
ECED&	138	Home Visiting & Fam Eng	3

EARLY CHILDHOOD EDUCATION

Emphasis: Early Childhood Education
Degree: Short State Certificate of Specialization Early Childhood Education
Total Units: 52
Class Type: Lecture, Lab, Hybrid, Online

PURPOSE: The Early Childhood Education Certificate Program prepares students to compete for entry level employment in the childcare field, as well as those who currently work with children. The Children's Lab School provides an environment for observation and practice. Students acquire in-depth knowledge of child development from birth through age eight.

PROGRAM OUTCOMES: Upon successful completion, students will have demonstrated the ability to:

- Demonstrate an understanding of how children differ in their development and approaches to learning and to use this knowledge to provide opportunities that support the physical, social, emotional, and cognitive development of all young children from birth through age eight.
- Demonstrate the ability to use theory, research and foundations of education when planning and implementing Early Child Education programs.
- Plan and implement developmentally appropriate curriculum and teaching practices based on knowledge of individual children, the community and the curriculum goals and content.
- Use individual and group guidance and problem-solving techniques to develop positive and supportive relationships with children and develop personal self -control, self-motivation and positive self-esteem.
- Establish and maintain positive, collaborative relationships with families.
- Articulate a philosophy and rationale for decisions while continually assessing and evaluating the effects of their choices and actions on others.
- Serve as an advocate on behalf of young children and their families, programs for young children and the working environment for early childhood educators.
- Demonstrate an understanding of the early childhood profession and a commitment to professionalism.
- Demonstrate competence in managing human, fiscal, and spatial resources while meeting the health and safety needs of children and adults.
- Model global awareness and respect for the cultural diversity of children.
- Examine, discuss, evaluate, and critique various issues and trends in Early Childhood Education.
- Identify and explain the major historic events and theoretical perspectives of Early Childhood Education

Suggested Order of Classes

Term 1			***Units***
ECED&	105	Intro Early Child Ed (SS)	5
ECED&	132	Infants/Toddlers Care	OR
ECED&	134	Family Child Care	OR
ECED&	138	Home Visiting & Fam Eng	OR
ECED&	139	Administration of ECE	OR
EDUC&	130	Guiding Behavior	OR
EDUC&	136	School Age Care	3
EDUC&	150	Child/Family/Community	3
ENGL&	101	English Composition I (C)	OR
WRT	105	Writing in the Workplace	5
			16

Term 2			***Units***
ECED&	120	Practicum-Nurturing Rel	2
ECED&	170	Environments-Young Child	3
ECED&	190	Observation & Assessment	3
BTEC	120	Applied Business Math	OR
Quantitative Skills Distribution			5
			13

Term 3			***Units***
ECED&	160	Curriculum Development	5
ECED&	180	Lang/Literacy Develop	3
H R	110	Human Relations-Workplace	5
			13

Term 4			***Units***
ECED&	107	Health/Safety/Nutrition	5
EDUC&	115	Child Development (SS)	5
			10

EDUCATION

Emphasis: Education
Degree: Associate in Arts
Total Units: 91

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 your advisor for additional information.

Suggested Order of Classes

Term 1		***Units***
ENGL& 101	English Composition I (C)	5
PSYC& 100	General Psychology (SS)	5
Natural Science Distribution (NS)		5
		15

Term 2		***Units***
ENGL& 102	Composition II (C)	5
Education Elective		5
Health & Fitness Distribution (HF)		1
Humanities Distribution (H)		5
		16

Term 3		***Units***
CMST& 220	Public Speaking (H)	5
Health & Fitness Distribution (HF)		1
Natural Science Distribution (NS)		5
Social Science Distribution (SS)		5
		16

Term 4		***Units***
EDUC& 205	Intro to Ed w/Field Exp	5
Health & Fitness Distribution (HF)		1
Natural Science Distribution (NS)		5
Quantitative Skills Distribution (M)		5
		16

Term 5		***Units***
EDUC& 115	Child Development	5
Education Elective		5
Humanities Distribution (H)		5
		15

Term 6		***Units***
Academic Elective		5
Academic or Education Elective		5
Education Elective		3
		13

Recommended Education Electives:
EDUC& 130, ECED& 180, and/or EDUC& 204

Recommended Natural Science Distribution:
Lab Science, Life Science, or Physical Science courses

Recommended Social Science Distribution:
History, PNW History, or Western Civilization

ELECTRONICS, ROBOTICS & AUTOMATION

Emphasis: Electronics, Robotics & Automation
Degree: Associate in Applied Science
Total Units: 91-93
Class Type: Lecture, Lab, Hybrid

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.

PROGRAM OUTCOMES: Upon successful completion, students will have demonstrated the ability to:

- Safely operate equipment 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.

Suggested Order of Classes

Term 1			***Units***
BTEC	214	Excel I **	OR
I T	117	Intro to Windows OS *	3-5
TRDS	100	Industrial Safety	5
TRDS	101	College & Career Success	3
TRDS	120	Mechanical Systems	5
			16-18

Term 2			***Units***
TRDS	140	Fluid Systems	5
TRDS	180	Electrical Systems	5
HLTH	145	Safety & Fitness *	3
			13

Term 3			***Units***
BTEC	191	Work Experience Seminar	1
DET	102	Forklift *	1
ENGL&	101	English Composition I *	OR
WRT	105	Writing in the Workplace *	5
ERA Program Electives			7
			14

Term 4			***Units***
ERA	117	Adv AC/DC Electronics	4
ERA	170	Solid State Devices	4
ERA	212	Digital Electronics	4
MEC	270	Industrial Robotics	5
			17

Term 5			***Units***
ERA	230	Robotics Controllers	4
ERA	240	Amplifiers	5
MEC	260	Allen Bradley PLCs	5
			14

Term 6			***Units***
ERA	235	Communication Systems	3
ERA	276	Robotics Capstone	4
MEC	220	Sensors & Instruments	5
Elective			5
			17

* Course may be taken during the summer quarter.
** Suggested for AAS ERA students.

1st year ERA program electives (7): TRDS 150 (2), TRDS 160 (2), ERA 119 (3)
2nd year ERA program electives (5): courses within PPO, ERA, MEC, DET 235, CS&, IT 101, Natural Science w/Lab, Quantitative Skills Distribution

ENERGY TECHNOLOGY

Emphasis: Energy Technology
Degree: Associate in Applied Science
Total Units: 93-95
Class Type: Lecture, Lab, Hybrid

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: Upon successful completion, students 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 a practice for entrance exams that are typically required for entry into the electric utility industry

Suggested Order of Classes

Term 1			***Units***
BTEC	214	Excel I **	OR
I T	117	Intro to Windows OS *	3-5
TRDS	100	Industrial Safety	5
TRDS	101	College & Career Success	3
TRDS	120	Mechanical Systems	5
			16-18

Term 2			***Units***
HLTH	145	Safety & Fitness *	3
TRDS	140	Fluid Systems	5
TRDS	180	Electrical Systems	5
			13

Term 3			***Units***
BTEC	191	Work Experience Seminar	1
DET	102	Forklift *	1
ENGL&	101	English Composition I *	OR
WRT	105	Writing in the Workplace *	5
Energy Technology Program Electives			12
			19

Term 4			***Units***
PPO	100	Intro to Energy Industry	5
PPO	103	Electric Utility Distribution	5
PPO	201	Steam Plant Systems	5
			15

Term 5			***Units***
PPO	205	Power System Operator I	5
PPO	209	Alt Energy – Wind & Solar	5
MEC	260	Allen Bradley PLCs	5
			15

Term 6			***Units***
PPO	208	Hydroelectric Power	5
Elective			5
Elective			5
			15

*Courses may be taken during the summer quarter.
**Suggested for AAS ERA students.

1st year Energy Technology program electives (12): TRDS 150 (2), TRDS 160 (2), ERA 119 (3), additional approved elective (5), PPO, ERA, MEC, IT, CS&, Natural Science with lab, Quantitative Skills Distribution.
2nd year Energy Technology electives: courses within PPO, ERA, MEC, DET 235, CS&, IT 101, Natural Science with lab, Quantitative Skills Distribution.

ENGINEERING

Emphasis: Bioengineering and Chemical Engineering
Degree: Associate in Science-MRP
Total Units: 99-100

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 units 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. If you 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 with the main emphasis in the first year should be on strengthening your mathematics, basic sciences, communication, and reading skills.

Suggested Order of Classes

Term 1		***Units***
CHEM& 161	General Chem w/ Lab I (NS)	6
ENGL& 101	English Composition I (C)	5
ENGR 100	Intro to Engineering	2
Elective *		OR
Humanities Distribution (H)		OR
Social Science Distribution (SS)**		5
		18

Term 2		***Units***
CHEM& 162	General Chem w/ Lab II (NS)	6
MATH& 151	Calculus I (M) ***	5
Elective *		OR
Humanities Distribution (H)		OR
Social Science Distribution (SS) **		5
		16

Term 3		***Units***
CHEM& 163	General Chem w/Lab III (NS)	6
MATH& 152	Calculus II (M)	5
Elective *		OR
Humanities Distribution (H)		OR
Social Science Distribution (SS) **		5
		16

Term 4		***Units***
CHEM& 261	Organic Chem w/ Lab I (NS)	6
MATH 118	Linear Algebra (M)	5
PHYS& 221	Engineering Physics I (NS)	5
		16

Term 5		***Units***
BIOL& 222	Majors Cell/Molecular w/Lab (NS)	OR
CHEM& 262	Organic Chem w/ Lab II (NS)	5-6
MATH& 163	Calculus III	5
PHYS& 222	Engineering Physics II (NS)	5
		15-16

Term 6		***Units***
ENGR& 214	Statics	5
MATH 212	Elem Differential Equations	5
PHYS& 223	Engineering Physics III (NS)	5
Health & Fitness Distribution (HF)		3
		18

* Recommended electives: CS& 131, CS& 141, or MATH 264
** At least one economics course is recommended.
*** Pre-calculus may be needed prior to Calculus I. 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
Total Units: 104

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 units 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. If you 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 with the main emphasis in the first year on strengthening your mathematics, basic sciences, communication, and reading skills.

Suggested Order of Classes

Term 1 **			***Units***
CHEM&	161	General Chem w/ Lab I (NS)	6
ENGL&	101	English Composition I (C)	5
ENGR	100	Intro to Engineering	2
Humanities Distribution (H)			OR
Social Science Distribution (SS)***			5
			18

Term 2			***Units***
ENGL&	235	Technical Writing	5
MATH&	151	Calculus I (M)	5
Health & Fitness Distribution (HF)			3
Humanities Distribution (H)			OR
Social Science Distribution (SS) *			5
			18

Term 3			***Units***
CS&	131	Computer Science I C++	OR
CS&	141	Computer Science I Java	5
ENGR&	214	Statics	5
MATH&	152	Calculus II (M)	5
			16

Term 4			***Units***
MATH	118	Linear Algebra (M)	5
PHYS&	221	Engineering Physics I (NS)	5
Humanities Distribution (H)			OR
Social Science Distribution (SS) ***			5
			15

Term 5			***Units***
ENGR	203	Applied Numerical Methods	5
ENGR&	215	Dynamics	5
MATH&	163	Calculus III	5
PHYS&	222	Engineering Physics II (NS)	5
			20

Term 6			***Units***
ENGR&	204	Electrical Circuits	5
MATH	212	Elem Differential Equations	5
MATH	264	Calculus IV	3
PHYS&	223	Engineering Physics III (NS)	5
			18

***** An economics class is recommended.
** If you need review prior to MATH& 151 Calculus I, you may take Pre-Calculus.
*** Students are required to complete 3-5 units in a Diversity course (D). A list of courses that satisfy the Diversity Requirement can be found in the college catalog.

ENGLISH

Emphasis: English
Degree: Associate in Arts
Total Units: 90-93

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 units of lower-level English courses as meeting minimum requirements toward a major in English. English units taken at Centralia College beyond the 10-15 acceptable units at the baccalaureate institution will be considered elective units at Centralia and may or may not fulfill English major requirements at the baccalaureate transfer institution.

Suggested Order of Classes

Term 1	***Units***
ENGL& 101 English Composition I (C)	5
Social Science Distribution (SS) *	5
Humanities Distribution (H)	5
	15

Term 2	***Units***
ENGL& 102 Composition II (C)	5
Humanities Distribution (H)	5
Literature or Creative Writing Elective	5
	15

Term 3	***Units***
Literature Elective	5
Health & Fitness Distribution (HF)	3
Quantitative Skills Distribution (M)	5
Social Science Distribution (SS)	5
	18

Term 4	***Units***
Literature Elective	5
Humanities Distribution (H)	5
Natural Science Distribution (NS)	5
	15

Term 5	***Units***
Literature Elective	5
Natural Science Distribution (NS)	5
Social Science Distribution (SS)	5
	15

Term 6	***Units***
Literature or Creative Writing Elective	5
Literature or Humanities Elective	2-5
Natural Science Distribution (NS)	5
	12-15

To satisfy the 3-5 credit Diversity requirement (D), students may wish to take:

- ENGL 160: Women's Literature
- ENGL 233: Children's Literature
- ENGL 260: Non-Western World Literature
- Other "D" courses listed in current college catalog.

History is recommended for a Social Science distribution requirement

ENVIRONMENTAL STUDIES

Emphasis: Environmental Studies
Degree: Associate in Arts
Total Units: 90

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

Term 1			***Units***
BIOL&	160	General Biology w/lab (NS)	5
ENGL&	101	English Composition I (C)	5
Humanities Distribution (H)			5
			15

Term 2			***Units***
ENVS&	100	Survey of Env Science (NS)	5
Elective			5
Social Science Distribution (SS)			5
			15

Term 3			***Units***
CHEM&	121	Intro to Chemistry (NS)	5
ENGL&	102	Composition II (C)	5
Humanities Distribution (H)			5
			15

Term 4			***Units***
GEOL&	101	Intro to Physical Geology (NS)	5
MATH&	146	Introduction to Stats (M)	5
Social Science Distribution (SS)			5
			15

Term 5			***Units***
HLTH	130	Heath & Wellness (HF)	3
Electives			7
Social Science Distribution (SS)			5
			15

Term 6			***Units***
Electives			10
Humanities Distribution (H)			5
			15

Recommend choosing <u>one</u> from the following:
Select three **Social Science Distributions**, one from each of the following disciplines:

- ANTH& 100, 206, OR 225
- GEOG& 200 Human Geography (D)
- ECON& 202 OR ECON& 201
- POLS& 101, POLS& 202

Select **Humanities Distribution** from the following:

- CMST& 220, PHIL& 101, plus, five units of **Foreign Language**

Additional Science classes are recommended for **Electives**: BIOL& 221, 222, 223 (NS); BOTA 113, 150; (NS) GEOG 201 (NS), and GEOL 108, 208 (NS).

ENVIRONMENTAL SCIENCE

Emphasis: Environmental Science
Degree: Associate in Science
Total Units: 91

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

Term 1		***Units***
CHEM& 161	General Chem w/ Lab I (NS)	6
ENGL& 101	English Composition I (C)	5
ENVS& 100	Survey of Env Science (NS)	5
		16

Term 2		***Units***
CHEM& 162	General Chem w/ Lab II (NS)	6
GEOL& 101	Intro Physical Geology (NS)	5
MATH& 142	Pre-Calculus II (M)	5
		16

Term 3		***Units***
CHEM& 163	General Chem w/ Lab III (NS)	6
ECON& 201	Microeconomics (SS)	5
MATH& 151	Calculus I (M)	5
		16

Term 4		***Units***
BIOL& 221	Majors Ecology/Evolution (NS)	5
MATH& 152	Calculus II (M)	5
PHYS& 221	Engineering Physics I (NS)	5
		15

Term 5		***Units***
BIOL& 222	Majors Cell/Molecular (NS)	5
CMST& 220	Public Speaking (H)	5
MATH& 146	Introduction to Stats (M)	OR
MATH& 163	Calculus III	5
		15

Term 6		***Units***
BIOL& 223	Majors Organismal Phys (NS)	5
HLTH 130	Health & Wellness (HF)	3
Humanities Distribution (H)		OR
Social Science Distribution (SS)		5
		13

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
Total Units: 93

PURPOSE: The Associate in Arts degree with a Fine Arts emphasis is for students who are 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 gives the student a solid base in studio art and art history which is essential for those interested in entering a variety of art professions.

Suggested Order of Classes

Term 1			***Units***
ART	110	2D Design (H)	5
ENGL&	101	English Composition I (C)	5
Humanities Distribution (H)			5
			15

Term 2			***Units***
ART	102	Drawing I (H)	5
ART	111	3D Design (H)	5
ENGL&	102	Composition II (C)	5
			15

Term 3			***Units***
ART	106	Printmaking (H)	OR
ART	160	Introduction to Fibers (H)	5
Quantitative Skills Distribution (M)			5
Social Science Distribution (SS)			5
			15

Term 4			***Units***
ART	200	Art History: Ancient (D) (H)	5
Health & Fitness Distribution (HF)			1
Humanities Distribution (H)			5
Natural Science Distribution (NS)			5
			16

Term 5			***Units***
ART	201	Art History: 15th-17th Century (D) (H)	5
Health & Fitness Distribution (HF)			1
Natural Science Distribution (NS)			5
Social Science Distribution (SS)			5
			16

Term 6			***Units***
ART	202	Art History: 18th-20th C (D) (H)	5
Health & Fitness Distribution (HF)			1
Natural Science Distribution (NS)			5
Social Science Distribution (SS)			5
			16

FOREIGN LANGUAGE

Emphasis: American Sign Language, Chinese, or Spanish
Degree: Associate in Arts
Total Units: 93

AA PURPOSE: The degree plan is designed for transfer but is also appropriate for anyone who wishes a solid foundation in American Sign Language, Chinese, 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

Term 1	***Units***
ASL&, CHIN&, or SPAN& 121 (D) (H)	5
ENGL& 101 English Composition I (C)	5
Quantitative Skills Distribution (M)	5
	15

Term 2	***Units***
ANTH& 206 Cultural Anthropology (SS) (D)	5
ASL&, CHIN&, or SPAN& 122 (H)	5
ENGL& 102 Composition II (C)	5
Health & Fitness Distribution (HF)	1
	16

Term 3	***Units***
ASL&, CHIN&, or SPAN& 123 (H)	5
CMST 250 Intercultural Communications (D) (H)	5
Natural Science Distribution (NS)	5
	15

Term 4	***Units***
ASL&, CHIN&, or SPAN& 221	5
Health & Fitness Distribution (HF)	1
Humanities Distribution (H)	5
Social Science Distribution (SS)	5
	16

Term 5	***Units***
ASL&, CHIN&, or SPAN& 222	5
Health & Fitness Distribution (HF)	1
Natural Science Distribution (NS)	5
Social Science Distribution (SS)	5
	16

Term 6	***Units***
ASL&, CHIN&, or SPAN& 223	5
Elective	5
Science Distribution	5
	15

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

GENERAL ENGINEERING

See Engineering

GEOLOGY

Emphasis: Geology, Environmental Geo-sciences, Geophysics, Oceanography
Degree: Associate in Science
Total Units: 91

PURPOSE: The degree program in Geology 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, and reasonably assures qualification outside of the state. Students not prepared to enter MATH& 151 and CHEM& 121 should plan on more than four years to complete a bachelor's degree. For those students, a three-year program of study at Centralia College, carefully planned with an advisor, is recommended.

Many transfer schools have language requirements for admission or for certain kinds of bachelor's degrees. Graduate work in science may require a foreign language, probably German, French, or Russian.

The program outlined below is more rigorous in mathematics, chemistry, and physics than minimum requirements at some four-year colleges and universities for some earth sciences. Substitution of less rigorous courses is not generally recommended.

Suggested Order of Classes

Term 1		***Units***
CHEM& 161	General Chem w/ Lab I (NS)	6
ENGL& 101	English Composition I (C)	5
GEOL& 101	Intro Physical Geology (NS)	5
		16

Term 2		***Units***
CHEM& 162	General Chem w/ Lab II (NS)	6
CMST& 220	Public Speaking (H)	5
MATH& 151	Calculus I (M)	5
		16

Term 3		***Units***
CHEM& 163	General Chem w/ Lab III (NS)	6
MATH& 152	Calculus II (M)	5
Health & Fitness Distribution (HF)		3
		14

Term 4		***Units***
GEOL 102	Physical Geology II (NS)	OR
OCEA& 101	Intro to Oceanography (NS)	5
PHYS& 221	Engineering Physics I (NS)	5
Humanities Distribution (HD)		OR
Social Science Distribution (SS)		5
		15

Term 5		***Units***
GEOL& 103	Historical Geology w/ Lab (NS)	5
MATH& 146	Introduction to Stats (M)	OR
MATH& 163	Calculus III (M)	5
PHYS& 222	Engineering Physics II (NS)	5
		15

Term 6		***Units***
GEOL 108	Natural Hazards & Catastrophes (NS)	OR
GEOL& 208	Geology of Pacific NW (NS)	5
PHYS& 223	Engineering Physics III (NS)	5
Social Science Distribution (SS)		5
		15

GRAPHIC DESIGN

Emphasis: Graphic Design
Degree: Associate in Arts
Total Units: 93

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

Term 1			***Units***
ART	110	2D Design (H)	5
ENGL&	101	English Composition I (C)	5
Health & Fitness Distribution (HF)			1
Humanities Distribution (H)			5
			16

Term 2			***Units***
ART	112	Color Theory (H)	5
CMST&	102	Intro to Mass Media (H)	5
Quantitative Skills Distribution (M)			5
			15

Term 3			***Units***
ART	102	Drawing I (H)	5
ART	202	Art History: 18th-20th Century (D) (H)	5
ENGL&	102	Composition II (C)	5
			15

Term 4			***Units***
ART	130	Computer Graphics (H)	5
Health & Fitness Distribution (HF)			1
Natural Science Distribution (NS)			5
Social Science Distribution (SS)			5
			16

Term 5			***Units***
ART	111	Sculpture (H)	OR
ART	220	3D Modeling & Animation (H)	OR
I T	119	Web Scripting I	5
Health & Fitness Distribution (HF)			1
Natural Science Distribution (NS)			5
Social Science Distribution (SS)			5
			16

Term 6			***Units***
ART	106	Printmaking I (H)	OR
ART	174	Digital Photography (H)	5
Natural Science Distribution (NS)			5
Social Science Distribution (SS)			5
			15

HISTORY

Emphasis: History
Degree: Associate in Arts
Total Units: 93

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

Term 1			**Units**
ENGL&	101	English Composition I (C)	5
HIST&	116	Western Civilization I (SS)	5
HUM	110	Ethics & Cultural Values (H) (D)	5
			15

Term 2			**Units**
ENGL&	102	Composition II (C)	5
HIST&	117	Western Civilization II (SS)	5
Health & Fitness Distribution (HF)			1
Natural Science Distribution (NS)			5
			16

Term 3			***Units***
ECON&	202	Macroeconomics (SS)	5
HIST&	118	Western Civilization III (SS)	5
Health & Fitness Distribution (HF)			1
Quantitative Skills Distribution (M)			5
			16

Term 4			***Units***
ANTH&	100	Survey of Anthropology (SS) (D)	5
HIST&	146	US History I (SS)	5
Natural Science Distribution (NS)			5
			15

Term 5			***Units***
ENGL (H)(D)	260	Non-Western World Literature	5
HIST&	147	US History II (SS)	5
Health & Fitness Distribution (HF)			1
Natural Science Distribution (NS)			5
			16

Term 6			***Units***
HIST&	148	US History III (SS)	5
POLS&	202	American Government (SS)	5
Humanities Distribution (H)			5
			15

Recommended Humanities courses:
CMST& 220, ART 200, MUSC 139

HUMANITIES

Emphasis: Humanities
Degree: Associate in Arts
Total Units: 90-93

PURPOSE: The Associate in Arts degree with an 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.

This educational planner offers a possible course of study. You are urged to consult with your advisor before selecting electives. This will allow your advisor to coordinate the electives with your desired career goals.

Suggested Order of Classes

Term 1			***Units***
ENGL&	101	English Composition I (C)	5
HUM&	116	Humanities I (H)	5
Social Science Distribution (SS)			5
			15

Term 2			***Units***
ENGL&	102	Composition II (C)	5
HUM&	117	Humanities II (H)	5
Natural Science Distribution (NS)			5
			15

Term 3			***Units***
HUM&	118	Humanities III (H)	5
Health & Fitness Distribution (HF)			3
Quantitative Skills Distribution (M)			5
Social Science Distribution (SS)			5
			18

Term 4			***Units***
HUM	110	Ethics & Cultural Values (D) (H)	5
Humanities Distribution (H)			5
Natural Science Distribution (NS)			5
			15

Term 5			***Units***
HUM	270	Survey of Film Studies (H)	5
Natural Science Distribution (NS)			5
Social Science Distribution (SS)			5
			15

Term 6			***Units***
Humanities Distribution (H)			5
Elective			5
Elective			2-5
			12-15

INDUSTRIAL TRADES

Emphasis: Industrial Trades
Degree: Certificate of Proficiency
Total Units: 43-54

PURPOSE: Provides students with training in the Industrial Trades and workplace competencies necessary to compete for entry-level employment.

- Solve basic industrial math problems.
- Analyze and calculate data using spreadsheet software.
- Demonstrate the ability to apply acquired skills in the workplace.
- Perform repair procedures using proper tools while abiding by safety and environmental regulations.
- Identify, diagnose, and repair electrical and hydraulic circuits.
- Identify, diagnose, and repair industrial equipment.
- Identify, diagnose, and repair HVAC systems.
- Maintain proper workplace documentation in a professional manner.
- Conduct behavior that is consistent with the professionalism standards of the industry.
- Safely operate equipment and demonstrate practices that promote workplace safety.
- Work as a member of a team in an office or industrial setting and recognize the need to pursue results that exceed the minimum standards whenever possible.
- Embrace the inevitability of change in technology and pursue opportunities to improve skills with an attitude of "Life-long Learning".
- Diagnose, troubleshoot, maintain, and repair electrical components and systems.
- Design, implement and maintain automated systems including programmable logic controllers and industrial sensors.
- Diagnose, troubleshoot, and repair mechanical, hydraulic, and pneumatic components and systems.
- Independently analyze system errors and implement solutions.

Suggested Order of Classes

Term 1			***Units***
BTEC	191	Work Experience Seminar	1
TRDS	101	College & Career Success	3
TRDS	100	Industrial Safety	5
TRDS	120	Mechanical Systems	5
			14

Term 2			***Units***
BTEC	214	Excel I **	OR
I T	117	Intro to Windows OS *	3-5
HLTH	145	Safety & Fitness (HF) *	3
TRDS	140	Fluid Systems	5
TRDS	180	Electrical Systems	5
			16-18

Term 3			***Units***
DET	102	Forklift *	1
ENGL&	101	English Composition I *	OR
WRT	105	Writing in the Workplace *	5
Program Electives ***			7-14
			13-18

*Courses may be taken during summer quarter.

** Suggested for AAS ERA students.

*** Program Electives for:
Diesel Technology include DET 120, WELD 151, WELD 180, WELD 181, and WELD 182.
Electronics, Robotics, & Automation / Energy Technology include ERA 119, TRDS 150, TRDS 160.
Welding Technology include TRDS 150, TRDS 160, WELD 151, WELD 180, WELD 181, WELD 182, additional (approved) elective.

LAW ENFORCEMENT

See Criminal Justice

MATHEMATICS

Emphasis: Mathematics
Degree: Associate in Arts
Total Units: 96-97

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.

If you are not well prepared in high school math you should plan, with your 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 your math, basic science, communication, and reading skills.

Most mathematicians need skills in other areas of science, so courses in physical sciences, in addition to physics, or life sciences should be considered.

Many transfer schools have language requirements; graduate work in mathematics may require a foreign language, probably German, French, or Russian. Careful planning with your advisor can help you avoid awkward decisions.

Except for the sequences of mathematics, and English composition courses, the order in which courses are taken is not important.

Suggested Order of Classes

Term 1		***Units***
MATH& 141	Pre-Calculus I (M)	OR
MATH& 142	Pre-Calculus II (M)	5
Health & Fitness Distribution (HF)		1
Humanities Distribution (H)		5
Social Science Distribution (SS)		5
		16

Term 2		***Units***
ENGL& 101	English Composition I (C)	5
MATH& 142	Pre-Calculus II (M)	OR
MATH& 151	Calculus I (M)	5
MATH 156	Calculus I Lab ** If enrolled in MATH& 151	1
Social Science Distribution (SS)		5
		15-16

Term 3		***Units***
ENGL& 102	Composition II (C)	5
MATH& 151	Calculus I (M)	OR
MATH& 152	Calculus II (M)	5
Health & Fitness Distribution (HF)		1
Social Science Distribution (SS)		5
		16

Term 4		***Units***
MATH 118	Linear Algebra (M)	5
MATH& 146	Introduction to Stats (M)	OR
MATH& 152	Calculus II (M)	5
Humanities Distribution (H)		5
Natural Science Distribution (NS)		5
		20

Term 5		***Units***
MATH& 163	Calculus III	5
Humanities Distribution (H)		5
Natural Science Distribution (NS)		5
		15

Term 6		***Units***
MATH 212	Elem Differential Equations	OR
MATH 228	Discrete Mathematics (M)	5
MATH 264	Calculus IV	3
Health & Fitness Distribution (HF)		1
Natural Science Distribution (NS)		5
		14

Recommended Courses: BIOL& 221, 222, 223, 241, 242 (NS); PHYS& 221, 222, 223 (NS)

MATHEMATICS EDUCATION

Emphasis: Mathematics Education
Degree: Associate in Math Education – DTA/MRP
Total Units: 96

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.

Suggested Order of Classes

Term 1		***Units***
ENGL& 101	English Composition I (C)	5
MATH& 141	Pre-Calculus I (M)	OR
MATH& 142	Pre-Calculus II (M) Based on placement	5
Humanities Distribution (H)		5
		15

Term 2		***Units***
CMST& 220	Public Speaking (H)	5
ENGL& 102	Composition II (C)	5
MATH& 142	Pre-Calculus II (M)	OR
MATH& 151	Calculus I (M)	5
		15

Term 3		***Units***
MATH& 151	Calculus I (M)	OR
MATH& 152	Calculus II (M)	5
PSYC& 100	General Psychology (SS)	5
Humanities Distribution (H)		5
		15

Term 4		***Units***
MATH 118	Linear Algebra (M)	5
MATH& 146	Introduction to Stats (M)	OR
MATH& 152	Calculus II (M)	5
Natural Science Distribution (NS) *		5
Social Science Distribution (SS)		5
		20

Term 5		***Units***
EDUC& 201	Intro to Education	3
MATH& 163	Calculus III	5
Health & Fitness Distribution (HF)		3
Social Science Distribution (SS)		5
		16

Term 6		***Units***
EDUC 202	Classroom Observation	2
MATH 212	Elem Differential Equations	OR
MATH 228	Discrete Mathematics (M)	5
MATH 264	Calculus IV	3
Natural Science Distribution (NS) *		5
		15

*Physics, Chemistry, Geology or Biology; at least one lab science required.

MEDIA STUDIES

Emphasis: Film
Degree: Associate in Arts
Total Units: 90-92

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 State 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 will 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 stage 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 annual College Musical.

Students who transfer to a four-year college should consult their advisors for choice of distribution credit and elective courses.

Suggested Order of Classes

Term 1			***Units***
ENGL&	101	English Composition I (C)	5
M ST	159	Stagecraft for TV and Film	2
M ST	260	Intro TV and Video Production	5
Social Science Distribution (SS)			5
			17

Term 2			***Units***
ENGL&	102	Composition II (C)	5
HUM	270	Survey of Film Studies (H)	5
M ST	261	Television and Video Production	5
			15

Term 3			***Units***
M ST	158	Studio & Outdoor Lighting	2
M ST	262	Television Production	5
Elective			5
Health & Fitness Distribution (HF)			3
			15

Term 4			***Units***
DRMA	107	Beginning Acting (H)	5
Natural Science Distribution (NS)			5
Quantitative Skills Distribution (M)			5
			15

Term 5			***Units***
CMST&	102	Intro to Mass Media (H)	5
Natural Science Distribution (NS)			5
Social Science Distribution (SS) (D)			5
			15

Term 6			***Units***
Elective			3-5
Natural Science Distribution (NS)			5
Social Science Distribution (SS)			5
			13-15

MEDIA STUDIES

Emphasis: Radio Broadcasting or Television Production
Degree: Associate in Arts
Total Units: 91

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 State 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

Term 1			***Units***
ENGL&	101	English Composition I (C)	5
M ST	230	Intro to Radio Broadcasting *	5
M ST	260	Intro TV & Video Production	5
			15

Term 2			***Units***
ENGL&	102	Composition II (C)	5
M ST	231	Advanced Radio Broadcasting *	3
M ST	261	Intro to Editing	5
Health & Fitness Distribution (HF)			1
			14

Term 3			***Units***
CMST&	102	Intro to Mass Media (H)	5
M ST	220	Intro to Broadcast News	5
M ST	262	Television Production	5
Health & Fitness Distribution (HF)			1
			16

Term 4			***Units***
M ST	271	Radio Broadcasting Internship	OR
M ST	281	TV Broadcast Internship	1
Humanities Distribution (H)			5
Natural Science Distribution (NS)			5
Social Science Distribution (SS)			5
			16

Term 5			***Units***
Humanities Distribution (H)			5
Natural Science Distribution (NS)			5
Social Science Distribution (SS)			5
			15

Term 6			***Units***
Health & Fitness Distribution (HF)			1
Natural Science Distribution (NS)			5
Quantitative Skills Distribution (M)			5
Social Science Distribution (SS)			5
			16

*Radio Majors

In cooperation with a professional radio or television company, a student may enroll in M ST 190, Cooperative Work Experience. The student may receive up to 12 units for learning that occurs on the job. Attendance at a Work Experience Seminar is required of Co-op students. You must take the Work Experience Seminar before or in the same quarter as the Co-op course.

MEDIA STUDIES

Emphasis: Sports Announcing and Production
Degree: Associate in Arts
Total Units: 94

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 State 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 the 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 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 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.

Suggested Order of Classes

Term 1			***Units***
ENGL&	101	English Composition I (C)	5
M ST	126	Sports Announcing for Football	1
M ST	230	Intro to Radio Broadcasting	5
Social Science Distribution (SS)			5
			16

Term 2			***Units***
ENGL&	102	Composition II (C)	5
M ST	127	Sports Announcing for Basketball	1
M ST	231	Advanced Radio Broadcasting	3
Health & Fitness Distribution (HF)			1
Social Science Distribution (SS) (D)			5
			15

Term 3			
CMST&	102	Intro to Mass Media (H)	5
M ST	128	Sports Announcing for Baseball	1
M ST	220	Intro to Broadcast News	5
Health & Fitness Distribution (HF)			1
Natural Science Distribution (NS)			5
			17

Term 4			***Units***
CMST&	220	Public Speaking (H)	5
M ST	260	Intro TV & Video Production	5
Quantitative Skills Distribution (M)			5
			15

Term 5			***Units***
DRMA	107	Beginning Acting (H)	5
M ST	261	Intro to Editing	5
Natural Science Distribution (NS)			5
			15

Term 6			***Units***
M ST	262	Television Production	5
Health & Fitness Distribution (HF)			1
Natural Science Distribution (NS)			5
Social Science Distribution (SS) (D)			5
			16

MEDICAL ASSISTANT

Emphasis: Medical Assistant
Degree: Associate in Applied Science
Total Units: 92-96
Class Type: Lecture, Lab, Hybrid

PURPOSE: Medical Assistants are multi-skilled practitioners who perform in 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. Clinical procedures include assisting with physical examinations, phlebotomy (blood draw), administering injections, performing electrocardiograms (EKGs) and instrument sterilization.

PROGRAM OUTCOMES: Upon successful completion, students 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 well-organized patient medical records.
- Effectively use oral and written communication skills as they relate to a medical office environment.
- Perform within legal & 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 clinical procedures/processes, including infection control guidelines (Standard Precautions) as determined by the Center for Disease Control and the Occupational Safety & Health Administration.
- Prepare and maintain examination and treatment areas.
- Demonstrate the ability to prepare a patient for and assist with routine and specialty 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.
- Demonstrate ability to maintain medical office equipment and supplies.
- Demonstrate ability to administer medications through way of intramuscular, subcutaneous, and intradermal.

Understand and demonstrate the proper way to calculate doses of medication.

Suggested Order of Classes

Term 1			***Units***
ENGL&	101	English Composition I (C)	OR
WRT	105	Writing in the Workplace	5
HLSV	131	Nursing Assistant Certification	OR
M A	140	Medical Assisting Intro	5
M A	139	MA Medical Terminology	5
			15

Term 2			***Units***
BIOL&	170	Human Biology (NS) *	5
BTEC	101	Keyboarding for Business **	OR
BTEC	102	Keyboard Skillbuilding I	3
M A	130	Medical Math	OR
MATH&	146	Introduction to Stats (M)	5
			13

Term 3			***Units***
BTEC	266	Medical Law & Ethics	3
H R	110	Human Relations-Workplace	5
PSYC&	100	Psychology	OR
PSYC&	200	Lifespan Psychology	5
Health & Fitness Distribution (HF)			3
			16

Term 4			***Units***
M A	241	MA Clinical Procedures	7
M A	249	MA Admin Procedures	8
			15

Term 5			***Units***
M A	242	Medication Administration	7
M A	246	MA Laboratory Procedures	10
			17

Term 6			***Units***
M A	208	MA Electrocardiography	2
M A	243	MA Clinical Procedure II	6
M A	244	MA Externship Seminar	1
M A	245	MA Clinical Externship	6
M A	247	National Board Review	1
			16

* BIOL& 241 may be substituted for BIOL& 170
** BTEC 101 offered in the fall

MEDICAL SCRIBE

Emphasis: Medical Scribe
Degree: Certificate of Proficiency
Total Units: 50
Class Type: Lecture, Lab, Hybrid

PURPOSE: The Medical Office Scribe Certificate program combines general office skills with studies in medical terminology, human biology, medical office procedures, and medical machine transcription. The intended occupational path is that of a scribe assisting a provider in a medical setting such as a clinic or hospital.

PROGRAM OUTCOMES: Upon successful completion, students will have demonstrated the ability to:

- Demonstrate the ability to keyboard with speed and accuracy
- 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
- Demonstrate the ability to apply acquired skills in the workplace
- Demonstrate the ability to 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
- Demonstrate an understanding of human biology

Suggested Order of Classes

Term 1			***Units***
BIOL&	170	Human Biology	5
BTEC	102	Skillbuilding I	3
M A	139	Medical Terminology	5
Health & Fitness Distribution (HF) *			3
			16

Term 2			***Units***
BTEC	107	Electronic Medical Records	4
BTEC	203	Skillbuilding II	3
BTEC	210	Word I	5
BTEC	221	Business Communications	5
			17

Term 3			***Units***
BTEC	263	Medical Documentation	4
BTEC	266	Medical Law & Ethics	3
M A	130	Medical Math	5
H R	110	Human Relations-Workplace	5
			17

* HLTH 145 Safety & Fitness is recommended for the Health and Fitness Distribution and can be completed any quarter.

MEDICINE

See Pre-Medicine, Pre-Dentistry

MUSIC

Emphasis: Music
Degree: Associate in Arts
Total Units: 90

PURPOSE: The Associate in Arts degree with a Music emphasis is for students who are interested in transferring to a four-year college or university to complete a Bachelor of Arts in Music degree, a Bachelor of Liberal Arts degree, or any Bachelor's degree with a music minor. This degree offers a liberal arts foundation as well as establishing college level skills in music needed to succeed in a variety of music professions.

Suggested Order of Classes

Term 1			***Units***
ENGL&	101	English Composition I (C)	5
MUSC	150	Functional Piano I *	1
Health & Fitness Distribution (HF)			3
Social Science Distribution (SS)			5
			14

Term 2			***Units***
ENGL&	102	Composition II (C)	5
MUSC	151	Functional Piano II *	1
Ensemble (course number varies)			2
Natural Science Distribution (NS) **			5
			13

Term 3			***Units***
MATH&	107	Math in Society (M)	5
MUSC	100	Fundamentals of Music ***	5
MUSC	152	Functional Piano III **	1
Natural Science Distribution (NS) **			5
			16

Term 4			***Units***
MUSC&	141	Music Theory I (H)	5
Applied Music (course number varies)			1
Ensemble (course number varies)			2
Humanities Distribution (H) Non-music			5
Social Science Distribution (SS)			5
			18

Term 5			***Units***
MUSC&	142	Music Theory II	5
Applied Music (course number varies)			1
Ensemble (course number varies)			2
Social Science Distribution (SS) (D)			5
			13

Term 6			***Units***
MUSC&	143	Music Theory III	5
Applied Music (course number varies)			1
Humanities Distribution (H) Non-music			5
Natural Science Distribution (NS)			5
			16

* Students who are already proficient at piano may choose to substitute additional applied music for this credit.

** At least one Natural Science class must include a Lab

*** Students who test out of MUSC 100 may choose, instead, to take an additional 2 quarters of Ensemble and 1 quarter of Applied Music.

NATURAL RESOURCES MANAGEMENT

Emphasis: Forestry, Fisheries, Wildlife Management
Degree: Associate in Arts
Total Units: 90

PURPOSE: This Associate of Arts in Natural Resource Management 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. Natural Science requirements vary among transfer institutions. Some require only 10 units of BIOL& 221, 222, 223 while others also require CHEM& 131.

Please consult with your advisor as you plan your curriculum and coordinate your program with the requirements of the institution to which you plan to transfer.

Suggested Order of Classes

Term 1			***Units***
ENGL&	101	English Composition I (C)	5
GEOL&	101	Intro Physical Geology (NS)	5
Social Science Distribution (SS)			5
			15

Term 2			***Units***
ENGL&	102	Composition II (C)	5
ENVS	170	Natural Resources Mgmt (NS)	5
MATH&	146	Introduction to Stats (M)	5
			15

Term 3			***Units***
BOTA	150	Dendrology (NS)	5
CHEM&	121	Intro to Chemistry (NS)	5
GEOL&	208	Geology of Pacific NW (NS) *	5
			5

Term 4			***Units***
BIOL&	221	Majors Ecology / Evolution (NS)	5
Humanities Distribution (H)			5
Social Science Distribution (SS)			5
			15

Term 5			***Units***
BIOL&	222	Majors Cell/Molecular (NS)	5
Humanities Distribution (H)			5
Social Science Distribution (SS)			5
			15

Term 6			***Units***
BIOL&	223	Majors Organismal Phys (NS)	5
Elective			2
Health & Fitness Distribution (HF)			3
Humanities Distribution (H)			5
			15

Recommended Social Science distribution:
ECON& 201 Microeconomics, POLS& 101 Intro Political Science, or POLS& 202 American Government

Recommended Humanities distribution:
PHIL 103 Intro to Ethics (H); plus, five (5) units of foreign language or other humanities distribution (H) as needed for a transfer program.

NURSING – REGISTERED

Major: Nursing
Degree: Associate in Applied Science – Transfer
Total Units: 120

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 to begin the first year of 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 (nursingapplication.centralia.edu). Applications are due in April; courses completed through Spring quarter will be considered. (Subject to change.)

If you are admitted to the RN program, you 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 specific background checks will be obtained. This includes a criminal records check required by clinical facilities in order to be at those clinical sites. You also must show proof of current Basic Life Support (BLS) for Health Care Providers (HCP).

PROGRAM OUTCOMES Upon successful completion, students will have demonstrated the ability to:

- Maintaining Belief– Provides patient-centered care to facilitate spiritual, mental and physical health with sensitivity and respect for the diversity of the human experience.
- Knowing – Uses clinical judgement and evidence-based practice as the basis for decision making in the provision of safe, comprehensive patient-centered care.
- Being With – Practices compassionate, competent, holistic, high quality patient-centered care in all situations.
- Doing For – Uses critical thinking to promote holistic health while performing technical skills in an efficient, competent manner.
- Enabling/Informing – Coordinates, collaborates and communicates with diverse patient populations, families and interdisciplinary health care teams to plan, deliver and evaluate care which promotes quality of life and empowers the patient through education.

Prerequisites for Admission			***Units***
BIOL&	241	Human A & P 1 (NS)	5
BIOL&	242	Human A & P 2 (NS)	5
CHEM&	121	Intro to Chemistry (NS)	5
ENGL&	101	English Composition I (C)	5
MATH&	146	Introduction to Stats (M)	5
PSYC&	200	Lifespan Psychology (SS)	5
NA-C Certification *			

***Core Requirements ** ***			***Units***
ANTH&	206	Cultural Anthropology (D) (SS) **	OR
SOC&	101	Intro to Sociology (SS) **	5
BIOL&	260	Microbiology **	5
CMST&	220	Public Speaking (H) **	OR
CMST	250	Intercultural Communication (D) (H) **	5
Health & Fitness Distribution**			3

NURSING COURSES

Term 1			***Units***
NURS	101	Basic Nursing Care Concepts	12

Term 2			***Units***
NURS	102	Common Alterations I	12

Term 3			***Units***
NURS	103	Common Alterations II	12

Term 4			***Units***
NURS	201	Mental Health and Lifespan	10
NURS	220	Management & Leadership	2
			12

Term 5			***Units***
NURS	202	Complex Alterations	12

Term 6			***Units***
NURS	203	Complex Management	8
NURS	222	Transition to Practice	4
			12

* Applicant MUST have current, ACTIVE NA-C Certification status listed on the WA Department of Health Licensing/Credentials website. Completion of a NA-C course and completion or passage of the WA NA-C exam alone is NOT considered active certification status

** Courses which are recommended to be taken prior to admission.

PHARMACY

See Pre-Pharmacy

PHLEBOTOMY

Emphasis: Phlebotomy
Degree: Certificate of Proficiency
Total Units: 46
Class Type: Lecture, Lab

PURPOSE: Laboratory procedures and regulations as set forth by federal standards will be the focus of this course. Students will be taught how to perform clinical laboratory testing that is within their scope of practice. Phlebotomy training will be a major emphasis in this program with hands-on practice and dexterity for successful and safe venipuncture. Other common lab tests performed in clinical settings will be learned.

PROGRAM OUTCOMES: Upon successful completion, students will have demonstrated the ability to:

- Competency in collecting blood via venipuncture, syringe, butterfly, and arterial draws as well as other biological specimens and substances.
- Recognize the legal and ethical standards in the laboratory setting.
- Understand factors that can affect procedures and results of specimen testing.
- Know laboratory safety and take appropriate actions on safety.
- Display professionalism and interpersonal skills with patients, laboratory personnel as well as other health care providers.
- Recognize the responsibilities of a phlebotomist in the working laboratory.

Suggested Order of Classes

Fall Quarter, First Year			***Units***
ENGL&	101	English Composition I	OR
WRT	105	Writing in the Workplace	5
M A	139	Medical Terminology	5
BTEC	101	Keyboarding for Business	OR
BTEC	102	Keyboard Skillbuilding I	3
			13

Winter Quarter, First Year			***Units***
BIOL&	170	Human Biology (NS)	5
M A	130	Medical Math *	OR
MATH&	146	Introduction to Stats (M)	5
PHLE	131	Intro to Phlebotomy Tech	6
			16

Spring Quarter, First Year			***Units***
H R	110	Human Relations-Workplace	5
HLSV	110	BLS for Healthcare Providers	1
PHLE	132	Advanced Phlebotomy **	8
Health & Fitness Distribution (HF)			3
			17

* MATH 096 or equivalent is the prerequisite to MA 130 Medical Math.

**Students must receive a 2.5 GPA or higher in PHLE 132 Advanced Phlebotomy to receive a certificate in the program.

For students who have taken prerequisites for Nursing, class substitutions may apply.

PHYSICAL EDUCATION

Emphasis: Exercise Science
Degree: Associate in Arts
Total Units: 90

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

Term 1			***Units***
ENGL&	101	English Composition I (C)	5
MATH&	146	Introduction to Stats (M)	5
PSYC&	100	General Psychology (SS)	5
			15

Term 2			***Units***
CHEM&	121	Intro to Chemistry (NS)	5
ENGL&	102	Composition II (C)	5
NUTR&	101	Nutrition (NS)	5
			15

Term 3			***Units***
BIOL&	170	Human Biology (NS)	5
CMST&	220	Public Speaking (H)	5
P E	229	Physical Fitness Concepts (HF)	3
Humanities Distribution (H)			5
			18

Term 4			***Units***
BIOL&	241	Human A & P 1 (NS)	5
HLTH	140	Exercise & Nutrition (HF)	3
HLTH	154	First Aid/CPR	1
SOC&	101	Intro to Sociology (SS)	5
			14

Term 5			***Units***
BIOL&	242	Human A & P 2 (NS)	5
HLTH	130	Health & Wellness (HF)	3
PSYC&	220	Abnormal Psychology	5
			13

Term 6			***Units***
CHEM&	131	Intro to Organic/Biochemistry (NS)	5
Humanities Distribution (H)			5
Social Science Distribution (SS)			5
			15

PHYSICAL EDUCATION

Emphasis: Teacher Education
Degree: Associate in Arts
Total Units: 92

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

Term 1			***Units***
ENGL&	101	English Composition I (C)	5
MATH&	107	Math in Society (M)	5
PSYC&	100	General Psychology (SS)	5
P E	229	Fitness Concepts (HF)	3
			18

Term 2			***Units***
CHEM&	121	Intro to Chemistry (NS)	5
ENGL&	102	Composition II (C)	5
NUTR&	101	Nutrition (NS)	5
			15

Term 3			***Units***
BIOL&	170	Human Biology (NS)	5
CMST&	220	Public Speaking (H)	5
HLTH 135, 143, or 144 (HF)			2
Humanities Distribution (H)			5
			17

Term 4			***Units***
BIOL&	241	Human A & P 1 (NS)	5
HLTH	140	Exercise & Nutrition (HF)	3
SOC&	101	Intro to Sociology (SS)	5
			13

Term 5			***Units***
BIOL&	242	Human A & P 2 (NS)	5
EDUC&	201	Intro to Education	3
EDUC	202	Classroom Observation	2
HLTH	130	Health & Wellness (HF)	3
			13

Term 6			***Units***
HLTH	154	First Aid/CPR	1
PSYC&	200	Lifespan Psychology (SS)	5
Humanities Distribution (H)			5
Social Science Distribution (SS)			5
			16

PHYSICS

Emphasis: Physics
Degree: Associate in Science
Total Units: 94

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.

If you are not well prepared in high school mathematics and science, you should plan, with your 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 your mathematics, basic sciences, communications, and reading skills.

To ensure optimal course selection, plan your program of study with an advisor.

Suggested Order of Classes

Term 1			***Units***
CHEM&	161	General Chem w/ Lab I (NS)	6
ENGL&	101	English Composition I (C)	5
Health & Fitness Distribution (HF)			3
			14

Term 2			***Units***
CHEM&	162	General Chem w/ Lab II (NS)	6
ENGL&	235	Technical Writing (C)	5
MATH&	151	Calculus I (M)	5
			16

Term 3			***Units***
CHEM&	163	General Chem w/ Lab III (NS)	6
MATH&	152	Calculus II (M)	5
Humanities Distribution (H)			5
			16

Term 4			***Units***
MATH	118	Linear Algebra (M)	5
PHYS&	221	Engineering Physics I (NS)	5
Social Science Distribution (SS)			5
			15

Term 5			***Units***
ENGR	203	Applied Numerical Methods	5
MATH&	163	Calculus III	5
PHYS&	222	Engineering Physics II (NS)	5
			15

Term 6			***Units***
MATH	212	Differential Equations	5
MATH	264	Calculus IV	3
PHY&	223	Engineering Physics III (NS)	5
Humanities Distribution (H)			OR
Social Science Distribution (SS)			5
			18

PRE-CHIROPRACTIC
PRE-PHYSICAL THERAPY

Emphasis: Pre-Chiropractic, Pre-Physical Therapy
Degree: Associate in Science
Total Units: 93

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 be tailored to meet individual needs. If you complete the courses recommended, you are reasonably assured of being able to transfer with junior standing to most colleges and universities in Washington State. Students interested in physical therapy should be aware that a master's degree is required for entry into professional practice. You are urged to consult with your advisor as you plan your curriculum and select electives. This will allow your advisor to coordinate your program with the requirements of the institution to which you expect to transfer.

Be certain to meet with your advisor to select a sequence of classes that will meet your transfer goals.

Suggested Order of Classes

Term 1		***Units***
BIOL& 221	Majors Ecology/Evolution (NS)	5
CHEM& 161	General Chem w/ Lab I (NS)	6
ENGL& 101	English Composition I (C)	5
		16

Term 2		***Units***
BIOL& 222	Majors Cell/Molecular (NS)	5
CHEM& 162	General Chem w/ Lab II (NS)	6
MATH& 151	Calculus I (M)	5
		16

Term 3		***Units***
BIOL& 223	Majors Organismal Phys (NS)	5
CHEM& 163	General Chem w/ Lab III (NS)	6
MATH& 152	Calculus II (M)	5
		16

Term 4		***Units***
BIOL& 241	Human A & P 1 (NS)	OR
PHYS& 221	Engineering Physics I (NS)	5
Health & Fitness Distribution (HF)		3
Social Science Distribution (SS)		5
		13

Term 5		***Units***
BIOL& 242	Human A & P 2 (NS)	OR
PHYS& 222	Engineering Physics II (NS)	5
MATH& 146	Introduction to Stats (M)	5
Humanities Distribution (H)		5
		15

Term 6		***Units***
BIOL& 243	Adv. Topics Human A & P (NS)	OR
PHYS& 223	Engineering Physics III (NS)	5
Elective		5
Humanities Distribution (H)		OR
Social Science Distribution (SS)		5
		15

Recommended Science Electives
CHEM& 261, 262, 263; Organic Chemistry w/lab I-III;

PRE-DENTAL HYGIENE

Degree: Associate in Arts
Total Units: 91-93

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. You may prepare for the program 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, you need to contact your advisor or the institution to which you will apply for specific details. You may also be required to complete the Dental Hygiene Aptitude Test. Your advisor will help you set an educational plan to complete this program of study.

Suggested Order of Classes

Term 1			***Units***
CHEM&	121	Intro to Chemistry (NS)	5
ENGL&	101	English Composition I (C)	5
MATH&	107	Math in Society (M)	OR
MATH&	146	Introductions to Stats (M)	5
			15

Term 2			***Units***
ENGL&	102	Composition II (C)	5
SOC&	101	Intro to Sociology (SS)	5
Humanities Distribution (H)			5
			15

Term 3			***Units***
BIOL&	170	Human Biology (NS)	5
CHEM&	131	Intro to Organic/Biochemistry (NS)	5
PSYC&	100	General Psychology (SS)	5
			15

Term 4			***Units***
BIOL&	241	Human A & P 1 (NS)	5
NUTR&	101	Nutrition (NS)	5
Humanities Distribution (H)			5
			15

Term 5			***Units***
BIOL&	242	Human A & P 2 (NS)	5
CMST&	220	Public Speaking (H)	5
Social Science Distribution (SS)			5
			15

Term 6			***Units***
BIOL&	260	Microbiology (NS)	5
HLTH	145	Safety & Fitness (HF)	3
Diversity Elective (D)			5
Elective			3-5
			16-18

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

Not all transfer institutions require an A.A. degree. Students should check their transfer institutions to determine their specific program requirements.

* BIOL 243, although not required, is strongly recommended.

PRE-MEDICINE
PRE-DENTISTRY

Degree: Associate in Science
Total Units: 91-94

PURPOSE: The Pre-Medicine/Pre-Dentistry program is intended for person 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. You 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 you are not admitted to a medical school. The program outlined below provides a solid foundation in the natural and physical sciences. If you complete this program of study, you are reasonably assured of being able to transfer with junior standing to most four-year colleges and universities in Washington State. You are urged to consult with your advisor as you plan your curriculum and select electives. This will allow your advisor to coordinate your program with the requirements of your intended major at the institution to which you expect to transfer.

Suggested Order of Classes

Term 1		***Units***
BIOL& 221	Majors Ecology/Evolution (NS)	5
CHEM& 161	General Chem w/ Lab I (NS)	6
ENGL& 101	English Composition I (C)	5
		16

Term 2		***Units***
BIOL& 222	Majors Cell/Molecular (NS)	5
CHEM& 162	General Chem w/ Lab II (NS)	6
MATH& 151	Calculus I (M)	5
		16

Term 3		***Units***
BIOL& 223	Majors Organismal (NS)	OR
CHEM& 163	General Chem w/ Lab III (NS)	6
MATH& 152	Calculus II (M)	5
		16

Term 4		***Units***
HUM 110	Ethics and Cultural Values (D) (H)	5
PSYC& 100	General Psychology (SS)	5
Biology/Chemistry/Physics sequence *		5-6
		15-16

Term 5		***Units***
CMST& 220	Public Speaking (H)	5
MATH& 146	Introduction to Stats (M)	OR
MATH& 163	Calculus III	5
Biology/Chemistry/Physics sequence *		5-6
		15-16

Term 6		***Units***
SOC& 101	Intro to Sociology (SS)	5
Health & Fitness Distribution (HF)		3
Biology/Chemistry/Physics sequence *		5-6
		13-14

Recommended Science Sequence
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.

* Biology majors should select Organic Chemistry or Physics for second-year sequence. Some baccalaureate institutions require physics with calculus.

PRE-NURSING

Emphasis: Pre-Nursing
Degree: Associate in Pre-Nursing – DTA/MRP
Total Units: 93

PURPOSE: This 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 State 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 State but does NOT guarantee admission to the Nursing program. Students are urged to consult an advisor and refer to the admissions requirements for individual baccalaureate institutions for specific requirements and admissions criteria.

Suggested Order of Classes

Term 1			***Units***
ENGL&	101	English Composition I (C)	5
MATH&	146	Introduction to Stats (M)	5
Health & Fitness Distribution (HF)			1
Humanities Distribution (H)			5
			16

Term 2			***Units***
BIOL&	160	General Biology w/ Lab (NS)	OR
BIOL&	170	Human Biology (NS)	5
CHEM&	121	Intro to Chemistry (NS)	5
PSYC&	100	General Psychology (SS)	5
			15

Term 3			***Units***
CHEM&	131	Intro to Organic/Biochemistry (NS)	5
ENGL&	102	Composition II (C)	5
PSYC&	200	Lifespan Psychology (SS)	5
Health & Fitness Distribution (HF)			1
			16

Term 4			***Units***
BIOL&	241	Human A & P 1 (NS)	5
NUTR&	101	Nutrition (NS)	5
Humanities Distribution			5
			15

Term 5			***Units***
BIOL&	242	Human A & P 2 (NS)	5
CMST&	220	Public Speaking (H)	5
SOC&	101	Intro to Sociology (SS)	5
Health & Fitness Distribution (HF)			1
			16

Term 6			***Units***
BIOL&	260	Microbiology (NS)	5
Elective			5
Humanities Distribution			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.

PRE-PHARMACY

Degree: Associate in Science
Total Units: 91-94

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. If you complete the program outlined, you are reasonably assured of being able to transfer with junior standing to most colleges and universities in Washington State. You are urged to consult with your advisor as you plan your curriculum and select electives. This will allow your advisor to coordinate your program with the requirements of the institution to which you expect to transfer.

Be certain to meet with your advisor to select a sequence of classes that will meet your transfer goals.

Suggested Order of Classes

Term 1		***Units***
BIOL& 221	Majors Ecology/Evolution (NS)	5
CHEM& 161	General Chem w/ Lab I (NS)	6
ENGL& 101	English Composition I (C)	5
		16

Term 2		***Units***
BIOL& 222	Majors Cell/Molecular (NS)	5
CHEM& 162	General Chem w/ Lab II (NS)	6
MATH& 151	Calculus I (M)	5
		16

Term 3		***Units***
BIOL& 223	Majors Organismal Phys (NS)	5
CHEM& 163	General Chem w/ Lab III (NS)	6
MATH& 152	Calculus II (M)	5
		16

Term 4	***Units***
Biology/Chemistry sequence *	5-6
Health & Fitness Distribution (HF)	3
Social Science Distribution (SS)	5
	13-14

Term 5		***Units***
MATH& 146	Introduction to Stats (M)	5
Biology/Chemistry sequence *		5-6
Humanities Distribution (H)		5
		15-16

Term 6	***Units***
Biology/Chemistry sequence *	5-6
Elective	5
Humanities Distribution (H)	OR
Social Science Distribution (SS) *	5
	15-16

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

*Biology majors should select Organic Chemistry or Anatomy and Physiology (BIOL& 241, BIOL& 242) and Microbiology (BIOL& 260) for second year sequence

PRE-VETERINARY MEDICINE

Degree: Associate in Science
Total Units: 91

PURPOSE: The Pre-Veterinary Medicine 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. If you complete the program outlined below, you are reasonably assured of being able to transfer with junior standing to most four-year colleges and universities in Washington State. You are urged to consult with your advisor as you plan your curriculum and select electives. This will allow your advisor to coordinate your program with the requirements of your intended major at the institution to which you expect to transfer.

Be certain to meet with your advisor to select a sequence of classes that will meet your transfer goals.

Suggested Order of Classes

Term 1		***Units***
BIOL& 221	Majors Ecology/Evolution (NS)	5
CHEM& 161	General Chem w/ Lab II (NS)	6
ENGL& 101	English Composition I (C)	5
		16

Term 2		***Units***
BIOL& 222	Majors Cell/Molecular (NS)	5
CHEM& 162	General Chem w/ Lab II (NS)	6
MATH& 151	Calculus I (M)	5
		16

Term 3		***Units***
BIOL& 223	Majors Organismal Phys (NS)	5
CHEM& 162	General Chem w/ Lab III (NS)	6
MATH& 152	Calculus II (M)	5
		16

Term 4		***Units***
CHEM& 261	Organic Chem w/ Lab I (NS)	5
Health & Fitness Distribution (HF)		3
Social Science Distribution (SS)		5
		13

Term 5		***Units***
CHEM& 262	Organic Chem w/ Lab II (NS)	5
MATH& 146	Introduction to Stats (M)	OR
MATH& 163	Calculus III	5
CMST& 220	Public Speaking (H)	5
		15

Term 6		***Units***
CHEM& 263	Organic Chem w/ Lab III (NS)	OR
Science Elective		5
General Elective		5
Humanities Distribution (H)		OR
Social Science Distribution (SS)		5
		15

PSYCHOLOGY

Emphasis: Psychology
Degree: Associate in Arts
Total Units: 90

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 that deal with people. Consult with psychology faculty for additional information.

Suggested Order of Classes

Term 1			***Units***
ENGL&	101	English Composition I (C)	5
PSYC&	100	General Psychology (SS)	5
CMST&	220	Public Speaking (H)	5
			15

Term 2			***Units***
ENGL&	102	Composition II (C)	5
PSYC&	200	Lifespan Psychology (SS)	5
NUTR&	101	Nutrition (NS)	5
			15

Term 3			***Units***
MATH&	146	Introduction to Stats (M)	5
PSYC	250	Social Psychology	OR
PSYC	210	Intro to Personality	5
Humanities Distribution (H)			5
			15

Term 4			***Units***
BIOL&	170	Human Biology	5
SOC&	101	Intro to Sociology	5
Health & Fitness Distribution (HF)			1
Humanities Distribution (H)			5
			16

Term 5			***Units***
Elective			5
Elective			5
Health & Fitness Distribution			1
Social Science Distribution (SS)			5
			16

Term 6			***Units***
Elective			7
Health & Fitness Distribution (HF)			1
Natural Science Distribution (NS)			5
			13

SOCIOLOGY

Emphasis: Sociology
Degree: Associate in Arts
Total Units: 90

PURPOSE: The Associate in Arts of Sociology 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.

Some knowledge of sociology is generally regarded as a useful supplement to course work in most subject areas. The course of study for sociology majors is sufficiently flexible to provide study in areas of interest such as family, urban living, crime, and deviance.

To work as a sociologist usually requires graduate work. However, sociology provides courses used in training for careers in applied fields such as social welfare, city planning, and criminal justice.

By following this sociology educational plan at Centralia College students gain an adequate foundation to transfer to a four-year college or university. See the sociology faculty advisors for details.

Suggested Order of Classes

Term 1			***Units***
ENGL&	101	English Composition I (C)	5
SOC&	101	Intro to Sociology (SS)	5
Humanities Distribution (H)			5
			15

Term 2			***Units***
ENGL&	102	Composition II (C)	5
MATH&	146	Introduction to Stats (M)	5
Social Science Distribution (SS)			5
			15

Term 3			***Units***
ANTH	225	Cultural & Ethnic Pluralism (D) (SS)	
	OR		
SOC&	201	Social Problems (SS)	5
SOC	225	Cultural & Ethnic Pluralism (D) (SS)	5
Humanities Distribution (H)			5
			15

Term 4			
ANTH&	206	Cultural Anthropology (D) (SS)	5
Humanities Distribution (H)			5
Natural Science Distribution (NS) **			5
			15

Term 5			***Units***
ANTH&	210	Indians of North American (D) (SS)	5
Natural Science Distribution (NS)			5
Health & Fitness Distribution (HF)			3
Elective			2
			15

Term 6			***Units***
Social Science Distribution (SS)			5
Natural Science Distribution (NS)			5
Elective			5
			15

*Recommend a language

**Recommend ENVS& 100 (NS)

Sociology majors are encouraged to develop a broad base in the Social Sciences to include PSYC& 100 General Psychology and PSYC& 200 Lifespan Psychology.

SUBSTANCE USE DISORDER PROFESSIONAL

Degree: Associate in Applied Science
Total Units: 95
Class Type: Lecture, Lab, Hybrid, Online

PURPOSE: The Associate in Applied Science in Substance Use Disorder is for students interested in focusing their studies on Substance Abuse Disorder Counseling. This program prepares the student for work as a Substance Use Disorder Counselor in various settings from withdrawal management facilities to inpatient treatment programs. Students entering the program will fulfill the education requirement for Substance Use Disorder Professional Trainee (SUDPT) certification through the Department of Health (DOH). Students take classes that directly fulfill Washington Administrative Code (WAC) requirements toward acquiring the Substance Use Disorder Professional (SUDP) certification.

PROGRAM OUTCOMES: Upon successful completion, students will have demonstrated the ability to:

- Demonstrate an understanding of 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.
- Demonstrate skills necessary to perform clinical evaluations, HIV/AIDS risk interventions and case management functions.

Suggested Order of Classes

Term 1			***Units***
SUDP	100	Intro to SUDP *	5
ENGL&	101	English Composition I (C)	OR
WRT	105	Writing in the Workplace	5
Health & Fitness Distribution (HF)			3
PSYC&	100	General Psychology (SS)	5
			18

Term 2			***Units***
SUDP	110	Counseling Techniques	4
SUDP	120	Substance Use & Family	4
PSYC&	200	Lifespan Psychology (SS)	5
Natural Science Distribution (NS)			5
			18

Term 3			***Units***
SUDP	130	Drug & Alcohol Responses	5
PSYC&	220	Abnormal Psychology	5
BTEC	120	Applied Business Math	OR
Quantitative Skills Distribution (M) **			5
			15

Term 4			***Units***
SUDP	200	Law and Ethics	4
SUDP	210	Cultural Diversity	3
SUDP	220	Counseling Adolescents	5
CMST&	220	Public Speaking (H)	5
			17

Term 5			***Units***
SUDP	230	Assess & Treatment Plans	5
SUDP	240	Group Counseling	5
SOC&	101	Intro to Sociology (SS)	5
			15

Term 6			***Units***
SUDP	250	Relapse Prevention	2
SUDP	260	Supervised Practicum	5
H R	110	Human Relations-Workplace	5
			12

*SUDP 100 is a pre-requisite for all other SUDP classes. A GPA of 2.0 or higher is required in all SUDP courses.

<u> Quantitative Skills Recommended:</u>**
MATH& 107, MATH& 146

TELEVISION

See Media Studies

THEATER

See Dramatic Arts

WELDING

Emphasis: Welding Technology
Degree: Associate in Applied Science
Total Units: 90-94
Class Type: Lecture, Lab, Hybrid

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 AAS 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: Upon successful completion, students 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.
- Apply principles and welding design practices to welding fabrication and inspection.
- Identify and make repairs to finished welds.
- Interpret information on welding blueprints.
- Apply the principles of Metallurgy to welding fabrication and inspection.
- Develop basic computer aided drafting skills
- Perform 3-G and 4-G AWS - WABO welding code qualification tests.

Suggested Order of Classes

Term 1			***Units***
BTEC	214	Excel I **	OR
I T	117	Intro to Windows OS *	3-5
TRDS	100	Industrial Safety	5
TRDS	101	College & Career Success	3
TRDS	120	Mechanical Systems	5
			16-18

Term 2			***Units***
HLTH	145	Safety & Fitness *	3
TRDS	140	Fluid Systems	5
TRDS	180	Electrical Systems	5
			13

Term 3			***Units***
BTEC	191	Work Experience Seminar	1
ENGL&	101	English Composition I *	OR
WRT	105	Writing in the Workplace *	5
DET	102	Forklift *	1
Welding Elective			12-14
			19-21

Term 4			***Units***
WELD	161	SMAW I	6
WELD	165	SMAW Theory	2
WELD	190	Cooperative Work Experience ***	6
WELD	265	SMAW II	OR
			14

Term 5			***Units***
WELD	164	FCAW/GMAW I	6
WELD	175	FCAW/GMAW Theory	2
WELD	267	FCAW/GMAW II	OR
WELD	190	Cooperative Work Experience ***	6
			14

Term 6			***Units***
WELD	159	GTAW I	6
WELD	195	GTAW Theory	2
WELD	259	GTAW II	OR
WELD	190	Cooperative Work Experience ***	6
			14

GPA of 2.0 or higher is required in all WELD classes to continue enrollment each quarter.
* Completion is required but may be completed during any quarter.
** Suggested for AAS ERA students.
*** WELD 190 is available any quarter, may take up to 12 units.

WELDING

Emphasis: Welding
Degree: Certificate of Proficiency
Total Units: 59
Class Type: Lecture, Lab, Hybrid

PURPOSE: The Welding Certificate of 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: Upon successful completion, students 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.
- Apply principles and welding design practices to welding fabrication and inspection.
- Identify and make repairs to finished welds.
- Interpret information on welding blueprints.
- Apply the principles of Metallurgy to welding fabrication and inspection.
- Develop basic computer-aided drafting skills
- Perform 3-G and 4-G AWS - WABO welding code qualification tests.

Suggested Order of Classes

Term 1			***Units***
BTEC	191	Cooperative Work Exp Seminar	1
TRDS	101	College & Career Success	3
WELD	161	SMAW I	6
WELD	165	SMAW Theory	2
WELD	190	Cooperative Work Experience **	6
WELD	265	SMAW II	OR
			18

Term 2			***Units***
WELD	164	FCAW/GMAW I	6
WELD	175	FCAW/GMAW Theory	2
WELD	190	Cooperative Work Experience **	6
WELD	267	FCAW/GMAW II	OR
Quantitative Skills Distribution *			5
			19

Term 3			***Units***
WELD	159	GTAW I	6
WELD	195	Gas Tungsten Arc Welding II	2
WELD	259	GTAW II	OR
WELD	190	Cooperative Work Experience **	6
ENGL&	101	English Composition I *	OR
WRT	105	Writing in the Workplace *	5
HLTH	145	Safety & Fitness *	3
			22

* Completion is required, but may be completed during any quarter.
** WELD 190 available any quarter, may take up to 12 units.

GPA of 2.0 or higher is required in all WELD classes to continue enrollment each quarter.

WELDING

Emphasis: Welding (Evening)
Degree: Certificate of Completion
Total Units: 20
Class Type: Lecture, Lab, Hybrid

PURPOSE: Students who complete the following 20 units 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: Upon successful completion, students 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 to finished welds.
- Perform 3-G and 4-G AWS- WABO welding code qualification tests.

Suggested Order of Classes

Term 1			***Units***
WELD	180	Oxy/Gas Tung Arc Welding	OR

Term 2			***Units***
WELD	181	Shielded Metal Arc Welding	OR

Term 3			***Units***
WELD	182	Gas Metal Arc Welding	OR

Term 4			***Units***
WELD	285	ARC Welding Certification	5

When students complete WELD 180, WELD 181, WELD 182, and WELD 285 for a *total of 20 units*, they will receive a certificate of completion.

APPLIED BACCALAUREATE PROGRAMS

Bachelor of Applied Science (BAS) Degree Programs

What is a Bachelor of Applied Science (BAS) Degree?

A traditional bachelor's 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)
- The Bachelor of Applied Science in Behavioral Healthcare (BAS-BH)
- The Bachelor of Applied Science in Diesel Technology (BAS-DT)
- The Bachelor of Applied Science in Information Technology: Applications Development (BAS-IT: AD)
- The Bachelor of Applied Science in Teacher Education (BAS-TE)

Steps to Apply to a Bachelor of Applied Science Program

1. Review the entrance requirements for the desired program. Refer to www.centralia.edu/bachlors/default.aspcx website for a complete list of entrance requirements.
2. Complete and submit the application materials for the desired program.

Advising

Students accepted into a bachelor program will receive quarterly advising from the faculty advisor.

Registration

Students accepted into a BAS Program will be provided registration information quarterly by the faculty advisor. In most cases, 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 bachelors.centralia.edu website for current rates.

Financial Aid & Scholarships

Please see page 20 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 units 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 Dean of the BAS Program 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 BAS Program. 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.

BAS Admissions

Students who have earned a baccalaureate degree from an institution accredited by one of the following agencies:

- Accrediting Commission for Community and Junior Colleges, Western Association of Schools and Colleges (ACCJC)
- Higher Learning Commission (HLC)
- Middle States Commission on Secondary Schools (MSA-CESS)
- Northwest Commission on Colleges and Universities (NWCCU)
- Southern Association of Colleges and Schools Commission on Colleges (SACSCOC)
- Middle States Commission on Higher Education (MSCHE)
- New England Commission of Higher Education (NECHE)
- WASC Senior College and University Commission (WSCUC)

will have met the general education requirements (basic and distribution areas) for an applied baccalaureate degree from a Washington State community or technical college. Students must still complete program-specific general education degree requirements if not otherwise satisfied.

Contact Information

Elizabeth Lazo
Dean of Healthcare and Industrial Trades
BAS-BH, BAS-IT and BAS-DT Programs
360-623-8612
TEC 114E
bachelors@centralia.edu

Connie Smejkal
Interim Vice President of Instruction, Business, Education and Early Learning
BAS-AM and BAS-TE Programs
360-623-8615
WSC 120
bachelors@centralia.edu

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 two years (six-quarters).

Evening classes are conducted using the hybrid modality with each class meeting on campus for one two-hour period. Classes are on Tuesdays from 5-7 p.m., 7-9 p.m. and Thursdays from 6-8 p.m. The balance of the work is online. Day classes are conducted in the traditional face-to-face modality with each class meeting on campus for five one-hour periods. Classes are Monday through Friday from 9-9:50 a.m., 10-10:50 a.m. and 11-11:50 a.m. There may be an online component to the classes. Fully online classes do not have specific days and times for instruction but have weekly deadlines for submitting coursework.

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 degree or higher degree from a regionally accredited college or university with a minimum cumulative GPA of 2.5.
- Completed English 101 - English Composition with at a least a 2.0 cumulative GPA

The following courses must be completed prior to a bachelor's degree obtainment. Some courses can be included in the two-year degree or be completed during the bachelor's program in addition to the required courses. Students must complete a total of 55 units of General Education courses carrying the following distributions prior to graduation. Courses that cannot be included in an associate degree are bolded.

GENERAL EDUCATION REQUIREMENTS

Communications (C) 10 units

- ENGL& 101 English Composition I.....5
- Elective.....5

Humanities (H) 10 units

- **CMST 330 Prof & Org Communication**.....5
- **HUM 315 Ethics**.....5

Social Science (SS) 15 units

- **ECON 305 Managerial Economics**.....5
- **PSYC 320 Leadership & Org. Behavior**.....5
- ECON& 201 Microeconomics OR

- ECON& 202 Macroeconomics

Quantitative Skills (M) 10 units
- **MATH 350** Managerial Statistics.....5
- MATH& 146, 148, 151.....5

Natural Science (NS) 10 units w/ 1 Lab
- **ENVS 440 Environmental Issues**.....5
- Elective.....5

APPLIED MANAGEMENT (BAS-AM) PROGRAM OF STUDY

Emphasis: Applied Management
Degree: Bachelor of Applied Science
Total Units: 90
Class Type: Lecture, Hybrid, Online

PURPOSE: The 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: Upon successful completion, students will have demonstrated the ability to:

Communication Skills
Recognize communications issues and be able to employ effective oral, written, and analytical communication appropriate to organizational settings including personnel situations and in large and small group discussions.

Decision-Making
Understand the differences in decision-making strategies and when to use various approaches. This includes the application of analytical tools, quality information systems. Design evaluation strategies that foster continuous improvement.

Diversity
Be able to articulate the key laws, ethical aspects, regulations and benefits associated with diverse populations. Analyze workplace scenarios and understand how the move from accommodation, to inclusion, to aggressive recruitment can create competitive advantages.

Finance and Analysis
Design statistical models and apply data analysis techniques to the decision-making process. Utilize financial information, recognizing the reliability and accuracy of various sources, and managerial accountings tools to develop and analyze capital and operating budgets and understand various financing options to best meet organizational needs.

Global Perspectives
Be able to apply a global perspective to recognize and understand what is required to mitigate and manage the impacts of global currency differences and fluctuations as related to the purchase of raw materials and commodities or the sale of products to offshore customers. Understand the implications of doing business across legal and cultural boundaries.

Leadership and Management
Understand the difference between management and leadership, the variety of styles and roles and when they are best used as well as knowing how to work collaboratively in a team setting and how to create and manage productive teams. Recognize the value of diversity and community in business ventures.

Legal Issues and Ethics
Understand the difference between the law and ethics which includes articulating a personal ethical philosophy and the application to the workplace, especially with regard to human resource issues. Evaluate the impact of state and federal laws on

organizational practices and management scenarios.

Operations Management
Know how to apply marketing principles and current technologies, including the development of marketing plans, to deliver goods and services with increasing levels of quality, efficiency and customer satisfaction to maximize the return from operations management.

Strategic Management
Be able to move from the theoretical understanding of how market, local, national and global issues impact strategic management of an organization which includes the ability to develop an actionable strategic plan with appropriate contingencies for an organization. Apply project management concepts to develop, manage and track a project.

Tax and Audit
Know how to report financial performance in accordance with accounting principles required in tax, commercial, or government conceptual frameworks. Be able to apply audit procedures necessary in creating reasonable assurance as it pertains to financial performance presentation.

RECOMMENDED COURSE SCHEDULE

Fall Quarter, Junior Year			***Units***
CMST	330	Prof & Org Communication (H)	5
HUM	315	Ethics (H)	5
PSYC	320	Leadership & Org Behavior	5
			15

Winter Quarter, Junior Year			***Units***
ACCT	310	Accounting for Managers	OR
Accounting Elective			5
MATH	350	Managerial Statistics	5
MGMT	340	Applied Financial Management	5
			15

Spring Quarter, Junior Year			***Units***
ENVS	440	Environmental Issues	5
MGMT	420	Human Resource Management	5
MGMT	380	Applied Financial Management	OR
Accounting Elective			5
			15

Fall Quarter, Senior Year			***Units***
ECON	305	Managerial Economics	5
MGMT	370	Practicum	5
Accounting or Management Elective			5
			15

Winter Quarter, Senior Year			***Units***
MGMT	325	Legal Issues	5
MGMT	360	Bus Princ Planning & Strategy	5
Accounting or Management Elective			5
			15

Spring Quarter, Senior Year			***Units***
MGMT	460	Internship Seminar	2
MGMT	470	Internship	3
MGMT	490	Strategic Management	5
Accounting or Management Elective			5
			15

<u>Accounting Electives</u>
ACCT 301 Intermediate Accounting I
ACCT 302 Intermediate Accounting II
ACCT 401 Governmental Accounting
ACCT 403 Federal Tax Compliance & Planning
ACCT 404 Data Analytics for Accounting
<u>Management Concentration</u>
MGMT 410 Project Management
MGMT 430 Supply Chain Management
MGMT 435 Operations Management
MGMT 440 Quality Management Principles
MGMT 445 Warehouse Management

BEHAVIORAL HEALTHCARE (BAS-BH) PROGRAM OF STUDY

An applied bachelor's degree in Behavioral Healthcare (BAS-BH) provides the knowledge, skills and abilities needed to work in a variety of human service careers.

Admission into the BAS-BH 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:

Minimum Admission Requirements

1. BAS Application materials
2. Associate degree of 90 units at junior-level standing with at least a 2.5 cumulative GPA
3. English 101 English Composition I with at least a 2.0 minimum GPA
4. Completion of SUDP 100 Intro to SUDP (formerly CDP 100)

The following courses must be completed prior to earning a bachelor's degree. The courses can be included in the two-year degree or be completed during the bachelor's program in addition to program required courses.

Students must complete a total of 50 units of General Education courses carrying the following distributions prior to graduation. Courses that cannot be included in an associate degree are bolded.

GENERAL EDUCATION REQUIREMENTS

Communications (C) 10 units

- ENGL& 101 English Composition I.....5
- Elective.....5

Humanities (H) 5 units

- CMST& 220 Public Speaking.....5

Social Science (SS) 20 units

- PSYC& 100 General Psychology.....5
- PSYC& 200 Lifespan Psychology.....5
- PSYC& 220 Abnormal Psychology.....5
- SOC& 101 Intro to Sociology.....5

Quantitative Skills (M) 5 units

- MATH& 146 Intro to Statistics.....5

Natural Science (NS) 6-10 units w/ 1 lab

- BIOL& 170 Human Biology.....5
- BIOL 172 Human Biology Lab.....1
- or natural science w/lab.....5

Distribution Electives (C) (H) (SS) (M) (NS) 5 units

- Elective.....5

Students enroll full-time for a total of 15 units (three classes) per quarter for six quarters. There are no upper division summer courses offered.

Hybrid Evening Program

The evening hybrid program is a mix of online work (60 percent) and shortened class meetings (40 percent). The upper division classes meet two evenings per week – 5-8:50 p.m. Tuesdays and 6-7:50 p.m. Thursdays. Each class meets two hours per week and the remaining coursework is online.

Steps to Apply

1. If you are not a current or former Centralia College student, obtain a ctcLink ID number by applying to Centralia College online.
2. Complete the online BAS-BH Application Form. Priority applications will be accepted until July 30. Applications will be reviewed and applicants notified regarding admission by August 16.

After receiving the online BAS-BH Application Form, Enrollment Services will email you instructions for completing your admissions packet through Canvas.

BEHAVIORAL HEALTHCARE (BAS-BH) PROGRAM OF STUDY

RECOMMENDED 2-YEAR COURSE PLAN

Emphasis: Behavioral Healthcare
Degree: Bachelor of Applied Science
Total Units: 90-91
Class Type: Lecture, Lab, Hybrid

PURPOSE: The program is designed to graduate individuals who are well-grounded in the knowledge, skills and abilities to work effectively with a diverse client base in a variety of human service careers.

PROGRAM OUTCOMES: Upon successful completion, students will have demonstrated the ability to:

- Analyze behavioral health concepts such as current trends, theories, approaches, and best practices
- Recognize institutional and social barriers that impede access, equity, and success for individuals and families within behavioral health systems.
- Effectively analyze, evaluate, and conduct behavioral health research
- Identify the structures, functions, and organizations which comprise the local health care system, with a particular focus on behavioral healthcare organizations
- Demonstrate the ability to adhere to professional, ethical standards, including confidentiality and sensitivity when working with diverse populations within the behavioral health field
- Demonstrate clear, concise, and effective written, electronic, and verbal communication skills with clients, families, and interdisciplinary team members to enhance person-centered care and health outcomes

Complete both brief screenings and biopsychosocial assessments to include co-occurring disorders and develop and monitor client-centered treatment plans in the context of family community, and cultural identities.

Fall Quarter, Junior Year			***Units***
ENGL&	102	Composition II	OR
General Education Distribution Requirement			5
BASBH	300	Intro to Behavioral Healthcare	5
BASBH	320	Social & Cultural Diversity in BH	5
			15

Winter Quarter, Junior Year			***Units***
SUDP	110	Counseling Techniques	OR
General Education Distribution Requirement			4-5
BASBH	330	Ethics in Behavioral Health	5
BASBH	350	Neurobiology	5
			14-15

Spring Quarter, Junior Year			***Units***
BASBH	400	Case Management	5
PSYC	209	Research Methods	5
SUDP	240	Group Counseling	OR
General Education Distribution Requirement			5
			15

Fall Quarter, Senior Year			***Units***
BASBH	420	Treatment of Mental Health Disorders	5
BASBH	450	Advanced Counseling Techniques	5
BASBH	455	Behavioral Healthcare in Primary Care	5
			15

Winter Quarter, Senior Year			***Units***
BASBH	340	Professional Development	5
BASBH	430	Trauma-Informed Care	5
BASBH	440	Family Counseling	5
			15

Spring Quarter, Senior Year			***Units***
BASBH	325	Sociology of Health & Healthcare	5
BASBH	470	Practicum	OR
BASBH	471	Capstone Project	5
PSYC	409	Positive Psychology, Health & Aging	5
			15

SUDP 110 and SUDP 240 are required courses.
Students who have not completed SUDP 110 and SUDP 240 prior to program admissions, must complete the courses as part of the program.
Students who have completed SUDP 110 and SUDP 240 prior to program admission, must complete three general education requirements as part of the program.
Students who have completed SUDP courses and all general education prior to program start, will take the following course(s) to reach a minimum of 90 units for this degree. (PSYC 210, PSYC 250, SOC 125, SOC& 201)

ALTERNATIVE 3-YEAR COURSE PLAN

Term 1			*Units*
ENGL&	102	Composition II	OR
General Education Distribution Requirement			5
BASBH	300	Intro to Behavioral Healthcare	5
			10

Term 2			*Units*
SUDP	110	Counseling Techniques	OR
General Education Distribution Requirement			4-5
BASBH	330	Ethics in Behavioral Health	5
			9-10

Term 3			*Units*
SUDP	240	Group Counseling	OR
General Education Distribution Requirement			5
PSYC	209	Research Methods	5
			10

Term 4			*Units*
BASBH	320	Social & Cultural Diversity in BH	5
BASBH	455	Behavioral Healthcare in Primary Care	5
			10

Term 5			*Units*
BASBH	350	Neurobiology	5
BASBH	430	Trauma-Informed Care	5
			10

Term 6			*Units*
BASBH	400	Case Management	5
PSYC	409	Positive Psychology, Health & Aging	5
			10

Term 7			*Units*
BASBH	420	Treatment of Mental Health Disorders	5
BASBH	450	Advanced Counseling Techniques	5
			10

Term 8			*Units*
BASBH	340	Professional Development	5
BASBH	440	Family Counseling	5
			10

Term 9			*Units*
BASBH	325	Sociology of Health & Healthcare	5
BASBH	470	Practicum	OR
BASBH	471	Capstone Project	6
			10-11

SUDP 110 and SUDP 120 are required courses.
Students who have not completed SUDP 110 and SUDP 120 prior to program admissions, must complete the courses as part of the program.
Students who have completed SUDP 110 and SUDP 120 prior to program admission, must complete three general education requirements as part of the program.
Students who have completed SUDP courses and all general education prior to program start, will take the following course(s) to reach a minimum of 90 units for this degree. (PSYC 210, PSYC 250, SOC 125, SOC& 201)

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
- Proof of an earned associate 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.
- 15 units in Diesel, Automotive, or related fields with at least a 2.0 GPA

The following courses must be completed prior to a bachelor's degree obtainment. Some courses can be included in the two-year degree or be completed during the bachelor's program in addition to the required courses.

Students must complete a total of 50 units of General Education courses carrying the following distributions prior to graduation. Courses that cannot be included in an associate degree are bolded.

GENERAL EDUCATION REQUIREMENTS

Communications (C) 10 units

- ENGL& 101 English Composition I.....5
- Elective.....5

Humanities (H) 10 units

- **CMST 330** Prof & Org Communication.....5
- **HUM 315** Ethics.....5

Social Science (SS) 5 units

- Elective.....5

Quantitative Skills (M) 5 units

- MATH& 107, 141, 146, or equivalent.....5

Natural Science (NS) 10 units, One with Lab

- **DET 325** Material Science of Fluids.....5
- Elective.....5

Distribution Electives (C) (H) (SS) (M) (NS) 10 units

- Elective.....5
- Elective.....5

DIESEL TECHNOLOGY (BAS-DT) PROGRAM OF STUDY

Emphasis: Diesel Technology
Degree: Bachelor of Applied Science
Total Units: 96
Class Type: Lecture, Lab, Hybrid

PURPOSE: The 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: Upon successful completion, students will have demonstrated the ability 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 analysis – 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 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 participate effectively in teams.

RECOMMENDED COURSE SCHEDULE

Fall Quarter, Junior Year			*Units*
DET	102	Forklift Certification	1
DET	300	Applied Management	5
DET	320	Emissions Control	5
Elective			5
			16

Winter Quarter, Junior Year			*Units*
DET	325	Material Science of Fluids ** (NS) *	5
DET	335	Regulatory Issues	5
Elective			5
			15

Spring Quarter, Junior Year			*Units*
DET	345	Metalwork and Fabrication	5
DET	355	Hybrid Drives Electric/Hydraulic	5
DET	365	Internship	3
Elective			5
			18

Fall Quarter, Senior Year			*Units*
CMST	330	Prof and Org Communication ** (H) *	5
DET	430	Shop/Fleet Management	5
DET	455	Applied Failure Analysis	5
			15

Winter Quarter, Senior Year			*Units*
DET	435	Hydraulics II	5
DET	445	Combustion Engine Fuels	5
Elective			5
			15

Spring Quarter, Senior Year			*Units*
DET	415	Electrical III *	5
DET	465	Power Generation Systems	5
HUM	315	Ethics ** (H) *	5
			15

* Course has a prerequisite.

** Must meet GUR's (General University Requirements/Distribution Requirements) as listed under the Associate in Arts Degree (DTA).

BACHELOR OF APPLIED SCIENCE INFORMATION TECHNOLOGY: APPLICATION DEVELOPMENT (BAS-IT: AD)

Admission into the BAS-IT: AD 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
- Proof of an earned associate's or higher degree or 90 units from a regionally accredited college or university with a minimum cumulative GPA of 2.5
- Proof of completing 10 or more lower division units in current programming languages with a minimum 2.0 GPA

The following courses must be completed prior to a bachelor's degree obtainment. Some courses can be included in the two-year degree or be completed during the bachelor's program in addition to the required courses.

Students must complete a total of 50 units of General Education courses carrying the following distributions prior to graduation. Courses that cannot be included in an associate degree are bolded.

GENERAL EDUCATION REQUIREMENTS

Communications (C) 10 units

- ENGL& 101 English Composition I.....5
- Elective.....5

Humanities (H) 10 units

- **CMST 330 Prof & Org Communication**.....5
- **HUM 315 Ethics**.....5

Social Science (SS) 5 units

- Elective.....5

Quantitative Skills (M) 15 units

- MATH& 142 or MATH 118 or MATH 128.....5
- MATH& 146 Introduction to Stats.....5
- MATH 228 Discrete Mathematics.....5

Natural Science w/Lab (NS) 5 units

- Elective.....5

Distribution Electives (C) (H) (SS) (M) (NS) 5 units

- Elective.....5

INFORMATION TECHNOLOGY (BAS-IT: AD) PROGRAM OF STUDY

Emphasis: Application Development
Degree: Bachelor of Applied Science
Total Units: 90
Class Type: Lecture, Lab, Hybrid

PURPOSE: The program is designed to ensure graduates have a strong technical foundation in application and software development and will be prepared to work in teams, manage IT projects, and prepare software documentation. The program outcomes align with Centralia College Student Learning Competencies.

PROGRAM OUTCOMES: Upon successful completion, students will have demonstrated the ability to:

- Develop efficient code following best practices in data design and software development
- Communicate effectively with stakeholders
- Demonstrated ability to troubleshoot and problem-solve defect from identification to resolution
- Write and present technical documentation
- Project management skills, such as estimating work effort, assessing risk, analyzing data, and defining project scope
- Perform software assurance activities

RECOMMENDED COURSE SCHEDULE

Fall Quarter, Junior Year			***Units***
CMST	330	Prof & Org Communication ** (H) *	5
I T	301	App Dev Fundamentals	5
MATH&	146	Introduction to Stats ** (M)	5
			15

Winter Quarter, Junior Year			***Units***
I T	310	Adv Web Applications	5
I T	330	Software Engineering I	5
I T	350	Advanced Database Design	5
			15

Spring Quarter, Junior Year			***Units***
HUM	315	Ethics ** (H) *	5
I T	340	Software Engineering II	5
Elective			5
			15

Fall Quarter, Senior Year			***Units***
I T	415	Data Structures & Algorithms	5
I T	420	Business Intelligence App	5
MATH	228	Discrete Mathematics ** (M) *	5
			15

Winter Quarter, Senior Year			***Units***
I T	410	Adv Data Access Techniques	5
I T	435	Current Topics in Computing	5
Elective			5
			15

Spring Quarter, Senior Year			***Units***
I T	430	Info Security for Developers	5
I T	440	Internship I	OR
I T	460	BAS-IT: AD Capstone	5
Elective			5
			15

* Course has a prerequisite.

** Must meet GUR's (General University Requirements/Distribution Requirements) as listed under the Associate in Arts Degree (DTA).

BACHELOR OF APPLIED SCIENCE IN TEACHER EDUCATION (BAS-TE)

Admission into the BAS-TE 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 and submit the following:

- BAS application materials
- Proof of an earned associate degree or junior level status and transcripts approved by BAS administration from a regionally accredited college or university with a minimum cumulative GPA of 2.5

Successful completion of:

- English Composition I (5 units) with a 2.0 or better
- A college-level math course for which intermediate algebra is a prerequisite and contains quantitative skills distribution
- EDUC& 115 Child Development or PSYC& 200 Lifespan Psychology (5 units)
- ECED& 180 Language and Literacy (3 units)
- A minimum of three additional units of education course work (ECED& 100 Child Care Basics) does not qualify for this requirement. Highly recommended courses include: EDUC& 130 Guiding Behavior, ECED& 170 Environments - Young Child; ECED& 190 Observation/Assessment; EDUC& 204 Exceptional Child; EDUC& 205 Intro to Education w/Field Experience

The following courses must be completed prior to a bachelor's degree obtainment. Some courses can be included in the two-year degree or be completed during the bachelor's program in addition to the required courses.

Students must complete a total of 55 units of General Education courses carrying the following distributions prior to graduation. Courses that cannot be included in an associate degree are bolded.

ADDITIONAL ADMISSIONS REQUIREMENTS

- Passing scores from the WEST B Test (2 of 3 sections)
- Completion of FERPA release to share data with OSPI
- Completion of State of Washington required data sheet

ADDITIONAL REQUIREMENTS
(Completed Prior to Starting the Program)

- Office of the Superintendent for Public Instruction (OSPI) Background Check
- Pre-residency clearance

GENERAL EDUCATION REQUIREMENTS

Communications (C) 10 units

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

Humanities (H) 10 units

- Elective.....5
- Elective.....5

Social Science (SS) 15 units

- EDUC& 115 or PSYC& 200 *.....5
- History course highly recommended.....5
- **SST 365 Teaching Social Studies**.....5

Quantitative Skills (M) 10 units

- College Level Math.....5
- MATH 315 Teaching Math.....5

Natural Science (NS) 10 units w/ 1 Lab

- Physical Science *(Chemistry, Geology, Oceanography)* ..5
- Life Science *(Biology, Environmental, Nutrition)* 5

Special Education Endorsement Coursework

- EDUC 370 Support: Child & Family **
- EDUC 380 Typical and Atypical Child Development **
- EDUC 385 SPED Assessment **
- EDUC 410 Exceptional Learners **
- EDUC 480 SPED Seminar **

* Course is required for entrance into the program.

**Courses are only required for students completing both the Elementary Education and Special Education endorsements.

TEACHER EDUCATION (BAS-TE) PROGRAM OF STUDY

Emphasis: Elementary Education
Degree: Bachelor of Applied Science
Total Units: 93-103
Class Type: Lecture, Lab, Hybrid

PURPOSE: The program is designed to graduate individuals who are well-grounded in education and training and are prepared to obtain initial teaching certification (K-8) in the state of Washington with a primary endorsement in elementary education. Students can complete additional classes for a second endorsement in special education.

PROGRAM OUTCOMES: Upon successful completion, students will have demonstrated the ability to:

General skills for all educators:

- Communicate and collaborate effectively with children, parents/guardians, peers, administrators, and the community.
- Ensure cultural competence in teaching through adapting learner centered curricula that engage students in a variety of culturally responsive strategies.
- Foster positive, inclusive, learning settings in cognitive, behavior, language, physical and social domains to create a safe and productive learning environment.
- Utilize feedback and reflection to constantly improve teaching practices.

Elementary Education endorsement

- Understand and apply knowledge of the arts, English Language arts, health-fitness, mathematics, science, and social studies.
- Understand and apply knowledge regarding the development and learning of children and young adolescents and how teachers can connect learning to students' communities.
- Establish classroom communities that foster student engagement, learning and positive relationships.
- Use inquiry to effectively design and execute instructional plans and strategies that support diverse student learning within and across academic content areas.
- Design and implement a wide range of assessment strategies to inform instruction and support learning within and across academic content areas.

Special Education endorsement

- Understand the foundations of special education.
- Understand the characteristics of special education learners.
- Understand assessment, diagnosis, and evaluations and appropriately identify and use appropriate tools.
- Understand planning, content and practices associated with delivering appropriate educational opportunities.
- Understand how to manage student behavior and social interaction skills.

RECOMMENDED COURSE SCHEDULE

Term 1			***Units***
EDUC	300	Intro to Special Ed ++	3-5
EDUC	330	Technology and Teaching	2
EDUC	350	Diversity in Students	3
EDUC	370	Support: Child & Family **	3
EDUC	420	Curriculum and Instruction	5
			16-18

Term 2			***Units***
EDUC	315	Teaching Science	5
EDUC	355	Emergent Reading	5
EDUC	360	Assessment & Evaluation	5
EDUC	482	Practicum 2	2
			17

Term 3			***Units***
EDUC	345	Teaching Lang Arts & Dev	3
EDUC	365	Intermediate Reading	3 OR
EDUC	380	Dev of Differently Abled **	5
EDUC	400	Education and the Law	3 OR
EDUC	410	Exceptional Learners **	5
EDUC	421	Classroom Management	5
EDUC	483	Practicum 3	2
			16-20

Term 4			***Units***
EDUC	320	Social Emotional Teaching and Learning	5
EDUC	484	Practicum 4	2
MATH	315	Teaching Math	5
SST	365	Teaching Social Studies	5
			17

Term 5			***Units***
EDUC	351	Issues of Abuse	3
EDUC	385	SPED Assessment **	3
EDUC	497	Student Teaching Elem 1	10
			13-16

Term 6			***Units***
EDUC	335	Teaching Art and Movement	3
EDUC	480	SPED Seminar **	1-2
EDUC	490	Student Teaching SPED **(++)	OR
EDUC	498	Student Teaching Elem 2	10
			14-15

** Courses are only required for students completing both the Elementary Education and Special Education endorsements.

++Only currently certified teachers will complete reduced units in Into Special Education and SPED Seminar.

TEACHER EDUCATION – SPECIAL EDUCATION CERTIFICATE

Emphasis: Special Education
Degree: Special Education Certificate
Total Units: 20-23
Class Type: Lecture, Lab, Hybrid

PURPOSE: The Special Education Certificate is designed for currently certificated K-12 instructors seeking to add a special education endorsement to their teaching certification.

PROGRAM OUTCOMES: Upon successful completion, students will have demonstrated the ability to:

- Understand the foundations of special education.
- Understand the characteristics of special education learners.
- Understand assessment, diagnosis, and evaluations and appropriately identify and use appropriate tools.
- Understand planning, content and practices associated with delivering appropriate educational opportunities.
- Understand how to manage student behavior and social interaction skills.

RECOMMENDED COURSE SCHEDULE

Term 1			***Units***
EDUC	300	Intro to Special Ed	3-5
EDUC	370	Support: Child & Family	3
			6-8

Term 2			***Units***
EDUC	385	SPED Assessment	3
			3

Term 3			***Units***
EDUC	480	SPED Seminar	1-2
EDUC	410	Exceptional Learners	5
EDUC	380	Dev of Differently Abled	5
			11-12

COURSE DESCRIPTIONS

Accounting

ACCT& 201

Principles of Accounting I (5) (AE)

Fundamental principles of double-entry accounting following Generally Accepted Accounting Principles (GAAP), including theories and procedures used to report business transactions and financial statements for sole proprietorships through the accounting cycle. Topics include the accounting equation; debits and credits; journal entries; internal controls; bank reconciliations; accounting for receivables, inventories, and fixed assets; and financial statement preparation. Prerequisite: MATH 096 or equivalent or instructor permission.

ACCT& 202

Principles of Accounting II (5) (AE)

Accounting for partnerships and corporations. Topics include accounting for payroll, current and long-term liabilities, partnerships, corporations, and investments; preparation of the statement of cash flows; and financial statement analysis. Prerequisites: ACCT& 201 or ACCT 110 and 120 or instructor permission.

ACCT& 203

Principles of Accounting III (5) (AE)

Managerial accounting for manufacturing businesses. Topics include job order and process costing; cost behavior and cost-volume-profit relationships; variable and contribution margin income statements; standard costs; flexible budgets; relevant costs; and capital budgeting decisions. Prerequisite: ACCT& 201 or ACCT 110 and 120.

ACCT 210

Introduction to Audit (5)

An introduction to the audit environment of financial accounting and reporting following Generally Accepted Auditing Standards (GAAS). Topics include: auditing standards, planning, risk assessment, audit evidence, documentation, sampling, the auditor's report, and ethics. Prerequisite: ACCT& 201 or ACCT 110 and 120.

ACCT 220

QuickBooks (4)

This course introduces students to QuickBooks to record accounting transactions for small business operations. The focus is on vendors, customers, inventory, payroll, and banking. Topics include establishing files; purchases, bills and checks; sales, invoices, payments, discounts, and deposits; end-of-period accounting procedures; inventory; payroll; transferring funds; and reconciling. Students must have basic accounting knowledge. Prerequisites: ACCT& 201 or ACCT 110 & ACCT 120.

ACCT 240

Business Entity Tax (5)

Calculation of tax liability and preparation of tax forms for business entities, rental property, and other property dispositions. Also includes tax research. Prerequisite: ACCT& 201 or ACCT 110 and 120 and ACCT 260.

ACCT 260

Individual Income Taxes (5)

Individual income taxation focused on preparing individual federal income tax returns in the United States using current tax law. Topics include: purpose and sources of tax law; and preparing tax returns and schedules based on filing status, dependent identification and classification, the standard deduction, gross income inclusions and exclusions, tax deductions and credits, business expenses, and itemized deductions. Prerequisite: ACCT& 201 or ACCT 110 & 120.

ACCT 270

Payroll Accounting (3)

Introductory course covering payroll calculation, accounting, and reporting, including knowledge of the Fair Labor Standards Act, the Social Security Act, federal income tax withholding laws, and other laws affecting payroll operations and employment practices. Topics include: computing and paying wages and salaries; Social Security and Medicare tax withholding; federal income tax withholding; unemployment compensation taxes; and analyzing and journaling payroll transactions. Prerequisite: ACCT& 201 or ACCT 110 & 120

ACCT 285

Bookkeeper Cert. Course (5)

The capstone course in the Associate in Applied Science (AAS) Accounting/Tax program, covering principles of accounting, payroll, and taxation. Students earn up to 6 Certificates of Completion from the American Institute of Professional Bookkeepers (AIPB) and can optionally take additional exams necessary for the AIPB Certified Bookkeeper (CB) designation. Prerequisite: ACCT& 202, ACCT 260, ACCT 270.

ACCT 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 publicly traded and privately held. Prerequisite: ACCT& 202 or permission

ACCT 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 publicly traded and privately held. Prerequisite: ACCT 301 or permission.

ACCT 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.

ACCT 401

Governmental Accounting (5)

An accounting course as it applies to government and not-for-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: ACCT& 202 or permission.

ACCT 403

Federal Tax Compliance and Planning (5)

The application of concepts and techniques in: various advanced income tax scenarios; retirement planning; tax research; tax audit, appeals, and compliance process; and data analysis. Prerequisite: ACCT& 202 or permission.

ACCT 404

Data Analytics for Accounting (5)

Using previously learned accounting principles, apply principles of data analytics in an accounting context. Students develop skills to ask relevant questions; understand and prepare different types of data to use in analysis; perform descriptive, diagnostic, predictive, and prescriptive analytics; and communicate the findings. Prerequisites: ACCT& 201, BTEC 214 or instructor permission.

Adult Basic Education

ABE 001

Orientation (1-5)

Instruction in basic skills for the adult who is unable to read, write, and compute sufficiently to meet the requirements of adult life. Emphasis is placed on practical application of basic skills to consumer economics issues in daily living. Special course sections are available for students who are developmentally disabled or have severe learning disabilities. Prerequisite: Placement testing and/or interview.

ABE 018

ABE Integrated Level 1 (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 200 and below.

ABE 020

Adult Basic Education Level I Reading (1-15)

Course is designed to improve analysis, synthesis, evaluation, and application of text in reading. Prerequisite: CASAS Reading Score 165-203.

ABE 021

Adult Basic Education Level 2 Reading (1-15)

Course is designed to improve analysis, synthesis, evaluation, and application of text in reading. Prerequisite: CASAS Reading score 204 - 216.

ABE 022

Adult Basic Education Level 2 Writing (1-15)

Course is designed to improve analysis, synthesis, evaluation, and application of text through writing. Prerequisite: CASAS Reading score 204 - 216.

ABE 023

Adult Basic Education Level 2 Math (1-15)

Course is designed to improve analysis, synthesis, evaluation, and application skills through math. Prerequisite: CASAS Reading score 194 - 203.

ABE 028

ABE Integrated Level 2 (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 030

Adult Basic Education Level 1 Writing (1-15)

Course is designed to improve analysis, synthesis, evaluation, and application of text through writing. Prerequisite: CASAS Reading Score 165-203.

ABE 031

Adult Basic Education Level 3 Reading (1-15)

Course is designed to improve analysis, synthesis, evaluation, and application of text in reading. Prerequisite: CASAS Reading score 217 - 227.

ABE 032

Adult Basic Education Level 3 Writing (1-15)

Course is designed to improve analysis, synthesis, evaluation, and application of text through writing. Prerequisite: CASAS Reading score 217 - 227.

ABE 033

Adult Basic Education Level 3 Math (1-15)

Course is designed to improve analysis, synthesis, evaluation, and application skills through math. Prerequisite: CASAS Reading score 204 - 214.

ABE 036

ABE II Level 2 Writing (1)

This course is designed to meet the needs of adults whose English skills are between the fourth and seventh grade level. Assessment will determine each student's starting level. This course is not designed to be completed within one quarter's time span. Students will work only in those areas where they need assistance. Washington State Core Competencies including practical living applications will be emphasized. Prerequisite: successful completion of ABE 022 or placement score between 4.0 and 6.9 on TABE.

ABE 038

ABE Integrated Level 3 (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 039

Capstone (1-5)

Students will be ready to enter college or the workforce after exploring areas of professional development, resources, and college programs. Students will assess their personal strengths and apply them to college or an occupational environment.

ABE 040

ABE Level 1 Math (1-15)

Course is designed to improve analysis, synthesis, evaluation, and application skills through math. Prerequisite: CASAS Math Score 178-193.

ABE 041

Adult Basic Education Level 4 Reading (1-15)

Course is designed to improve analysis, synthesis, evaluation, and application of text in reading. Prerequisite: CASAS Reading score 228 - 238.

ABE 042

Adult Basic Education Level 4 Writing (1-15)

Course is designed to improve analysis, synthesis, evaluation, and application of text through writing. Prerequisite: CASAS Reading score 228 - 238.

ABE 043

Adult Basic Education Level 4 Math (1-15)

Course is designed to improve analysis, synthesis, evaluation, and application skills through math. Prerequisite: CASAS Reading score 215 - 225.

ABE 046

Written and Oral Communication (1-5)

Class participants enhance written and oral communication skills through the introduction of computer skill development and introductory communication skills for the workplace. Prerequisite: CASAS testing with a minimum score of 210.

ABE 048

ABE Integrated Level 4 (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

Adult Basic Education Level 5 Reading (1-15)

Course is designed to improve analysis, synthesis, evaluation, and application of text in reading. Prerequisite: CASAS Reading score 239 - 248.

ABE 052

Adult Basic Education Level 5 Writing (1-15)

Course is designed to improve analysis, synthesis, evaluation, and application of text through writing. Prerequisite: CASAS Reading score 239 - 248.

ABE 053

Adult Basic Education Level 5 Math (1-15)

Course is designed to improve analysis, synthesis, evaluation, and application skills through math.

Prerequisite: CASAS Reading score 226 - 235.

ABE 055

GED Fast-Track Lab 1 (1-15)

The GED Fast-Track program is designed to maximize the opportunity for students to pass some or all GED tests. Prerequisite: Reading CASAS score 239+ and/or Math CASAS score 226+.

ABE 056

GED Fast-Track Lab 2 (1-15)

The GED Fast-Track program is designed to maximize the opportunity for students to pass some or all GED tests. Prerequisite: Reading CASAS score 239+ and/or Math CASAS score 226+.

ABE 057

GED Fast-Track Lab 3 (1-15)

The GED Fast-Track program is designed to maximize the opportunity for students to pass some or all GED tests. Prerequisite: Reading CASAS score 239+ and/or Math CASAS score 226+.

ABE 058

ABE Integrated Level 5 (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.

ABE 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 students to traditional college courses and services. Prerequisite: CASAS testing.

ABE 061

Adult Basic Education Level 6 Reading (1-15)

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 062

Adult Basic Education Level 6 Writing (1-15)

Course is designed to improve analysis, synthesis, evaluation, and application of text through writing. Prerequisite: CASAS Reading score 249 - 262.

ABE 063

Adult Basic Education Level 6 Math (1-15)

Course is designed to improve analysis, synthesis, evaluation, and application skills through math. Prerequisite: CASAS Reading score 236 and above.

ABE 065

GED On-Track Lab 1 (1-15)

The GED On-Track program is designed to maximize the opportunity for students to pass some or all GED tests. Prerequisite: Reading CASAS score 228-238 and/or Math CASAS score 215-225.

ABE 066

GED On-Track Lab 2 (1-15)

The GED On-Track program is designed to maximize the opportunity for students to pass some or all GED tests. Prerequisite: Reading CASAS score 228-238 and/or Math CASAS score 215-225.

ABE 067

GED On-Track Lab 3 (1-12)

The GED On-Track program is designed to maximize the opportunity for students to pass some or all GED tests. Prerequisite: Reading CASAS score 228-238 and/or Math CASAS score 215-225.

ABE 068

ABE Integrated Level 6 (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 071

Aural/Written Lang 3 (1-10)

In this Level 3 Aural/Written Language course, students will develop speaking, grammar, and composition skills needed to succeed in subsequent liberal arts and technical/occupational courses. Prerequisite: Official Language Test or CASAS score of 236-245.

ABE 074

Language Comprehension 3 (1-10)

In this Level 3 Language Comprehension course, students will develop listening and reading comprehension skills

needed to succeed in subsequent liberal arts and technical/occupational courses. Prerequisite: Official Language Test or valid CASAS score of 236-245.

ABE 076

Language Comprehension 4 (1-10)

In this Level 4 Language Comprehension course, students will develop listening and reading comprehension skills needed to succeed in subsequent liberal arts and technical/occupational courses. Prerequisite: Official Language Test or valid CASAS score of 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.

ABE 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 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 Lit 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

Am Sign Language I (5) (H)

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) (H)

A continuation of ASL 121, with emphasis on developing fluency in American Sign Language.

ASL& 123

American Sign Language III (5) (H)

A continuation of ASL 122, with emphasis on comprehension and production of increasingly complex linguistic structures, and conceptual accuracy of multiple meanings and English/ASL idioms.

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 instructor permission.

Anthropology

ANTH& 100

Survey of Anthropology (5) (D) (SS)

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& 204

Archaeology (5) (SS)

An introductory course into the study of humankind and societies past as revealed through material culture remains. Archaeological theory, analysis, dating, excavation and lab techniques, as well as ethical guidelines are explored in detail.

ANTH& 205

Biological Anthropology (5) (NS)

Exploration of human biology, evolution, paleontology, taxonomy, primatology, genetics and human variation. A student cannot receive credit for both ANTH& 205 and ANTH& 215.

ANTH& 206

Cultural Anthropology (5) (D) (SS)

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 (5) (D) (SS)

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& 215

Bioanthropology w/Lab (5) (NS)

Exploration of human biology, evolution, paleontology, taxonomy, primatology, genetics and human variation. A student cannot receive credit for both ANTH& 205 and ANTH& 215.

ANTH 225

Race & Ethnicity (5) (D) (SS)

Introduces the study of race and ethnicity from sociological and anthropological perspectives. Examines how race and ethnicity operate in relation to identities, interactions, institutions, cultures, and systems, with a focus on inequality and power. Focuses on race and ethnicity in the contemporary U.S., with historical and cross-cultural comparisons.

ANTH 235

Myth, Ritual, and Magic (5) (D) (SS)

An ethnographical overview of the supernatural beliefs of peoples and cultures. Attention is paid to various Anthropological and Sociological theories concerning the nature, cause(s), and source(s) of supernatural belief in world societies and cultures.

ANTH& 236

Introduction to Forensic Anthropology (5) (NS)

Students will explore forensic anthropology method and theory, forensic taphonomy theory and practice, research methods, and the processing, analysis, and identification of human remains.

ANTH 260 - 263

Latin America Field Trip I – IV (5) (D)

Explore the culture(s) and language(s) of a specific region of Latin American through first-hand experience. Contact instructors or follow Field Trip links on Anthropology or Foreign Language pages of college website for current information. Prerequisite: instructor permission.

ANTH 275

Ethnographic Survey of Taiwan (5) (D) (SS)

The final of three courses that comprise Centralia College's study abroad program. Students will travel across Taiwan for ethnographic survey - engaging firsthand in learning experiences and activities related to Taiwanese culture, history, technology, economics, geopolitics, public-health, conservation, and renewable energy, while applying basic Chinese language skills in everyday, real-life situations.

Art

ART& 100

Art Appreciation (5) (D) (H)

Examine the nature of visual art, its role in society, and methods of creative expression. Provides an overview of art history, surveys contemporary artists, and introduces studio methods in a variety of media.

ART 102

Drawing I (5) (H)

An introduction to the fundamentals of drawing. Emphasis is placed on exploration of materials, observational study and technique development. Lectures on historical and contemporary artists provide cultural context for student work. No prior drawing experience necessary.

ART 103

Drawing II (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 III (5)

Advanced 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, 103 or instructor permission.

ART 106

Printmaking I (5) (H)

An introduction into the studio methods of printmaking as well as its historical significance and contemporary applications. Create multiples of using various matrixes including screen prints, etchings and relief prints.

ART 110

2D Design (5) (H)

Learn and utilize the principles of two-dimensional design and its application on a two-dimensional plane through lecture and studio practice.

ART 111

3D Design (5) (H)

An introduction to fundamental processes and materials for making three-dimensional art. Emphasis is placed on exploration of media, observational study and technique development. Lectures on historical and contemporary artists provide cultural context for student work.

ART 112

Color Theory (5) (H)

Understand the use of color in art through hands-on learning. Explore materials and techniques with in-class projects. Recognize color interaction and its effect on the viewer. Learn the art-historical evolution of our understanding of color.

ART 130

Computer Graphics (5) (H)

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 Layout (5) (H)

Problem solving in basic type and graphic design. A sequence of studio projects demonstrates students' ability to create, design and prepare art for reproduction. Prerequisite: ART 130 or instructor permission.

ART 136

Graphic Design II (5)

Continued problem solving in basic graphic design. A sequence of studio projects demonstrates student's ability to create, design and prepare art for reproduction. Lectures explore graphic design as an art form and as a business. Prerequisite: ART 135 or instructor permission.

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 permission of instructor.

ART 160

Introduction to Fibers (5) (H)

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 174

Digital Photography (5) (H)

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)

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. Attainment of learning objectives and

development of positive work habits are emphasized. Prerequisite: instructor permission.

ART 200

Art History: Ancient (5) (D) (H)

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 C (5) (D) (H)

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 C (5) (D) (H)

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 203

History of American Art (5) (H)

A survey of American painting, sculpture, and architecture from colonial times to the present.

ART 210

Painting (4) (AE)

A painting course which uses the nude human form as a point of departure for creating art. Students will experiment with a variety of materials and techniques.

ART 211

Painting (4) (AE)

A continuation of ART 210 with increased emphasis on development of individual styles.

ART 220

3D Modeling & Animation (5) (H)

An introduction to 3D modeling, sculpting, motion-graphics, material, rendering and animation. Provides students with knowledge and insights about animation and 3D processes. Prerequisite: ART 130 with 2.0 or higher or instructor permission.

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: Permission of instructor.

Astronomy

ASTR 125

The Solar System (3) (NS)

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 (3) (NS)

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 (5) (NS)

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 HS algebra or MATH 098.

ASTR 128

Observational Astronomy (2) (NS)

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.

Bachelor of Applied Science – Behavioral Health

BASBH 300

Intro to Behavioral Healthcare (5)

Introduction to the field of behavioral healthcare and human services. Topics include: the historical underpinnings of the field, the work of the human service provider and the milieu in which client services are provided, exploration of ethics, values, and self-understanding as these apply to the human service worker. Prerequisite: admittance in BASBH program or administrative and instructor permission.

BASBH 320

Social & Cultural Diversity BH (5)

This course examines how cultural, biological, and social

diversity affect thought and behavior. It presents current theories and practices for working with diverse populations in the behavioral health field and fosters the understanding and application of cultural diversity, cultural competency, self-awareness, social justice, and advocacy. Pre-requisite: admission in BASBH program or administrative and instructor permission

BASBH 330

Ethics in Behavioral Healthcare (5)

A broad understanding of ethics, legal standards, and professional responsibilities in behavioral health with an emphasis on counseling ethics. Explore behavioral health professionals' responsibilities to themselves, clients, colleagues, and society. Gain understanding of ethical standards, ethical decision-making, professional boundaries, confidentiality and federal and state laws. Prerequisite: admittance in BASBH program or administrative and instructor permission.

BASBH 400

Case Management (5)

Develop observation, problem-solving, recording and relationship building skills through the exploration of the case management process which includes client engagement and assessment, interview techniques, and collection of client information. Explore professional responsibility and cultural diversity in the context of case management practice. Prerequisite: admittance in BASBH program or administrative and instructor permission.

BASBH 420

Treatment of Mental Health Disorders (5)

This course offers students experiences in assessing the various aspects of common mental health disorders encountered in the behavioral health field. Students will develop the knowledge and skills necessary to conduct systematic and culturally-sensitive biopsychosocial assessments, diagnosis, and treatment recommendations. Prerequisite: admittance in BASBH program or administrative and instructor permission.

BASBH 430

Trauma-Informed Care (5)

Overview of the various types of trauma and the impact they have on individuals, couples, families, and communities. Students who complete the course will gain the knowledge, skills, and dispositions required by behavioral health professionals to utilize trauma-informed intervention and treatment principles and successfully assist in a time of crisis. Prerequisite: admittance in BASBH program or administrative and instructor permission.

BASBH 450

Advanced Counseling Techniques (5)

Survey of the major contemporary theories of counseling and their implications for practice. Topics include: historical background, key concepts, the counseling process, counseling techniques and procedures, multicultural perspectives, and evaluation of clients. Case studies are used to determine appropriate counseling interventions, practice a variety of techniques commonly used in counseling practice. Prerequisite: admittance in BASBH program or administrative and instructor permission.

BASBH 455

Behavioral Healthcare in Primary Care (5)

Builds on previous coursework of behavioral health assessment treatment planning, documentation and evaluation. Course emphasizes practical skills designed to enhance effective communication across disciplines to prepare students for a collaborative health care treatment approach. Practice skills learned in class to promote engagement, motivation, and empowered decision making among clients. Prerequisite: admission in BASBH program or administrative and instructor permission.

Bachelor of Applied Science – Applied Management

MGMT 301

Fundamentals of Management (5)

Explores organizational theory and introduces the principles and concepts of effective management including the functions of planning, organizing, leading, and controlling. How a manager's personality and leadership style impact the workplace will be explored.

MGMT 320

Leadership & Organizational. 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.

MGMT 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.

MGMT 340

Applied Financial Management (5)

Managerial finance. Case studies are used to explore topics including: financial statement analysis, long-term financial planning, capital budget decision making, financial leverage, capital structure policy, and dividend payout policy. Prerequisite: admittance into BAS program or administrator approval; ACCT 310 or accounting elective with a 2.0 or higher.

MGMT 360

Bus Prin, Plnng & 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.

MGMT 370

Practicum in Management (5)

This course will explore and build student comprehension of the application of management functions covered in BAS-AM courses via direct interaction between students and local managers and entrepreneurs from private, public and non-profit sectors.

MGMT 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.

MGMT 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.

MGMT 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.

MGMT 430

Supply Chain Management (5)

Supply Chain Management (SCM) explores the fundamental elements required for business efficiencies in operations. SCM utilizes analytical management techniques for ascertaining demand for the organization's goods and services, justifying and acquiring the necessary resources, planning and controlling the transformation of resources into goods and services, and inventory management. SCM surveys supply chain strategy and design, scheduling and production design, supply chain management operations, and provides and introduction to distribution and quality management. Course reviews the SCM application in both large and small organizations, private and public enterprise, service and manufacturing organizations.

MGMT 435

Operations Management (5)

Introduction to the key ideas and techniques used to plan, analyze, measure and improve an organization's production of goods and services. Topics explored include process-system modeling, product design/quality, inputs, processes, supply-chains, inventory, and people management. Prerequisite: enrollment in BAS-AM or instructor permission.

MGMT 440

Quality Management Principles (5)

Understand terminology, methods and tools which are essential for the quality practitioner, planner, and decision-maker. Acquire familiarity and a working knowledge of the principles and practice of quality management, quality control and process improvement. Analyze operational information and various quantitative and qualitative approaches that reduce production, inventory and transportation costs, and improve service levels and profitability. Develop skills of analyzing and improving quality by utilizing techniques and methods of total quality management, continuous improvement, six-sigma quality, and statistical process control.

MGMT 445

Warehouse Management (5)

Upon successful completion of this course, students should be able to demonstrate knowledge and think critically in the formulation of logistics, distribution and warehouse management strategies necessary to support the firm's strategic decisions. Analysis of the logistics concepts to include a brief history of logistics, the management of transportation, inventory, packaging, warehousing, materials handling, order processing, facility location, facility layout, and customer service. Different modes of transportation are examined along with legal requirements and documentation. Writing assignments, as appropriate to the discipline, are part of the course.

MGMT 460

Internship Seminar (2)

Discuss topics relevant to the workplace, such as, professional image, business etiquette, resolving conflict, problem-solving, diversity, preparing for and securing employment. Course requisite: admittance into BAS program or administrator approval.

MGMT 470

Management Internship (3)

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-AM foundation courses and 30 additional BAS-AM core units with a 2.0 minimum GPA.

MGMT 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. Prerequisite: BAS 460 or instructor permission.

Basic Education for Adults

BEDA 032

L3-WA Hist/Fine Arts/Sci (1-15)

Integration of language arts and thinking skills through exploration of Washington State: civics, economics, art, literature, music, history, industry, geography, settlement, and migration. Will also examine unique technological and innovational advancements within the state. Prerequisite: CASAS score: 211-220.

BEDA 034

L3-WA Hist/Fine Arts/Sci (1-15)

Integration of language arts and thinking skills through exploration of Washington State: civics, economics, art, literature, music, history, industry, geography, settlement, and migration. Will also examine unique technological and innovational advancements within the state. Prerequisite: CASAS score: 211-220.

BEDA 035

L3-CWP/Fine Arts/Science (1-15)

Integration of language arts and thinking skills through exploration of contemporary world problems; politics, economics, art, literature, music, history, industry, geography, colonization, re-settlement, and migration. Will also examine technological, environmental, and innovational issues. Prerequisite: CASAS score: 211-220.

BEDA 041

HSE/SPAN/LA 1 (L4) (1-5)

First of two courses for bilingual English/Spanish language instruction in Language Arts for students who wish to obtain a high school equivalency certificate. Prerequisite: valid CASAS pre- or post-test scores below 236.

BEDA 042

L4-WA Hist/Fine Arts/Sci (1-15)

Integration of language arts and thinking skills through exploration of Washington State: civics, economics, art, literature, music, history, industry, geography, settlement, and migration. Will also examine unique technological and innovational advancements within the state. Prerequisite: CASAS score: 221-235.

BEDA 043

HSE/SPAN/MATH 1 L-1 (1-5)

First of two courses for bilingual English/Spanish language instruction in Mathematic Reasoning for students who wish to obtain a high school equivalency certificate. Prerequisite: Valid CASAS pre-or-post test scores below 225.

BEDA 044

L4-US Hist/Fine Arts/Sci (1-15)

Integration of language arts and thinking skills through exploration of Washington State: civics, economics, art, literature, music, history, industry, geography, settlement, and migration. Will also examine unique technological and innovational advancements within the state. Prerequisite: CASAS score: 221-235.

BEDA 045

L4-CWP/Fine Arts/Science (1-15)

Integration of language arts and thinking skills through exploration of contemporary world problems; politics, economics, art, literature, music, history, industry, geography, colonization, re-settlement, and migration. Will also examine technological, environmental, and innovational issues. Prerequisite: CASAS score: 221-235.

BEDA 046

HSE/SPAN/LA 2 (1-5)

Second of two Language Arts courses. Bilingual English/Spanish language instruction in Language Arts for students who wish to obtain a high school equivalency certificate. Prerequisite: Valid CASAS pre-or post-test scores of <235.

BEDA 047

HSE/SPAN/MATH 2 L-1 (1-5)

Second of two courses for bilingual English/Spanish language instruction in Mathematic Reasoning for students who wish to obtain a high school equivalency certificate. Prerequisite: Valid CASAS pre-or-post test scores below 225.

BEDA 048

HSE/SPAN/SCI (1-5)

Bilingual English/Spanish language instruction in science for students who wish to obtain a high school equivalency certificate. Prerequisite: Valid CASAS GOALs pre- or post-test scores < 238 in Reading and < 235 in Math.

BEDA 051

HSE/SPAN/LA1 (L5) (1-5)

First of two courses. Bilingual English/Spanish language instruction in Language Arts for students who wish to obtain a high school equivalency certificate. Prerequisite: valid CASAS pre- or post-test with scores between 236 and 245.

BEDA 052

L5-WA Hist/Fine Arts/Sci (1-15)

Integration of language arts and thinking skills through exploration of Washington State: civics, economics, art, literature, music, history, industry, geography, settlement, and migration. Will also examine unique technological and innovational advancements within the state. Prerequisite: CASAS score: 236-245.

BEDA 053

HSE/SPAN/MATH 1 L-2 (1-5)

First of two courses for bilingual English/Spanish language instruction in Mathematic Reasoning for students who wish to obtain a high school equivalency certificate. Prerequisite: Valid CASAS pre-or-post test scores between 226-235.

BEDA 054

L5-US Hist/Fine Arts/Sci (1-15)

Integration of language arts and thinking skills through exploration of United States history: civics, economics, art, literature, music, history, industry, geography, settlement, and migration. Will also examine unique technological and innovational advancements within America. Prerequisite: CASAS score: 236-245.

BEDA 055

L5-CWP/Fine Arts/Science (1-15)

Integration of language arts and thinking skills through exploration of contemporary world problems; politics, economics, art, literature, music, history, industry, geography, colonization, re-settlement, and migration. Will also examine technological, environmental, and innovational issues. Prerequisite: CASAS score: 236-245.

BEDA 056

HSE/SPAN/LA 2 (1-5)

Second of two Language Arts courses. Bilingual English/Spanish language instruction in Language Arts for students who wish to obtain a high school equivalency certificate. Prerequisite: Valid CASAS pre-or post-test scores between 236 and 245.

BEDA 057

HSE/SPAN/MATH 2 L-2 (1-5)

Second of two courses for bilingual English/Spanish language instruction in Mathematic Reasoning for students who wish to obtain a high school equivalency certificate. Prerequisite: Valid CASAS pre-or-post test scores between 226-235.

BEDA 061

HSE/SPAN/LA1 (L6) (1-5)

First of two courses. Bilingual English/Spanish language instruction in Language Arts for students who wish to obtain a high school equivalency certificate. Prerequisite: valid CASAS pre- or post-test scores between 246 and 255.

BEDA 062

L6-WA Hist/Fine Arts/Sci (1-15)

Integration of language arts and thinking skills through exploration of Washington State: civics, economics, art, literature, music, history, industry, geography, settlement, and migration. Will also examine unique technological and innovational advancements within the state. Prerequisite: CASAS score: 246-255.

BEDA 063

HSE/SPAN/Math 1 L-3 (1-5)

First of two courses for bilingual English/Spanish language instruction in Mathematic Reasoning for students who wish to obtain a high school equivalency certificate. Prerequisite: Valid CASAS pre-or-post test scores above 236.

BEDA 064

L6-US Hist/Fine Arts/Science (1-15)

Integration of language arts and thinking skills through exploration of United States history: civics, economics, art, literature, music, history, industry, geography, settlement, and migration. Will also examine unique technological and innovational advancements within America.

Prerequisite: CASAS score: 246-255.

BEDA 065

L6-CWP/Fine Arts/Science (1-15)

Integration of language arts and thinking skills through exploration of contemporary world problems; politics, economics, art, literature, music, history, industry, geography, colonization, re-settlement, and migration. Will also examine technological, environmental, and innovational issues. Prerequisite: CASAS score: 246-255.

BEDA 066

HSE/SPAN/Language 2 (1-5)

Second of two Language Arts courses. Bilingual English/Spanish language instruction in Language Arts for students who wish to obtain a high school equivalency certificate. Prerequisite: Valid CASAS pre-or post-test scores between 246 and 255.

BEDA 067

HSE/SPAN/MATH 2 L-3 (1-5)

Second of two courses for bilingual English/Spanish language instruction in Mathematic Reasoning for students who wish to obtain a high school equivalency certificate. Prerequisite: Valid CASAS pre-or-post test scores above 236.

BEDA 099

I-Best Support (1-20)

BEdA support course for students who are currently working or preparing to work in a specific job area and who are enrolled in an I-BEST program. Prerequisite: valid CASAS score of 211-256.

Biology

BIOL& 160

General Biology w/Lab (5) (NS)

Surveys the structures and functions of cells and organisms. Explores basic genetic and evolutionary processes. Outlines the characteristics of life, its history, and biodiversity.

BIOL& 170

Human Biology (5) (NS)

Overview of the major anatomy of humans including genetics, cells, tissues, and organ systems with their interactions and development from embryo to old age, including representative diseased conditions. Includes contextualization of humans in larger evolutionary, ecological, and social structures as related to their biology.

BIOL 172

Human Biology Lab (1) (NS)

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) (AE)

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)

Allows students to apply classroom learning to on-the-job settings. Credit for new and continued learning in the work environment. 60-360 hours on-on-job per quarter. Prerequisite: Work Experience Seminar (BTEC 191-194) is required of Co-op students. Instructor's permission required.

BIOL& 221

Majors Ecology/Evolution (5) (NS)

Ecology, evolution, taxonomy and phylogeny, diversity of life forms. First course in a three-quarter series (BIOL& 221, 222, 223). Prerequisite: HS biology or BIOL& 160 and MATH 098 or equivalent.

BIOL& 222

Majors Cell/Molecular (5) (NS)

Metabolism and energetics, structure and function of biomolecules and cells, Mendelian and molecular genetics, gene regulation and biotechnology. Second course in a three-quarter series (BIOL& 221, 222 and 223). Prerequisites: HS biology and chemistry or BIOL& 160; CHEM& 121 or CHEM 161 recommended.

BIOL& 223

Majors Organismal Physiology (5) (NS)

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 instructor permission.

BIOL& 241

Human A & P 1 (5) (NS)

Investigate interactions between structures and functions essential for human health. Levels include macromolecules, membranes and the cell, tissues,

integument, skeleton and articulations, skeletal muscles, nerves, and central nervous systems. First quarter of a two-quarter sequence. Prerequisite: HS biology and chemistry or BIOL& 160 or BIOL& 170 and CHEM& 121.

BIOL& 242

Human A & P 2 (5) (NS)

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 (5) (NS)

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 (5) (NS)

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. Field trips to local marine habitats.

BIOL& 260

Microbiology (5) (NS)

Introductory microbiology focused on human health covering eukaryotes, prokaryotes, and viruses. Includes laboratory applications of lecture concepts. Prerequisite: both a college-level chemistry and biology course, or instructor permission.

BIOL 270

Research in Biology (1-12) (AE)

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.

BIOL 360

Life Science Concepts (5) (NS)

Fundamentals of structure and function from subcellular to organismal levels. Sources of variation in traits and inheritance. Ecological and ecosystem dynamics. Evolution, natural selection, and adaptation. BAS-TE students will develop grade-appropriate lesson plans/activities. Prerequisite: five units of lower division Natural Science,

Botany

BOTA 110

Survey of Botany (5) (NS)

Introduction to plants for non-majors, with emphasis on growth, function, and reproduction. Human uses and modifications of plants for food and medicine will be explored. Students will conduct plant growth experiments in the greenhouse.

BOTA 113

Plant Identification & Classification (5) (NS)

Identification and classification of vascular plants of western Washington with emphasis on important plant families, conservation, and native plant uses. Field trips during labs to observe native plants in local habitats.

BOTA 150

Dendrology (5) (NS)

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.

Building Maintenance Technology

BMT 120

Interior/Exterior Repair (3) (CCC)

Basic interior and exterior repair and maintenance techniques used in the building maintenance trades. Students will learn roofing and door installation, painting techniques, sheetrock techniques, and other finishing techniques used in the building industry.

BMT 130

Plumbing (4) (CCC)

This course is designed to teach students basic plumbing techniques used in the building maintenance trades. These techniques include: drain clearing, underground sprinkler systems, and temporary repair methods.

BMT 140

Electrical (4) (CCC)

This class teaches students basic electrical principles and techniques used in the building maintenance trades. Students will learn circuit application, service installation, and be able to identify electrical issues.

BMT 150

HVAC (2) (CCC)

Students will learn basic heating, ventilation, and air conditioning techniques used in the building maintenance trades, and will be able to identify and explain the different systems and how each system works.

Building Technology

TECH 160

Drywall Install (3) (CCC)

This course is designed to teach students basic safety procedures, techniques, framing skills, and drywall installation that may be used in the construction industry. This class also prepares students for TECH 161, Drywall Finishing.

TECH 161

Drywall Finishing (4) (CCC)

This course is designed to teach students light commercial and residential drywall finishing techniques such as taping, mudding, and sanding that can be used in the construction industry.

TECH 165

Roofing Installation (7) (CCC)

This course will teach students safety techniques and basic commercial and residential roofing installation techniques, including preparation and installation that may be used in the construction trade.

TECH 166

Siding Installation (7) (CCC)

Teaches commercial and residential siding installation techniques, such as: removing existing materials, selecting tools for the job, and math skills needed to measure and cut materials that may be used in the construction industry.

Business Administration

BUS& 101

Intro to Business (5) (AE)

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 110

Introversion in the Workplace (5)

Exploration of the nature of introverts in the workplace and how they can effectively manage themselves and others.

BUS 120

Leadership Development (5)

This course is designed to be an introduction to leadership and development of leadership skills. This class will cover a variety of leadership areas such as principles and theories, communication, diversity and inclusive practices, decision making, problem-solving, time-management, conflict resolution, and group/teamwork.

BUS 190

Cooperative Work Experience (1-12)

Students apply classroom learning to on-the-job settings. Credit earned for new and continued learning taking place in the work environment. Co-requisite; BTEC 191

BUS& 201

Business Law (5) (AE)

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 203

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. Prerequisite: BUS& 101, college level reading and writing.

BUS 210

Retail Management (5)

Gain broad perspective for all facets of retail operations including: multi-channels, merchandising, pricing, layout, store organization, site location, customer behavior, and customer service.

BUS 215

Principles of Finance (5)

A broad survey of the field of Finance. Topics include: interest rate theory, financial statement analysis, time value of money, and building stock and bond portfolios. Managerial finance is also studied. Prerequisite: ACCT& 201 or ACCT 200 or permission.

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 225

Money and Banking (5)

An introduction to the core principles of money and banking. Topics to be discussed include interest rates, financial instruments, financial markets, financial institutions, central banks, monetary policy, financial stability, and modern monetary economics. Prerequisite: ACCT& 201, 202.

BUS 230

Data Dashboards (5)

Turn data into dashboards and reports focused on identifying business goals, trends and patterns that guide business decisions. Create interactive dashboards using Excel tools such as pivot tables, pivot charts, slicers and advanced formulas. Prerequisite: BTEC 214

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 and ACCT 200, or instructor permission

BUS 235

Salesmanship (5)

Students will determine what motivates customers to make a buying decision and to ask appropriate questions to discover needs. Learn to organize sales process for effective time management, use technology and social media.

BUS 245

Inventory Management (5)

Basic principles of inventory management focusing on cost, quantity and control. Inventory management concepts and practices expose students to physical inventory levels, cycle counts, and economic order quantities. Use of algebraic formulas required. Pre-requisite: BUS& 101 or approval by instructor. Pre/Co-requisite: BTEC 120 or MATH 097 or higher.

BUS 250

Project Management (5)

Explore the concept of projects and the unique administrative approach needed to successfully complete a project on time and within budget. Identify the components of projects and the tools available to track project progression.

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 students without keyboarding skills. Develop speed to 25 WPM by touch. Develop speed, accuracy, and basic word processing techniques for letters, reports, and tables.

BTEC 102

Keyboard Skillbuilding I (3)

Individualized program for improving keyboarding techniques and increasing speed and accuracy. Upon course completion, students should be able to type at a minimum of 35 wpm with one error per minute. Prerequisite: BTEC 101 & typing speed of 25 wpm or instructor permission.

BTEC 107

Electronic Medical Records (4)

Provides an overview of medical records as legal documents. Topics include the make-up of an electronic medical record, charting methods, patient scheduling, privacy, and administrative management.

BTEC 110

Business English (5)

This course is intended to provide a basis for producing office documents. Topics include editing skills including grammar, punctuation, proofreading, and spelling. Business English is a basis for medical documentation, business communications, and office procedures. Prerequisite: ENGL 098 with 2.0 or higher; placement of ENGL 099 or higher.

BTEC 120

Applied Business Math (5)

Fundamental arithmetic skills applied to a wide range of business activities. Topics include; banking, discounts,

payroll, simple interest, markups and markdowns and promissory notes.

BTEC 130

Computer Applications (3)

This course is designed to develop a basic understanding of computer technology/literacy and the Internet in relation to business processes. Students develop beginning, entry-level competence in business applications including word processing, spreadsheet, presentation graphics, email systems, and cloud computing alternatives to demonstrate business-oriented skills.

BTEC 190

Cooperative Work Experience (1-12)

This course 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. Prerequisite: current or prior enrollment in BTEC 191 or instructor signature.

BTEC 191

Work Experience Seminar (1)

Discussion 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 203

Keyboard Skillbuilding II (3)

Individualized advanced skillbuilding program for students who have taken BTEC 102. Upon completion of this course, students should be able to type at a minimum of 50 wpm with one error per minute. Prerequisite BTEC 102

BTEC 205

Outlook (1)

This course covers assorted tasks in Microsoft Outlook. Students will use their college email address to create and send email messages, schedule meetings, maintain calendars, and manage tasks. Prerequisite: IT 117, typing speed of 35 WPM or instructor permission.

BTEC 210

Word 1 (5)

Course covers Microsoft Word in depth: document preparation, formatting, graphics, WordArt, SmartArt, tabs, columns, sorting, mail merge, styles, Quick Parts, headers/footers, references, styles, document templates. Students will format documents to business standards. Prerequisite: IT 117, typing speed of 35 wpm, instructor permission.

BTEC 212

Access (5)

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 30 wpm, BTEC 210, BTEC 214, OR Instructor permission.

BTEC 214

Excel 1 (5)

This course is a hands-on approach for beginning through intermediate level applications of Excel spreadsheet using a variety of business applications. Students will learn formulas, charts, formatting, and management of Excel files. Prerequisite: IT 117, typing speed of 35 wpm, instructor permission.

BTEC 218

Desktop Publishing (4)

This course covers terminology, concepts, and tasks related to desktop publishing. Students will plan, create, and design publications for business and personal use. Prerequisite: IT 117, BTEC 210, typing speed of 35 wpm or instructor permission.

BTEC 219

Word II (5)

This course covers advanced Microsoft Word features that allow users to develop more detailed, professional documents such as reports with navigable table of contents and indices, integrated data and charts, and fill-in forms. Students will learn to customize various tools to be more efficient in the workplace. Prerequisite: BTEC 210.

BTEC 220

Ten-Key Calculator (1)

Touch control of the 10-key calculator with emphasis on speed and accuracy. Complete business calculations using the function keys. Business Math recommend first. Prerequisite: Business Math suggested.

BTEC 221

Business Communications (5)

Applying principles of effective written and oral business communications. Upon completion, students should be able to produce effective digital media pieces, positive, negative, and persuasive messages, informal reports, and a resume and cover letter. Prerequisite: placement into ENGL& 101 or a 2.0 in ENGL 99 or WRT 105.

BTEC 222

Microsoft Office-PowerPoint Module (1)

Class covers PowerPoint in depth: presentations, formatting, graphics, charts, design, and appropriate visual elements for professional presentations. Prerequisite: IT 117, typing speed of 35 wpm or instructor permission.

BTEC 224

General Office Procedures (5)

Topics include professional image, employer expectations, human relations, receptionist techniques, telephone procedures, mail processing, business ethics, job safety, office equipment and supplies, travel and meeting arrangements, financial activities, and composing and preparing professional documents. Prerequisite: BTEC 110, BTEC 210, BTEC 233, BTEC 214.

BTEC 233

Records Management (5)

Principles and procedures of effective records management for physical and electronic systems. Practice in indexing, coding, and filing for alphabetic, numeric, subject, and geographic systems. Introduction to laws, regulations, security risks and e-discovery.

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. 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)

Culminating course for Medical Office students. Topics cover the expected skills for successful employment in a medical setting, such as professional image, medical ethics and law, appointment scheduling, office finances, and telephone procedures. Prerequisite: BTEC 107, BTEC 110, BTEC 233, BTEC 260.

BTEC 263

Medical Documentation (4)

Medical documentation prepared through the transcription of chart notes, procedure notes, letters, and other medical documents using transcription or speech recognition files. Prerequisite: BTEC 260, BTEC 210, BTEC 110.

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.

Chemistry

CHEM& 110

Chemical Concepts w/Lab (5) (NS)

Survey course of basic chemical principles and the real-world applications of chemistry. Meets NS distribution. Not intended for Allied Health or general chemistry prep. Will be offered with various themes. Math 096 prerequisite.

CHEM& 121

Introduction to Chemistry (5) (NS)

One quarter survey of general chemistry intended for Allied Health students. Topics include: atoms, bonds, reactions, solutions, and acids and bases. Prerequisite: MATH 097 or MATH 098.

CHEM& 131

Introduction to Organic/Biochemistry (5) (NS)

One quarter study of major organic functional groups and their properties, major biochemical compounds, and major cellular energy pathways and metabolism. Targeted for Allied Health programs. Prerequisite: CHEM& 121 with a 2.0 or better or instructor permission.

CHEM& 139

General Chemistry Prep (5) (NS)

Preparatory chemistry for science/engineering majors intending to take the CHEM& 161 sequence. Emphasizes quantitative reasoning, focusing on how mathematics is used in chemistry. Introduces nomenclature, dimensional analysis, stoichiometry, atomic structure, gas laws and solutions. Prerequisite: MATH 098 or instructor permission.

CHEM 159

Problem Solving in Chemistry (1)

This course is designed to provide instruction and practice in quantitative problem solving, critical thinking, and the

mathematics and study skills that are required to be successful in CHEM& 161. Corequisite: CHEM& 161.

CHEM& 161

General Chemistry w/Lab I (6) (NS)

First of a three-quarter sequence for science and engineering majors. Includes matter, measurements, equations, stoichiometry, solution chemistry, gases, thermochemistry, quantum theory, and electronic structure. Problem solving and critical thinking are stressed. Includes lab. Prerequisite: CHEM& 139 or CHEM& 121 (2.0) and MATH 099 or equivalent or instructor permission.

CHEM& 162

General Chemistry w/Lab II (6) (NS)

Second of a three-quarter sequence. Includes periodic trends, chemical bonding and structure, valence bond/molecular orbital theory, intermolecular forces, liquids and solids, solutions, and kinetics. Lab emphasizes data analysis and interpretation. Prerequisite: CHEM& 161 with a 2.0 or better or instructor permission.

CHEM& 163

General Chemistry w/Lab (6) (NS)

third of a three-quarter sequence. Includes equilibrium, acids and bases, acid/base and solubility equilibria, thermodynamics, electrochemistry, and an introduction to organic and nuclear chemistry. May include polymers, transition metal, and/or coordination chemistry. Prerequisite: CHEM& 162 with a 2.0 or better or instructor permission.

CHEM& 261

Organic Chemistry I (6) (NS)

First course in a three-quarter sequence for science and pre-professional majors. Topics covered include structure, nomenclature, reactions and properties of hydrocarbons, and alkyl halides. Includes mechanisms and stereochemistry. Lab focuses on laboratory techniques. Prerequisite: CHEM& 163 with 2.0 or greater or instructor permission.

CHEM& 262

Organic Chemistry w/Lab II (6) (NS)

Second course in the sequence. Topics covered include structure, nomenclature, reactions and properties of alkenes, alkynes, alcohols, eithers, and conjugated and aromatic systems. Spectroscopy topics include IR, NMR, and MS analysis, including structure elucidation. Prerequisite: CHEM& 261 with 2.0 or greater or instructor permission.

CHEM& 263

Organic Chemistry w/Lab III (6) (NS)

Final course in the sequence. Topics covered include structure, nomenclature, reactions and properties of aromatics, aldehydes, ketones, carboxylic acids and their derivatives, and amines. Enol/enolate chemistry and radical reactions will also be covered. Prerequisite: CHEM& 262 with 2.0 or greater or instructor permission.

CHEM 270

Research in Chemistry (AE) (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.

Chinese

CHIN& 121

Chinese I (5) (D) (H)

Learn the fundamental skills of listening comprehension, speaking, rea ding and writing the Mandarin Chinese language. Develop an understanding and appreciation of the Chinese people and culture.

CHIN& 122

Chinese II (5) (H)

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 instructor permission.

CHIN& 123

Chinese III (5) (H)

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 (5) (H)

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 instructor permission.

CHIN& 222

Chinese V (5) (H)

Continued study of the fundamental skills of listening

comprehension, speaking, reading and writing the Mandarin Chinese language. Develop a n understanding and appreciation of the Chinese people and culture. Prerequisite: CHIN& 221 or instructor permission.

CHIN& 223

Chinese VI (5) (H)

Continued study of the fundamental skills of listening comprehension, speaking, reading and writing the Mandarin Chinese language. Develop a n understanding and appreciation of the Chinese people and culture. Prerequisite: CHIN& 222 or instructor permission.

Civics

CIV 011, 012, 013, 014

Civics (1-3)

Students develop reading and comprehension skills focusing on topics that will aid them in becoming better members of the community. Placement is based on CASAS reading scores. Prerequisite: valid scaled scores from CASAS pre- or post-tests of 190 and under.

CIV 021, 22, 23, 24

Civics (1-3)

Students develop reading and comprehension skills focusing on topics that will aid them in becoming better members of the community. Placement is based on CASAS reading scores. Prerequisite: valid scaled scores from CASAS pre- or post-tests of 191 to 200.

CIV 031, 32, 33, 34

Civics (1-3)

Students develop reading and comprehension skills focused on topics that will aid them in becoming better members of the community. Placement is based on CASAS reading scores. Prerequisite: valid scaled scores from CASAS pre- or post-tests from 201 to 210.

CIV 041, 42, 43, 44

Civics (1-3)

Students develop reading and comprehension skills focusing on topics that will aid them in becoming better members of the community. Placement is based on CASAS reading scores. Prerequisite: valid scaled scores from CASAS pre- or post-tests between 211 and 220.

CIV 051, 52, 53, 54

Civics (1-3)

Students develop reading and comprehension skills focusing on topics that will aid them in becoming better members of the community. Placement is based on CASAS reading scores. Prerequisite: valid scaled scores from CASAS pre- or post-tests from 221-235.

CIV 061, 62, 63, 64

Civics (1-3)

Students develop reading and comprehension skills focusing on topics that will aid them in becoming better members of the community. Placement is based on CASAS reading scores. Prerequisite: valid scaled scores from CASAS pre- or post-tests of 236 to 245.

Commercial Drivers

CDL 100

Commercial Truck Driving (12)

This course is designed to prepare students to take the State of Washington test necessary to obtain a Commercial Driver License for the professional truck driving industry. Prerequisites: 18 years of age or older; pass Federal Department of Transportation health and drug screening; valid Washington state driver license; no DUI, hit and run, reckless, or negligent infractions within the past five years; have no more than three moving violations in the past three years.

Communication Studies

CMST& 102

Intro to Mass Media (5) (H)

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 and the Media (3) (D) (H)

Examine issues of race and gender in the media from both an historical and a current perspective.

CMST 110

Social Media Communications (5) (H)

Students will explore the field of social media communications, how social media has affected the way we communicate, and how to use platforms and strategies for professional use.

CMST 130

Debate I (5) (H)

Students will learn to analyze, construct and deliver arguments on controversial topics using supportive evidence to respond to opposing viewpoints.

CMST& 220

Public Speaking (5) (H)

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 240

Advanced Public Speaking (5) (H)

Build upon the skills learned in an introductory public speaking course. Become prepared to present in professional settings and lead effective business meetings as an audience-centered communicator. Prerequisite: CMST& 220 or instructor permission.

CMST 250

Intercultural Communications (5) (D) (H)

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.

CMST 330

Professional & Organizational Communication (5) (H)

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. Prerequisite: five units of lower division Humanities.

Communications

COMM 100

Dragon NaturallySpeaking (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.

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 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. Emphasis on creating basic drawings, blocks and plotting. Basic computer skills required.

Construction Trades

CTAP 120

Construction Trades Math (3)

This course will provide students with a solid foundation in mathematical principles needed for a variety of vocational trades.

CTAP 130

Work Behavior & Safety (5)

Provided instruction in health and safety needed for the trades. Topics included physical fitness, healthy eating habits, worksite assessment, identifying workplace hazards and hazard prevention and DOC safety training.

CTAP 140

Tools and Blueprints (5)

This course focuses on identification, maintenance and safe usage of tools and equipment in the trades.

CTAP 150

Intro to the Trades (5)

This course will provide exposure to Masonry, Carpentry, Laborers, Plumbers and Pipefitters, Electricians, Ironworkers trades.

CTAP 160

Capstone Project (2)

In this capstone course, students will experience the link between theory and practicum through completing a relevant project.

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 hrs on-the-job per quarter. Instructor's permission is required. Corequisite: Enrollment in a Work Experience Seminar is required of Co-op students. You may take the Work Experience Seminar before or in the same quarter as the Co-op course.

Criminal Justice

CJ& 101

Intro to Criminal Justice (5) (AE)

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.

CJ 104

Intro to Law Enforcement (5) (AE)

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) (AE)

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) (AE)

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) (AE)

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) (AE)

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 190

Cooperative Work Experience (1-10)

Cooperative Work Experience provides criminal justice students with opportunities and forums to apply classroom learning to real-world scenarios in career related environments. Credit is awarded for learning that occurs at municipal, state or federal law enforcement, correctional or social science agencies or institutions. Student achievement of predetermined learning objectives emphasized.

CJ 204

Reports, Forms & Affidavits (5)

Investigative report writing including narratives, police reports, common forms, affidavits, and search warrants.

CJ 223

Criminal Investigation (5)

Covers contemporary issues surrounding criminal investigation addressing the crime scene, investigative process of crimes against persons, property, vice crimes, and prosecution. It is designed to help students develop a working knowledge of criminal investigation.

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.

CJ 225

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.

CJ 228

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) (AE)

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 and application of basic tools and practices as used in heavy equipment repair facilities. Prerequisite: Placement for TMATH 116 or MATH 095 with 2.0 or higher.

DET 102

Forklift Certification (1)

A comprehensive classroom training with practical, and hands-on instruction on forklift operation and safety. Course covers state and federal regulations. For successful completion student must be 18 and pass both practical and hands on exams.

DET 110

Mobile Electrical Systems I (7)

The exploration and application of fundamental principles of direct current electrical systems found on mobile equipment. Prerequisite: DET 100 or instructor permission; corequisite DET 130.

DET 120

Internal Combustion Engines I (7)

This course covers the operating principles of internal combustion engines. A variety of diesel engines will be disassembled and reassembled with the use of service manuals. Prerequisite: DET 110 or instructor permission.

DET 125

Power Transmission 1 Lab (7)

The theory and application of mechanical power transmitting devices and associated components as used in diesel powered equipment.

DET 130

Mobile Hydraulic Systems (7)

Students will be introduced to terminology, physical properties, and principles relating to mobile hydraulic equipment. Students will engage in practical exercises that will aid in the understanding of basic hydraulic systems. Prerequisite: DET 100 or instructor permission; co-requisite: DET 110.

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 (1-7)

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. Positive work habits are emphasized. Prerequisite or co-requisite: Cooperative Work Experience Seminar.

DET 200

Mobile Electrical Systems II (7)

Students will examine electrical components and electronic systems. This course will cover electronic control modules and advanced direct current troubleshooting. Prerequisite: DET 110 or instructor permission.

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 Engines II (7)

This course will cover diesel engine analysis and testing for optimal performance and longevity. Students will perform live engine testing, troubleshooting, and repairs. Prerequisite: DET 110 or instructor permission.

DET 225

Heavy-Duty Chassis Systems (7)

The study and application of heavy-duty chassis systems used in diesel powered equipment. Prerequisite: completion of 1st year diesel classes.

DET 230

Practical Shop Application (7)

The discussion and implementation of proper shop practices and repair procedures.

DET 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.

DET 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 instructor permission.

DET 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 instructor permission.

DET 325

Material Science of Fluids (5)

Covers: oil, fuel, and coolant properties and functions. Students will perform field sampling and laboratory testing of fluids. Results of testing will be interpreted and explained at a customer level. Prerequisite: enrollment in BAS-DT or by permission.

DET 335

Regulatory Issues (5)

Studies the requirements set forth by governing agencies, such as: DOE/EPA, MSHA, OSHA, and Labor and Industries relating to diesel fueled automotive and industrial equipment. Prerequisite: enrollment in BAS-DT or instructor permission.

DET 345

Metalwork & Fabrication (5)

Apply layout, blueprint, weld symbol interpretation, dimension conversations, welding, machine set-ups and fabrication skills to safely complete metal fabrication projects correctly. Prerequisite: enrollment in BAS-DT or instructor permission.

DET 355

Hybrid Drives Electric/h (5)

Theory and application of gasoline/electric hybrid,

diesel/electric hybrid, and diesel/hydraulic hybrid systems as well as commonly used electric drive systems in on and off highway equipment. System maintenance and cost benefit analysis will be covered. Prerequisite: enrollment in BAS-DT or instructor permission.

DET 365

Diesel Internship (3)

Culminating activity requiring the application of program learning outcomes to a specific job or project. Students will work to attain learning outcomes through activities and deliverables agreed upon between the student, internship provider, and instructor.

DET 415

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 instructor permission.

DET 430

Shop/Fleet Management (5)

Introduction and explanation of day-to-day shop processes. Managerial skills, tasks, and responsibilities relevant to the diesel and heavy equipment industry will include: warranties, policies, cores, credits, paper in process, work orders, and budgeting. Prerequisite: enrollment in BAS-DT or instructor permission

DET 435

Hydraulics II (5)

The study and application of complex hydraulic systems with an emphasis on troubleshooting and system design. Prerequisite: enrollment in BAS-DT or instructor permission.

DET 445

Combustion Engine Fuels (5)

Identify and comprehend a variety of alternative power sources used in internal combustion engines. Power sources to be included are: diesel fuel, bio-diesel, gasoline, ethanol, propane, and CNG fueled engines. Prerequisite: enrollment in BAS-DT or instructor permission.

DET 455

Applied Failure Analysis (5)

This course focuses on material failures, techniques of failure analysis, and examination/identification of failure root causes. Students will learn to interpret and explain their results to customers. Prerequisite: admittance into BAS-DT or administrative permission.

DET 465

Power Generation Systems (5)

Students will operate, maintain, test, and troubleshoot generators and related energized and de-energized components. Emphasizes safe working practices when working around on-site power generation systems. Prerequisite: enrollment in BAS-DT or by permission.

Drama

DRMA 100

Applied Drama (3) (AE)

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

Introduction to Theater (5) (H)

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) (AE)

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 (3) (H)

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) (AE)

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 (5) (H)

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 (5) (H)

Continuation of acting fundamentals with an emphasis on improvisational techniques and exercises, and advanced monologue and scene work. Students will be expected to attend two plays during the quarter at their own expense. Prerequisite: DRMA 107 or instructor permission.

DRMA 110

Stage Makeup (3) (AE)

Introduction to the types of theatrical makeup and the techniques of application.

DRMA 111

Stage Lighting (3) (AE)

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 (5) (H)

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 118

Musical Theatre (5) (H)

The study of musical theatre, its major works, its significance in theatre history, and role in American culture with an emphasis on production elements and the play in performance.

DRMA 120

Introduction to Playwriting (5) (H)

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 130

Directing (5) (H)

An introduction to the theories, methods, and processes of directing a theatrical production. The course will culminate in the performance of a short play, which will be shown to the public. Prerequisite: DRMA& 101, DRMA 107, DRMA 108.

DRMA 141

Theater Speech (3) (AE)

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) (AE)

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) (AE)

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) (AE)

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 155

Technical Production I (2) (AE)

This course is an introduction to the technical aspects and procedures specific to setting up and running live entertainment.

DRMA 201

Advanced Acting (5) (H)

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. Prerequisite: DRMA 108 or instructor permission.

DRMA 205

Contemporary World Theatre (3) (AE)

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.

DRMA 210

Multicultural Theatre (5) (D) (H)

An introduction to the dramatic literature and

contemporary theatre practices of people of color; the study of the intersections of cultures in American society as portrayed in American theatre and performance.

DRMA 215

Improvisational Theatre (3) (AE)

An introduction to the theories, methods, and processes of improvisational theatre. Students will apply what they learn and perform an improvised piece of theatre at the end of the quarter for the public.

Economics

ECON& 201

Microeconomics (5) (SS)

Microeconomics is the study of households and firms and how they interact in markets under varying degrees of competition.

ECON& 202

Macroeconomics (5) (SS)

Macroeconomics is the study of how any system allocates limited resources to meet unlimited wants. Major concerns of macroeconomic policy are: inflation, full employment, national income accounting, fiscal policy, the money supply and trade.

ECON 305

Managerial Economics (5) (SS)

This class applies the principles of microeconomics to management decisions. Topics include consumer theory, supply & demand, efficiency, elasticity along with how firms contend with costs and competition.

Education

EDUC& 101

Paraeducator Basics (3)

An introduction to roles and responsibilities of the Paraeducator in the K-12 educational system. Students will explore techniques supporting instruction, professional and ethical practices, positive and safe learning environments, effective communication and teamwork.

EDUC& 115

Child Development (5) (SS)

Build foundation for explaining how children develop in all domains, conception through early adolescence. Explore various developmental theories, methods for documenting growth, and impact of brain development. Prerequisite: co-enrollment or previous enrollment in an EKE/EDUC course.

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.

EDUC& 136

School Age Care (3)

Develop skills to provide developmentally appropriate and culturally relevant activities/care for children ages 5-12 in a variety of settings.

EDUC& 150

Child, Family, Community (3)

Integrate the family and community contexts in which a child develops. Explore cultures and demographics of families in society, community resources, strategies for involving families in the education of their child, and tools for effective communication.

EDUC 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. Prerequisite: instructor permission.

EDUC& 201

Intro to Education (3) (AE)

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& 204

Exceptional Child (5)

Introductory course in recognition and identification of exceptionality in children from birth through high school (age 21).

EDUC& 205

Intro to Ed w/Field Exp (5) (AE)

An overview of education in America including history, purpose, philosophies, characteristics, social aspects and current issues. Exploration of teaching as a profession in the K-12 system. Includes 30 hours in K-12 classroom.

EDUC 300

Introduction to SPED (3-5)

This course provides an introduction to the terminology, identification, and issues when addressing the needs of diverse students with disabilities. Prerequisite: Admittance into BAS-TE program or administrator approval.

EDUC 315

Teaching Science (5)

While reviewing fundamental content in life, earth, physical and space sciences, participants will develop skills for integrating Next Generation Science Standards into highly engaging, relevant, and age-appropriate STEM or STEAM lessons. Prerequisite: admission in BAS-TE program or administrator approval.

EDUC 320

Social Emotional Teaching and Learning (5)

Develop skills for teaching SEL (Social Emotional Learning) to students from kindergarten to 8th grade. Using theory, research, and practice, students will engage with components such as self-awareness, self-management, self-efficacy, social awareness, social management, social engagement, brain-based instructional strategies, trauma-informed SEL, and local SEL curriculum. Prerequisites: admittance into BAS-TE Program or instructor permission.

EDUC 330

Technology and Teaching (2)

This course focuses on various educational technologies, ranging from classroom equipment to online learning management systems, with a particular focus on students' physical and emotional safety. Prerequisite: Admittance into BAS-TE program or administrator approval.

EDUC 335

Teaching Art & Movement (3)

Students examine current theory, research, and best practices related to the arts and movement. Instruction will include employing strategies for integrating the arts and an appreciation for the arts across and within content areas. Prerequisites: Admittance into BAS program or Administrator approval.

EDUC 345

Language Arts and Development (3)

Examine the methods for teaching writing, reading, listening, and speaking strategies and skills, including vocabulary, grammar, usage, and language development. Prerequisite: Admittance into BAS-TE program or administrator approval.

EDUC 350

Diversity in Students (3)

Using theory, research, and practice, students will understand and recognize issues of diversity. Behavioral supports will be assessed relative to vulnerable, special, and minority populations. Topics include race, ethnicity, gender, class, sexuality, disability, and age. Prerequisite: Admittance into BAS-TE program or administrator approval.

EDUC 351

Issues of Abuse (3)

Develop skills for working with children from abusive and/or neglectful home environments, including potential behavioral consequences of abuse or neglect and corresponding intervention strategies. Prerequisite: Admittance into BAS-TE program or administrator approval.

EDUC 355

Emergent Reading (5)

Explores reading, comprehension, and literacy as it pertains to beginning readers. Prerequisite: Admittance into BAS-TE program or administrator approval.

EDUC 360

Assessment and Evaluation (5)

Participants will explore principles of sound formative and summative assessment using grade level expectations, best grading practices, technology platforms, and individual education plans as tools. Participants will design assessments for individual needs of students in classrooms. Prerequisite: Admittance into BAS-TE program or administrator approval.

EDUC 365

Intermediate Reading (3)

Explores reading, comprehension, and literacy as it pertains to intermediate readers. Prerequisite: Admittance into BAS-TE program or administrator approval.

EDUC 370

Support: Child & Family (3)

Study techniques for communicating with families and professionals about characteristics and needs of individuals with differing abilities. Strategies for collaborating with families, recognizing and respecting family, cultural, and societal diversity. Identify local resources. Prerequisite: Admittance into BAS-TE program or administrator approval.

EDUC 380

Development of Differently-Abled (5)

Examine typical and atypical development. Identify characteristics of differing abilities, including physical or medical needs and effects disabilities have on educational implications and individual and family lives. Prerequisite: Admittance into BAS-TE program or administrator approval.

EDUC 385

SPED Assessment (3)

This course provides potential special education teachers with knowledge and experience in assessment issues as they relate to students with disabilities. Prerequisite: Admittance into BAS-TE program or administrator approval.

EDUC 400

Education and the Law (3)

Examine educational law emphasizing rights and responsibilities of students and teachers, and current issues of education and special education. Explore current legislation, issues, and trends related to schools and special education. Prerequisite: Admittance into BAS-TE program or administrator approval.

EDUC 410

Exceptional Learners (5)

This course will identify effective, research-based instructional strategies, accommodations, and adaptations for learners with diverse academic and behavioral needs. Participants will demonstrate how to make data-based decisions informed by multiple measures of evidence. Prerequisite: Admittance into BAS-TE program or administrator approval.

EDUC 420

Curriculum & Instruction (5)

Explore a variety of evidence-based instructional strategies for successful education of students with differing social and cultural backgrounds and learning styles. Plan and implement class activities that involve students in an active learning environment. Prerequisite: Admittance into BAS-TE program or administrator approval. Corequisite: EDUC 481 Practicum 1.

EDUC 421

Classroom Management (5)

Students will examine current theory, research, and best practices related to classroom management. Instruction will include employing techniques and strategies for managing individual and group behavior in a variety of instructional settings. Prerequisite: Admittance into BAS-TE program or administrator approval. Corequisite: EDUC 483 Practicum 3.

EDUC 480

SPED Seminar (1-2)

Students will work toward completing and documenting field tasks required for student teaching, certification, and the Special Education Portfolio as dictated by the state. Course Requisite: Admittance into BAS program or administrator approval. Prerequisite: admission in BASTE program or administrator approval.

EDUC 482

Practicum 2 (Field Exp aligned to Assess/Eval) (2)

While participants spend 33 hours in the field, they will apply principles of sound formative and summative assessment using grade level expectations, best grading practices, technology platforms, and individual education plans as tools. Prerequisite: Admittance into BAS-TE program or administrator approval; EDUC 360 Assessment & Evaluation

EDUC 483

Practicum 3 (2)

Weekly classes will provide directions on the field assignment for that specific week. Course participants spend 33 hours in the field, implementing current theory, research, and best practices related to their Classroom Management course. Prerequisite: Admittance into BAS-TE program or administrator approval. Corequisite: EDUC 421 Classroom Management.

EDUC 484

Practicum 4 (2)

Each weekly class session will provide directions on the field assignment for that week. Participants spend 33 field hours implementing current theory, research, and best practices related to their comprehensive program learning thus far. Prerequisite: Admittance into BAS-TE program or administrator approval.

EDUC 490

Student Teaching SPED (10)

Supervised instructional experience to develop, implement, practice, and evaluate theory and methods learned. Students will meet one on one or in small groups with supervising faculty. Prerequisite: EDUC 497 with a 2.0 or higher.

EDUC 497

Student Teaching Elem 1 (10)

Supervised instructional experience to develop, implement, practice, and evaluate theory and methods

learned. Prerequisite: Admittance into BAS-TE program or administrator approval. ENGL& 102, 2.0 or higher in EDUC 300, 330, 345, 350, 355, 370, 400, 410, 420, and 421.

EDUC 498

Student Teaching Elem 2 (10)

Supervised instructional experience to develop, implement, practice, and evaluate theory and methods learned in BAS-TE program. Prerequisite: ENGL& 102; 2.0 or higher in all prior EDUC courses.

Education – Early Childhood

ECED& 100

Child Care Basics (3)

This course is designed to meet licensing requirements for early learning lead teachers and family home child care providers, STARS 30-hour basics course recognized in the MERIT system.

ECED& 105

Intro Early Child Ed (5) (SS)

Explore the foundations of early childhood education. Examine theories defining the field, issues, trends, best practices, and program models. Observe children, professionals and programs in action.

ECED& 107

Health/Safety/Nutrition (5)

Introduction to implementation of equitable health, safety and nutrition standards for the growing child in group care. Develop skills necessary to keep children healthy, safe, report abuse and neglect, and connect families to community resources.

ECED& 120

Practicum-Nurturing Rel (2)

In an early learning setting, engage in establishing nurturing, supportive relationships with all children and professional peers. Focus on children's health and safety, promoting growth and development, and creating a culturally responsive environment.

ECED& 132

Infant/Toddler 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 how to manage a family childcare program. Topics include: licensing requirements, record-keeping, relationship building, communication strategies, guiding behavior, and promoting growth and development.

ECED& 138

Home Visiting & Family Engagement (3)

Plan and provide home visits and group activities. Promote secure parent-child relationships. Support families to provide high-quality early learning opportunities embedded in everyday routines and experiences.

ECED& 139

Administration of ECE (3)

Develop administrative skills required to develop, operate, manage and improve early childhood education and care programs. Acquire basic business management skills. Explore resources and supports for meeting Washington State licensing and professional NAEYC standards.

ECED& 160

Curriculum Development (5)

Investigate learning theory, program planning, tools and methods for curriculum development promoting language, fine/gross motor, social-emotional, cognitive and creative skills and growth in children birth through age 8 utilizing developmentally appropriate and culturally responsive practice.

ECED& 170

Environments-Young Child (3)

This class focuses on the adult's role in designing, evaluating, and improving indoor and outdoor environments that ensure quality learning, nurturing experiences, and optimize the development of young children.

ECED& 180

Language/Literacy Develop (3)

Teaching strategies for language acquisition and literacy skill development are examined at each developmental stage (birth-age 8) through the four interrelated areas of speaking, listening, writing, and reading.

ECED& 190

Observation & Assessment (3)

Collect and record observation and assessment data in order to plan for and support the child, the family, the group and the community. Practice reflection techniques, summarizing conclusions, and communicating findings.

ECED 233

ECE Practicum 2 (5)

Develop a professional understanding of teaching methods and practices with an opportunity to evaluate teaching skills and learning environment. Must have completed at least 30 units in ECE or have instructor permission.

Electronics, Robotics, Automation

ERA 101

Electronics Assembly (5)

Techniques of electronics assembly using through-hole and surface mount components. Schematics and computer aided design will be studied. Heavy emphasis placed on personal and component safety and Electro-Static Discharge (ESD). Pre/Corequisite: MATH 098, ENGL 099 or equivalents.

ERA 117

Adv AC/DC Electronics (4)

Advanced theorems, analysis and troubleshooting of Direct and Alternating Current. Devices including inductors and variable resistors and capacitors will be studied. Circuit simplification theorems will be studied and demonstrated. Prerequisite ERA 116 or MEC 116.

ERA 119

Introduction to Industrial Systems (3)

This course will cover the basics of modern industrial systems. Students will learn about the different components that work together to produce a physical product or system from its conception to being delivered to the customer.

ERA 170

Solid State Devices (4)

Applications of circuits using solid state electronic devices will be studied. Course content will include diodes, transistors, solid state relays, operational amplifiers and their respective applications in sensory and device control circuits. Prerequisite: ERA 115.

ERA 212

Digital Electronics (4)

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. Prerequisites: MATH 115, ERA 115.

ERA 276

ERA Capstone (4)

Class will cover systematic design process, project management, and lean manufacturing principles through research and product development. Students will put these principles into practice by designing a prototype of a system that will provide a solution to a community/ industry need/challenge. Students will be required to supply project proposals, plans, budgets, report, and a final prototype. Prerequisite: Instructor permission required.

ERA 230

Robotic Controllers (4)

Introduction to robotic control systems and input/output processing. Platforms studied will include microcontrollers, computer numerically controlled (CNC) machines, various types of motor drive controllers and integration of input devices and sensors into algorithms to drive outputs. Prerequisite: TMATH 122 or equivalent.

ERA 235

Communication Systems (3)

Survey of communication systems used in electronics. Wired systems will include Serial, Parallel, Ethernet, fiber optic, industrial communication protocols and others. Wireless systems will include RF, IR, Bluetooth and Wi-Fi including basic applications in robotics.

ERA 240

Amplifiers (5)

Amplifier applications in audio and industrial settings. Topics will include small and large signal voltage and current amplifiers, analog and solid-state configurations and applications to audio, sensing and measurement, and digital comparison circuits. Prerequisite: ERA 170.

ERA 252

Data Processing for Automation (3)

Introduction to retrieving, storing, processing and reporting data from input devices common to an industrial setting. A heavy emphasis will be placed on MS spreadsheet and database applications. Prerequisites: ERA 121, ERA 170.

ERA 276

ERA Capstone (4)

Class will cover systematic design process, project management, and lean manufacturing principles through research and product development. Students will put these principles into practice by designing a prototype of a system that will provide a solution to a

community/industry need/challenge. Students will be required to supply project proposals, plans, budgets, report, and a final prototype. Prerequisite: Instructor permission required.

PPO 100

Intro to 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 System (5)

Continuing coverage of power systems, boilers and prime movers. Prerequisite: PPO 102.

PPO 105

Inside Wireman Section A (7)

Provides introductory instruction in electrical theory, design, installation, and maintenance of electrical systems providing power, light heat, air conditioning, refrigeration, control, communication, monitoring, and automation to residential, commercial, and industrial markets.

PPO 106

Inside Wireman Section B (7)

This course is designed to instruct the student in electrical theory, design, installation, and maintenance of electrical systems providing power. Section B provides further mastery of knowledge, skills, and abilities to apply the principles of basic electricity, National electrical codes, engineering drawing, reading and sketching.

PPO 107

Inside Wireman C - Substation (7)

Students will be able to demonstrate mastery of principles of electronic devices, National Electrical Codes, engineering drawing, reading, sketching and industry mathematics.

PPO 108

Inside Wireman D -Substation (7)

Students will be able to demonstrate mastery of knowledge, skills and abilities in motor controls, electronics and industrial electronics.

PPO 120

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, and electrical distribution systems.

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 firefighting equipment and procedures. Basic Rigging will be taught stressing safety. Prerequisite: PPO 102.

PPO 150

Energy Efficiency (5)

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 Boilers (5)

Provides a background in power boilers, boiler systems & equipment, an introduction to the safe operation, maintenance & control of boilers. Prerequisite: PPO 102.

PPO 202

Power Plant Prime Movers (5)

Provides a basic background in Prime Movers, focusing on construction, operation, and maintenance of steam turbine, gas turbine, diesel engine, and pump operation and maintenance. 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)

Provides a background in operating the American electrical grid system and NERC (North American Electrical Reliability Corporation) required standards. The first class in a series of two classes. Prerequisite: Minimum 2.8 grade in PPO 201.

PPO 206

Power System Operator II (5)

PPO 206 is a continuation of PPO 205, providing the student with a background in operating the American electrical grid system and required NERC (North American Electrical Reliability Corporation) standards. Prerequisite: Minimum grade 1.9 in PPO 205.

PPO 208

Hydroelectric Power (5)

Provides a broad background in the field of electric power generation from hydroelectric dams. Basics of producing electricity including turbines, hydro project regulations, fish passageway, and water quality, and tribal rights. Prerequisite: PPO 103.

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 203

Applied Numerical Methods (5) (AE)

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.

ENGR& 111

Engineering Graphics I (2) (AE)

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) (AE)

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 111, or permission of instructor.

ENGR& 204

Electrical Circuits (5) (AE)

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.

ENGR& 214

Statics (5) (AE)

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. Co-requisite: MATH& 151.

ENGR& 215

Dynamics (5) (AE)

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) (AE)

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 (12) (AE)

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 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 (5) (C)

An expository writing course encouraging students to think and write clarity and conciseness; to organize and develop their ideas; and to express themselves sharply, economically, and grammatically. Students must meet mandatory placements to enroll. Prerequisite: placement into ENGL& 101 or 2.0+ in 5 units of ENGL 099 or WRT 105 or BTEC 221.

ENGL& 102

Composition II (5) (C)

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) (AE)

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.

ENGL& 111

Intro to Literature (5) (H)

Introduces the major genres, techniques and themes of literature by examining the work of a variety of classic and contemporary authors.

ENGL& 113

Intro to Poetry (5) (H)

Introduction to modern poetry (mid-19th c. to present) through the study of major English language poets: their lives, influences, and works. Prerequisite: ENGL 101.

ENGL& 114

Intro to Dramatic Lit (5) (H)

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 (5) (D) (H)

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 (5) (H)

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. Prerequisite: college level reading and writing skills.

ENGL 204

Introduction to Shakespeare (5) (H)

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.

ENGL 208

Intro to Creative Writing (5) (H)

Writers will move beyond the traditional "academic essay" into an exploration of literary genres to include poetry, creative nonfiction, short fiction, and drama. Prerequisite: college-level writing: test into ENGL& 101.

ENGL 209

The Hero's Quest: Survey of Eng Lit 7th Cent (5) (H)

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 Engl Lit 1616 (5) (H)

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 (5) (H)

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 (3) (H)

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 222

Screenwriting (5) (H)

An introduction to the theories, methods, and processes of writing a screenplay. Students will apply what they learn and complete a full-length screenplay at the end of the quarter.

ENGL 233

Children's Literature (5) (D) (H)

Examines the diverse body of literature written for children and adolescents, plus techniques used to read aloud to children. Classics and contemporary works will be approached chronologically and thematically. Prerequisite: college level reading and writing skills. Placement into ENGL& 101 or completion of 5 units of ENGL 099 with 2.0+ recommended.

ENGL& 235

Technical Writing (5) (C)

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 (5) (H)

Surveys three American literary movements: Puritans, Colonialists, and American Renaissance / Transcendentalism. Examines rise of a distinctly American literature, focusing on themes of faith, work, self-government, race and gender. Prerequisite: ENGL& 101 with 2.0 or better or instructor permission.

ENGL& 245

American Literature II (5) (D) (H)

American literature from Civil War to World War I: Gilded Age of industry/capital, labor movement, postwar race relations, westward expansion, gender issues/ suffrage, shift from romanticism to realism/naturalism in prose and poetry. Prerequisite: ENGL& 101 w/2.0 or better or instructor permission.

ENGL& 246

American Literature III (5) (D) (H)

Surveys development and diversification of American literature from Roaring 1920's to the present, including modernist innovations in poetry/prose, the Beats, Harlem Renaissance, Latino/a, Asian American, Native American, feminist, environmental, science, and dystopian fictions. Prerequisite: ENGL& 101 w/2.0 or better or instructor permission.

ENGL 249

The Great American Novel (5) (H)

Explore development of the American novel, its major themes and stylistic techniques, focusing on classics by writers like Hawthorne, Melville, Twain, Chopin, Hemingway, Faulkner, Morrison, as well as evaluating contemporary works. Prerequisite: ENGL& 101 with 2.0 or better or instructor permission.

ENGL 250

Literary Themes (1-5) (AE)

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 251

Science Fiction (5) (H)

Surveys rise and development of science fiction, focusing on short stories; students may address novels in course projects. Explores common themes; science fiction as social commentary; technology; war; relationships; race; gender; defining "human." Creative writing options. Prerequisite: ENGL& 101.

ENGL 260

Non-Western World Literature (5) (D) (H)

Literature of the non-western world, ancient times to the present: Middle East, India, Africa, China, Japan, Americas focusing on how literature expresses these cultures' spiritual traditions, political values, gender issues, environmental beliefs. Prerequisite: ENGL& 101 with 2.0 or better or instructor permission.

ENGL 271

Intermediate Creative Writing (5) (H)

Students will hone and focus their creative invention, workshopping, revision, and editing skills while working on a single fiction or creative nonfiction project. Prerequisite: ENGL& 101 and ENGL 208 or instructor approval.

ENGL 272

Advanced Creative Writing (3) (AE)

For serious students who wish to prepare a manuscript for publication and/or writing program admission. Emphasis on workshopping, and revising of an individual project. Prerequisite: ENGL 271 and instructor permission.

WRT 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: 5 units of ENGL 098 with 2.0+ or placement into ENGL 099/WRT 105.

English Language Acquisition

ELA 011, 12, 13, 14

English for Work (1-15)

Introduces beginning non-native speakers of English to career pathways in Business, Health, Academic Transfer and Industry. Students learn listening, speaking, reading, writing and math skills through the use of contextualized instruction and technology. (Prerequisite: valid scaled scores from CASAS pre- or post-tests lower than 190.)

ELA 021, 22, 23, 24

English for Work (1-15)

Introduces beginning non-native speakers of English to career pathways in Business, Health, Academic Transfer and Industry. Students learn listening, speaking, reading, writing and math skills through the use of contextualized instruction and technology. (Prerequisite: valid scaled scores from CASAS pre- or post-tests between 191-200.)

ELA 031, 32, 33, 34

English for Work (1-15)

Introduces beginning non-native speakers of English to career pathways in Business, Health, Academic Transfer and Industry. Students learn listening, speaking, reading, writing and math skills through the use of contextualized instruction and technology. (Prerequisite: valid scaled scores from CASAS pre- or post-tests between 201-210.)

ELA 041, 42, 43, 44

English for Work (1-15)

Introduces beginning non-native speakers of English to career pathways in Business, Health, Academic Transfer and Industry. Students learn listening, speaking, reading, writing and math skills through the use of contextualized instruction and technology. (Prerequisite: valid scaled scores from CASAS pre- or post-tests between 211-220.)

ELA 070

Lang Comprehension 1 (1-9)

In this Level 1 Language Comprehension course, students will develop listening and reading comprehension skills needed to succeed in subsequent liberal arts and technical/occupational courses. Prerequisite: Official Language Test or valid CASAS score of 211-220.

ELA 071

Aural/Written Lang 1 (1-9)

In this Level 1 Aural/Written Language course, students will develop speaking, grammar, and composition skills needed to succeed in subsequent liberal arts and technical/occupational courses. Prerequisite: Official Language Test or CASAS score of 211-220.

ELA 072

Lang Comprehension 2 (1-9)

In this Level 2 Language Comprehension course, students will develop listening and reading comprehension skills needed to succeed in subsequent liberal arts and technical/occupational courses. Prerequisite: Official Language Test or valid CASAS score of 221-235.

ELA 081

Aural/Written Lang 2 (1-9)

In this Level 2 Aural/Written Language course, students will develop speaking, grammar, and composition skills needed to succeed in subsequent liberal arts and technical/occupational courses. Prerequisite: Official Language Test or CASAS score of 221-235.

Environmental Science

ENVS 100

Survey of Environmental Science Lab (1) (S)

Field experience in environmental science. Visit local environments, both natural and human-dominated, ranging from old growth forests to floodplain restoration sites to recycling, forestry and organic farming operations. Includes two Saturday field trips.

ENVS& 100

Survey of Environmental Science (5) (NS)

An interdisciplinary course for both non-science majors and beginning science students. Topics include biodiversity, climate, pollution, energy, and food. Students cannot receive credit for both ENVS& 100 and ENVS& 101.

ENVS& 101

Intro to Environmental Science w/lab (5) (NS)

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 (5) (NS)

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 (1) (AE)

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) (AE)

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) (AE)

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 (1) (AE)

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) (AE)

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) (AE)

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: Intro to the 4 (1) (AE)

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

Natural Resources Mgmt (5) (NS)

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.

ENVS 440

Environmental Issues (5) (NS)

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: lower division natural science course.

French

FRCH& 121

French I (5) (H)

An introduction to the French language, including the major axes of reading, writing, listening, and speaking. While building competence in French language, students will also study francophone cultures from around the world, including but not limited to France.

FRCH& 122

French II (5) (H)

Second class in sequence. An introduction to the French language, including the major axes of reading, writing, listening, and speaking. While building competence in French language, students will also study francophone cultures from around the world, including but not limited to France. Prerequisite: FRCH& 121 or instructor permission.

FRCH& 123

French III (5) (H)

Third class in sequence. An introduction to the French language, including the major axes of reading, writing, listening, and speaking. While building competence in French language, students will also study francophone cultures from around the world, including but not limited to France. Prerequisite: FRCH& 122, or instructor permission

FRCH& 221

French IV (5) (AE)

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 permission of instructor.

FRCH& 222

French V (5) (AE)

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& 221 or permission of instructor.

FRCH& 223

French VI (5) (AE)

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& 222 or permission of instructor.

Geography

GEOG& 200

Human Geography (5) (D) (SS)

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

Introduction to Physical Geography (5) (NS)

Explore the characteristics of and relationships between Earth's natural system: lithosphere, hydrosphere, atmosphere, and biosphere. Introduction to landforms, climates, vegetation, soils, mineral and water resources, plate tectonics, and maps. Course work will include some college level writing and math.

Geology

GEOL& 101

Intro Physical Geology (5) (NS)

Introduces the study of the Earth, fundamental geologic principles, and physical processes acting within and upon the Earth, with an emphasis on mountains, volcanoes, earthquakes, and rock and mineral identification. Field trip(s) required. Includes lab.

GEOL 102

Earth Surface Processes (5) (NS)

Introduces the processes that shape Earth's landscape. Includes the study of mass wasting, river dynamics, groundwater sources, glacial land forms, deserts, and coastal processes. One of more field trips may be required. Includes lab. Corequisite: MATH 098.

GEOL& 103

Historical Geology w/Lab (5) (NS)

Evolution of Earth and life as interpreted through the fossil and rock record. Includes fossils, relative and numerical-age dating, stratigraphic principles, global change, and the geologic history of the North American continent. Includes lab.

GEOL 106

Survey of Earth Sciences (5) (NS)

Study of Earth as a diverse system of interconnected processes. Explores topics in: geology, oceanography, atmospheric science, and astronomy with an emphasis on the interactions between humans and Earth. Includes lab.

GEOL 108

Natural Hazards and Catastrophes (5) (NS)

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 (3) (NS)

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 (5) (NS)

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) (AE)

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.

German

GERM& 121

German I (5) (H)

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.

GERM& 122

German II (5) (H)

A multimedia course that combines video, audio, and print. Emphasis is on communicative proficiency, self-expression and cultural insight. Resources include computer study modules, recorded tapes, videos, laser disks, and the World Wide Web. Prerequisite: GERM& 121 or permission of instructor.

GERM& 123

German III (5) (H)

A multimedia courses 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. Prerequisite: GERM& 122 or permission by the instructor.

GERM& 221

German IV (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. German is used almost exclusively in the classroom. Prerequisite: GERM& 123 or permission of instructor.

GERM& 222

German V (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. German is used almost exclusively in the classroom. Prerequisite: GERM& 221 or permission of instructor.

GERM& 223

German VI (5)

Reviews and expands the essential points of grammar. Students will develop reading skills, build their vocabulary, and increase their listening and speaking skills in a variety of topics. German is used almost exclusively in the classroom. Prerequisite: GERM& 222 or permission of instructor.

Health

HLTH 120

Women's Health Issues (3) (D) (HF)

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.

HLTH 130

Health & Wellness (3) (HF)

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 (2) (HF)

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)

The two core components of a healthy lifestyle--a healthy diet and a safe exercise program--will be explored and developed. Students will be expected to exercise on their own.

HLTH 141

Global Health Issues (D) (HF) (3)

Introduction to global health issues, with a current event focus. Explore factors impacting the health of people around the world, including biological, socio-economic and environmental factors. Examine issues of water, disease, nutrition, and maternal-child health.

HLTH 143

Stress Management (2) (HF)

Understand how stress can impact quality of life. Learn methods for identifying stressors and strategies to effectively manage them. Construct a personalized stress management program.

HLTH 144

Technology Health/Fitness (2) (HF)

Explore current uses of technology for adherence, motivation and monitoring of health and fitness behaviors. Areas covered will be digital coaching, fitness monitors and trackers, downloadable applications and peer to peer or social apps.

HLTH 145

Safety and Fitness (3) (HF)

The course emphasizes the importance of safety, first aid, and exercise as they relate to an individual's level of health and fitness. The course includes the American Heart Association Heartsaver First Aid/CPR and AED certification.

HLTH 154

Community First Aid and CPR (1)

Basic First Aid/CPR/AED class covering critical skills needed to respond to and manage first aid, choking or sudden cardiac arrest emergencies in the first few minutes until emergency medical services (EMS) arrives.

HLTH 159

Anatomy & Terminology for EMT's (1)

Provide EMT students with a basic understanding of basic anatomy, functions of the human body, and medical terminology. Topics include: anatomic definitions, initial medical terminology, skeletal system, circulatory system, respiratory system, and the nervous system.

High School Equivalent

HSE 001

Portfolio & English L5 (1-10)

SBCTC High School 21 Degree class demonstrating English competency through student self-evaluation of prior education, previous and current employment, and life experiences -in fulfillment of one's high school degree competencies or GED. Prerequisite: CASAS score 236-245.

HSE 002

CWP, Env Sci, English L5 (1-10)

SBCTC High School 21 Degree integrated reading writing class demonstrating English competency through the study of CWP's and Environmental Science -in fulfillment of one's high school degree competencies or GED. Prerequisite: CASAS score 236-245.

HSE 003

Life Science & ENGL L5 (1-10)

SBCTC High School 21 degree integrated reading writing class demonstrating English competency through the study of Life Science and scientific thinking--in fulfillment of one's high school degree competencies or GED. Prerequisite: CASAS score 236-245.

HSE 004

Occ Ed & ENGL L5 (1-10)

SBCTC High School 21 degree integrated reading writing class demonstrating English competency through studying communication, occupational skills and work opportunities-in fulfillment of one's high school degree competencies or GED. CASAS score 236-245.

HSE 005

US Hist, GOV, FA, ENGL L5 (1-10)

SBCTC High School 21 degree integrated reading writing class demonstrating English competency through the study of US History, Government and Fine Arts--fulfillment of one's high school degree competencies or GED. Prerequisite: CASAS score 236-245.

HSE 006

WA State Hist, Engl L5 (1-10)

SBCTC High School 21 degree integrated reading writing class demonstrating English competency through the study of Washington State History--in fulfillment of one's high school degree competencies or GED. Prerequisite: CASAS score 236-245.

HSE 007

Health, Fitness and English L5 (1-10)

SBCTC High School 21 degree class introducing emotional, physical, and mental components of health to develop an individual health and fitness program--in fulfillment of one's high school degree competencies or GED. Prerequisite: CASAS score 236-245.

HSE 008

Algebra 1 - L5 (1-5)

SBCTC High School 21 degree for Algebra 1--fulfillment of one's high school degree competencies or GED. Prerequisite: CASAS score 236-245.

HSE 009

Algebra 2 - L5 (1-5)

SBCTC High School 21 degree for Algebra 2--fulfillment of one's high school degree competencies or GED. Prerequisite: CASAS score 236-245.

HSE 010

Geometry - L5 (1-5)

SBCTC High School 21 degree for Geometry--in fulfillment of one's high school degree competencies or GED. Prerequisite: CASAS score 236-245.

HSE 011

Portfolio & English L6 (1-10)

SBCTC High School 21 degree class demonstrating English competency through student self-evaluation of prior education, previous and current employment, and life experiences -in fulfillment of one's high school degree competencies or GED. Prerequisite: CASAS score 246- or higher (ASE 2).

HSE 012

CWP, Env Sci, English L6 (1-10)

SBCTC High school 21 degree integrated reading writing class demonstrating English competency through the study of CWP's and Environmental Science -in fulfillment of one's high school degree competencies or GED. Prerequisite: CASAS score 246 or higher.

HSE 013

Life Science & Engl L6 (1-10)

SBCTC High School 21 degree integrated reading writing class demonstrating English competency through the study of Life Science and scientific thinking--in fulfillment of one's high school degree competencies or GED. Prerequisite: CASAS score 246 or higher (ASE 2).

HSE 014

Occ Ed & ENGL L6 (1-10)

SBCTC High School 21 degree integrated reading writing class demonstrating English competency through studying communication, occupational skills and work opportunities-in fulfillment of one's high school degree competencies or GED. Prerequisite: CASAS score 246 or higher (ASE 2).

HSE 015

US Hist, GOV, FA, ENGL L6 (1-10)

SBCTC High School 21 degree integrated reading writing class demonstrating English competency through the study of US History, Government and Fine Arts-in fulfillment of one's high school degree competencies or GED. Prerequisite: CASAS score 246 or higher.

HSE 016

WA State Hist, English L6 (1-10)

SBCTC High School 21 degree integrated reading writing class demonstrating English competency through the study of Washington State History-in fulfillment of one's high school degree competencies or GED. Prerequisite: CASAS score 246 or higher.

HSE 017

Health, Fitness, English L6 (1-10)

SBCTC High School 21 degree class introducing emotional, physical, and mental components of health to develop an individual health and fitness program-in fulfillment of one's high school degree competencies or GED. Prerequisite: CASAS score 246 or higher.

HSE 018

Algebra 1 - L6 (1-5)

SBCTC High School 21 degree for Algebra 1-in fulfillment of one's high school degree competencies or GED. Prerequisite: CASAS score 246 or higher (ASE 2).

HSE 019

Algebra 2 - L6 (1-5)

SBCTC High School 21 degree for Algebra 2-in fulfillment of one's high school degree competencies or GED. Prerequisite: CASAS score 246 or higher (ASE 2).

HSE 020

Geometry - L6 (1-5)

SBCTC High School 21 degree for Geometry-in fulfillment of one's high school degree competencies or GED. Prerequisite: CASAS score 246 or higher (ASE 2).

HSE 021

Math Fundamentals (1-5)

This course reviews basic math fundamentals. Concepts include whole numbers, fractions, mixed numbers, decimals, percent, ratio, rates, proportions,

measurements, signed numbers, and basic geometry. Course equals one (1) high school math credit for certain pathways and graduation cohorts.

HSE 052

L5-WA Hist/Fine Arts/Sci (1-15)

Integration of language arts and thinking skills through exploration of Washington State: civics, economics, art, literature, music, history, industry, geography, settlement, and migration. Will also examine unique technological and innovational advancements within the state. Prerequisite: CASAS score: 236-245.

HSE 054

L5-US Hist/Fine Arts/Sci (1-15)

Integration of language arts and thinking skills through exploration of United States history: civics, economics, art, literature, music, history, industry, geography, settlement, and migration. Will also examine unique technological and innovational advancements within America. Prerequisite: CASAS score: 236-245.

HSE 055

L5-CWP/Fine Arts/Science (1-15)

Integration of language arts and thinking skills through exploration of contemporary world problems; politics, economics, art, literature, music, history, industry, geography, colonization, re-settlement, and migration. Will also examine technological, environmental, and innovational issues. Prerequisite: CASAS score: 236-245.

HSE 062

L6-WA Hist/Fine Arts/Sci (1-15)

Integration of language arts and thinking skills through exploration of Washington State: civics, economics, art, literature, music, history, industry, geography, settlement, and migration. Will also examine unique technological and innovational advancements within the state. Prerequisite: CASAS score: 246-255.

HSE 064

L6-US Hist/Fine Arts/Sci (1-15)

Integration of language arts and thinking skills through exploration of United States history: civics, economics, art, literature, music, hi, industry, geography, settlement, and migration. Will also examine unique technological and innovational advancements within America. Prerequisite: CASAS score: 246-255.

HSE 065

L6-CWP/Fine Arts/Science (1-15)

Integration of language arts and thinking skills through exploration of contemporary world problems; politics, economics, art, literature, music, history, industry, geography, colonization, re-settlement, and migration. Will also examine technological, environmental, and innovational issues. Prerequisite: CASAS score: 246-255.

HSE 85

Contemporary World Problems (1-5)

This is an introductory course which satisfies the Washington State Board of Education's requirements for competency in Contemporary World Problems. Students earn (1) high school credit in Washington State History upon successful completion. Pre-requisite: CASAS score of 236 or instructor permission.

HSE 86

Washington State History (1-5)

This is an introductory course which satisfies the Washington State Board of Education's requirements for competency in Washington State History. Students earn (1) high school credit in Washington State History upon successful completion of 5 college units. Prerequisite: CASAS score of 236, or instructor permission.

HSE 88

US History (1-5)

This is an introductory course which satisfies the Washington State Board of Education's requirements for competency in US History. Students earn (1) high school credit in Washington State History upon successful completion of 5 college units. Prerequisite: CASAS score of 236 or instructor permission.

HSE 90

WL-SPAN 1, ART (1-5)

This is an introductory course which satisfies the Washington State Board of Education's requirements for competency in both Spanish and Fine Arts, focusing on communication skills, and how art influences and reflects culture and civilization. Students earn high school units in: World Language (1) and Art (1).

HSE 91

WL-SPAN 2, ART (1-5)

A continuation of high school Spanish which satisfies the Washington State Board of Education's requirements for competency in both Spanish and Fine Arts, focusing on communication skills, and how art influences and reflects culture and civilization. Students create a notebook of language and art. The course includes four portfolio projects. Students earn high school units in: World Language (1) and Art (1).

HSE 92

English (1-5)

This is an introductory course which satisfies the Washington State Board of Education's requirements for competency in English, focusing on communication skills. Students earn high school units in English. Prerequisite: CASAS score of 236, or instructor permission.

HSE 93

Fine Arts (1-5)

This is an introductory course which satisfies the Washington State Board of Education's requirements for competency in Fine Arts, focusing on communication skills and how art influences and reflects culture and civilization. Students earn high school credit in Art (1). Prerequisite: CASAS score of 236, or instructor permission.

HSE 94

General Science

This is an introductory course which satisfies the Washington State Board of Education's requirements for competency in general Science, focusing on life science and the scientific method. Students earn high school credit in Science. Prerequisite: CASAS score of 236, or instructor permission.

History

HIST 110

History of Intolerance (3) (SS) (D)

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 (5) (SS)

Analysis of the development of major political, economic, social and cultural characteristics of Antiquity and Medieval Europe.

HIST& 117

Western Civilization II (5) (SS)

Analysis of the modern state with emphasis on the Renaissance, the Reformation, Absolutism, Scientific and Political Revolutions.

HIST& 118

Western Civilization III (5) (SS)

Analysis of the late 19th and 20th centuries with special attention paid to the development of political, social and economic trends and events.

HIST& 126

World Civilization I (5) (SS) (D)

Focuses on the origins, development, and features of societies in the ancient and classical world. This course examines the political, social, and cultural contours of societies and the interactions and relationships among different historical cultures.

HIST& 127

World Civilization II (5) (SS) (D)

Examines the progression of world history in pre-modern and early modern period. Topics include the development of mercantile capitalism, the Columbian exchange, revolutions in science, philosophy and politics, and the impact of colonialism and slavery.

HIST& 128

World Civilization III (5) (SS) (D)

Examines the issues of modern world history including role of warfare, empire, diplomacy, and revolution in shaping international events and interactions taking place when cultural values, ideas, and technologies of multiple societies interact over time.

HIST& 146

US History I (5) (SS)

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 (5) (SS)

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 (5) (SS)

Analysis of American history from World War One to the present. Emphasis will be on the political, social, and economic changes.

HIST 210

Introduction to Pacific Asian History (5) (D) (SS)

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.

HIST& 214

Pacific NW History (5) (SS)

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 (5) (SS)

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 (5) (SS) (D)

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) (AE)

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 (5) (SS)

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.

Horticulture

HORT 101

Horticulture Science (3)

Overview of horticulture, landscape and botany. Classroom and lab. Prerequisite: GED.

HORT 102

Plant Pest Management (4)

Students learn to detect, identify, and control weeds and diseases. Classroom and lab. Prerequisite: HORT 101.

HORT 103

Plant Propagation (3)

Students learn multiple methods of reproducing plants primarily in a greenhouse setting.

HORT 104

Pruning Practices (4)

Students learn basic methods of pruning different types of plants. Classroom and lab.

HORT 105

Landscape Equipment (3)

Landscape development and maintenance. Focus on power equipment. Classroom and lab.

HORT 106

Landscape Management (3)

Students will learn tree and lawn care, primarily using hand tools. Classroom and lab.

Human Relations

H R 60

Reentry Life Skills (6)

This course provides life skills instruction for incarcerated students to facilitate in their transition to the community. This course is only offered to students incarcerated in designated state correctional institutions.

H R 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. Prerequisite: HR 101 or instructor permission.

Humanities

HUM 110

Ethics and Cultural Values (5) (H) (D)

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 (5) (H)

A survey of the major movements in art, architecture, music, philosophy and literature in a historical context, from pre-history to 1400 C.E.

HUM& 117

Humanities II (5) (H)

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 (5) (H)

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 (5) (H)

An examination of the social, historical, technical, and artistic aspects of film through viewing, study and discussion of notable motion pictures.

HUM 281, 282, 283, 284, 285, 286

Lyceum I-VI (1) (AE)

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.

HUM 315

Ethics (5) (H)

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.

Information Technology

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 (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.

I T 101

Intro to Programming (5)

This course provides an introduction to programming using Microsoft Visual Studio. Course focus is on building basic graphical applications using the Python programming language.

I T 110

Learning and Working Virtually (5)

This class is an introduction on how to learn and work effectively in a remote, virtual environment. Students will gain hands-on experience participating in and hosting remote group projects.

I T 111

Programming I (5)

A course in event-driven programming concepts. Students will develop event-driven programs that utilize a graphical user interface (GUI). Topics include GUI libraries, event handling, delegation, and threading basics. Version control and unit testing will also be introduced. Prerequisite: I T 101 or CS& 131 or CS& 141 or permission.

I T 117

Intro to Windows OS (3)

An introduction to Windows Operating System. Course will cover such things as the taskbar, Start menu, recycle bin, windows views, Window Explorer, storage devices, printing, saving, control panels, etc.

I T 119

Introduction to Web Development (5)

Designed for new web designers who want to develop, modify, and design standards-compliant web pages using the HTML and CSS languages.

I T 121

Web Scripting 2 (4)

A second course in Web Development. Focus is on modern, responsive, and accessible web design using the latest web specifications. Students will be publishing their work on a web server. Prerequisite: IT 119.

I T 123

PC Operating Systems (5)

This course is based on the CompTIA A+ certification materials. Material covered includes operating system basics, operating system administration, security, network services, cloud computing, virtualization and troubleshooting theory.

I T 124

Computer Hardware (5)

This course is based on the CompTIA A+ certification materials. Material covered includes typical desktop computer components, storage devices, peripherals, expansion cards, display devices, custom configurations, computer networking. Prerequisite: IT 123 or IT 125.

I T 125

Linux Operating Systems (5)

This course is based on the CompTIA Linux + certification materials. Material covered includes Linux operating system basics, operating system administration, security, network configuration, virtualization and troubleshooting theory.

I T 130

IT Apps Internship (2)

Students will get hands on, full life cycle software development experience working on projects for the department and college. Projects will include web and database application design, development, maintenance and support. Prerequisite: IT 101 and IT 119.

I T 140

IT Support Internship (2)

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: IT 123 and IT 124.

I T 144

Microsoft Office for IT (5)

This course provides an introduction to Microsoft Office from the perspective of a support technician. Coverage includes installation, configuration, formatting, document structure, templates, forms, security and troubleshooting. Prerequisite: IT 123 and IT 124.

I T 150

Relational Databases (5)

Students learn the tools and processes for data modeling in Relational Database Management Systems. Topics include Structured Query Language (SQL), functional dependencies, normalization, database design methodologies and entity relationship modeling.

I T 201

Network Technology 1 (5)

This is the first course based on CompTIA Network+ certification materials. Material covered includes fundamental concepts, implementation and terminology relating to LANs, WANs, Internet-working, VLANs, Routing Basics and Wireless Networking. Prerequisite: MATH 098.

I T 202

Advanced Networking (5)

This second networking course is based on CompTIA Network+ certification materials. Material covered includes advanced concepts, implementation and terminology relating to LANs, WANs, VLANs, Routing and Wireless Networking. Prerequisite: IT 201.

I T 203

Network Security (5)

Course concentrates on materials commonly associated with Security+ certification. Coverage includes risk identification, intrusion detection, encrypted communication, firewalls and basic forensics. Prerequisite: IT 201 and IT 202.

I T 205

PHP/SQL (4)

An introduction to web application development using PHP and SQL. Coverage includes an introduction into server-side programming using PHP, SQL database design, querying, and use from PHP. Prerequisite: IT 121.

I T 213

Web Development III

Students will learn to develop applications using three-tier architecture, allowing for rich user interfaces and advanced database interactions. This course builds on previous experience in web development. Prerequisite: I T 112 and I T 212.

I T 218

Server OS 1 (5)

This is a first course on server installation, configuration and management. Coverage includes Active Directory fundamentals, DHCP, DNS, and the basics of setting up and managing a web server. Prerequisite: IT 123.

I T 219

Server OS 2 (4)

This is the second course on server installation, configuration and management. Coverage includes server content management systems, PHP, Microsoft Exchange and Office 365. Prerequisite: IT 218.

I T 220

Software Development I (5)

A course in software development strategies and tools. Students will work in teams to complete software applications. Topics include the software development life-cycle, Agile development strategies, version control systems, and issue-tracking tools. Prerequisite: I T 112 or permission.

I T 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.

I T 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: IT 224.

I T 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 driven programming, binary search trees, and priority queues. Prerequisite: IT 224 and IT 228.

I T 235

CISCO Networking (5)

Utilizing CISCO equipment and operating systems, students will gain the ability to install, operate and troubleshoot network environments. This course is based upon the skills needed to achieve a CISCO Certified Entry Networking Technician certification. Prerequisite: IT 201 and IT 202.

I T 240

Mobile Device OS (3)

This is an introductory course on mobile device operating system use and management. Course will include coverage of operating systems for currently popular devices such as Android Tablets and iPads. Prerequisite: IT 123.

I T 245

Object-Oriented Programming (4)

An intermediate level course in object-oriented programming. Course covers creating classes from requirement documents, modeling using diagrams, object-relationship analysis, object reuse and good software design. Experience with one or more computer programming languages recommended.

I T 250

Discrete Structures (4)

A programming-based course in discrete structures. Logic, set theory, counting, algorithmic efficiency, graphs and trees are presented. This course uses programming algorithms to demonstrate and explore the discrete math topics commonly used in computer programming.

I T 255

Design Patterns (4)

This course builds upon object-oriented design methodologies and introduces the concept of design patterns to solve software problems. The well-known "Gang of Four (GOF)" patterns are explored.

I T 260

Advanced Web Development (5)

Students will learn to develop applications that use three-tier architecture, allowing for rich client side user interfaces, sophisticated functionality, and advanced database interactions. This course builds on previous experience in web development.

I T 265

Mobile Applications (5)

Students will learn how to design and implement software in a mobile environment, using the device's sensors, distribution models, location awareness, and other interactive elements present in the mobile device.

I T 270

Dreamweaver (4)

Learn the Adobe Dreamweaver CC software from several perspectives, including tool usage, and use as a development environment for web and mobile applications.

I T 275

CSS Frameworks & Grids (4)

This course leads to the mastery of HTML and CSS in comprehensive and responsive design. Creation of grids, Syntactically Awesome Style Sheets (SASS) and responsive frameworks are covered.

I T 280

Advanced CSS & HTML (4)

This course expands beyond the current World Wide Web Consortium (W3C) standards of HTML and CSS into future territories. The course explores the latest in HTML and CSS and compares them with today's techniques.

I T 285

WordPress Skinning (5)

WordPress is among the most popular content management systems/bloggings systems in the world. Students learn how to "skin" a WordPress Site, providing the functionality of WordPress, but with the look and feel a customer wants.

I T 301

Application Development Fundamentals (5)

This class focuses on object-oriented programming techniques using classes, polymorphism, inheritance, abstraction and interfaces. Application design will be emphasized. Additional topics include UML diagramming architectural frameworks such as MVC. Prior basic understanding of OOP recommended.

I T 310

Adv Web Applications (5)

An advanced course in web development. This course covers the full web development stack including client side (HTML, CSS, JavaScript), server side (ASP.NET), database layer (MSSQL), using frameworks (MVC). Prerequisite: BAS-IT: AD admission or approval.

I T 320

Development Methodologies (5)

Students are introduced to formal software engineering methodologies. Various well known methodologies are covered through examination of case studies and in project work. Team development practices are emphasized. Prerequisite: BAS-IT: AD admission or approval.

I T 330

Software Engineering I (5)

An introduction course in software engineering. Software modeling using Unified markup language (UML) diagramming, systems (business) analysis, requirements gathering, analysis, and design are the focus of this course.

I T 340

Software Engineering II (5)

A second course in Application/Software Engineering. Introduces test-driven development. Coding exercises include building unit tests and application code based on the requirements documentation of a project. Prerequisite: BAS-IT: AD admission or approval.

I T 350

Advanced Database Design (5)

Class will focus on data models, entities, normalization/denormalization, SQL, stored procedures, and general design. MS SQL Server is used for the class. Includes survey of other modern database systems such as NOSQL and Postgres. Course Requisite: Admittance into BAS program or administrator approval.

I T 410

Adv. Data Access Technique (5)

This course examines utilization of advanced database systems such as NOSQL systems, dimensional cubes and hypercubes (OLAP), ODBC connections, and relational database systems for data analysis and development of data driven applications. Prerequisite: IT 350 or permission of instructor.

I T 420

Business Intelligence App (5)

Students gain practical experience and skills to develop business intelligence solutions. Students will create reports, dashboards, setup and perform statistical analysis, data mining, and classification/clustering of data using both programming and tools. Prerequisite: BAS-IT: AD admittance or permission of the instructor.

I T 430

Info Security for Developers (5)

Students will examine information system security. Students will develop protocols and controls to harden information systems, and learn how vulnerabilities in information systems can be exploited using common, easy to access tools and techniques. Prerequisite: BAS-IT: AD admittance or permission of the instructor.

I T 440

I T Internship (3)

Culminating activity requiring the application of program learning outcomes to a specific job or project. Students will work to attain learning outcomes through activities and deliverables agreed upon between the student, internship provider, and instructor. Prerequisite:

admittance into BAS program or administrator approval or co-enrolled in MGMT 460 and 45 units of BAS courses.

I T 450

Internship 2 (5)

Students enrolled in this internship will have opportunities to serve on a software development team in some capacity, gaining practical experience in the software development life cycle, stakeholder communication, collaboration, and software development. Prerequisite: BAS-IT: AD admittance or permission of the instructor.

I T 460

BAS-IT: AD Capstone (5)

Students will deliver a working software project, and all associated documentation to demonstrate mastery of the software development life cycle, and of modern software development methodologies. Prerequisite: BAS-IT: AD admittance or permission of the instructor.

Integrated English

IEL 015, 16, 17, 18

IELC Integrated Lab (1-5)

Technology lab for IELCivics. Students learn how to use computers as a tool to improve listening, speaking, reading, writing and math skills. Prerequisite: valid scaled scores from CASAS pre- or post-tests lower than 190.

IEL 025, 26, 27, 28

IELC Integrated Lab (1-5)

Technology lab for IELCivics. Students learn how to use computers as a tool to improve listening, speaking, reading, writing and math skills. Prerequisite: valid scaled scores from CASAS pre- or post-tests between 191 and 200.

IEL 035, 36, 37, 38

IELC Integrated Lab (1-5)

Technology lab for IELCivics. Students learn how to use computers as a tool to improve listening, speaking, reading, writing and math skills. Prerequisite: valid scaled scores from CASAS pre- or post-tests between 201 and 210.

IEL 045, 46, 47, 48

IELC Integrated Lab (1-5)

Technology lab for IELCivics. Students learn how to use computers as a tool to improve listening, speaking, reading, writing and math skills. Prerequisite: valid scaled scores from CASAS pre- or post-tests between 211 and 220.

IEL 052, 53, 54

Office Management 1 (EL5) (1-10)

Low-intermediate non-native English speakers improve English language, math, and technology skills through integrated instruction in Office Management. Prerequisite: valid CASAS scores between 211 and 220.

IEL 062, 63, 64

Office Management 1 (EL6) (1-10)

Low-advanced non-native speakers improve English language, math, and technology skills through integrated instruction in Office Management. Prerequisite: valid CASAS scores between 221 and 235.

IEL 072, 73, 74

Office Management 1 (L5) (10)

Transitional education students improve English language, math, and technology skills through integrated instruction in Office Management. Prerequisite: valid CASAS scores between 236-245.

Intensive English Program

IEP 070

Comprehension Language 1 (1-9)

In this Level 1 Comprehension Language Skills course, Students will develop listening and reading comprehension skills needed to succeed in subsequent liberal arts and technical/occupational courses. Prerequisite: Official Language Test score or Accuplacer score.

IEP 071

Communicative Language 1 (9)

In this Level 1 Comm Language course, students will develop speaking, grammar, and composition skills needed to succeed in subsequent liberal arts and technical/occupational courses. Prerequisite: Official Language Test score or Accuplacer score.

IEP 072

Comprehensive Language 2 (1-9)

Language skills course, students will develop listening and reading comprehension skills needed to succeed in subsequent liberal arts and technical/occupational courses. Prerequisite: Official Language Test score or Accuplacer score.

IEP 073

Communicative Language 2 (9)

In this Level 2 Comm Language course, students will develop speaking, grammar, and composition skills

needed to succeed in subsequent liberal arts and technical/occupational courses. Prerequisite: Official Language Test score or Accuplacer score.

IEP 074

Comprehension Language 3 (1-9)

In this Level 3 Comprehension Language Skills course, students will develop listening and reading comprehension skills needed to succeed in subsequent liberal arts and technical/occupational courses. Prerequisite: Official Language Test score or Accuplacer score.

IEP 075

Communicative Language 3 (9)

In this Level 3 Comm Language course, students will develop speaking, grammar, and composition skills needed to succeed in subsequent liberal arts and technical/occupational courses. Prerequisite: Official Language Test score or Accuplacer score.

IEP 076

Comprehension Language 4 (1-9)

In this Level 4 Comprehension Language Skills course, students will develop listening and reading comprehension skills needed to succeed in subsequent liberal arts and technical/occupational courses.

IEP 077

Communicative Language 4 (9)

In this Level 4 Comm Language course, students will develop speaking, grammar, and composition skills needed to succeed in subsequent liberal arts and technical/occupational courses. Prerequisite: Official Language Test score or Accuplacer score.

Journalism

JOUR 106

Introduction to News Writing I (5) (H)

Learn the difference between news writing and other types of writing. Practice writing a variety of kinds of news articles.

JOUR 107

Introduction to News Writing II (3) (H)

Start, develop and polish hard news and soft news stories. Practice gathering information from a variety of sources. Prerequisite: JOUR 106.

JOUR 111, 112, 113

Newspaper Staff I-III (1-5)

Help produce the college's online student newspaper. Editors, reporters, photographers, videographers, page designers, and advertising sales people needed. Prerequisite: JOUR 106.

JOUR 180

Issues in Mass Media (2) (AE)

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.

JOUR 208

Copy Editing and Newspaper Design (5)

Learn newspaper copy editing and page design. Edit copy for the student newspaper. Design and layout pages of the student newspaper. Prerequisite: ENGL 101, JOUR 106, 107, 111, 206.

JOUR 211, 212, 213

Newspaper Staff IV- VI (1-5)

Help produce the college's online student newspaper. Editor, reporters, photographers, videographers, page designers, and advertising sales people needed. Prerequisite: JOUR 106, 111, 112, 113.

Linguistics

LING 101

Intro to Linguistics (5) (SS)

Learn how languages take a collection of sounds and create meaning from them using many different techniques. This course studies the different levels of language composition by looking at data from many different languages.

LING 102

World Languages Survey (5) (D) (SS)

Similar to a family tree, the thousands of languages of the world are also related in complex ways. Learn how the history of human migration and culture can be seen in the world's languages.

Mathematics

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 percents, 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 for 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. Problem-solving 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.

MATH& 107

Math in Society (5) (M)

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.

MATH 118

Linear Algebra (5) (M)

Computational and modeling tools with applications in physics, mathematics, engineering, economics, and business. Topics include systems of equations, matrix algebra, vector spaces, subspaces, bases, orthogonality, transformations, and eigenvalues. Prerequisite: MATH& 142 or equivalent placement.

MATH 128

Discrete Structures (5) (M)

This class is designed to introduce mathematical concepts and applications in computer science. Topics include logic, permutations and combinations, graphs and trees, recursion, and basic modular arithmetic. Prerequisite: MATH 099 or instructor permission.

MATH& 131

Math for Elem Educ 1 (5) (M)

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 Elem Educ 2 (5) (M)

The second of two courses designed to provide the conceptual framework for teaching mathematics from kindergarten through eighth grade. Prerequisite: MATH& 131.

MATH 135

Pre-Calculus Refresher (5) (M)

Designed as a refresher course for students who have previously had a Pre-Calculus course. Content includes everything covered in MATH 141 and MATH 142. Prerequisite: High school pre-calculus equivalent or instructor approval.

MATH 140

Pre-Calc 1 Seminar (1) (AE)

Supports skill development in students registered in MATH& 141 Pre-Calculus 1. Topics covered in this course include those defined in MATH& 141 and/or any prerequisite skills needed by the student to be successful in MATH& 141. Corequisite: MATH& 141.

MATH& 141

Pre-Calculus I (5) (M)

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

Pre-Calculus II (5) (M)

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 145

Statistics Prep Seminar (1) (AE)

Refreshes and enhances the necessary prerequisite skills for a college-level statistics course. Topics include algebra for statistics, spreadsheet software skills, and probabilistic reasoning. Prerequisite: MATH 097, 099 or equivalent, or instructor permission.

MATH& 146

Introduction to Stats (5) (M)

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 097, MATH 099 or equivalent.

MATH 147

Finite Math for Business (5) (M)

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.

MATH& 148

Business Calculus (5) (M)

An introduction to calculus concepts needed for business applications. Topics discussed are limits, derivative, integrals, and partial derivatives. Business applications are stressed. Prerequisite: MATH 147 or MATH& 141 or equivalent.

MATH& 151

Calculus I (5) (M)

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 (5) (M)

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) (AE)

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) (AE)

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) (AE)

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 Math (5) (M)

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. Prerequisite: MATH& 142 or MATH 128.

MATH 245

Statistical Programming (5) (M)

Introduction to data structures and implementing procedures in statistical computing languages and spreadsheet applications. Examples may include R, Python, and Excel. Provides a foundation in computation components of data analysis. Prerequisite: MATH& 146 or equivalent, or instructor permission.

MATH 246

Intermediate Statistics (5) (M)

Continuation of MATH& 146 (Introduction to Statistics). Expands on concepts of data collection, data cleaning, descriptive statistics, and inferential statistics. Emphasis is on statistical software and applications in data science. Prerequisite: MATH 245 or instructor permission (Co-enrollment is acceptable)

MATH 264

Calculus IV (3) (AE)

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 equivalent.

MATH 315

Teaching Math (5) (M)

Provides the requisite knowledge and skills to teach K-8 students core math concepts. Current state standards for math learning will be reviewed with a focus on understanding how to teach and apply mathematical concepts.

MATH 350

Managerial Statistics (5) (M)

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: Lower division Quantitative Skills course

TMATH 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.

TMATH 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. Does not meet Quantitative Skills distribution requirement for AA degree. Prerequisite: MATH 095 or equivalent.

TMATH 110

Technical Math II (3)

Course emphasizes trigonometric functions used to solve engineering, electronics, and mechanics application problems. Prerequisite: TMATH 100.

TMATH 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 of mathematics in diesel and welding. Prerequisite: MATH 095.

TMATH 121

Electronics Math 1 (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. Prerequisite: MATH 098.

TMATH 122

Electronics Math 2 (4)

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. Prerequisite: TMATH 121.

Mechatronics

MEC 105

Industrial Computer Operations (2)

Best practices for computer operations in an industrial environment. Topics include Microsoft Windows operating system navigation, hardware maintenance and various industrial software interfaces.

MEC 116

AC/DC Electronics (4)

Basic analysis and troubleshooting of Direct and Alternating current circuits including Ohm's Law, Watt's Law, and Kirchoff's Laws; devices such as resistors, capacitors, and transformers are studied. Prerequisite: MATH 098 or equivalent.

MEC 120

Machine Tool Operation (6)

Introduction to machining operations. Emphasis on safe application of the most common machining procedures and machines used by multi-skilled industrial maintenance technicians.

MEC 151

Mechanical Systems (5)

Introduction to mechanical system components and safe operation of mechanical drive systems. Simple machines, basic drive systems, and operation of various tools will be studied.

MEC 152

Power Transmission (3)

Continuation of MEC 151, course includes study of power transmission components including bearings, brakes and gear systems. Concepts will also include vibration analysis, heat control and maintenance, and gear/cam systems. Prerequisite: MEC 151.

MEC 153

Hydraulic Systems (5)

Introduction to fluid power - hydraulics and pneumatics. Safe operation of fluid systems will be emphasized. Course covers fluid characteristics, component symbols, control valves, pumps and reservoirs.

MEC 154

Electrohydraulics (4)

Continuation of MEC 153. Fluid power transfer and electrohydraulic fluid systems. Components studied will include pipes and hoses, pressure regulators, pressure and flow sensors, and electrical control systems. Heavy emphasis on troubleshooting. Prerequisite: MEC 153

MEC 155

Preventative Maintenance (3)

Basic Preventive and predictive maintenance procedures. Topics include facility upkeep, safety monitoring and risk management, teardown and inspection techniques, and technologies used in PM procedures. Prerequisite: MEC 151.

MEC 190

Coop Work Experience (1-12)

Education through experience in an industrial automated facility. Students will learn safe work habits and proper workplace procedures and interaction strategies under the instruction of workplace supervisor. Prerequisite: instructor permission and Coop Work Experience Seminar.

MEC 220

Sensors and Instruments (5)

Examination of sensors and diagnostic tools used in industrial environments. Electrical and mechanical measurement instruments will be studied and troubleshooting steps performed to prove competency. Control systems will also be studied. Prerequisite MEC 151

MEC 250

Industrial Electronics (2)

Study of electricity in an industrial facility. Topics covered will focus on 3-phase power analysis and motion control devices including motors, motor drivers and controls. Prerequisite: MEC 116 or equivalent knowledge of AC electricity.

MEC 260

Allen Bradley PLCs (5)

Study of Allen Bradley programmable logic controllers. Input and output modules will communicate with peripheral devices such as sensors, motors, lights and relays. Heavy emphasis on ladder logic, safety, troubleshooting and efficiency.

MEC 261

Siemens PLCs (3)

Study of Siemens programmable logic controllers. Siemens SIMATIC equipment and STEP7 software will be used to construct basic PLC systems. Heavy emphasis on Siemens ladder logic, safety, troubleshooting and efficiency. Prerequisite: MEC 260.

MEC 270

Industrial Robotics (5)

Survey of robotics used in industry. Heavy emphasis on safe handling and work cell safety. Programming features include teaching points, program structure and device interfaces. Course includes Fanuc Corporation Certified Education Robot Training (CERT) Certification.

Media Studies

M ST 122

Writing the Short Film (3)

An introduction to the basics of writing the short screenplay. Co-requisite MST 261.

M ST 125

Introduction to Sports Announcing (1) (AE)

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 (1) (C)

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

Basketball Announcing (3)

Learn and apply the basic skills and knowledge required of today's basketball play-by-play and color analysis announcers. Students will announce men's and women's basketball games.

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 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)

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 Coordinator and employees arrange Cooperative Work Experience. 60-360 hour on-the-job per quarter. Prerequisite: Enrollment in a Work Experience Seminar (BTEC 191-194) is required of Co-op students. You may take the Work Experience Seminar before or in the same quarter as the Co-op course. Instructor permission required.

M ST 220

Intro to Broadcast News (5) (H)

An introduction to Broadcast News. This course includes instruction on writing, producing, and delivering news on various media outlets. Legal issues that affect the news industry will also be covered.

M ST 222

Screenwriting (5) (H)

An introduction to the theories, methods, and processes of writing a screenplay. Students will apply what they learn and complete a full-length screenplay at the end of the quarter.

M ST 225

Introduction to Telecommunications (5) (AE)

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

Intro to Radio (5) (AE)

Introduction to Radio Broadcasting. Learn about radio programming, announcing, writing copy, audio production and FCC rules and regulations that apply to radio. The history and social aspects of radio will also be covered.

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

Intro to TV & Video Production (5) (AE)

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

Introduction to Editing (5)

An introduction to editing for film and video. Basic audio and video editing will be covered during the quarter. Prerequisite: MST 260

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, 272, 273, 274

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 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

M A 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 Medical Assistant AAS. Prerequisite: MATH 096 or equivalent.

M A 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.

M A 140

Intro to Medical Assistant (5)

An introduction to the profession of the Medical Assistant in the health care setting. Designed to explore the fundamentals of the scope of practice in a lecture and lab setting.

M A 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.

M A 241

MA Clinical Procedures (6)

Overview of physical examinations, procedures, and testing that a medical assistant would assist a health care provider with in an ambulatory care setting. Prerequisite: Acceptance into a 2nd year MA.

M A 242

Medical Administration (7)

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.

M A 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: MA 242, MA 246 with a 2.5 GPA or higher.

M A 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: MA 242, MA 246 with a 2.5 GPA or higher.

M A 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: MA 242, MA 246 with a 2.5 GPA or higher.

M A 246

MA Laboratory Procedures (10)

Overview of laboratory procedures and regulations for the ambulatory health care setting, including phlebotomy training. Prerequisite: Acceptance into 2nd year MA program.

M A 249

MA Admin 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 of MA program.

Music

MUSC 100

Fundamentals of Music (5) (H)

Introduction to the elements of music theory, including scales, intervals, keys, triads, elementary ear training, notation, meter and rhythm.

MUSC 101

Music History (5) (D) (H)

An overview of music in its historical context, including both the Western Classical canon and musical traditions from Asia, Africa, the Middle East, the Pacific Islands, and the Americas. (D) (H)

MUSC& 105

Music Appreciation (5) (D) (H)

Developing an understanding of music through the study of musical elements and cultural contexts.

MUSC 118

Musical Theatre (5) (H)

The study of musical theatre, its major works, its

significance in theatre history, and role in American culture with an emphasis on production elements and the play in performance.

MUSC 124, 125, 126, 127, 128, 129

Jazz Ensemble I - VI (2) (AE)

Performing ensemble made up of students and community members. The ensemble's instrumentation is flexible, depending on availability of musicians. One evening rehearsal and one evening concert will be required. Off campus performances may be required.

MUSC 135

Beginning Guitar (2) (AE)

Presents the basic skills for reading and techniques needed to play the guitar. Intended for students with little or no background in guitar performance. Students must supply their own acoustic guitar.

MUSC 139

Music of the World (5) (D) (H)

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 Music (5) (D) (H)

This course offers students a thorough and general study of American Music from Tin Pan Alley to the first part of the 21st Century.

MUSC& 141

Music Theory I (5) (H)

A study of the building blocks of music. Emphasis on aural, written, and performance skills to include the following areas: Staff notation, scales and modes, key signatures, meters and rhythm, and melodic motives.

MUSC& 142

Music Theory II (5) (H)

A study of the workings of a variety of styles of music. Emphasis on aural, written, and performance skills to focus on the following areas: intervals, counterpoint, triads, seventh chords, Roman numerals, lead sheet symbols, cadences, and bass lines.

MUSC& 143

Music Theory III (5) (H)

A study of musical concepts, such as dominant substitutions, voice leading chords, secondary dominants, motives, and phrase structures. Prerequisite: MUSC& 142.

MUSC 144, 145, 146, 147, 148, 149

Concert Choir I - VI (2) (AE)

A vocal ensemble performing both sacred and secular music literature. Availability for up to two evening performances is required.

MUSC 150

Applied Flute (1) (AE)

This course teaches performance skills to students majoring in music. Musical literature from various style periods and composers will be selected to acquaint the student with a wide range of repertoire written for the instrument. Instructor's permission and/or audition required. Corequisite: ensemble and/or music theory.

MUSC 151

Functional Piano I (1) (AE)

Functional piano study/skill for music majors. A practical course to accompany the music theory courses. Co-requisite: Simultaneous enrollment in music theory class

MUSC 152

Functional Piano II (1) (AE)

Functional piano study/skill for music majors. A practical course to accompany the music theory courses. Prerequisite: MUSC 151 or instructor permission (audition required). Corequisite: simultaneous enrollment in music theory class.

MUSC 153

Functional Piano III (1) (AE)

Functional piano study/skill for music majors. A practical course to accompany the music theory courses. Corequisite: simultaneous enrollment in music theory class. Prerequisite: MUSC 152 or instructor permission. Audition required.

MUSC 154

Applied French Horn (1) (AE)

This course teaches performance skills to students majoring in music. Musical literature from various style periods and composers will be selected to acquaint the student with a wide range of repertoire written for the instrument. Instructor's permission and/or audition required. Corequisite: ensemble and/or music theory.

MUSC 155

Applied Trumpet (1) (AE)

This course teaches performance skills to students majoring in music. Musical literature from various style periods and composers will be selected to acquaint the

student with a wide range of repertoire written for the instrument. Instructor's permission and/or audition required. Corequisite: ensemble and/or music theory.

MUSC 156

Applied Trombone (1) (AE)

This course teaches performance skills to students majoring in music. Musical literature from various style periods and composers will be selected to acquaint the student with a wide range of repertoire written for the instrument. Instructor's permission and/or audition required. Corequisite: ensemble and/or music theory.

MUSC 157

Applied Tuba (1) (AE)

This course teaches performance skills to students majoring in music. Musical literature from various style periods and composers will be selected to acquaint the student with a wide range of repertoire written for the instrument. Instructor's permission and/or audition required. Corequisite: ensemble and/or music theory.

MUSC 158

Applied Euphonium (1) (AE)

This course teaches performance skills to students majoring in music. Musical literature from various style periods and composers will be selected to acquaint the student with a wide range of repertoire written for the instrument. Instructor's permission and/or audition required. Corequisite: ensemble and/or music theory.

MUSC 159

Applied Percussion (1) (AE)

This course teaches performance skills to students majoring in music. Musical literature from various style periods and composers will be selected to acquaint the student with a wide range of repertoire written for the instrument. Instructor's permission and/or audition required. Corequisite: ensemble and/or music theory.

MUSC 160

Applied Piano (1) (AE)

This course teaches performance skills to students majoring in music. Musical literature from various style periods and composers will be selected to acquaint the student with a wide range of repertoire written for the instrument. Instructor's permission and/or audition required. Corequisite: ensemble and/or music theory.

MUSC 161

Applied Violin (1) (AE)

This course teaches performance skills to students majoring in music. Musical literature from various style periods and composers will be selected to acquaint the student with a wide range of repertoire written for the instrument. Instructor's permission and/or audition required. Corequisite: ensemble and/or music theory.

MUSC 162

Applied Viola (1) (AE)

This course teaches performance skills to students majoring in music. Musical literature from various style periods and composers will be selected to acquaint the student with a wide range of repertoire written for the instrument. Instructor's permission and/or audition required. Corequisite: ensemble and/or music theory.

MUSC 163

Applied Cello (1) (AE)

This course teaches performance skills to students majoring in music. Musical literature from various style periods and composers will be selected to acquaint the student with a wide range of repertoire written for the instrument. Instructor's permission and/or audition required. Corequisite: ensemble and/or music theory.

MUSC 164

Applied Double Bass (1) (AE)

This course teaches performance skills to students majoring in music. Musical literature from various style periods and composers will be selected to acquaint the student with a wide range of repertoire written for the instrument. Instructor's permission and/or audition required. Corequisite: ensemble and/or music theory.

MUSC 165

Applied Guitar (1) (AE)

This course teaches performance skills to students majoring in music. Musical literature from various style periods and composers will be selected to acquaint the student with a wide range of repertoire written for the instrument. Instructor's permission and/or audition required. Corequisite: ensemble and/or music theory.

MUSC 166

Applied Saxophone (1) (AE)

This course teaches performance skills to students majoring in music. Musical literature from various style periods and composers will be selected to acquaint the student with a wide range of repertoire written for the instrument. Instructor's permission and/or audition required. Corequisite: ensemble and/or music theory.

MUSC 167

Applied Voice (1) (AE)

This course teaches performance skills to students

majoring in music. Musical literature from various style periods and composers will be selected to acquaint the student with a wide range of repertoire written for the instrument. Instructor's permission and/or audition required. Corequisite: ensemble and/or music theory.

MUSC 168

Applied Composition (1) (AE)

This course teaches composition skills to students majoring in music. Students will study musical literature from various style periods and composers and will complete works based on guidelines set out by the instructor. Instructor's permission and/or audition required. Corequisite: Ensemble and/or music theory.

MUSC 169

Applied Clarinet (1) (AE)

This course teaches performance skills to students majoring in music. Musical literature from various style periods and composers will be selected to acquaint the student with a wide range of repertoire written for the instrument. Instructor's permission and/or audition required. Corequisite: ensemble and/or music theory.

MUSC 170

Applied Oboe (1) (AE)

This course teaches performance skills to students majoring in music. Musical literature from various style periods and composers will be selected to acquaint the student with a wide range of repertoire written for the instrument. Instructor's permission and/or audition required. Corequisite: ensemble and/or music theory.

MUSC 171

Applied Bassoon (1) (AE)

This course teaches performance skills to students majoring in music. Musical literature from various style periods and composers will be selected to acquaint the student with a wide range of repertoire written for the instrument. Instructor's permission and/or audition required. Corequisite: ensemble and/or music theory.

MUSC 172

Applied Harp (1) (AE)

This course teaches performance skills to students majoring in music. Musical literature from various style periods and composers will be selected to acquaint the student with a wide range of repertoire written for the instrument. Prerequisite: ensemble and/or music theory, and instructor permission.

MUSC 175, 176, 177, 178, 179, 180

Community Band I -VI (2) (AE)

Performance ensemble consisting of students and community members. Repertoire will vary and be selected by the band director(s). The ensemble consists of band instrumentation and meets weekly for three hours.

MUSC 185, 186, 187, 188, 189, 190

Community Orchestra I – VI (2) (AE)

Performing ensemble made up of students and community members. Repertoire will vary and will be selected by the orchestra director. The ensemble consists of orchestral instrumentation and meets weekly for three hours.

MUSC 220

Applied French Horn II (1) (AE)

This course teaches second-year level performance skills to majors. Musical literature from various style periods and composers will acquaint students with a wide range of repertoire for the instrument. Instructor permission and/or audition required. Prerequisite: MUSC 154.

MUSC 221

Applied Flute II (1) (AE)

This course teaches second-year level performance skills to majors. Musical literature from various style periods and composers will acquaint students with a wide range of repertoire for the instrument. Instructor permission and/or audition required. Prerequisite: MUSC 150.

MUSC 222

Applied Trumpet II (1) (AE)

This course teaches second-year level performance skills to majors. Musical literature from various style periods and composers will acquaint students with a wide range of repertoire for the instrument. Instructor permission and/or audition required. Prerequisite: MUSC 155.

MUSC 223

Applied Trombone II (1) (AE)

This course teaches second-year level performance skills to majors. Musical literature from various style periods and composers will acquaint students with a wide range of repertoire for the instrument. Instructor permission and/or audition required. Prerequisite: MUSC 156.

MUSC 224

Applied Tuba II (1) (AE)

This course teaches second-year level performance skills to majors. Musical literature from various style periods and composers will acquaint students with a wide range of repertoire for the instrument. Instructor permission and/or audition required. Prerequisite: MUSC 157.

MUSC 225

Applied Euphonium II (1) (AE)

This course teaches second-year level performance skills to majors. Musical literature from various style periods and composers will acquaint students with a wide range of repertoire for the instrument. Instructor permission and/or audition required. Prerequisite: MUSC 158.

MUSC 226

Applied Percussion (1) (AE)

This course teaches second-year level performance skills to majors. Musical literature from various style periods and composers will acquaint students with a wide range of repertoire for the instrument. Instructor permission and/or audition required. Prerequisite: MUSC 159.

MUSC 227

Applied Piano II (1) (AE)

This course teaches second-year level performance skills to majors. Musical literature from various style periods and composers will acquaint students with a wide range of repertoire for the instrument. Instructor permission and/or audition required. Prerequisite: MUSC 160.

MUSC 228

Applied Violin II (1) (AE)

This course teaches second-year level performance skills to majors. Musical literature from various style periods and composers will acquaint students with a wide range of repertoire for the instrument. Instructor permission and/or audition required. Prerequisite: MUSC 161.

MUSC 229

Applied Viola II (1) (AE)

This course teaches second-year level performance skills to majors. Musical literature from various style periods and composers will acquaint students with a wide range of repertoire for the instrument. Instructor permission and/or audition required. Prerequisite: MUSC 162.

MUSC 230

Applied Cello II (1) (AE)

This course teaches second-year level performance skills to majors. Musical literature from various style periods and composers will acquaint students with a wide range of repertoire for the instrument. Instructor permission and/or audition required. Prerequisite: MUSC 163.

MUSC 231

Applied Double Bass II (1) (AE)

This course teaches second-year level performance skills to majors. Musical literature from various style periods and composers will acquaint students with a wide range of repertoire for the instrument. Instructor permission and/or audition required. Prerequisite: MUSC 164.

MUSC 232

Applied Guitar II (1) (AE)

This course teaches second-year level performance skills to majors. Musical literature from various style periods and composers will acquaint students with a wide range of repertoire for the instrument. Instructor permission and/or audition required. Prerequisite: MUSC 165.

MUSC 233

Applied Saxophone II (1) (AE)

This course teaches second-year level performance skills to majors. Musical literature from various style periods and composers will acquaint students with a wide range of repertoire for the instrument. Instructor permission and/or audition required. Prerequisite: MUSC 166.

MUSC 234

Applied Voice II (1) (AE)

This course teaches second-year level performance skills to majors. Musical literature from various style periods and composers will acquaint students with a wide range of repertoire for the instrument. Instructor permission and/or audition required. Prerequisite: MUSC 167.

MUSC 235

Applied Composition II (1) (AE)

This course taches second-year level performance skills to majors. Musical literature from various style periods and composers will acquaint students with a wide range of repertoire for the instrument. Instructor permission and/or audition required. Prerequisite: MUSC 168.

MUSC 236

Applied Clarinet II (1) (AE)

This course teaches second-year level performance skills to majors. Musical literature from various style periods and composers will acquaint students with a wide range of repertoire for the instrument. Instructor permission and/or audition required. Prerequisite: MUSC 169.

MUSC 237

Applied Oboe II (1) (AE)

This course teaches second-year level performance skills to majors. Musical literature from various style periods and composers will acquaint students with a wide range of repertoire for the instrument. Instructor permission and/or audition required. Prerequisite: MUSC 170.

MUSC 238

Applied Bassoon II (1) (AE)

This course teaches second-year level performance s ills to majors. Musical literature from various style periods and composers will acquaint students with a wide range of repertoire for the instrument. Instructor permission and/or audition required. Prerequisite: MUSC 171.

MUSC 239

Applied Harp II (1) (AE)

This course teaches second-year level performance skills to majors. Musical literature from various style periods and composers will acquaint students with a wide range of repertoire for the instrument. Instructor permission and/or audition required. Prerequisite: MUSC 172.

MUSC& 241

Music Theory IV (5) (H)

A study of musical concepts, such as modulation, binary and ternary forms, and contrapuntal genres, including fugues and inventions. Prerequisite: MUSC& 143

MUSC& 242

Music Theory V (5) (H)

A study of musical concepts, such as mode mixture, Neapolitan and Augmented Sixth chords, chromatic modulation, popular music and song forms, variation, Sonata and Rondo form. Prerequisite: MUSC& 241.

MUSC& 243

Music Theory VI (5) (H)

A study of musical concepts, focused on techniques and methods of the 20th and 21st century. Prerequisite: MUSC& 242

MUSC 244, 245, 246, 247, 248, 249

Performance Ensemble I - VI (1) (AE)

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 (5) (H)

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) (AE)

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) (AE)

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 276

Computer Music (3) (AE)

A course focused on the creation of music using digital software on computers and/or other electronic devices.

MUSC 281, 282, 283, 284, 285, 286

Instrumental Improvisation I- VII (2) (AE)

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 (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 (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 (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 (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 nutrition; 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. Co-requisite: RN, LPN, or nursing student or instructor permission.

NURS 200

LPN to RN Transition (2)

Explores LPN and RN roles and responsibilities. Centralia College Nursing Program philosophy, purpose, conceptual framework, and outcome criteria are reviewed. Includes orientation to clinical facilities and classroom, campus, and off-campus lab expectations. Prerequisite: Admission to RN program.

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. Prerequisites: NURS 101, NURS 102, NURS 103 & Co-requisite NURS 220 or equivalents.

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. 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, NURS 202 & NURS 220 or equivalents, concurrent NURS 222.

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, NURS 202, NURS 220 & Co-Requisite NURS 203 or equivalent.

Nursing Assistant

HLSV 100

Home Care Aide (7)

Home Care Aides provide personal care for vulnerable individuals. Upon successful completion of the DSHS-approved course, graduates are eligible for the WA state HCA competency exam. HCA's must have a favorable background check. RCW 18.130.064.

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 122

Calculation and Vocabulary of Healthcare Profess (4)

This course will use a team teaching approach to give students the basic calculations and vocabulary skills needed to enter the healthcare field including the abbreviations and formulas commonly used in the NAC profession.

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.

HLSV 132

Nurse Delegation (2)

Class for Washington caregivers who work or will work with specific populations in community-based care settings. Course covers laws pertaining to delegation and hands-on skills.

HLSV 133

Mental Health 1 (1)

Course identifies types of mental illness and common signs and symptoms. Learn capable caregiving for mental wellness. A DSHS curriculum that meets population specific training requirements.

HLSV 134

Dementia 1 (1)

Learn how dementia affects a person's body and mind. This basic understanding is the foundation on which to build skills needed to provide the best care for people with dementia.

HLSV 135

Traumatic Brain Injury (2)

Learn the basics of brain anatomy and function and how injury may affect a Traumatic Brain injury (TBI) survivor. Topics include brain injury management, understanding changes in behavior and mood, communication strategies and self-care strategies.

HLSV 160

Emergency Medical Technician (12)

Techniques of emergency medical care presently

considered as the responsibilities of a technician in his/her role. Designed to assure a uniformly high level of knowledge and skills among those involved in emergency care. Prerequisite: healthcare provider CPR, instructor permission.

HLSV 163

Emergency Medical Responder (5)

This course prepares students for certification as an Emergency Medical Responder in the State of Washington. Both lecture and practical training are used to teach important aspects of basic pre-hospital care. Prerequisite: 18 years old, affiliated with Lewis County EMS, valid driver's license.

Nutrition

NUTR& 101

Nutrition (5) (NS)

An exploration of human nutrition with an emphasis on metabolism, digestion, dietary planning and analysis, and weight control. Prerequisite: High school-level biology or chemistry.

NUTR 103

Intro Food Science w/Lab (5) (NS)

Introduction to the biology, chemistry, microbiology, ethics, history, preparation, and production of food. Includes independent laboratories and field trips.

NUTR 202

Nutritional Laboratory (1) (AE)

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 (5) (NS)

Examines the interrelationship between diet and individual lifestyles with regard to health risks during all stages of life.

Oceanography

OCEA& 101

Intro to Oceanography (5) (NS)

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.

Open Door

OD 001

Portfolio & English (1-10)

High School course in which students demonstrate English competency through student self-evaluation of prior education, previous and current employment, and life experiences-in fulfillment of one's high school diploma competencies and graduation requirements. Course requisite: acceptance into program.

OD 002

CWP, Environmental Science, English (1-10)

High School course in which students demonstrate English competency through the study of CWP's and Environmental Science in fulfillment of one's high school diploma competencies and graduation requirements. Course requisite: acceptance into program.

OD 003

Life Science & English (1-10)

High School course in which students demonstrate English competency through the study of Life Science and scientific thinking in fulfillment of one's high school diploma competencies and graduation requirements. Course requisite: acceptance into program.

OD 004

Occ Ed & English (1-10)

High School course in which students demonstrate English competency through the study of communication, occupational skills and work opportunities in fulfillment of one's high school diploma competencies and graduation requirements. Course requisite: acceptance in program.

OD 005

US Hist, Gov, FA, English (1-10)

High School course in which students demonstrate English competency through the study of US History, Government and Fine Arts in fulfillment of one's high school diploma competencies and graduation requirements. Course requisite: acceptance into program.

OD 006

WA State Hist & English (1-10)

High School course in which students demonstrate English competency through the study of Washington State History in fulfillment of one's high school diploma competencies and graduation requirements. Course requisite: acceptance into program.

OD 007

Health, Fitness & Engl (1-10)

High School course in which students demonstrate English competency through the study of the emotional, physical, and mental components of health and the development of an individual health and fitness program in fulfillment of one's high school diploma competencies and graduation requirements. Course requisite: acceptance into program.

OD 008

Algebra 1 (1-5)

High School course in Algebra 1 which students complete in fulfillment of one's high school diploma competencies and graduation requirements. Course requisite: acceptance into program.

OD 009

Algebra 2 (1-5)

High School course in Algebra 2 which students complete in fulfillment of one's high school diploma competencies and graduation requirements. Course requisite: acceptance into program.

OD 010

Geometry (1-5)

High School course in Geometry which students complete in fulfillment of one's high school diploma competencies and graduation requirements. Course requisite: acceptance into program.

OD 90

WL-SPAN 1, ART (1-5)

This is an introductory course which satisfies the Washington State Board of Education's requirements for competency in both Spanish and Fine Arts, focusing on communication skills, and how art influences and reflects culture and civilization. Students earn high school units in: World Language (1) and Art (1).

OD 91

WL-SPAN 2, ART (1-5)

A continuation of high school Spanish which satisfies the Washington State Board of Education's requirements for competency in both Spanish and Fine Arts, focusing on communication skills, and how art influences and reflects culture and civilization. Students create a notebook of language and art. The course includes four portfolio projects. Students earn high school units in: World Language (1) and Art (1).

Philosophy

PHIL& 101

Intro to Philosophy (5) (H)

Investigate the assumptions philosophers have made about reality, knowledge, truth, God, morality, social construction, freedom, and paternalism.

PHIL 103

Introduction to Ethics (5) (H)

Focus on choices made in concrete circumstances. Study traditional ethical theories and present-day moral dilemmas.

Phlebotomy

PHLE 131

Intro to Phlebotomy Tech (5)

Overview of laboratory procedures and regulations for the medical office laboratory. Prerequisite: MA 139, BIOL 170 and BIOL 172 with a 2.5 or higher.

PHLE 132

Advanced Phlebotomy (8)

Expansion of Phlebotomy skills introduced in PHLE 131. This course will offer lecture and lab sessions with emphasis on hands-on practice and dexterity for successful and safe venipuncture. Prerequisite: PHLE 131 with a 2.5 GPA or higher.

PHLE 201

Phlebotomy for Healthcare 1 (5)

Overview of laboratory procedures and regulations for the medical office laboratory. Prerequisite: Health-care provider license MA, RN, NA-C.

PHLE 202

Phlebotomy for Healthcare 2 (8)

Expansion of Phlebotomy skills introduced in PHLE 201. This course will offer lecture and lab sessions with emphasis on hands on practice and dexterity for successful and safe venipuncture. Prerequisite: PHLE 201 with a 2.5 GPA or higher and healthcare license.

Physical Education

P E 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.

P E 107

Cycling Basics (2) (HF)

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 108

Soccer Fundamentals (1)

This course will cover the basic skills and techniques of soccer. Includes team defense and team offense.

P E 109

Golf (1)

Instructions for beginners, fundamentals, rules, and etiquette. Off campus but first class will meet in MSG 115.

P E 110

Physical Fitness (1) (HF)

Study all five areas of fitness: aerobic endurance, muscle strength, muscle endurance, flexibility, and body composition. Students work at their own fitness levels.

P E 111

Fitness in the Workplace (1-2) (HF)

Course will increase cardiovascular endurance, flexibility, and increase strength. Students will develop and conduct their own personal fitness program.

P E 113

Beginning Tennis (1)

Instruction for beginners in fundamentals of the game. Rules and court etiquette. All students need their own racquet. Gold Street courts will be used. First class meets in MSG 115.

P E 115

Volleyball (1)

This course will cover the fundamental skills and techniques of beginning volleyball. Includes basic rules, scoring and strategy.

P E 120

Lifestyle Management & Exercise (2) (HF)

Designed to assist individual in making life style changes associated with health and fitness.

P E 121

Stretching & Flexibility (1) (HF)

Learn and perform safe stretches to increase flexibility and range of motion. Understand how stretching can help decrease injury, recover after other workouts and calm the mind and body.

P E 123

Basic Weight Training/Conditioning (1) (HF)

Designed to condition the musculature of the body using machine and free weights.

P E 125

Free Weights (1) (HF)

Designed to develop muscle fitness through lifting free weights, Olympic lifts, plyometrics 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.

P E 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.

P E 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.

P E 140

Boot Camp Basics (1) (HF)

A high-impact exercise class designed to improve muscle strength, endurance, flexibility and aerobic capacity.

P E 141

Elite Fitness (1)

A combination of cardio, strength, core and circuit training in athletic conditioning format. Topics of athletic durability, athletic functional training, and the typical physical adaptations will be covered throughout the quarter. Prerequisite: instructor permission.

P E 142

Cardio Conditioning (1) (HF)

A combination of current cardio experiences to improve cardiovascular endurance, body composition, muscle fitness and flexibility. A variety of movements will be

explored, including step aerobics, kickboxing, HIIT, Zumba and circuits.

P E 150

Yoga (1) (HF)

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.

P E 151

Aerobic Fitness/Walking (1) (HF)

A fitness program emphasizing aerobic activities only. Designed to develop cardiovascular endurance, flexibility and body composition.

P E 152

Pilates/Core (1) (HF)

An exercise class designed to teach breathing with movement, body mechanics, balance, coordination, spatial awareness, strength and flexibility.

P E 153

Tai Chi Basics (1) (HF)

Develop balance, lower-body strength and relaxation in motion with Wu Style Tai Chi. Students will work at their own level of fitness.

P E 158

Beginning Tae Kwon Do (2) (HF)

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.

P E 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.

P E 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.

P E 162

Softball Fundamentals (1)

A mental and physical approach to the fundamentals of fastpitch softball. An emphasis will be placed on the basic skills and concepts needed to play the game effectively.

P E 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 fastpitch.

P E 165

Softball Applications I (3)

Learn how to apply the fundamentals of softball in game like situations.

P E 166

Baseball Fundamentals (1)

On-the-field practice in development of the basic fundamentals of baseball. Emphasis on basic skills and conditioning.

P E 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 (2) (HF)

Cardiovascular endurance, muscle fitness, weight management and flexibility will be studied. One lecture hour and two hours of activity per week.

P E 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 Gym.

P E 208

Adv Soccer Fundamentals (1)

This course will review basic skills and techniques of soccer. Included in the course will be advanced skills and techniques along with game strategies, team offense and team defense. Prerequisite: PE 108 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 Gym.

P E 210

Advanced Physical Fitness (1) (HF)

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.

P E 211

Advanced Fitness in the Workplace (1-2)

Course will continue to increase cardiovascular endurance, flexibility, and increase strength. Students will develop and conduct their own advanced personal fitness program.

P E 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.

P E 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.

P E 223

Advanced Weight Training (1) (HF)

Advanced weight training methods and programs including Olympic lifting and power lifting programs. Prerequisite: PE 123.

P E 229

Physical Fitness Concepts (3) (HF)

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 E 251

Advanced Aerobic Fitness/Walking (1) (HF)

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.

P E 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 fastpitch. Prerequisite: PE 164.

P E 265

Softball Applications II (3)

Learn how to apply the advanced techniques of softball in game-like 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.

P E 267

Advanced Basketball Fundamentals (1)

More advanced skills practiced. Prerequisite: PE 167 or instructor permission.

Physics

PHYS& 110

Phys: Non-Sci Majors w/Lab (5) (NS)

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 Phys I w/Lab (5) (NS)

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 Phys II w/Lab (5) (NS)

Fluids, electrostatics, simple circuits, and the fundamental laws of thermodynamics. A continuation of PHYS& 114. Prerequisite: PHYS& 114.

PHYS& 116

General Phys III w/Lab (5) (NS)

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 (5) (NS)

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 (5) (NS)

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 (5) (NS)

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 (12) (AE)

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

Intro Political Science (5) (SS)

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 (5) (SS)

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 (5) (D) (SS)

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) (AE)

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 (5) (SS)

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 (5) (SS)

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 (5) (SS)

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.

PSYC 202

Biopsychology (5) (AE)

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) (AE)

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) (AE)

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) (AE)

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.

PSYC 250

Social Psychology (5) (AE)

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.

PSYC 320

Leadership & Org. Behavior (5) (SS)

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.

Reading

READ 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, notetaking, and test taking. Completion of course satisfies the basic skill deficiency in reading. Prerequisite: COMPASS placement (reading) 49.

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 104

Intro to Physical Science (5) (NS)

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 (5) (NS)

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.

Social Studies Teachers

SST 365

Social Studies for Teachers (5) (SS)

Explores the specific concepts and topics in social studies. Applies methods used to teach through integrated thematic units of curriculum and instruction, incorporating current research and best practices for teaching. Prerequisite: Admittance into BAS program or administrator approval.

Sociology

SOC& 101

Introduction to Sociology (5) (D) (SS)

Introduces sociology, including the theories, methods, and topics central to the discipline. Focuses on developing the ability to analyze the relationship between the individual and society. Topics relate to the components of our social world (e.g., social structure, culture, institutions); group dynamics; individuals and identity; socialization; and inequality.

SOC 125

Sociology of the Family (5) (D) (SS)

Introduces the study of family as a social institution. Examines historical and cultural variations in the institution of family and the diversity of family forms and relationships in contemporary society. Explores connections between the family and wider social forces and analyzes the functions families serve for individuals and society.

SOC 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 Coordinator and employees arrange Cooperative Work Experience. 60-360 hrs on-the-job per quarter. Prerequisite: Enrollment in a Work Experience Seminar (BTEC 191-194) is required of Co-op students. You may take the Work Experience Seminar before or in the same quarter as the Co-op course. Instructor permission required.

SOC& 201

Social Problems (5) (D) (SS)

Examines why and how certain social phenomena come to be viewed (or not) as problems. Reviews sociological research on some of the major issues occurring in our society today (e.g., those related to deviance, health, the environment, social inequality) and analyzes approaches to solving social problems.

SOC 225

Race & Ethnicity (D) (5) (SS)

Introduces the study of race and ethnicity from sociological and anthropological perspectives. Examines how race and ethnicity operate in relation to identities, interactions, institutions, cultures, and systems, with a focus on inequality and power. Focuses on race and ethnicity in the contemporary U.S., with historical and cross-cultural comparisons.

Spanish

SPAN 105

Spanish for Public Service (3) (AE)

Basic Spanish to meet the needs of working professionals who wish to communicate with Spanish speaking persons.

SPAN 106

Spanish for Social Services (3) (AE)

Basic Spanish to meet the needs of working professionals who wish to communicate with Spanish speaking persons.

SPAN 107

Spanish for Social Services (3) (AE)

Basic Spanish to meet the needs of working professionals who wish to communicate with Spanish speaking persons.

SPAN 170

Latin American Texts (D) (5) (H)

A survey course analyzing representative texts of Latin American literature in English from the pre-Columbian period to the present. Develop an understanding of the historical and cultural contexts and apply literary criticism.

SPAN& 121

Spanish I (5) (H)

First class in 100 level sequence. Learn the fundamental skills of listening comprehension, speaking, reading and writing. Develop an awareness of Spanish speaking countries and their cultures.

SPAN& 122

Spanish II (5) (H)

Second class in sequence. Learn the fundamental skills of

listening comprehension, speaking, reading and writing. Develop an awareness of Spanish speaking countries and their cultures. Prerequisite: SPAN& 121 or instructor permission.

SPAN& 123

Spanish III (5) (H)

Third class in sequence. Learn the fundamental skills of listening comprehension, speaking, reading and writing. Develop an awareness of Spanish speaking countries and their cultures. Prerequisite: SPAN& 122 or instructor permission.

SPAN 201

Heritage Spanish I (5) (H)

Introduction to academic Spanish for heritage/native speakers. Course is first sequence designed to prepare speakers for more advanced study. Areas of focus included grammar terminology, spelling, accentuation, reading, writing and discussion of cultural topics. Prerequisite: native or heritage speaker of Spanish, instructor permission required.

SPAN 202

Heritage Spanish II (5) (H)

Introduction to academic Spanish for heritage/native speakers. Course is second in sequence designed to prepare speakers for more advanced study. Areas of focus include grammar terminology, spelling, accentuation, reading, writing and discussion of cultural topics. Prerequisite: native or heritage speaker of Spanish, instructor permission required.

SPAN& 221

Spanish IV (5) (H)

Fourth class in sequence. Learn the fundamental skills of listening comprehension, speaking, reading, and writing. Develop an awareness of Spanish speaking countries and their cultures. Prerequisite: Spanish III or equivalent amount of high school Spanish.

SPAN& 222

Spanish V (5) (H)

Fifth class in sequence. Learn the fundamental skills of listening comprehension, speaking, reading, and writing. Develop an awareness of Spanish speaking countries and their cultures. Prerequisite: Spanish IV or equivalent amount of high school Spanish.

SPAN& 223

Spanish VI (5) (H)

Sixth class in sequence. Learn the fundamental skills of listening comprehension, speaking, reading, and writing. Develop an awareness of Spanish speaking countries and their cultures. Prerequisite: Spanish V or equivalent amount of high school Spanish.

SPAN 260

Latin America Field Trip I (5) (D)

Explore the culture(s) and language(s) of a specific region of Latin America through first-hand experience. Contact instructors or follow Field Trip links on anthropology or Foreign Language pages of college website for current information. Prerequisite: instructor permission.

SPAN 261

Latin America Field Trip II (5) (D)

Explore the culture(s) and language(s) of a specific region of Latin America through first-hand experience. Contact instructors or follow Field Trip links on Anthropology or Foreign Language pages of college website for current information. Prerequisite: instructor permission.

SPAN 262

Latin America Field Trip III (5) (D)

Explore the culture(s) and language(s) of a specific region of Latin America through first-hand experience. Contact instructors of follow Field Trip links on Anthropology or Foreign Language pages of college website for current information. Prerequisite: instructor permission.

SPAN 263

Latin America Field Trip IV (5) (D

Explore the culture(s) and language(s) of a specific region of Latin America through first-hand experience. Contact instructors or follow Field Trip links on Anthropology or Foreign Language pages of college website for current information. Prerequisite: instructor permission.

Speech

SPEE 101

Fundamentals of Public Speaking (3) (H)

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.

SPEE 111

Interpersonal Communication in Film (1)

Highlights concepts introduced in SPEE 110 by using films to identify a different application of the principles of interpersonal communication.

Student Development

SDEV 097

Introduction to Online Learning (0)

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.

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 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 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 side-effects. 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.

SUBSTANCE USE DISORDER PROFESSIONAL

SUDP 100

Introduction to SUDP (5)

Introduction to the field of substance use disorder counseling. Topics include theories surrounding the etiology of addiction, basic psychopharmacology, Federal and State regulations, introduction to prevention, intervention, assessment, treatment planning and case management.

SUDP 110

Counseling Techniques (4)

An overview of techniques and theoretical approaches to substance use disorder counseling. Practical training designed to develop interviewing and substance use disorder counseling skills when working with diverse populations within all levels of care. Prerequisite: SUDP 100 (2.0 of higher) or instructor permission is required for this course to count toward the Substance Use Disorder Professional degree.

SUDP 120

Substance Use & Family (4)

An examination of substance use, misuse, and dependency within the family system. Course emphasis on the integration of Family System and Substance Use Disorder approaches when working with chemically dependent families. Prerequisite: SUDP 100 (2.0 or higher) or instructor permission is required for this course to count toward the Substance Use Disorder Professional degree.

SUDP 130

Drug & Alcohol Responses (5)

Physical, psychological, and behavioral response to alcohol, drugs, and compulsive behaviors. Topics include drug classification, the neurochemistry of addiction, and an overview of basic drug kinetics to include absorption, distribution, metabolism, elimination. Prerequisite: SUDP 100 (2.0 of higher) or instructor permission is required for this course to count toward the Substance Use Disorder Professional degree.

SUDP 200

Law & Ethics (4)

Contemporary legal and ethical issues in substance use disorder 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 HIPAA. Prerequisite: SUDP 100 (2.0 of higher) or instructor permission is required for this course to count toward the Substance Use Disorder Professional degree.

SUDP 210

Cultural Diversity (3)

Designed to explore self-awareness and improve knowledge and skills of substance use disorder professionals while working with the clients from diverse cultural backgrounds. Prerequisite: SUDP 100 (2.0 of higher) or instructor permission.

SUDP 220

Counseling Adolescents (5)

An overview course covering the Bio-Psycho-Social risk and protective factors associated with adolescent substance use, misuse, and dependency. Topics: Adolescent brain development; assessment, treatment, and referral; client, family, and community education, prevention, and intervention. Prerequisite: SUDP 100 (2.0 of higher) or instructor permission.

SUDP 230

Assess & Treatment Plans (5)

Course introduces students to the current standard used in assessing, diagnosing, and treating those with substance use and co-occurring disorders. Prerequisite: SUDP 100 (2.0 of higher) or Instructor Permission.

SUDP 240

Group Counseling (5)

An introduction to group dynamics and group process, as applied to Substance Use Disorder counseling. Topics include group formation and planning, ethical considerations, diversity, group developmental stages, documentation, and group counseling approaches/techniques. Prerequisite: SUDP 100 (2.0 or higher), or instructor permission.

SUDP 250

Relapse Prevention (2)

An overview of the recovery process with an emphasis on Relapse Prevention. Topics include identifying warning signs of relapse, Post-Acute Withdrawal Syndrome, and developing effective relapse prevention strategies and techniques with the client. Prerequisite: SUDP 100 (2.0 or higher), or instructor permission.

SUDP 260

Supervised Practicum (5)

Allows the student to bridge their classroom education and training in a supervised practicum in a pre-arranged faculty approved facility for 150 supervised hours that includes a minimum of 50 face-to-face hours under direct supervision. Prerequisite: SUDP 100 (2.0 or higher), or instructor permission.

SUDP 261

SUDP Capstone (5)

This course facilitates students' preparation for working in the substance use disorder field and is designed for a student to demonstrate the application of principles and theories studied in the Substance Use Disorder Professional program. Prerequisite: completed or enrolled in final SUDP courses and instructor permission.

Industrial Trades

TRDS 100

Industrial Safety (5)

Theory and application of tools and practices as used in an industrial setting. Students will develop skills and habits as well as safety practices, procedures, and equipment. Basic firefighting equipment and procedures will be included.

TRDS 110

Mechanical Systems Lab (2)

Introduction to components and safe operation of mechanical drive systems. Machines, drive systems, and operation of various tools will be studied. Applying mechanical power transmitting devices and associated components as used in an industrial setting. Co-requisite: TRDS 120.

TRDS 120

Mechanical Systems (3)

Mathematical operations in Industrial Trades settings, as applicable to mechanical systems and thermodynamics. Lab work includes working with mechanical trainers, using industrial safety standards. Math is experienced in a hands-on environment. Prerequisite: MATH 95 or equivalent; co-requisite: TRDS 110.

TRDS 130

Fluid Systems Lab (2)

Students will engage in practical exercises that will aid understanding basic fluid systems. Safe operation of fluid systems will be emphasized. Course covers fluid characteristics, component symbols, control valves, pumps, and reservoirs. Co-requisite: TRDS 140

TRDS 140

Fluid Systems (3)

Application of mathematical operations in Industrial Trades settings, emphasizing the use of mathematics to study the engineering field of Fluids; Hydraulics and Pneumatics, as used in industry. MATH 95 or equivalent. Co-requisite: TRDS 130.

TRDS 150

Print Reading (2)

The foundation of print reading in the industrial trades. Included is print reading relative to welding, pipe-fitting, electrical, fluids, and construction.

TRDS 160

CAD for Industry (2)

Introduction to computer-aided drafting (CAD), editing, dimensioning, drawing aids, and layer control design used in the industrial trades. Prerequisite: TRDS 150 OR instructor permission.

TRDS 170

Electrical Systems Lab (2)

The exploration and application of fundamental principles of AC/DC electrical systems found on industrial systems. Prerequisite: TRDS 120, TRDS 140 or equivalent; co-requisite: TRDS 180.

TRDS 180

Electrical Systems (5)

Application of mathematical operations in relation to Industrial Trades electrical systems fundamentals, with hands-on lab work using proper tools, meters, and electrical equipment, always following industrial safety standards. Prerequisite: TRDS 100, TRDS 120, TRDS 140, or instructor permission.

Welding

WELD 151

Welding for Mechanics (5)

Introduction of cutting and welding processes. Includes information on welding equipment and material, various welding techniques and proper safety procedures. Prerequisite: DET 110 or DET 130 or instructor permission.

WELD 159

GTAW I (6)

Theory and practice of oxyacetylene welding, brazing, cutting and gas tungsten arc welding (GTAW). Safety, handling and use of compressed gases, materials, types of weld joints, and procedures will be studied. Prerequisites: WELD 164, WELD 165 and WELD 267; co-requisites: WELD 195 and WELD 259.

WELD 161

SMAW I (6)

Introduction to shielded metal arc welding (SMAW). The lab consists of safety, machine setup and operation, joint deign, and electrode selection. Co-requisite: WELD 165.

WELD 164

FCAW/GMAW I (6)

Gas metal-arc welding (GMAW) and flux-cored arc welding (FCAW) safety, setup, operation, and troubleshooting. Lab practices include butt, lap, tee, and corner joints in all positions. Prerequisite: WELD 161, WELD 165 and WELD 265. Co-requisites: WELD 175 and WELD 267.

WELD 165

SMAW Theory (2)

Theory of shielded metal arc welding. This class will cover safety, machine setup and operation, joint design, and electrode selection of the shield metal arc welding process as well as standards of certification and the certification process. Co-requisites: WELD 161 and WELD 265.

WELD 167

Metallurgy for Welders (3)

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 175

FCAW/GMAW Theory (2)

Theory of GMAW and FCAW (gas and self-shielded). This class will cover safety, machine setup and operation, joint design, and electrode selection of the GMAW and FCAW processes as well as standards of certification and the certification process. Prerequisites: WELD 161, WELD 165 and WELD 265; co-requisites: WELD 164 and WELD 267.

WELD 180

Oxyfuel & GTAW (5)

Safety, setup, brazing, cutting, and welding in all positions using oxy-fuel 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 on carbon steel.

WELD 182

Gas Metal Arc Welding (5)

Safety, setup, and welding in all positions using gas metal arc and flux cored arc welding equipment.

WELD 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 Coordinator and employees arrange Cooperative Work Experience. 60-360 hours on-the-job per quarter. Prerequisite: Enrollment in a Work Experience Seminar (BTEC 191-194) is required of Co-op students. You may take the Work Experience Seminar before or in the same quarter as the Co-op course. Instructor permission required.

WELD 195

GTAW Theory (2)

Theory of the manual processes of gas tungsten arc welding (GTAW) and oxyacetylene brazing. This class will cover safety, machine setup and operation, joint design, and electrode selection as well as standards of certification and the certification process. Prerequisite: WELD 164 and WELD 267; co-requisite: WELD 259.

WELD 259

GTAW II (6)

Advanced Gas Tungsten Arc Welding (GTAW), all position plate and pipe welding. This course prepares welders for WABO certification. Prerequisite: WELD 164 and WELD 267; corequisite: WELD 195.

WELD 265

SMAW II (6)

Practice of advanced shielded metal arc welding (SMAW) to prepare for the Washington Association of Building Officials (WABO) certification tests on plate and pipe. Co-requisite: WELD 161.

WELD 267

FCAW/GMAW II (6)

Advanced gas metal arc welding (GMAW) and flux cored arc welding (FCAW). All position plate and pipe welding. This course prepares welders for Washington Association of Building Officials (WABO) certification. Prerequisite: WELD 161 and WELD 265; co-requisites: WELD 164 and WELD 165.

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

Advanced Fabrication (11)

Blueprint interpretation, layout tools and procedures, oxy-fuel and plasma cutting, fitting, and welding fabrication projects. Prerequisite: WELD 267 with a 2.0 or higher or instructor permission.

WELD 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 (3)

Fundamentals of drawing interpretation in the welding trade. Included are blueprint reading, welding symbols, fabrication techniques, identification of welds, and welding abbreviations.

WELD 281

Advanced 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.

WELD 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.

DIRECTORY

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Doris Wood-Brumsickle (2013)

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Director of College Relations ..... Amanda Haines

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Director of Financial Aid/Student Job Center ..... Tracy Dahl
Director of Student Life & Involvement ..... Shelley Bannish
Director of TRIO Programs ..... Jason Moir, Kathleen Vodjansky-Ward, Tony Holm

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Executive Assistant to the Vice President ..... Linda Nordmann
Director of Procurement Services ..... Amanda Witt
Executive Director of Fiscal & Business Services ..... Nikki Sprague
Director of Maintenance, Construction, & Security Rick Perkins

Chief Technology Officer.....Casey Schmidt

This directory of Centralia College faculty and staff includes the year the individual began at Centralia College followed by the subject area of instruction (for faculty), college or university where a degree was earned and the field of study for the highest graduate degree earned.

Teresa Adams (2019) Associate Professor, Mathematics. B.S., Gonzaga University; M.S., Eastern Washington University.

Joy Anglesey (2022) Vice President, Human Resources and Equity.

Toby Avalos (2017), Associate Professor, Anthropology. A.A., Truckee Meadows Community College; B.A., University of Nevada; M.A., New Mexico State University; Ph.D., University of Iowa.

Erin Baker (2014) Assistant Director of Student Success and Retention. A.A., Centralia College, B.A,. Central Washington University.

Shelley Bannish (1987), Director of Student Life and Involvement. B.A., Central Washington University; Master of Arts in Community College Management, Antioch University, Ohio.

Jeanene Bauska (2021), Director of Nursing, Nursing. A.A., Lower Columbia College.

Eric Blanco (2021), Assistant Director Student Support Services. B.A. and M.A., California State University, Los Angeles.

Yanet Blanco (2022), Bilingual Multicultural Outreach Specialist. B.A., University of Southern California.

Tara Boerner (2016), Assistant Professor, Medical Assistant. A.A.S., Centralia College.

Jeremiah Boydstun (2023), Assistant Professors, Adult Basic Education.

Francis Bozzolo (2022), Assistant Professor, Biology.

Cindy Broadbent (1996), Talent Search Program Specialist. B.A., The Evergreen State College, Communications/Liberal Arts.

Carrisa Brown (2022), Assistant Director, Fiscal Services.

Monica Brummer (2017), Director, Pacific NW Center of Excellence for Clean Energy. B.S., Oregon State University.

Rachel Bryant-Anderson (2019) Assistant Professor, Sociology. B.A., Oregon State University; M.A. and Ph.D., University of California-Santa Cruz.

Bobby Burger (2020), Associate Professor, Business Administration. A.A., Community College of the Air Force; B.A. and M.B.A., California State University East Bay.

Andrew Burghardt (2021), Video and Photography Specialist. B.A., Central Washington University.

Tabitha Burkhardt (2023), Navigator, Workforce Funding.

Joe Burr (2014), Associate Professor, Adult Basic Education. B.A., The Evergreen State College; M.Ed., St. Martin's University.

Vann Cantin (1984), Assistant Professor, Computer Science. B.A., The Evergreen State College.

Mary Capen (2014), Associate Professor, Nursing. A.A. and A.A.S., Centralia College; B.S., University of Phoenix; M.S., Grand Canyon University.

Bruce Carley (2011)**,** Associate Professor, Building Maintenance.

Krys Carney (2021), MERIT Program Director, B.A., University of Washington; M.Ed., Seattle University.

Barbara Chapman (2022), MERIT Verification Specialist.

Jacob Conrad (2023), Assistant Professor, Diesel.

Jason Costi (2022), Application Developer.

Richard Cowan (2019), Assistant Professor, Construction Trades Apprenticeship Program.

Robert Cox (2014), Vice President of Student Services. A.A., Centralia College; B.A., Western Washington University; M.A. and Ed.D., Oregon State University.

Rulon Crawford (2007), Assistant Professor, Energy Technology. B.S. Eastern Oregon University; M.B.A., Marylhurst University.

Jared Cunningham (2022), Campus Safety and Security Manager. A.T.A., Centralia College; B.A., Brandman University.

Tracy Dahl (1998), Director of Financial Aid/Student Job Center. B.A. and M.A., Saint Martin's University, Education/ESA Certificate.

Geana Dobyns (2016) Program Manager, ECEAP. A.A., Centralia College; B.A., Eastern Washington University.

Abbie Duarte (2021), Upward Bound Specialist.

Annsofie Eliasson-Creek (2022), Executive Director of Research and Planning. B.A., Gonzaga University.

Kelly Erickson (2014), Associate Professor, English. B.A. and M.A., Washington State University.

Oscar Escalante (2018) Retention Specialist. A.A., Centralia College; B.A., The Evergreen State College.

Wade Fisher (1991), Professor, Media Studies. A.S., Ft. Steilacoom; B.A., University of Washington; M.B.A., City University, Marketing.

Christine Fossett (2018) Associate Vice President for Advancement. A.A., Centralia College.

Elizabeth Frey (2005), Professor, Art. B.A., The Evergreen State College; M.F.A., University of Washington.

Clifford Frederickson (2023), Interim Director of Budgets, Grants, and Contracts.

Margret Friedley (2000), Director of Worker Retraining. A.A., Pierce College; B.A., St. Martin's University.

Tina Friesz (2023), Director of Food Services.

Lisa Fritch (2022), Assistant Professor, Early Childhood Education.

Lindsey Garcia (2022), Program Manager, High School Programs.

Amaninder Gill (2022), Assistant Professor, Mechanical Engineering. B.S., Punjabi University; M.S., Washington State University; M.S., Clemson University; Ph.D., Florida Institute of Technology.

Mark Gorecki (2013), Associate Professor, Spanish. B.A. Minnesota State University, Spanish; M.A. Kansas State University, Teaching English as a Foreign Language (TEFL); M.A. Kansas State University, Spanish Literature.

Clayton Graham (2022), Assistant Professor, CC East. B.A., Western Kentucky University; M.A. and Ph.D., University of Kentucky.

Ann Grande (2018) Assistant Professor/Director of BAS-Teacher Education. B.A., St. Martin's College; M.A., Grand Canyon University.

Elizabeth Grant (2015), Dean, Corrections Education. A.A., Garrett Community College; B.S., Frostburg State University; M.S., Loyola University; Ph.D., Northcentral University.

Clarence Gunderson (2014), Talent Search Specialist. A.A., Centralia College; B.A., Eastern Washington University.

Teneal Gustafson (2015), Associate Professor, Nursing. A.S., Tacoma Community College; B.S. and M.S., Western Governors University.

Dan Hagen (2019), Associate Professor, Computer Science. B.A., University of Nevada.

Melissa Hahn (2013), Program Manager, Testing Center. B.A., University of Toronto; M.B.A., Capilano University.

Amanda Haines (2014), Director of College Relations. B.A., Marquette University.

Emily Hammargren (2011)**,** Associate Professor, Adult Basic Education. B.A., Webster University; M.Ed., Colorado State
University.

Jesse Harlan (2022), Assistant Professor, Computer Science.

Michelle Harris (2017), Associate Professor, Geosciences. B.S., Western Washington University; M.S., Central Washington University.

Charles Hegsted (2019) Associate Professor, Welding. Welding Certificate, South Puget Sound Community College; A.A., Clover Park Technical College.

Michael Hoel (2006), Director, Disability Services. RN, ATACP. B.S., Washington State University.

Anthony Holm (2012), Director of Upward Bound. B.A., Western Washington University.

Zachary Huffman (2021), Talent Search Specialist. A.A., Centralia College; B.A., University of Washington.

Kelsea Jewell (2015), Associate Professor, Biology/Nutrition. B.A., Scripps College; M.S. and Ph.D., University of Wisconsin-Lacrosse.

Carrie Johnson (1989), Associate Professor, Physical Education, A.A., Highline Community College; B.A., Western Washington University.

Sheila Johnson (2022), Student Engagement Advisor.

Kelley Jones (2022), Assistant Professor/Counselor.

Ellen Jung (2023), Assistant Professor, Biology.

Michele Kalnoski (2023), Assistant Director of Food Services.

Preston Kiekel (2013), Associate Professor, Mathematics. A.A., Los Angeles Pierce College; B.A., California State University; M.S. and Ph.D., New Mexico State University.

Emmy Kreilkamp (2016), Associate Professor, Drama. B.S., Saint Joseph's College; M.A., Kent State University; Ph.D., Indiana University.

Ceanna Larson Michalek (2023), Running Start Navigator, Women's Volleyball Coach.

Elizabeth Lazo (2016), Dean of Instruction, Career and Technical College. A.A., Centralia College; B.A., Central Washington University; M.B.A., Eastern Washington University.

Brook Leal (2023), Education Specialist.

Brian Lipp (2018) Associate Professor, Diesel Technology. B.A.S., Centralia College.

Atara MacNamara (2008), Associate Professor, Psychology. B.A., Eastern Washington University; M.S. and Ph.D., University of Utah.

Timothy Malroy (2022), Assistant Professor, Behavioral Healthcare.

Viswa Marella (2023), Institutional Research Analyst.

Jennifer Massey (2021) Education Manager. A.A., Centralia College; B.A., City University; M.Ed., Lesley University.

Sarah "Beth" May (2015), Associate Professor, Music. B.A., University of Illinois; M.A., Yale University; Ph.D., University of Texas.

Frances Mayfield (2019) Business Process Analyst. A.T.A. and B.S., Centralia College.

Mary McClain (2012), Associate Professor, Business Technology. B.B.A., Boise State University; M.B.A., Brandman University.

Michael McFadden (2022), Assistant Professor, Criminal Justice.

Jeff McQuarrie (2012), Associate Professor, English. B.A., Washington State University; M.S., Northeastern University.

Jonathan McMillan (2018), Assistant Athletic Director. A.A. and B.S., Centralia College.

Patricia Meierdiercks (2008), Associate Professor, Basic Skills. AAUCT, Skagit Valley College; B.A.E. and M.A.E., Western Washington University; Ph.D., Oregon State University.

Tionna Miller (2022), Assistant Professor, Criminal Justice.

Sharon Mitchler (1998), Professor, English. B.A., Iowa State University; M.A., Fayetteville State University, English; M.A., California State, Dominguez Hills, Humanities; Ph.D., University of Washington.

Robert Mohrbacher (2016), College President. B.A., University of Washington; M.A., George Mason University; Ph.D., Oregon State University.

Jason Moir (2005), Director of Student Success. A.A., Centralia College; B.A., The Evergreen State College.

April Morgenroth (2022), Assistant Professor, Nursing.

Julie Nurse (2013), Associate Professor/Librarian. B.S., Florida State University; M.L.I.S., North Carolina Central University.

Jessica O'Hern (2023), Assistant Professor, Business.

Annie Oien (2022), Marketing, Foundation and SWFT Center Specialist. A.A., Centralia College; B.S., Western Washington University.

Richard Perkins (2010), Director of Facilities - Construction Projects, Operations, and Maintenance. B.S., Oregon State University.

Zachary Peters (2016), Associate Professor, Welding. B.A., The Evergreen State College.

Bob Peters (1986), Director of Athletics. A.A., Centralia College; B.A., Western Washington University; M.Ed., City University, Curriculum and Instruction.

Jody Peterson (1999), Associate Professor, History. B.A., History, M.A., North Texas State University, European History; Ph.D., Washington State University, U.S. History.

Begona Poo Garcia (2012), Support Services Manager, Early Learning Programs.

Carolyn Powell (2013), ctcLink Project Director/Organizational Change Manager. B.A., University of Denver.

Tariq Qureshi (2022) Vice President, Finance and Administration. B.S. University of Houston; M.B.A., University of Dallas.

Shyla Rabe (2017) Assistant Professor, Chemical Dependency. B.S., American Military University; M.S., Grand Canyon; Ph.D., Clayton College.

Brian Rauscher (2018) Associate Professor/Counselor. B.S., College of Charleston; M.A., Lewis and Clark College; M.S., Capella University.

Tammy Remund (1983), Director of Employee Benefits and Compensation. A.A., Centralia College; B.S., City University.

Lujan Rodriguez (2022), Outreach/Customer Services Specialist.

Liliam Rodriguez Velazquez (2019) Associate Professor, Economics. B.A. and M.A., University of Puerto Rico.

Heather Scannell Ashton (2019) Program Manager, Children's Lab School. B.A., Mayville State University.

Lynn Schinnell (2007), Program Manager, Centralia College East. B.S., Iowa State University.

Casey Schmidt (2022), Chief Technology Officer. A.A., Centralia College; B.A., Florida Tech University.

Teresa Schneider (2015), ECEAP and Children's Lab School Program Director. A.A., Whatcom Community College; B.A., St. Martin's University.

Anne Schuchmann (2016), Associate Professor, Nursing. A.A., Central Texas College; B.S. and M.S., St. Martin's University.

Andrea Seabert (2018) Associate Professor/Counselor. B.S., University of Oregon; M.A., University of Washington.

Darcell Scott (2019) Dean of Student Success and Retention. B.L.A., University of Missouri; M.A., Park University.

Brent Shepherd (2022), Navigator/Esports Coordinator.

Torin Shriver (2020), Associate Professor, English Language Acquisition. A.A., Centralia College; B.A., Northern Arizona University; M.A., King's College, London.

Connie Smejkal (2006), Dean of Instructional Services. B.S., National American University; M.M., University of Phoenix.

Alexander Solomon (2014), Associate Professor, Art. B.A., Portland State University; M.F.A., Cranbrook Academy of Art.

Lorraine Speer (2014), Assistant Professor, Nursing. B.S., Eastern Washington University; B.S., Intercollege Center for Nursing Education.

Lisa Spitzer (2008), Associate Professor, Developmental Math. B.A. Central Washington University, Math

Education; M.A. Grand Canyon University, Teaching.

Emily Sprafka Coleman (2018) Associate Professor, Chemistry. B.S., Hamline University; M.S., University of Washington.

Nikki Sprague (2015) Director of Fiscal and Business Services. A.A. and B.S., Centralia College.

John Steidel (2007) Assistant Professor, Robotics. B.S., United States Merchant Marine Academy.

Syrena Stevens (2021), Program Manager, Garrett Heyns Education Center. A.T.A., Olympic College.

Kyle Sutton (2015) Assistant Professor, Librarian. B.A. and M.A., Humboldt State University; M.L.I.S., University of Washington.

Daniel Taylor (2005), Professor, Mathematics. B.A., The Evergreen State College; M.S., Lehigh University.

Liselotte Thompson (2019), Dean, Transitional Studies and Centralia College East. M.A. and Ed.D., Sam Houston State University.

Michael Threapleton (2004), Associate Professor, Physics/Math. B.S., University of Leeds, England; M.S., University of Sheffield, England.

Meredith Tummeti (2021), Assistant Professor, Librarian. B.A., California State University; M.A., University of Wisconsin.

Alexander Ushman (2023), Assistant Professor, Accounting.

Carmen VanTuyl (1997), Associate Professor, Counselor. B.S., Washington State University, M.Ed., Saint Martin's University, Education, Counseling.

Kathleen Vodjansky-Ward (1996), Director, Educational Talent Search and Upward Bound. B.A., Central Washington University; M.Ed., University of Puget Sound, Education with Counseling emphasis.

Theresa Waliezer (2009), Associate Professor, English. B.A., M.A., Washington State University.

Suzanne Weil (2004), Associate Professor, English. B.A., Swarthmore College; Ph.D., University of California, Berkeley.

Lisa Welch (2008), Financial Aid Program Specialist. A.A., Centralia College.

Alisha Williams (2015) Assistant Professor, English. A.A., Ashworth College; B.A., University of Bordeaux; M.A., University of Paris III Sorbonne Nouvelle.

Ardella Williams-Nelson (2005), Financial Aid Assistant Director. A.A., Centralia College.

Emily Wilson-Edge (2015), ECEAP Education Manager. B.A., The Evergreen State College.

Amanda Witt (2020) Director of Central Services and Purchasing. A.A., South Puget Sound Community College; B.A. and B.S., The Evergreen State College.

Kelly Worthey (2012) Director of Enrollment Services. A.A., Centralia College; B.A., The Evergreen State College.

Timothy Wright (2022) Dean of Instruction, Arts and Sciences Programs. B.A., Humboldt University; M.A., California State University, Sacramento.

Gary Yonkers (2023), Temporary Education Navigator.

Matthew Young (2019) Associate Professor, English. B.A., Oregon State University; M.A., Miami University.

Roberta Ziegler (1993), Professor, Developmental Math. B.S., California State University-Bakersfield; M.Ed., City University.