Tillamook Bay Community College

Academic Catalog

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College Information

Welcome to Tillamook Bay Community College

Welcome to the 2026–2027 academic year at Tillamook Bay Community College!

As your College President, I am pleased to welcome you to a new year of learning, growth, and opportunity. Whether you are beginning your college journey, returning to continue your goals, exploring a new career path, or building on skills you already have, we are glad you are here. You belong at TBCC, and our faculty and staff are committed to supporting you every step of the way.

This year represents an exciting new chapter for our college and our community. With the opening of our new Administration and Health Sciences Building and Center for Industrial Technologies, TBCC is better positioned than ever to serve the educational and workforce needs of Tillamook County and the North Coast. These new spaces expand opportunities in nursing, allied health, industrial technology, welding, advanced manufacturing, and other hands-on programs that prepare students for meaningful careers and continued education.

These facilities are important, but they are only part of the story. What truly makes TBCC special is our people. Our faculty, staff, and community partners work hard every day to create a welcoming, supportive, and student-centered college. From caring instruction and personalized advising to tutoring, financial aid, career guidance, and the many behind-the-scenes efforts that help students succeed, TBCC is a place where people know your name and care about your future.

At TBCC, we believe education should be accessible, practical, inclusive, and deeply connected to the community we serve. We are committed to helping students build skills, confidence, and pathways toward living-wage careers, transfer opportunities, personal growth, and long-term success. We also remain committed to creating a college environment where every student and community member feels welcomed, respected, and valued, regardless of background, circumstance, status, or affiliation.

Thank you for choosing Tillamook Bay Community College. We are honored to be part of your journey. Together, let's make 2026–2027 a year of discovery, connection, resilience, and achievement.

Learn more about TBCC's Commitment to the Community.

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Mission, Vision, Values

Mission

TBCC serves our diverse community equitably through educational excellence, community collaboration, and opportunities for lifelong learning.

Vision

TBCC is the educational center of our community: responsive, innovative, empowering, and invested in the progress of all.

Values

Relationship-Oriented

We prioritize relationships and partnerships that strengthen our community.

Innovative

We are continually evolving to meet the changing needs of our community with responsive and relevant solutions.

Student-Centered

We provide our students with the individualized support they need to achieve their unique goals.

Equitable

We are committed to tackling systemic inequities and building an accessible and inclusive environment.

Scholarly Excellence

We protect and promote an environment in which we explore, question, learn, and master both academic and skills-based knowledge.

While every effort is made to ensure accuracy of the information in this catalog, Tillamook Bay Community College has the right to make changes at any time without prior notice. This catalog is not a contract between TBCC and any current or prospective student. Some policies and procedures are subject to change.

Academic Calendar

2026-2027 Academic Calendar

Summer Term

Event	Date
Registration Opens	5/18/2026
Closed - Juneteenth Holiday	6/19/2026
Last Day to Register	6/21/2026
Term Begins	6/22/2026
Last Day to Drop/Payment Due	6/26/2026
Closed - July 4th	7/4/2026
College Closed	7/3, 7/10, 7/17, 7/24, 7/31, 8/7, 8/14, 8/21, 8/28
10 Week Finals	8/24-8/28/2026
10 Week End Date	8/29/2026
Closed - Labor Day	9/7/2026

Fall Term

Event	Date
Registration Open	5/18/2026
Last Day to Register	9/20/2026
Term Begis	9/21/2026
Last Day to Drop/Payment Due	9/25/2026
Closed - Veteran's Day	11/11/2026
Last Day to Withdraw	11/13/2026

Event	Date
Closed - Thanksgiving Holiday	11/26-11/27/2026
Finals Week	11/30-12/4/2026
Term Ends	12/5/2026
College Closed	12/21-12/25/2026, 1/1/2027

Winter Term

Event	Date
Registration Opens	11/16/2026
Last Day to Register	1/3/2027
Term Begins	1/4/2027
Last Day to Drop/Payment Due	1/8/2027
Closed - MLK Holiday	1/18/2027
Last Day to Withdraw	2/26/2027
Finals Week	3/15-3/19/2027
Term Ends	3/20/2027
Spring Break	3/22-3/26/2027

Spring Term

Event	Date
Registration Opens	2/15/2027
Last Day to Register	3/28/2027
Term Begins	3/29/2027
Last Day to Drop/Payment Due	4/2/2027
Summer & Fall Registration Opens	5/17/2027
Last Day to Withdraw	5/21/2027
Closed - Memorial Day	5/31/2027
Finals Week	6/7-6/11/2027
Commencement	6/11/2027
Term Ends	6/12/2027

Campus Safety & Security

Public Notice of Non-Discrimination

Tillamook Bay Community College Board of Education Notice of Non-Discrimination

Tillamook Bay Community College does not discriminate on the basis of race, color, national origin, disability, sex, age, religion, height/weight ratio, marital status, gender, gender identity, sexual orientation, organizational affiliation, political affiliation, or protected veterans status with regard to employment, admissions, access to education programs, or activities as set forth in compliance with federal and state statutes and regulations.

Any persons having inquiries concerning Title II or Title VI may contact: TBCC Human Resources; 4301 Third Street, Tillamook, Oregon, Phone (503) 842-8222, ext. 1021.

Any persons having inquiries concerning Title IX may contact: Britta Lawrence, Executive Director of Advancement and TBCC Foundation; 4301 Third Street, Tillamook, Oregon, Phone (503) 842-8222, ext. 1026.

Any persons having inquiries concerning Title IV or Section 504 may contact: Rhoda Hanson, Vice President of Student Services; 4301 Third Street, Tillamook, Oregon, Phone (503) 842-8222, ext. 1110.

Equal Opportunity
TBCC subscribes to the terms of Title VII of the Civil Rights Act of 1964, as amended, 42 U.S.C. 2000d et seq., Title IX of the Education Amendments of 1972, as amended, 20 U.S.C. 1681 et seq., and Section 504 of the Rehabilitation Act of 1973, as amended, 29 U.S.C 794, as well as laws of the State of Oregon pertaining to affirmative action. Equal employment opportunity and treatment shall be provided in hiring, retention, transfer, promotion, and training of all employees, regardless of race, religion, color, national origin, disability, sex, sexual orientation, age, height/weight ratio, marital status, gender, gender identity, organizational affiliation, political affiliation or protected status. Equal opportunity in hiring and advancement considerations will be based on positive organization needs, and the individual's qualifications for and/or performance of specific duties.

Continuous effort will be devoted to the improvement of human relationships and to elimination of conditions from which discrimination results. For additional information on TBCC's commitments to safety and equality, please visit the Consumer Information Section of this catalog.

Accreditation
TBCC is proud to be accredited by the Northwest Commission on Colleges and Universities. Accreditation of an institution of higher education by the Northwest Commission on Colleges and Universities indicates that it meets or exceeds criteria for assessment of institutional quality evaluated through a peer review process. An accredited college or university is one which has available the necessary resources to achieve its stated purposes through appropriate educational programs, is substantially doing so, and gives reasonable evidence that it will continue to do so in the foreseeable future. Institutional integrity is also addressed through accreditation.

Accreditation by the Northwest Commission on Colleges and Universities is not partial but applies to the institution as a whole. As such, it is not a guarantee of every course or program offered, or the competence of individual graduates. Rather, it provides reasonable assurance about the quality of opportunities available to students who attend the institution.

Inquiries regarding an institution's accredited status by the Northwest Commission on Colleges and Universities should be directed to the administrative staff of the institution. Individuals may also contact:

Northwest Commission on Colleges and Universities
8060 165th Avenue N.E., Suite 100, Redmond, WA 98052
(425) 558-4224 • www.nwccu.org

Admissions, Registration and Academic Records

Getting Started: Admissions and Application

Welcome to TBCC
Tillamook Bay Community College has an **open admissions policy**, meaning anyone may enroll. We welcome students from all backgrounds and are here to help you be successful.

- **Eligibility:** A high school diploma or GED is not required for entry, but is necessary for federal and state financial aid.
- **Preparation:** Enrollment in degree or certificate programs is open to students who provide evidence of suitable preparation for college-level coursework.

Step 1: Apply for Admission
Choose the application that best fits your current status:

- **Undergraduate Application:** For first-time TBCC students or those returning to college to seek a degree.
- **Non-Degree Seeking Application:** For students taking credit courses but not pursuing a full degree.
- **High School/Home School Application:** For current high school students enrolling in "College Now" or home-schooled students.
- **Non-Credit Application:** For Community & Continuing Education, GED prep, ESOL, or classes taken for personal interest.

Start your application now!

Step 2: Meet With an Advisor
If you are applying as a first-time TBCC student, you will need to meet with one of our academic advisors before

registration. During this meeting, you and your advisor will work together to make sure you take the right classes to meet your educational and career goals.

Contact an Advisor

Step 3: Orientation & Registration

First-time college students are required to attend an orientation before registering for courses. During this orientation, you will become familiar with our online learning system, hear about all the free software you can access, and learn how to register for classes online. You will leave orientation with a copy of your schedule and all the tools you need to be successful!

Important Enrollment Information
Enrollment Levels

Status	Credits Per Term
Full-Time	12+ credits
Three-Quarter-Time	9–11 credits
Half-Time	6–8 credits
Less Than Half-Time	5 credits or below

Managing Your Schedule

- **Dropping a Course:** If you drop by the published deadline (usually the first week), there are no charges and the course does not appear on your transcript.
- **Official Withdrawal:** If you leave a course after the drop deadline but before the end of **Week 8**, you will receive a grade of **"W"** on your transcript. This must be done via an official withdrawal form.
- **Financial Impact:** If you receive financial aid or veterans' benefits, you **must** notify those offices before withdrawing, as your funding may be impacted.

Underage Enrollment

Students under 18 who have not graduated must have a parent complete the *High School and TBCC Concurrent Enrollment* form. Students 15 or younger must submit an *Underage Student Enrollment Agreement* and meet with a Success Coach and their parents.

Registering for Courses

Registration Into Courses

Each term TBCC publishes a Schedule of Classes. The Schedule of Classes is located on the TBCC website and printed versions are available at the college and mailed to all residential addresses in the county. To support you in your success, and to make sure that students are adequately prepared to begin classes at the beginning of the term, TBCC has a no late registration policy. This means that registration for credit classes must be completed before the start of each term. Students are not permitted to attend classes unless they are registered in the course.

Online Registration

- Go to https://tillamookbaycc.edu and click on MyTBCC under the 'Students' tab.
- Login by entering your username and password which was emailed to the personal email you provided when applying for admission. If you don't know your username , contact Student Services, if you don't know your password, contact IT at ext 1610, or 1620.
- Click on the *Add/Drop Courses* link.
- Click on Course Search to open the search box for courses offered in the desired term.
- Add a course by checking the ADD checkbox in the left-hand column.
- Scroll down to see and click the ADD COURSES button to add all selected courses.
- Be sure to complete your registration before the start of each term.
- If you encounter difficulties please check with Student Services at 503-842-8222 ext. 1100.

Grading & Academic Standing

Grade Guidelines

TBCC Policy No. 431

The traditional grading system uses "A," "B," "C," "D," "F," "P", "NP," and "I" as defined under Grade Definitions. A change to the student's enrollment option is available at any time before the published deadlines for the quarter by completing the approved process. The Faculty Curriculum Committee specifies grading options for courses, degrees and certificates. Transfer students should be aware that four-year institutions limit the number of pass/no pass credits that may be applied to a degree and frequently recalculate the student's grade point average by weighing each "P" as if it were a "C" or "D," and each "NP" as if it were an "F" from the traditional enrollment option.

Grade Definitions:

A Superior. Honor grade indicating excellence. Earned as a result of a combination of some or all of the following as outlined by the Faculty in the course syllabus: superior examination scores, consistently accurate and prompt completion of assignments, ability to deal resourcefully with abstract ideas, and/or superior mastery of pertinent skills. Additional considerations include probable success in a field relating to the subject and/or probable continued success in

subsequent courses.

B Above average. Honor grade indicating competence. Earned as a result of a combination of some or all of the following as outlined by the Faculty in the course syllabus: high examination scores, accurate and prompt completion of assignments, ability to deal well with abstract ideas, commendable mastery of pertinent skills. Additional considerations include probable continued success in subsequent courses.

C Average. Standard college grade indicating successful performance earned as a result of a combination of some or all of the following as outlined by the Faculty in the course syllabus: satisfactory examination scores, generally accurate and prompt completion of assignments, ability to deal with abstract ideas, fair mastery of pertinent skills. Additional considerations include sufficient evidence of ability to succeed in subsequent courses.

D Substandard but receiving credit. Substandard grade indicating the Student has met only minimum requirements as outlined by the Faculty in the course syllabus. Earned as a result of some or all of the following: low examination scores, generally inaccurate, incomplete or late assignments, inadequate grasp of abstract ideas, barely acceptable mastery of pertinent skills, insufficient evidence of ability to succeed in subsequent courses. Does not satisfy requirements for entry into courses where prerequisites are specified.

F Failure. Non-passing grade indicating failure to meet minimum requirements as defined by the Faculty in the course syllabus. Earned as a result of some or all of the following: non-passing examination scores, inaccurate, incomplete or late assignments, failure to cope with abstract ideas, inadequate mastery of pertinent skills. Does not satisfy requirements for entry into courses where prerequisites are specified. Faculty must record the last date attended for students who earn an “F.”

P Pass. Acceptable performance. A grade of “P” represents satisfactory achievement which would have been graded “C” or better on the traditional grading scale. The “P” grade is disregarded in the computation of Tillamook Bay Community College grade point average. This grade is available only when a student has selected the pass/no pass option prior to the published drop or withdrawal deadlines for the quarter.

NP No Pass. Unacceptable performance. A grade of “NP” represents unsatisfactory achievement which would have been graded “D” or lower under the traditional grading system. The “NP” grade is disregarded in the computation of the grade point average. Faculty must record the last date attended for students who earn an “NP.” This grade is available only when a student has selected the pass/no pass option prior to the published drop or withdrawal deadlines for the quarter.

SC Satisfactory completion. Mark used when a student satisfactorily completes continuing education units (CEUs).

NSC Not satisfactory completion. Mark used when a student does not satisfactorily complete continuing education units (CEUs).

I Incomplete. At the time the final course grades are recorded, the Faculty may, with the consent of the student; record an “I” mark and grant additional time for the completion of a minor but essential requirement for the student who is otherwise making satisfactory progress. If no replacement grade for an “I” mark is provided within three complete terms, the “I” mark will automatically be changed to an “F” or “NP” (depending on the grade option chosen by the student). This mark does not entitle a student to repeat a course without paying tuition. In order to qualify for the “I” grade, a student must have completed a significant portion of the course and have explicit instructor permission. If an “I” grade is awarded, it will follow the process outlined in Administrative Rule D 15. Dual credit classes are not eligible for “I” grades.

W Withdrawal. This mark is to be used only by Student Services when the student has completed the official withdraw process prior to the published drop or withdrawal deadlines for the quarter.

CIPR Course in Progress, Re-Register. A mark used only for designated classes. This may include courses in modular or self-paced programs. This mark may also be used in a skills based course to indicate that the student has not attained the skills required to advance to the next level. If the course is not completed within a year, the “CIPR” changes to an “AUD” (Audit) on the transcript unless the course was repeated and a grade earned.

CIP Course in Progress. A mark used only for designated classes in modular or self-paced programs that do not conform to the normal academic calendar. If the course is not completed within a year, the “CIP” changes to an “F” or “NP” (based on the student’s prior enrollment option choice) on the transcript unless the course was repeated and a grade earned. A student does not need to re-register for the course.

AUD Audit. This mark may be used only by Student Services. The "AUD" mark, when allowed, permits a student to attend a course without receiving a grade or credit for the course even though tuition and fees must be paid. To be assigned an "AUD" mark, a student must obtain permission from the Faculty and notify Student Services prior to the published drop deadlines. The Faculty Curriculum Committee may specify whether this mark is available for each course. The "AUD" mark does not satisfy requirements for entry into courses where prerequisites are specified.

NS No Show. This mark may be assigned by Faculty during the first week of the quarter to indicate that a student has never attended class. These students will be dropped by Student Services. If Faculty fail to assign an NS mark to students who never attend class, and if those students fail to drop or withdraw before the published deadlines, a grade of F or NP will be assigned according to the enrollment option they selected at registration.

R Repeated. This mark may only be used by Student Services. See "Repeated Courses." All grades earned will appear on the transcript. The highest grade earned for a course will be calculated into the GPA; all other grades earned for that course will be excluded from the GPA. If a course can be taken more than once for credit, the oldest grade for that course will be excluded only when the repeat limit is exceeded.

A student's grade point average is calculated in the following way:

The point value for a grade is multiplied by the number of credit hours earned for that course. Total grade point values are divided by the total number of credit hours taken by the student.

Grades of "P" and "NP" and marks of "SC," "NSC," "I," "W," "X" (no longer available for use), "CIP," "CIPR," "R," "NS," and "AUD" are disregarded in the computation of the grade point average.

Grade Policies

Repeated Courses
TBCC Policy No. 432

Faculty must specify in writing, as part of the syllabus, the specific grading policies for the class. Grading is the prerogative and responsibility of the faculty. Faculty are responsible for the assignment of the final course grade. The assigned grade must reflect the performance of the student in the course commensurate with the content and objectives of the course. If a student questions his or her grade, the faculty has a responsibility to discuss the matter with the student. If the faculty cannot satisfactorily resolve the matter, the student must be advised of the grievance procedures.

Should a grievance be filed, the faculty will provide assistance as necessary to process the grievance. Graded examinations, papers, and other sources of evaluation are to be available to the student for inspection and discussion. If the faculty chooses ultimately to retain these materials, they must be kept for a period of one year. If graded materials become the property of the student, then uncollected materials must be kept for one term. Adjunct faculty should arrange for storage with the department in their absence. The grade records will be retained for at least one year to provide the opportunity for review and resolution of grade disputes. In the event that — through the student grievance procedure — a grade change is indicated, the change can be initiated only by the faculty, the Vice President of Instruction and Student Services, or College President as appropriate to the grievance procedure and organizational structure of the college. In the event the faculty is no longer employed by the college, grade changes can be made by the Vice President of Instruction and Student Services providing there is sufficient evidence to make a change and that the faculty is not readily available for consultation.

Adding or Dropping a Course
TBCC Policy No. 436

Prior to the published drop deadlines, students shall be able to drop any registered class by completing the official drop process. Such action by the Student shall result in no charges for the course or courses (or reimbursement if charges have already been paid); the course shall be removed from the transcript.

Students shall be able to withdraw from any registered class by completing the official withdraw process before the published withdraw deadline. This action shall result in a mark of "W" appearing for the course or courses on the transcript. Students must withdraw before the published withdraw deadline, before the end of week eight of the term, or a grade will be assigned by the Faculty.

All students are encouraged to work with, and talk with, their faculty member prior to dropping and/or withdrawing. Students are required to submit the college withdraw form in order to be removed from the class roster.

Special Circumstances
TBCC Policy No. 437

Tillamook Bay Community College (TBCC) reserves the right to establish procedures for unusual circumstances. Such procedures may be, but not limited to, the following;

1. Experimental Courses
   All programs are authorized to offer experimental Special Topics Courses for the purpose of introducing new materials on a trial basis. The following designations shall be used:
   XX 199X or XX 299X, Course Title (e.g., ART 299B History of Photography)

   Experimental courses shall be approved by the appropriate Faculty Curriculum Committee, and/or the Vice President of Instruction and Student Services. A course outline, including the course description and learning outcomes, must be filed with the Office of Instruction, but no other approvals will be required.

   Experimental Courses shall be offered a maximum of two terms, after which the course material must be offered in a conventionally numbered course having the normal course approval. Except as provided in the "Granting Degrees and Certificates Policy," degree and certificate candidates shall be limited to 9 credits of 199-299 Experimental Courses.

2. Student Enrollment in Concurrent and/or Overlapping Courses
   Students may not enroll in concurrent or overlapping courses. Exceptions may be granted only after approval by the Vice President of Instruction and Student Services.

3. Student Overload
   Students are allowed to enroll in a maximum of 19 credits hours. Special permission must be obtained from the Vice President of Instruction and Student Services or designee to increase registration above 19 credit hours.

4. Course Substitutions
   Students have the right to petition for the following:
   1. Waiver of comprehensive degree and/or certificate requirements
   2. Substitution of course work to meet the General Education requirements
   3. Substitution of course work to meet degree and/or certificate requirements
   4. Awarding of non-traditional credit

   Substitution of course work to meet General Education requirements or waivers of comprehensive degree and/or certificate requirements shall be approved/disapproved by the Vice President of Instruction and Student Services or a designee. For substitutions of course work to meet degree and/or certificate requirements, and/or for awarding of non-traditional credit, the campus designee shall approve/disapprove petitions in accordance with guidelines established by the Faculty Curriculum Committee. No student can graduate for less than the required number of credits. Credit can be given for equal course work, but it cannot be waived entirely.

5. Independent Study
   Independent Studies are allowed in rare and unusual circumstances (e.g. a course is needed for graduation and/or the course is guaranteed on a student's degree map and there is insufficient enrollment to run the course as a normal section). In these circumstances an Independent Study Application will be completed and submitted for approval to the Vice President of Instruction and Student Services. The course must run during a regularly scheduled term and include a written plan for course expectations and meeting the course learning outcomes.

6. Student Membership on College Committees
   Student input on college committees is valuable for the student, staff and community. Committee work provides a learning experience for students as well as an opportunity to be an active participant in the policy-making and environment shaping of the college community. Policies have a major impact on Tillamook Bay Community College's mission to recruit and retain students, and student input provides staff with the viewpoint of the individuals we are hired to serve. It also provides employees the opportunity, as educators, to mentor and pass on "lab experience" in group process, communication, decision-making and other life-long skills. Committees are an integral part of the Tillamook Bay Community College's policy- making process; therefore, Tillamook Bay Community College committees that recommend, formulate, or review student affairs policy shall include student membership. College Council will always ask for a student member.

7. Student Identity
   TBCC reserves, and exercises, the right to verify student identity, particularly students who enroll, register and complete courses at a distance.

Honors
TBCC Policy No. D 435

Honors

The college will recognize academic excellence in students pursuing a declared major, who have earned a 3.5 or higher GPA on a minimum of 12 graded credits (excluding pass/no pass), in a given term and is making Satisfactory Academic Progress as defined by the college.

Term Honors

- Honors List: 3.5 – 3.74
- Highest Honors: 3.75 – 4.00

Graduation Honors

- Cum laude: 3.50 – 3.74
- Magna cum laude: 3.75 – 3.89
- Summa cum laude: 3.90 – 4.0

Graduation honors are noted on the student transcript, and students will receive a gold honors cord to wear at graduation.

Satisfactory Academic Progress
TBCC Policy No. D 433

Tillamook Bay Community College students who are not making satisfactory academic progress will be provided the opportunity to access services and resources designed to support learning and achievement of academic goals. Individuals not making satisfactory academic progress, as defined in this policy, may be denied continued admission. Students have the right to appeal this sanction following the college procedure.

Currently enrolled students pursuing a degree or certificate must maintain Satisfactory Academic Progress in the following two ways:

1. Maintain a cumulative Grade Point Average (GPA) of 2.0 or higher AND
2. Successfully complete 2/3 (66.67%) of attempted credits per term

Students will be classified in one of the following levels of academic standing, based on their academic progress:

- Good standing
- Academic probation or continued probation
- Academic suspension

Students failing to achieve Satisfactory Academic Progress shall be alerted by the college and provided information regarding resources, as well as procedures designed to support improved academic performance.

Not Meeting Satisfactory Academic Progress

Students who fail to maintain Satisfactory Academic Progress (SAP) shall be assisted by the college to return to Good Academic Standing. Unsatisfactory Academic Progress stages are as follows:

1. **Alert** – Student's cumulative GPA dropped below a 2.0, and/ or student did not complete two-thirds (66.67%) of all attempted credits in a term. Students are strongly encouraged to seek assistance to improve their GPA or completion of courses. Enrollment in courses is available while in the Alert stage.
2. **Probation** – Student's cumulative GPA is below 2.0 and/ or the student did not complete two-thirds (66.67%) of all attempted credit for a second term. The student is in Probation status. He/she will not be allowed to register until an appeal has been completed and the appeal has been approved.
3. **Probation – Probation with Academic Plan** – A student who successfully appeals his/her SAP status will be placed on Probation status for one term. At the end of the Probation term, the student's academic standing and progress will be evaluated. If the student has a cumulative GPA of 2.0 or higher and has satisfactorily completed enough credits to complete two-thirds of his/her courses, Good Standing will be re-established for the student.
4. **Suspension –** Student did not meet SAP standards while in Warning or Probation status. Student is not eligible to register for courses while Suspension. A student may appeal the suspension status by developing a career education plan and appeal, which will be reviewed by the Vice President of Instruction and Student Services or the Associate Vice President of Student Services. Suspension status is removed by approval of the Vice President of Academic and Student Services or the Associate Vice President of Student Services. If no career education plan and suspension appeal is filed or if the appeal is denied, the student will only be allowed to enroll at TBCC after at least one year's suspension and with the completion of the suspension appeal process.

Graduation & Transcripts

Graduation & Transcripts

Graduation Requirements

To earn an associate degree or certificate, students must meet the requirements of the catalog edition current at the time of their first credit at TBCC.

- **Catalog Continuity:** You must earn at least one TBCC credit each academic year to maintain the right to your

original catalog. If enrollment is not consecutive, you must meet the requirements of the most current catalog.
- **Catalog Validity:** An edition of the TBCC catalog is valid for six academic years.
- **Institutional Awarding:** TBCC automatically grants degrees and certificates once requirements for your recorded program of study are met. You may opt-out of an institutional award by contacting Student Services.

Commencement & Diplomas
- **Commencement:** A formal ceremony is held at the end of the spring term. All students graduating within the current academic year are eligible to participate if they apply by the deadline.
- **Diplomas:** Diplomas are mailed to your address of record eight to ten weeks after the award date.
- **Financial Hold:** All college debts must be cleared before a degree or certificate will be officially awarded.

Transcripts

Official transcripts include the college seal and Registrar's signature.

- **Ordering:** Request official transcripts online at or in person at Student Services.
- **Submission:** Most institutions require transcripts to remain in the original sealed envelope or be sent via secure electronic exchange to be considered "official."

Non-Traditional Credit

TBCC awards credit for learning and experience gained outside of the traditional academic setting.

Credit Type	Description	Best For...
Cooperative Education	Internships, clinicals, and work experience defined in the catalog.	Hands-on experience in your field of study.
Credit by Exam	Standardized testing such as AP, IB, or CLEP/DPTTS.	Students with high scores on national proficiency exams.
Credit for Prior Learning (CPL)	Faculty assessment of your professional documents, tests, or portfolios.	Professionals with significant work history or certifications.

Important Notes on Credit for Prior Learning (CPL):

- **Not Graded:** CPL is an assessment of documentation and is not a graded process. If you need a letter grade, you should take the course or use Credit by Exam.
- **Transferability:** CPL is noted on your transcript. If you plan to transfer, check with your future university to see if they accept CPL credits.
- **Standard:** Credit is awarded course-by-course for college-level learning that balances theory and practical application.

Student Resources & Support

Success Coach Advising

Success Coach Advising

The **Success Coaches** at TBCC want students to take a proactive approach to their education. While we are here to help, we also want students to take ownership of their degree plan. Some of the things that students can do to accomplish this include:

- Review your degree plan after each term.
- Be involved in the career advising process.
- Actively pursue an educational plan directed toward completion of a degree or certificate at TBCC.

Find Your Passion!

Deciding what to study can be tough. Sometimes you know the field you want to work in. Other times you may only know that you want to work with people, outside in nature, or even that you enjoy math. Our advising team's goal is to help you get on a path to success!

More questions? We can help! Meeting with a Success Coach is a great way to help you explore programs and determine what's best for you. Completing a Career Assessment with your Success Coach is a first step to help you find what is of interest to you. 503-842-8222

Accessibility & Accommodations

Students with Accessibility Needs

Tillamook Bay Community College's student services staff collaborate with students, staff, faculty, and community members to create inclusive, equitable, diverse, and sustainable learning environments for all. Tillamook Bay Community College provides a wide range of in-class and campus access services to students who experience

documented disabilities. The department is a resource for creative problem-solving to enhance access in the areas of admission/registration assistance, advising, and advocacy accommodations for classes, including:

- Test accommodations (extended time, reduced distraction, reader, scribe)
- Alternate format (computer text with digital audio, Braille)
- Technology (computer software and hardware and other devices)

Application Process

The TBCC Accessibility office works closely with students to learn about their particular needs. TBCC's goal is to provide students with resources, accommodations, strategies and support to improve access to the learning environment.

Students requesting accommodations are required to submit an application and accompanying documentation which confirms the accessibility needs and then schedule a student-intake appointment with the accessibility staff to discuss possible accommodations.

Use the following checklist to guide the process:

1. Complete a Disabilities Intake form Accessibility **Services Intake (pdf)**
2. Complete and save the form electronically or complete a hard copy of the form, and mail or submit it directly to the Student Services Office. If you would like assistance completing the form, contact accommodations office or your Success Coach.
3. Submit appropriate disability documentation which describes how your disability affects you in the learning environment. This may include any and/or all of the following:
    - Copies of medical record
    - Evaluations or diagnostic reports by a qualified professional
    - A copy of a high school IEP document that includes assessments completed within the previous three years.
4. Make copies of all documents for your records. Submit all forms to Tillamook Bay Community College, Student Services, 4301 Third Street, Tillamook, OR 97141, or email to: accomodations@mail.tillamookbaycc.edu.

Students are responsible for initiating the accommodation request process. These steps should begin immediately after registration for classes and before the term begins. Schedule an appointment to discuss specific needs and to request accommodations prior to each term. Accessibility services is available through the Student Services Office at (503) 842-8222 ext. 1100.

Documentation Requirements

- All documentation must be administered within the last three years
- All documentation must be on file before services are provided
- Any statement(s) submitted from a qualified professional regarding the disability, must be typed on the professional's letterhead, identify the professional's title / credentials and signed accordingly
- All students must be registered for classes before services are provided
- All documentation requires the physician or other qualified professional to provide the following:
    - Clear statement of diagnosis;
    - Symptoms the student displays which meet criteria for the diagnosis;
    - Status of the student's condition (static or changing);
    - Summary of assessment procedures;
    - Academic impact of the disability on the student; and
    - Suggested reasonable accommodations which are supported by the diagnosis

Accommodations (not special education) are provided so students with accessibility needs can access and participate in the educational programs or courses attended by other students. Specialized **(individualized)** instruction is not provided. A phone equipped with a TTY (for hearing/ speech impairments) is available (503) 842-2467.

Confidentiality

Information about your disability is considered a highly confidential part of your educational records which is protected by federal law (Federal Family Education Rights and Privacy Act of 1974).

It is the policy of Tillamook Bay Community College and its Board that there will be no discrimination or harassment on the grounds of race, religion, color, national origin, disability, sex, sexual orientation, age, height/weight ratio, marital status, gender, gender identity, organizational affiliation, political affiliation or protected veterans in any educational programs, activities or employment. Lack of English language skills will not be a barrier to admission nor to participation in career and technical education programs. Persons having questions about nondiscrimination should contact:

- Title II Coordinator, Kylie Poklikuha, Human Resources Senior Manager; 4301 Third Street, Tillamook, Oregon, Room 114, Phone (503) 842-8222, ext. 1021 or TDD (503) 842-2467
- Title IX Coordinator, Britta Lawrence, Executive Director of Advancement and TBCC Foundation; 4301 Third Street, Tillamook, Oregon, Room 112, Phone (503) 842-8222, ext. 1026.
- Section 504 Coordinator, Rhoda Hanson Associate Vice President of Student Services, 4301 Third Street, Tillamook, Oregon, 97141 Room 116, Phone (503) 842-8222, ext. 1110

Library Services

The TBCC Library is both:

1. A place on campus where you can find books, DVDs, research and citation help, boardgames, or a quiet place to study.
2. An online environment where you can access our research databases with eBooks, articles, and streaming video, or find any number of other helps designed to aid you in your academic career and beyond.

Our goal is to make your time at TBCC achievable, beneficial, and enjoyable. So, please do not hesitate to ask us for help.

Research Databases

OER Resources

Tutoring

Library Catalog

Testing and Proctoring

For more information about Library Services, visit our website.

Tuition & Financial Aid

Tuition & Funding

1. Getting Started with Financial Aid

TBCC encourages all students to apply for federal and state aid. Eligibility is determined annually by completing the **Free Application for Federal Student Aid (FAFSA)** or the **ORSAA** (for Oregon residents).

- **TBCC School Code:** 041949
- **Priority Date:** Apply as early as possible on or after October 1st each year for the following academic year.
- **Formula:** Awarding is based on: COA (Cost of Attendance)−SAI (Student Aid Index)=Need.
- **Communication:** Check your TBCC student email regularly. The Financial Aid Office (FAO) will contact you there for any additional documentation.

Financial Aid Recipient's Responsibilities

By accepting aid, you agree to:

- Maintain **Satisfactory Academic Progress (SAP)**.
- Notify the FAO of changes in address, name, marital status, or enrollment status.
- Report any outside assistance (scholarships, fellowships).
- Attend and pass all classes; notify the FAO if transferring schools.

2. Financial Aid Programs

Grants (Do not require repayment)

- **Federal Pell Grant:** Based on SAI and enrollment level.
- **Federal SEOG:** For Pell-eligible students with exceptional need (limited funding).
- **Oregon Opportunity Grant:** For eligible Oregon residents (6+ credits).
- **Oregon Promise:** A tuition grant for eligible Oregon residents (6+ credits).

Loans (Must be repaid with interest)

- **William D. Ford Federal Direct Stafford Loan:** Available to students enrolled at least half-time (6+ credits).
  - **Subsidized:** The government pays interest while you are in school.
  - **Unsubsidized:** You are responsible for interest from the time of disbursement.
- **Borrowing Limits:**
  - **First-Year (0-45 credits):**
    - Independent: $3,500 Subsidized/ $6,000 Unsubsidized
    - Dependent: $3,500 Subsidized/ $2,000 Unsubsidized
  - **Second-Year (46+ credits):**

- Independent: $4,500 Subsidized/ $6,000 Unsubsidized
- Dependent $4,500 Subsidized/ $2,000 Unsubsidized

3. Veteran & Military Benefits

Veterans, disabled veterans, and dependents may be eligible for benefits from the Veterans Administration (VA).

Tuition & Protection Policies

- **In-State Tuition:** Under Public Law 115-251 and the Choice Act, eligible Veterans and dependents using Chapter 30, 31, or 33 benefits are charged the **in-state tuition rate**, regardless of formal state residence.
- **Protection from Penalties:** Per 38 USC 3679(e), TBCC will not impose late fees, deny access to classes/libraries, or require additional borrowing due to delayed VA funding for Chapter 31 or 33 recipients.
- **Waivers:** Tuition waivers are available for Oregon veterans with a 50% or higher service-connected disability, and for dependents of fallen or 100% permanently disabled Oregon service personnel.

VA Academic Requirements

- **Transcripts:** You must submit official transcripts from ALL previous schools (including Joint Service Transcripts) by the end of your first term.
- **SAP:** Must maintain a minimum **2.0 GPA** in your declared major.
- **Reporting:** You must notify the School Certifying Official (SCO) of any schedule changes.

4. Paying for College

Tuition & Fees (2026–2027)

Category	Cost
In-State Tuition	$118 per credit
Out-of-State Tuition	$134 per credit
Universal Fee	$29 per credit
Special Course Fees	Varies (Art, Science, MIT, etc.)

Payment Options & Due Dates

Payments and/or payment plans are due by the **end of the first week** of each term.

- **Payment Plans:** Available via MyTBCC for balances of $300 or more.
- **Third-Party Billing:** Available if written authorization (e.g., from an employer) is received by the first week.
- **Holds:** You cannot register for a succeeding term until your prior balance is paid in full.

Tax Credits

- **1098-T:** Available by January 31 each year for eligible payments.
- **Credits:** Look into the American Opportunity Credit and Lifetime Learning Credit to help offset costs.

5. Academic Eligibility & Refunds

Satisfactory Academic Progress (SAP)

To remain eligible for financial aid, you must:

1. Maintain a cumulative **GPA of 2.0 or higher**.
2. Complete **two-thirds (66.67%)** of all attempted credits.
3. Complete your degree within **150%** of the required credits (e.g., 135 attempted credits for a 90-credit degree).

Two-Thirds Completion Chart

To maintain Satisfactory Academic Progress (SAP), you must successfully complete **66.67%** of the credits you attempt. Use this table to determine your minimum completion requirement:

Credits Attempted	Must Successfully Complete
19	13
17 – 18	12
16	11
14 – 15	10
13	9
11 – 12	8
10	7
8 – 9	6
7	5
5 – 6	4
4	3
2 – 3	2
1	1

Important Definitions:

- **Passing Grades:** A, B, C, D, and P (Pass).
- **Non-Completion Grades (3 attempts or until successful):** F, NP (No Pass), W (Withdraw), and I (Incomplete) are considered "attempted" but not "successfully completed."

Policy on Drops & Withdrawals

- **100% Refund:** Charges are removed only if you drop within the first week of the term.
- **Return of Title IV (R2T4):** If you withdraw before the **60%** point of the term, you have not "earned" all your aid. You may be required to repay a portion of your grants or loans to the federal government.
- **Tuition Forgiveness:** If circumstances beyond your control prevented completion, you may submit a **Student Account Petition** to the Business Office for a potential tuition voucher.

The TBCC Financial Aid Office is located in the Student Learning Services Building (SLS). You can also contact them by phone at (503) 842-8222 ext. 1130 or tbccfinancialaid@tillamookbaycc.edu.

Refund Policy

Refunds

Federal regulations require TBCC to have a fair and equitable R2T4 policy for students receiving financial aid who officially or unofficially withdraw from all classes. Withdrawing (or non-attendance) may result in a financial debt for the student and may also make the student ineligible for future financial aid (including work study and loans). We strongly urge students to consult with their career Education Advisor and Financial Aid Advisor to assist with decisions about withdrawing. TBCC's R2T4 policy is included in the Schedule of Classes in the "Payment" section. The Schedule of Courses can be found at tillamookbaycc.edu. Hard copies are available at the Student Services Office and a copy is mailed to each residential listing in Tillamook, County.

Financial Consequences of Withdrawal or Not Passing Any Classes

Federal regulations assume that students earn financial aid over the course of a term by attending and participating in classes. Students cannot earn all their funds unless they maintain attendance and class participation for more than 60 percent of the term. This calculation counts all calendar days including the first and last day of each term, weekends and holidays. "No passed classes" is defined at TBCC as W, NP, F, AUD and drops.

When students withdraw prior to the 60% timeline, they may owe a portion of their financial aid back to the federal government.

The portion of financial aid grants and loans, which must be returned, will be determined on the student's date of withdrawal as identified by the college based on one of the following:

- The date the student submits the completed Withdrawal form, or
- The midpoint of the term, if the student didn't officially withdraw, or
- A date documented by the college.

Calculating the Percentage of the Enrollment Period Earned:

Divide the number of days attended by the number of days in the term (including weekends and holidays). Calculation of the portion of financial aid earned up to the 60 percent point in time begins by

1. Subtracting the percentage earned from 100 to determine the percentage of unearned aid. If withdrawal occurs after the 60 percent date, the student earned all of the financial aid received and no refund will be required.
2. Multiply the total federal financial aid by the calculated percentage unearned. This reflects the total amount of unearned federal aid.
3. Subtract the unearned amount of institutional costs from the total amount of unearned aid, and this will equal the amount of federal financial aid the student will be responsible for repaying.

The student will be notified in writing identifying the portion of unearned aid the student is responsible to repay.

Financial Aid SAP

To continue receiving financial aid you need to maintain SAP, which includes:

- Maintaining a cumulative GPA of 2.0 or higher.
- Successful completion of two-thirds of attempted credits each term.
- Ability to complete declared degree or certificate within 150% maximum time frame limit.

Two-Thirds Completion Chart

Credits Attempted	Must Successfully complete
19	13
17-18	12
16	11
14-15	10
13	9
11-12	8
10	7
8-9	6
7	5

Credits Attempted	Must Successfully complete
5-6	4
4	3
2-3	2
1	1

Passing grades include: A, B, C, D and P (pass). The following grades are considered attempted but not completed or passing credits: F, NP (no pass), W (withdraw), and I (incomplete).

Withdrawal, lack of attendance in classes, and other non-completion of classes may require a student to repay financial aid received from Title IV programs.

The Financial Aid Office reviews academic performance each term, and if a student fails to maintain any of the requirements listed above, the student will be placed on SAP Warning and, in some cases, suspension.

Warning

Status given if a student's cumulative GPA dropped below a 2.0, and/or the student did not complete two-thirds (66.67%) of all attempted credits in a term, and the student is able to graduate within 150% maximum time frame limit. A student is able to receive financial aid while on financial aid warning status, but must meet SAP standards during that term of enrollment to remain eligible for subsequent financial aid.

Suspension

Status given if a student did not meet SAP standards while in Warning or Probation status, or it is determined that the student will not be able to graduate within 150% maximum time frame limit, or a student in Financial Aid Academic Plan status fails to follow the plan. The student is not eligible to receive financial aid while on Financial Aid Suspension.

Probation

Status only granted upon the approval of a Financial Aid SAP Appeal, probation status allows a student to receive financial aid for one term. The student must meet SAP standards by the end of that term to remain eligible for subsequent financial aid.

Probation with Academic Plan

Status only granted upon the approval of a SAP Appeal with the condition the student follows a learning contract. The student is eligible to receive financial aid as long as the student continues to follow the academic plan and maintains Satisfactory Academic Progress.

Rights, Responsibilities & Campus Policies

Student Code of Conduct

1. Student Rights & Guarantees

As a member of the TBCC community, you are entitled to several core protections designed to ensure a safe and productive learning environment.

- **Freedom from Harassment & Discrimination:** TBCC prohibits harassment or discrimination based on race, religion, color, national origin, disability, sex, sexual orientation, age, marital status, gender identity, or veteran status. Retaliation against anyone filing a complaint is strictly prohibited.
- **Freedom of Expression:** You are free to take reasoned exception to views offered in any course and to express your opinions publicly or privately. Orderly demonstrations are permitted provided they do not disrupt college operations or safety.
- **Fair Academic Evaluation:** Your performance is evaluated solely on academic standards articulated in the course syllabus, not on your personal opinions or conduct unrelated to academic standards.
- **Privacy & Records:** In compliance with **FERPA**, your academic and disciplinary records are kept separate. Information from these files is not available to unauthorized persons without your written consent, except under legal compulsion or safety necessity.
- **Participation & Organizations:** Students may form clubs and organizations under the ASTBCC Constitution and have the right to produce student publications free from arbitrary censorship.

2. Student Code of Conduct

Admission to TBCC carries the presumption that you will act as a responsible member of the college community. The following behaviors are considered violations of the Code of Conduct and may lead to disciplinary action:

- **Academic Dishonesty:** Cheating, plagiarism, or aiding/abetting these acts.
- **Misconduct:** Furnishing false information, forgery, or misuse of college documents and ID cards.

- **Safety & Property:** Abuse, harassment, or intimidation of others; malicious destruction of property; theft; and failure to comply with lawful directions from college personnel.
- **Substance Use:** Possession, consumption, or being under the influence of alcohol or controlled substances on college property.
- **Weapons:** Carrying or displaying weapons or explosives on campus (except as provided by Oregon law).
- **Disruption:** Any behavior that substantially interferes with the educational process or college functions.

3. Disciplinary Sanctions & Due Process

When violations occur, TBCC follows a structured process to resolve the issue. Disciplinary actions are intended to be remedial rather than punitive, whenever possible.

Potential Sanctions

If a violation is confirmed, one or more of the following may be imposed:

1. **Disciplinary Admonition/Warning:** A formal notice of the violation.
2. **Disciplinary Probation:** A specified period during which further violations may lead to suspension.
3. **Restitution or Service:** Requirement to pay for damages or perform community service.
4. **Removal from Class:** Temporary or permanent removal from a specific course.
5. **Suspension:** Temporary removal of the privilege to attend TBCC.
6. **Expulsion:** Permanent removal of the privilege to attend TBCC.

Resolution Authority

The following table outlines who handles different types of violations:

Type of Violation	Initial Review	Formal Resolution	Final Appeal
Student Conduct	V.P. of Student Services	V.P. of Instruction	College President
Safety	Director of Facilities & Safety	V.P. of Student Services	College President
Academic Integrity	Faculty	V.P. of Instruction	College President
Academic Progress	Faculty	V.P. of Instruction	College President

Formal Resolution Steps

If a situation is not resolved informally, the college follows these steps:

- **Step 1:** An initial conference is held where the student is informed (verbally and in writing) of the charges and maximum potential penalty.
- **Step 2:** The student has **seven calendar days** to submit all evidence.
- **Step 3:** The designated officer reviews the evidence and interviews relevant persons. The student is notified of the decision in writing.
- **Step 4:** The student may appeal the sanction if new information is available or if they believe a due process violation occurred. Appeals must be filed within **seven calendar days**.

Classroom Conduct

Faculty members are responsible for classroom conduct. If a student's behavior interrupts the class, the instructor may remove them for **one day**. Permanent removal requires the formal process outlined in the Code of Conduct.

Academic Integrity

Introduction

Students of Tillamook Bay Community College are expected to behave as responsible members of the college community, and to be honest and ethical in their academic work. Tillamook Bay Community College strives to provide students with the knowledge, skills, judgment, and wisdom they need to function in society as educated adults. To falsify or fabricate the results of one's research, to present the words, ideas, data, or work of another as one's own, or to cheat on an examination corrupts the essential process of higher education.

Guidelines for Academic Integrity

Students assume full responsibility for the content and integrity of the coursework they submit. The following are guidelines to assist students in observing academic integrity:

1. Students must do their own work and submit only their own work on examinations, reports, and projects, unless otherwise permitted by the instructor. This also applies to the use of generative artificial intelligence (GenAI) to create and submit assignments to an instructor without explicit instructor permission as GenAI creations are not considered one's own original work. Students are encouraged to contact their instructor about appropriate citation guidelines.
2. Students may benefit from working in groups. They may collaborate or cooperate with other students on graded assignments or examinations as directed by the instructor.
3. Students must follow all written and/or verbal instructions given by instructors or designated college representatives prior to taking examinations, placement assessments, tests, quizzes, and evaluations
4. Students are responsible for adhering to course requirements as specified by the instructor in the course syllabus

Forms of Academic Dishonesty

Actions constituting violations of academic integrity include, but are not limited to:

- **Plagiarism:** the use of another's words, ideas, data, or product without appropriate acknowledgment, such as copying another's work, presenting someone else's opinions and theories as one's own, or working jointly on a project and then submitting it as one's own.
- **Cheating:** the use or attempted use of unauthorized materials, information, or study aids; or an act of deceit by which a student attempts to misrepresent academic skills or knowledge; unauthorized copying or collaboration.
- **Fabrication:** intentional misrepresentation or invention of any information, such as falsifying research, inventing or exaggerating data, or listing incorrect or fictitious references.
- **Collusion:** assisting another to commit an act of academic dishonesty, such as paying or bribing someone to acquire a test or assignment, taking a test or doing an assignment for someone else, or allowing someone to do these things for one's own benefit.
- **Academic Misconduct:** the intentional violation of college policies, such as tampering with grades, misrepresenting one's identity, or taking part in obtaining or distributing any part of a test or any information about the test.

If a student is found guilty of violating academic integrity, any one or a combination of the following penalties may be imposed by the faculty member:

- Verbal or written warning.
- A grade of "F" or "NP" for the assignment, project, or examination.
- The following penalty may be imposed by the faculty member only after a hearing conducted by the Vice President of Instruction:
    - A grade of "F" or "NP" for the course, overriding a student withdrawal from the course.

The Vice President of Instruction may also issue the following disciplinary sanctions, in accordance with the code of student conduct:

- Disciplinary admonition and warning.

- Disciplinary probation with or without the loss of privileges for a definite period of time. The violation of the terms of the disciplinary probation or the breaking of any college rule during the probation period may be grounds for suspension or expulsion from the college.
- Suspension from TBCC for a definite period of time. (i.e., suspension of the privilege to attend Tillamook Bay Community College).
- Expulsion from TBCC (i.e., removal of the privilege to attend Tillamook Bay Community College).

Academic Dishonesty Complaint and Hearing Procedures

The faculty member observing or investigating the apparent act of academic dishonesty documents the commission of the act, usually by writing down the time, date, place, and a description of the act.

The faculty member collects evidence, often by photocopying the plagiarized assignment and creating a paper trail of all that occurs after the alleged act of academic dishonesty. Often the evidence will include various samples of the student's work showing a radical disparity in style or ability.

The faculty member provides the student an opportunity to explain the incident.

The faculty member explains to the student the procedures and penalties for academic dishonesty and gives the student a copy of the TBCC Academic Integrity policy.

The faculty member may resolve the matter informally by determining an appropriate course of action, which may include a verbal or written warning, or a grade of "F" or "NP" on an assignment, project, or examination, or no further action.

If the accused student contests the faculty member's decision, a hearing with the Vice President of Instruction may be requested in writing to the V.P. within 10 days of the time the student is notified of the faculty member's decision. A hearing requested by a student under this section is informally conducted by the V.P., who may take steps he or she deems appropriate to resolve the conflict.

If the faculty member wishes to initiate further action (e.g. assign a lower grade or a grade of "F" or "NP" for the course), the student is entitled to a hearing with the V.P. The faculty member submits a copy of the Academic Dishonesty Report form and any additional evidence to the V.P. within 7 days of the alleged act of academic dishonesty, which initiates the hearing process.

Within 7 days of receiving an Academic Dishonesty Report form, the V.P. notifies all parties in writing of the date, time and location of the hearing. At the hearing, the student meets with the faculty member and V.P. to hear the charges and present his/her side of the case. The student may bring an advisor, who may advise the student but not present the case. If the student misses the hearing, the faculty member and V.P. may proceed with the process to completion. The V.P. will consider any evidence submitted within seven days of the hearing, and interview persons as warranted. The V.P. determines if the action recommended by the faculty member is appropriate.

Within 7 days of the hearing, the V.P. sends a written notification of the results to the student and faculty member.

Final Appeal

If the student decides to appeal the decision on the basis of alleged violation of due process, he or she may do so by filing a written appeal with the president or designee within seven calendar days of the decision. The president or designee shall render a decision regarding the alleged violation of due process within seven calendar days of its filing.

For each decision conveyed to the student the V.P. sends a final report to the college president. The V.P. of Instruction may also issue the following disciplinary sanctions, in accordance with the Code of Student Conduct:

- Disciplinary admonition and warning,
- Disciplinary probation with or without the loss of privileges for a definite period of time. The violation of the terms of the disciplinary probation or the breaking of any college rule during the probation period may be grounds for suspension or expulsion from the college,
- Suspension from Tillamook Bay Community College for a definite period of time. (i.e., suspension of the privilege to attend Tillamook Bay Community College), or

- Expulsion from Tillamook Bay Community College (i.e., removal of the privilege to attend Tillamook Bay Community College).

Sources

With permission, contents of this policy were adapted from “Academic Honesty” and “Academic Dishonesty,” Oregon State University, Corvallis, Oregon; and “Student Rights & Responsibilities: Scholastic Ethics Code,” Pima Community College, Tucson, Arizona.

Type of Grievance	Contact	Contact Information	Steps of Grievance with college employee	Steps for Grievance with a student
Disability Related	Rhoda Hanson	rhodahanson@tillamookbaycc.edu 503-842-8222 ext. 1110	Step 1: Communicate with college representative	Step 1: Communicate with college representative
			Step 2: File grievance with Director of Facilities, Safety, and Human Resources	Step 2: File grievance with Vice President of Instruction
			Step 3: Appeal to the College President	Step 3: Appeal to College President
Sexual Harassment	Rhoda Hanson	rhodahanson@tillamookbaycc.edu 503-842-8222 ext. 1110	Step 1: Communicate with college representative	Step 1: Communicate with college representative
			Step 2: File grievance with the Director of Facilities, Safety, and Human Resources	Step 2: File grievance with Vice President of Student Services
			Step 3: Appeal to the College President	Step 3: Appeal to College President
Harassment based on race/ ethnicity/ national origin	Rhoda Hanson	rhodahanson@tillamookbaycc.edu 503-842-8222 ext. 1020	Step 1: Communicate with college representative	Step 1: Communicate with college representative
			Step 2: File grievance with Director of Facilities, Safety, and Human Resources	Step 2: File grievance with Vice President of Student Services
			Step 3: Appeal to College President	Step 3: Appeal to College President
Other Harassment	Rhoda Hanson	rhodahanson@tillamookbaycc.edu 503-842-8222 ext. 1020	Step 1: Communicate with college representative	Step 1: Communicate with college representative
			Step 2: File grievance with Director of Facilities, Safety, and Human Resources	Step 2: File grievance with Vice President of Student Services
			Step 3: Appeal to College President	Step 3: Appeal to College President
Academic Grievance	Paul Jarrell	pauljarrell@tillamookbaycc.edu 503-842-8222, ext. 1030	Step 1: Communicate with college representative	
			Step 2: File grievance with Vice President of Instruction	
			Step 3: Appeal to College President	
Freedom of Expression	Paul Jarrell	pauljarrell@tillamookbaycc.edu 503-842-8222, ext. 1030	Step 1: Communicate with college representative	
			Step 2: File grievance with Vice President of Instruction	
			Step 3: Appeal to College President	
Discrimination	Rhoda Hanson	rhodahanson@tillamookbaycc.edu 503-842-8222 ext. 1020	Step 1: Communicate with college representative	Step 1: Communicate with college representative
			Step 2: File grievance with Director of Facilities, Safety, and Human Resources	Step 2: File grievance with Vice President of Student Services
			Step 3: Appeal to College President	Step 3: Appeal to College President
Improper Academic Evaluation	Paul Jarrell	pauljarrell@tillamookbaycc.edu 503-842-8222, ext. 1030	Step 1: Communicate with college representative	

Type of Grievance	Contact	Contact Information	Steps of Grievance with college employee	Steps for Grievance with a student
			Step 2: File grievance with Vice President of Instruction	
			Step 3: Appeal to College President	

Grievance Procedures

A. Introduction

Students enrolled at Tillamook Bay Community College may use the Grievance Procedure to challenge decisions and/or actions taken by college faculty and staff that are alleged to violate their rights as defined in the College Catalog. Any other complaint about College services, programs, or activities not addressed in the College Catalog or Policy should be put in writing and sent to the Director/Vice President designated in the chart below.

Programs based on contracts with government agencies or external funding sources may adopt separate grievance procedures consistent with Tillamook Bay Community College's Grievance Procedure, the program's goals, and the principle of due process for all parties.

The student will be allowed to have an advocate of his/her choice (such as a Tillamook Bay Community College Advisor, or student government representative) present in meetings throughout the grievance process. Advocates are not permitted to present the case, but may advise the student. Both the College and the student may seek legal advice at their own expense; however, neither the College nor the student shall be represented by a lawyer during any grievance meeting or hearing involving the College and the student.

Concerns involving harassment or discrimination by a College staff member on the basis of race, color, religion, sex, sexual orientation, age, national origin, disability, or veteran status should be directed to the College's Affirmative Action Officer. Concerns involving harassment or discrimination by a student on the basis of race, color, religion, sex, sexual orientation, age, national origin, disability, or veteran status should be directed to the Associate V. P. of Student Services.

B. Grievance Procedure

Step 1: Communicate with the Faculty/Staff Member:

1. The student is encouraged to communicate with the faculty/staff member involved. They may communicate with any person with whom they feel most comfortable, based upon level of trust and relationship. The person may become their advocate. The advocate can support, though not communicate for, the student throughout the process. The issue must be brought to the initial review (see chart) within 30 calendar days of the event that is the subject of the grievance/complaint. Otherwise, the student forfeits the right to grieve the issue. The student is encouraged to put the grievance in writing, including a specific description of the problem, the reasons the student believes his/her rights have been violated as defined in the College Catalog, and a proposed remedy.

Step 2: Associate V. P. of Student Services or V. P. of Instruction and Student Services

1. In cases where the problem is not resolved through direct communication with the faculty/staff member involved, the student will submit a Grievance Form obtained from the Associate V. P. of Student Services or V. P. of Instruction and Student Services with supporting evidence, to the V.P. of Instruction and Student Services or the Associate V.P. of Student Services within 14 calendar days of the communication with the faculty/staff member. The V. P. of Instruction and Student Services or the Associate V.P. of Student Services will review the grievance.
2. Within 14 calendar days, the V. P. of Instruction or of Student Services will objectively investigate the grievance, consult and share appropriate information with all involved parties, consider relevant evidence, and render a decision in writing to the student and the College President.

Step 3: Appeal to the College President

1. The student may appeal the decision in Step 2 if (1) Tillamook Bay Community College procedures were not followed or (2) there is relevant evidence that was not available during Step 2. An appeal must be made within 14 calendar days to the College President. The student must submit written justification for further review and provide evidence that there are grounds for the appeal.
2. The President will objectively investigate how the grievance process was conducted in Step 2, consult with all involved parties, and consider relevant evidence that was not available or not considered during Step 2, and render a decision in writing within 10 business days of the appeal. The decision will be final and not subject to appeal.
3. Reporting, Recording, and Maintaining Records When the grievance is concluded, all documentation shall be forwarded to the V.P. of student services, who will maintain them as part of student records in accordance with the state archival policies.

Type of Violation/ Suspension	Student First Contact	Initial Review	Formal Resolution	Final Appeal
Student Conduct	A student, staff, or faculty violation of any type to anyone with whom they feel comfortable and have an established relationship. This person may serve as an advocate to support them through the grievance or complaint process, and will help them (though not speak for them) to the initial review and beyond if so desired.	Associate V.P. of Student Services	V.P. of Instruction and Student Services	College President
Safety (e.g. sexual harassment, discrimination, physical safety infractions, etc.)		Director of Facilities and Safety	Associate V.P. of Student Services	College President
Academic Integrity		Faculty Member	V.P. of Instruction and Student Services	College President
Satisfactory Academic Progress		Associate V.P. of Student Services	V.P. of Instruction and Student Services	College President
Faculty/Staff Disputes		Faculty/ Staff Member	Appropriate V.P.	College President
Grade Disputes (see AR D432)		Faculty Member	V.P. of Instruction and Student Services	College President

Campus Health & Behavior Policies

1. Drug, Alcohol, and Tobacco-Free Campus

TBCC recognizes that controlled substance abuse interferes with effective teaching and learning. The college has a legal and ethical obligation to maintain an alcohol and drug-free environment.

Prohibited Conduct

The following actions are strictly prohibited on college-owned property, at satellite properties, or during college-sponsored activities:

- **Alcohol & Controlled Substances:** The unlawful manufacturing, distribution, dispensing, possession, or use of alcoholic liquor, marijuana, or controlled substances.
- **Being Under the Influence:** Attending class or performing college duties while under the influence of alcohol, marijuana, or illegal drugs.
- **Tobacco & Inhalants:** TBCC is a tobacco-free environment. The use, distribution, or sale of tobacco, e-cigarettes, vaporizers, or any smoking device is prohibited. For those under 21, possession of these items on campus is also prohibited.

Exceptions

- **Medical Prescriptions:** Use or possession of substances is permitted when lawfully prescribed by an authorized medical doctor, dentist, or licensed healthcare provider.
- **Board Approval:** Consumption of alcohol may be permitted at specific social functions as provided by the rules and procedures of the TBCC Board of Education.

2. Consequences of Violations

Violations of these policies by students or employees may result in disciplinary action or fines.

Student Penalties

Sanctions are administered according to the **Student Code of Conduct** and may include:

- Disciplinary admonition and warning.
- Disciplinary probation.
- Removal from current classes or a specified period of community service.
- **Suspension or Expulsion:** Temporary or permanent removal from TBCC.
- **Restitution:** Payment for any damages caused.

Employee & Visitor Sanctions

- **Employees:** May face suspension, dismissal, or a requirement to complete a rehabilitation program. Employees must notify Human Resources within five days of any workplace-related substance abuse conviction.
- **Tobacco Violations:** Repeated violations of the tobacco-free policy may result in a **minimum fine of $50**.

3. Immunization & Health Requirements

TBCC follows CDC and Advisory Committee on Immunization Practices (ACIP) recommendations to protect the campus community.

- **General Recommendations:** It is recommended that all students be immunized against measles, mumps, rubella, hepatitis A/B, tetanus, influenza, and COVID-19.
- **Healthcare & Education Programs:** Students participating in healthcare, education, or early childhood education practicums, as well as intercollegiate sports, **are required** to meet measles immunization requirements.

- **Clinical Requirements:** Students in healthcare programs must be vaccinated for **COVID-19** to attend clinical sessions at TBCC healthcare partner sites. Proof of vaccination is required.

4. Support & Resources

TBCC encourages students and employees to seek help for substance use or smoking cessation. Requests for assistance are handled confidentially and are not grounds for dismissal, though they do not excuse active policy violations.

Resource Type	Organization	Contact/Link
Substance Use Services	Tillamook Family Counseling Center	https://tfcc.org/addiction-recovery/
Drug Education	Centers for Disease Control (CDC)	https://www.cdc.gov/nchs/fastats/drug-overdoses.htm
Smoking Cessation	National Office on Smoking and Health	1-800-QUIT-NOW
TBCC Support	Student Services Office	(503) 842-8222 ext. 1100

Animals on Campus

Animals in college buildings, classrooms, offices or grounds may cause health, safety, liability, sanitary, or custodial problems. Animals are permitted in college buildings if they are:

- Service animals that are specifically trained to perform tasks for students, staff or visitors with disabilities such as guiding people who are blind; alerting people who are deaf; pulling wheelchairs; alerting and protecting those who are having a seizure; or performing other special tasks. As defined by the ADA, animals whose function is to provide comfort or emotional support DO NOT qualify as service animals.
- Animals under the guidance and control of college staff for the purpose of research, instruction, or other endeavors related to the college mission.

Animals on college grounds shall be on leash or in a vehicle, and remain outside all buildings. Owners shall exercise responsibility for immediate clean up and proper removal of waste. TBCC policy, Article No. 202.5

Mandatory Reporting

All TBCC employees are required by Oregon law to report suspected cases of child abuse to the Oregon Department of Human Services (DHS) or law enforcement officials. This duty is personal to the individual college employee and applies twenty-four hours-a-day, seven days-a-week whether or not the employee is on work time. College employees must immediately report to DHS or local law enforcement when the employee has "reasonable cause to believe" that any child with whom the employee comes in contact with has suffered abuse, or that any person with whom the employee comes in contact with has abused a child.

Multnomah County DHS: 1-877-302-0077 · Tillamook Police: 503-842-2522 In addition, college employees and students must report to the college Director of Facilities and Safety instances of inappropriate conduct when they witness, receive a report of, or have reason to believe an instance of child abuse has occurred. This requirement applies to cases of abuse that allegedly occur on campus, on property owned or leased by the college, or while members of the faculty, staff or student body are participating in a college-connected activity off campus. Reporting to the designated college official does not satisfy the legal duty to report to DHS or local law enforcement.

Definitions

Abuse:

- Any assault of a child and any physical injury to a child which has been caused by other than accidental means;
- Any mental injury to a child, which shall include only observable and substantial impairment of the child's mental or psychological ability to function caused by cruelty to the child, with due regard to the culture of the child;
- Rape of a child, which includes but is not limited to rape, sodomy, unlawful sexual penetration and incest;
- Sexual abuse;
- Sexual exploitation, including:
  - Contributing to the sexual delinquency of a minor;
  - Allowing, permitting, encouraging or hiring a child to engage in prostitution or patronize a prostitute;
  - Negligent treatment or maltreatment of a child;
  - Threatened harm to a child, which means subjecting a child to a substantial risk of harm to the child's health or welfare;
- Buying or selling a person under 18 years of age;
- Permitting a person under 18 years of age to enter or remain in or upon premises where methamphetamines are being manufactured; or
- Unlawful exposure to a controlled substance, as defined in ORS 475.005, that subjects a child to a substantial risk of harm to the child's health or safety.

Child:

- an unmarried person who is under 18 years of age.

Law enforcement agency:

- a city or municipal police department;

- a county sheriff's office;
- the Oregon State Police; or
- a county juvenile department.

Legal Reference

ORS 419B.005 to 419B.050

TBCC Sex Offender Notification Procedures

Information regarding registered sex offenders may be obtained from the Oregon State Police (503-378-3720) and requesting the Sex Offender Unit. In accordance with the Clery Act, the Campus Crime Statistics Act, and the Campus Crimes Prevention Act, Tillamook Bay Community College periodically receives Sex Offender Notifications from Tillamook County and the State of Oregon for students who are enrolled at TBCC.

Notification Process

1. Sex offenders are recommended to attend TBCC by a County parole or probation officer after consultation with the Associate V. P. of Student Services and it is determined by both the officer and the Associate V.P. that TBCC is an appropriate educational setting for the candidate. The Associate V.P. will be in contact with the student's parole officer to learn the conditions of his/her probation/parole/post-prison supervision, if any.
2. Upon receipt of notification that a sexual offender will be a TBCC student, the Associate V.P. of Student Services will determine if the person is enrolled in classes at TBCC by checking TBCC's Student Information System (Jenzabar).
3. Additional communication between TBCC and the student's parole officer or supervisor will be through and the responsibility of the Associate V.P. of Student Services or designee. The Associate V.P. of Student Services may include College Leadership Team members based on the individual student situation.
4. If any restrictions or conditions exist for the student, the Associate V.P. of Student Services will place a registration hold on the student's record until all restrictions or conditions have been met.
5. If, as a condition of probation, parole, or supervision, the sex offender is precluded from having contact with minors; the student's schedule will be reviewed by the Associate V.P. of Student Services to determine if there are minor students enrolled in courses that would violate the terms or conditions as set in the probation, parole, or supervision documentation. If there is a conflict TBCC may deny enrollment to the student to specific courses on that basis. The Associate V. P. of Student Services will set and notify the student of any appropriate facility restrictions and behavioral expectations which apply to all TBCC campuses, centers, and courses.
6. The Associate V.P. of Student Services will notify administration, staff and instructors of the enrollment of a registered sex offender if the Vice President and/or TBCC's leadership team determines such notification is consistent with TBCC's educational mission and the best interest of TBCC.

Disclosures & Compliance Statements

General Disclosures

Affirmative Action

Tillamook Bay Community College subscribes to the terms of Title VI of Civil Rights Act of 1964, as amended, 42 U.S.C. 2000d et seq., Title IX of the Education Amendments of 1972, as amended, 29 U.S.C. 1681 et seq., and Section 504 of the Rehabilitation Act of 1973, as amended, 29 U.S.C. 794, as well as laws of the state of Oregon pertaining to affirmative action. Equal employment opportunity and treatment shall be provided in hiring, retention, transfer, promotion, and training of all employees, regardless of race, religion, color, national origin, disability, sex, sexual orientation, age, height/weight ratio, marital status, gender, gender identity, organizational affiliation, political affiliation or protected veterans status. Equal opportunity in hiring and advancement considerations will be based on positive organization needs, and the individual's qualifications for and/or performance of specific duties.

Continuous effort will be devoted to the improvement of human relationships and to elimination of conditions from which discrimination results.

Provisions

The Board agrees that the provisions of this policy statement shall be applied equally to all employees without discrimination as to race, religion, color, national origin, disability, sex, sexual orientation, age, height/weight ratio, marital status, gender, gender identity, organizational affiliation, political affiliation or protected veterans.

Allegations

Allegations of discrimination in violation of federal or state statutes shall be excluded from the grievance procedure in Article 317 of the TBCC Policy manual statement. Such complaints shall be processed through college affirmative action channels or the appropriate federal or state agencies, in accordance with procedures in Article 318 Standards of Conduct.

Disclosure of Information Contacts

The Higher Education Act of 1998, as amended, requires disclosure of campus contacts for specific kinds of information to which students, prospective students, and employees may be entitled. TBCC provides this list with its admission materials, electronically, and in the Student Services Office. In addition, basic answers and contacts for further inquiry can be found on our website or elsewhere in this catalog.

Disclosure Statement

OAR 589.004.0400 authorizes TBCC to ask you to provide your social security number. The number will be used for reporting, research, and record keeping. Your number will also be provided to the State Department of Community Colleges and Work Force Development and the Oregon Community College Association. Oregon Department of Education gathers information about students and programs to meet state and federal reporting requirements. It also helps colleges plan, research, and develop programs. This information helps the colleges to support the progress of students and their success in the workplace and in other education programs.

The college may provide your social security number to the following agencies or match it with records from the following systems:

- State and private universities, colleges, and vocational schools, to find out how many community college students go on with their education and to find out whether community college courses are a good basis for further education.
- The Oregon Employment Department, which gathers information, including employment and earnings, to help state and local agencies plan education and training services to help Oregon citizens get the best jobs available.
- The Oregon Department of Education to provide reports to local, state and federal governments. The information is used to learn about education, training and job market trends for planning, research and program improvement.
- The Oregon Department of Revenue and collection agencies, only for purposes of processing debts, and only if credit is extended to you by the college.
- The U.S. Department of the Treasury, Internal Revenue Service, for the purpose of reporting tuition and related fees in compliance of the Tax Relief Act of 1997.
- American College Testing Services, if you take a placement test for educational research purposes.

State and federal law protects the privacy of your records. Your number will be used only for the purposes listed above.

Confidentiality

TBCC follows all applicable state and federal laws, rules and regulations that apply to student records. All information that is personally identifiable to any student will be kept confidential and will not be released, except upon prior written consent of the subject student or other order of a court of competent jurisdiction upon the lawful subpoena. Student information may be shared among college faculty and staff on an official (need to know) basis.

Students have certain rights with respect to student records under Public Law 93-380. These include:

- The right to inspect the educational records of the student.
- The right to challenge the accuracy of the records if they are believed to be misleading or to violate privacy or other rights of the student.
- Except as may be provided by law, the right to prevent the release of any or all information from the records to any other party. The college will not send transcripts or copies of other educational records to any other school, prospective employer, or other person without written request of the student.

Solomon Act

Federal law requires the college to provide student name, address, and telephone number to the military for recruiting purposes. If you would like your name withheld, call Student Services at (503) 842-8222 ext. 1100.

Family Educational Rights & Privacy Act

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

1. The right to inspect and review the student's education records within 45 days of the day the College receives a request for access.
    a. Students should submit to the registrar, dean, or head of the academic department (or appropriate official) written requests that identify the record(s) they wish to inspect. The college official will make arrangements for access and notify the student of the time and place where the records may be inspected. If the records are not maintained by the college official to whom the request was submitted, that official shall advise the student of the correct official to whom the request should be addressed.

2. The right to request the amendment of the student's education records that the student believes is inaccurate or misleading.
    a. Students may ask the college to amend a record that they believe is inaccurate or misleading. They should write the college official responsible for the record, clearly identify the part of the record they want changed, and specify why it is inaccurate or misleading. If the college decides not to amend the record as requested by the student, the college will notify the student of the decision and advise the student of his or her right to a hearing regarding the request for amendment. Additional information regarding the hearing procedures will be provided to the student when notified of the right to a hearing.
3. The right to consent to disclosure of personally identifiable information contained in the student's education records, except to the extent that FERPA authorizes disclosure without consent. One exception, which permits disclosure without consent, is disclosure to school officials with legitimate educational interests. A school official is defined as a person employed by the college in an administrative, supervisory, academic or support staff position (including law enforcement unit and health staff); a person or company with whom the college has contracted (such as an attorney, auditor, or collection agent); a person serving on the Board of Education; or assisting another school official in performing his or her tasks.
4. The right to file a complaint with the U.S. Department of Education concerning alleged failures by the college to comply with the requirements of FERPA. The name and address of the Office that administers FERPA is: **Family Policy Compliance Office,**U.S. Department of Education, 400 Maryland Avenue, SW, Washington, DC 20202-4605.

Buckley Amendment

The Family Educational Rights and Privacy Act of 1974 (Statute: 20 U.S.C. 1232g; Regulations: 34CFR Part 99) also known as the Buckley Amendment is a federal law which states (a) that a written institutional policy must be established and (b) that a statement of adopted procedures covering the privacy rights of students be made available. The law provides that the institution will maintain the confidentiality of student education records. Certain directory information is excluded from this law and may be disclosed at the discretion of the college.

Directory Information

At its discretion Tillamook Bay Community College may provide Student Directory Information in accordance with the provisions of the Family Education Rights and Privacy Act. Directory information is defined as that information which would not generally be considered harmful or an invasion of privacy if disclosed.

The following directory information may be released by the V.P. of Student Services or the Registrar at their discretion:

Name
Enrollment status
Dates of previous enrollment
Participation in officially recognized activities
Date & type of certificate, degree, honors & awards received
Address
E-mail address
Telephone number
Pictures

Students may request that directory information not be disclosed by filing a restriction of directory information form, available in Student Services. The request to withhold information will remain in effect (even after you have stopped attending or have graduated from TBCC) until you request, in writing, that it be removed. Students who sign the request will not be listed in news releases concerning honor rolls, or in commencement related publications. TBCC will not be able to provide verification services for as long as the request is active.

The college assumes that failure on the part of any student to specifically request the withholding of directory information indicates individual approval of disclosure.

Student Right-to-Know

In order for students to make more informed decisions about attending college, Tillamook Bay Community College makes the following information available in accordance with the federal Student Right-to-Know Act.

Updated March 11/2025, as reported to the US Department of Education through the Integrated Postsecondary Educational Data System (IPEDS) for 2023-2024.

The following completion and graduation rates are based upon a limited cohort of 47 first-time, full-time degree/certificate seeking students who entered TBCC in the fall term of 2020. Their academic outcomes for the following three-year period are included below. These rates may not be representative of the entire undergraduate student population.

Student Academic Outcomes

- Completed a degree or certificate at TBCC: 43%

- Transferred to another college or university without completing a degree or certificate: 17%
- Did not complete a degree or certificate but still enrolled at TBCC: 11%
- The combined percentage of students who completed their degrees/certificates at TBCC, transferred to another institution, or were still enrolled at TBCC fall term 2023 is 71%. This means that 29% did not continue their studies at TBCC or at another college or university during this three-year window of time.

Annual Security Report

TBCC reports annual crime statistics in compliance with Section 485(f) of the Higher Education Act of 1965, otherwise known as the Clery Act. The Annual Campus Safety and Security Survey may be found on the TBCC website. For further details you may contact the Director of Facilities and Safety at (503) 842-8222, ext. 1520.

SAVE Act Policies and Procedures

Campus Security Service

In accordance with its policy, Tillamook Bay Community College and its Board prohibits discrimination, harassment, or acts of bodily injury to any person in which the victim is intentionally targeted because of the actual or perceived race, religion, color, national origin, disability, sex, sexual orientation, age, height/weight ratio, marital status, gender, gender identity, organizational affiliation, political affiliation or veterans status. In addition, Tillamook Bay Community College prohibits sexual assault, domestic violence, dating violence and stalking.

The office of facilities and safety, is responsible for all safety activities on campus and will provide appropriate assistance as needed. All Tillamook Bay Community College employees have the authority to ask persons for identification and to determine whether individuals have lawful business at TBCC. Criminal incidents are referred to the Tillamook Police Department who has jurisdiction on the campus.

For the purpose of campus security policies, all criminal actions occurring on campus property will be investigated by the Tillamook Police Department, including sex offenses. TBCC maintains a highly professional relationship and works closely with Tillamook Police when incidents arise that require joint investigative efforts, resources, crime related reports, and exchanges of information, as deemed necessary. Tillamook Police Department regularly cruises the campus both during operational hours and after hours. They can be reached at (503) 842-2522. General facilities questions may be answered by the Director of Facilities and Safety, Jason Lawrence (503) 842-8222 ext. 1520 (office).

Crime Reporting

All employees, students, community members, crime victims and witnesses are strongly encouraged to immediately report crimes and campus safety related incidents occurring on property owned, leased, or otherwise controlled by TBCC to college authorities and the appropriate local law enforcement agency depending on where the crime/ incident occurs. Prompt reporting will assure timely warning notices on campus and timely disclosure of crime statistics**. To report an emergency dial 911** or Campus Safety at extension 1020 using any phone on campus. After receiving your call, Campus Safety will take the necessary action required to respond to the specific situation such as calling police, fire, or ambulance. All information of criminal actions will be forwarded to Tillamook Police Department.

To report a non-emergency, security or public safety related matter, call the office of facilities and safety at (503) 842-8222 ext. 1520. Tillamook Police may be reached at (503) 842-2522.

An Incident Report should be completed and returned to the director of facilities, human resources, and safety in Room 122 within 24 hours of an incident. Incident Report forms are available here and at Student Services. Campus safety requires the combined efforts of staff, students and the community. Do your part by immediately reporting suspicious behavior, activity, or crimes to the director of facilities, human resources, and safety. Any suspicious activity or person seen in parking lots, or on campus, should be reported to Tillamook Police at 911 or (503) 842-2522 (non-emergencies), or Campus Safety at extension 1520. Criminal offenses may also be reported to one of the following authorities on campus who will in turn contact Tillamook Police Department or the appropriate local law enforcement.

Campus Safety	Jason Lawrence	(office) 503-842-8222 ext.1520
V.P. of Student Services	Rhoda Hanson	(office) 503-842-8222 ext. 1110

TBCC encourages anyone who is the victim or witness to any crime to promptly report the incident to the police. Because police reports are public records under state law, the Police Department cannot hold reports of crime in confidence. Violations of the law will be referred to Tillamook Police and when appropriate, to the Associate V.P. of Student Services or the Director of Facilities and Safety for review.

It is a victim's right to choose whether or not to notify and seek assistance from law enforcement or campus authorities as described above, but is highly encouraged to do so.

Obtaining Sex Offender Information
Under current Oregon law, sex offenders information can be obtained through the State of Oregon Sex Offender Inquiry System at http://www. oregon.gov/OSP/SOR/

Information on offenders registered in Tillamook County can be obtained also from the Tillamook County Community Corrections website at http://www.tillamooksheriff.org/

Emergency Notifications
The TBCC Emergency Notification System will be used to communicate messages to segments of, or to the entire TBCC population as quickly as possible after confirmation is made that a legitimate emergency or dangerous situation exists. The use of this system during a declared campus state of emergency must be authorized by TBCC's Office of the President, or designee.

Emergency notifications/timely warning may include but are not limited to:

- Bomb threats or other imminent violent threats
- Fire alarms, and hazardous spills affecting the entire campus
- Building evacuations and lock downs affecting the entire campus
- Natural disasters
- Power outages and utility failures resulting in an imminent threat
- Campus closure due to declared civil emergency

Emergency notifications are sent out via the TBCC website and FlashAlert which sends to devices selected by the recipient. TBCC users will be directed to evacuate the building if required via notification by email, landline phone, or cell phone. The Emergency Notification System is based on requests only from authorized personnel. Messages conveyed through the TBCC Emergency Notification System will include specific information regarding evacuation, building lock downs, and other pertinent information directly related to student and staff safety. Contact Campus Safety (503) 842-8222 ext. 1020, to provide any information you may have about an emergency.

Weather closures or other emergency closures are recorded on (503) 842-8222 ext. 1100, TBCC website, and FlashAlert.

Timely Warnings
In the event that a situation arises, either on or off campus, that, in the judgment of the president or designee, constitutes an ongoing or continuing threat, a campus wide "timely warning" will be issued. The warning will be issued through the college e-mail, voice mail, and FlashAlert emergency notification system to students and staff, as is deemed appropriate, excluding victim names to ensure confidentiality.

Depending on the particular circumstances of the crime, especially in all situations that could pose an immediate threat to the community and individuals, hard copy notices may be posted in campus classrooms and in other prominent locations on campus. Timely warnings may include the following information:

- Information about the incident that triggered the warning
- Date, time and location of the incident
- Suspect information & description (if applicable and available)
- Who to contact at TBCC to report additional information about the crime to (usually Campus Safety at 503-842-8222 ext. 1520)
- Anyone with information warranting a timely warning should report the circumstances to Campus Safety at (503) 842-8222 ext.1520 or in person to the Campus Safety Office in Room 122 of the main campus located at 4301 Third Street, Tillamook. Campus Safety will send a timely warning to the campus.

Sexual Assault, Domestic Violence, Dating Violence, and Stalking Prevention and Response
TBCC prohibits sexual assault, domestic violence, dating violence & stalking. Sexual Assault is defined as any offense classified as a forcible or non-forcible sex offense under the uniform crime reporting system of the FBI.

Domestic Violence is defined as a felony or misdemeanor crime of violence committed by:

1. a current or former spouse or intimate partner of the victim,
2. a person with whom the victim shares a child in common,
3. a person who is cohabitating with or has cohabitated with the victim as a spouse or intimate partner,
4. a person similarly situated to a spouse of the victim under the domestic or family violence laws of the jurisdiction receiving grant monies (under VAWA), or
5. any other person against an adult or youth victim who is protected from that person's acts under the domestic or family violence laws of the jurisdiction.

Dating violence means violence committed by a person:

1. who is or has been in a social relationship of a romantic or intimate nature with the victim; and

2. where the existence of such a relationship shall be determined based on a consideration of the following factors:
    a. the length of the relationship;
    b. the type of relationship; and
    c. the frequency of interaction between the persons involved in the relationship.

Stalking is defined as engaging in a course of conduct directed at a specific person that would cause a reasonable person to:

- fear for his or her safety or the safety of others; or suffer substantial emotional distress.

Although the State of Oregon does not define "consent" in reference to sexual activity, below are boundaries to adhere to when engaging in sexual activities:

- Both parties show a clear and mutual understanding of exactly what they are consenting to.
- There is no coercion, force, threats, intimidation, or pressuring.
- Both parties express in words or actions a clear willingness to do the same thing, at the same time, in the same way, with each other.
- **Silence does not equal consent.**
- Consent is not indefinite and consent may be withdrawn at any time. At any time sexual activity must cease unless and until additional effective consent is given.

If you are a survivor of domestic violence, dating violence, stalking, or a sexual assault at this institution, your first priority should be to get to a place of safety. You should then obtain necessary medical treatment. TBCC strongly advocates that a survivor of the above crimes report the incident in a timely manner. Time is a critical factor for evidence collection and preservation. Any of the crimes listed above should be reported directly to one of the following:

1. Call Tillamook Police by dialing 911
2. You may also contact Campus Safety by using one of the emergency phones located in classrooms and throughout the campus and dialing 1020. After receiving your call, Campus Safety will take the necessary action required to respond to the specific situation.

In the event a survivor is unable to report a sexual assault, domestic violence, dating violence or stalking crime, TBCC Safety will ensure that the survivor has available the necessary care deemed appropriate. TBCC Safety will also work with the appropriate law enforcement agency to ensure accurate and prompt reporting of the incident.

Filing a report with the above staff will not obligate the victim to prosecute; however, this will result in Campus Safety filing a report with the Tillamook Police Department.

Filing a police report will ensure that:

1. a survivor of sexual assault receives the necessary medical treatment and tests (at no expense to the survivor) providing the opportunity for collection of evidence helpful in prosecution, which cannot be obtained later (ideally a survivor of sexual assault should not wash, douche, use the toilet, or change clothing prior to a medical/legal exam)
2. assure the survivor has access to free confidential counseling from counselors specifically trained in sexual assault crisis intervention.

If an offense occurs, these services are available for survivors:

Resource	Contact Information
Counseling & Survivor Advocacy:	
Tillamook County Women's Resource Center	503-842-9486
Tillamook Family Counseling Center	503-842-8201
Tillamook Department of Human Services	503-842-4453
National Domestic Violence Hotline	**1-800-799-7233**
Health Care:	
Tillamook County Health Department	503-842-3922
Tillamook Regional Medical Center	503-842-4444
Mental Health:	
Tillamook Family Counseling Center	503-842-8201

It is a survivor's right to choose whether or not to notify and seek assistance from law enforcement or campus authorities as described above, but is highly encouraged to do so.

Students or employees who report they have suffered sexual assault, domestic violence, dating violence or stalking shall be provided with a written explanation of their rights and options at the time of an incident. They will receive written notification of available counseling, health, mental health, victim advocacy, and other services which may be available—whether they are part of the on-campus community or live in the community.

The college will change a survivor's academic situation after an alleged offense listed above, if requested by the survivor and the changes are reasonably available regardless of

whether the survivor chooses to report the crime to Campus Safety or local law enforcement. Options could include enrollment in a different section of a class, withdrawal without penalty, or other reasonable accommodations.

Bystander Assistance Guidelines

If you are a bystander to a domestic violence, dating violence, sexual assault or stalking incident, in order to try to prevent harm or intervene during such an incident, you should immediately call Tillamook Police at 911 or Campus Safety (Dial 1020 from any campus phone or 503-842-8222 ext.1020). If you witness something that does not look or sound right, don't hesitate to call. Even if the situation resolves before police or campus personnel arrive, it still needs to be documented. If, on the other hand the situation continues to escalate, police or Campus Safety needs to be notified as soon as possible. Do not get yourself involved in a suspicious or threatening situation; immediately call and indicate that it is an emergency.

Recognizing Abusive Behavior

Domestic violence and abuse can happen to anyone. If you or if you suspect someone you know suffers abuse, contact Tillamook Police, Campus Safety, or the Associate V.P. of Student Services.

Tactics abusers may use towards victims can include the following:

- Blaming the victim or others and making the victim feel it is the victim's fault for the abuser's violent behavior. Many abusers also deny that the abuse even occurred.
- Dominating the relationship including making all decisions, treating you like a child or his/her property.
- Intimidating the victim by using threatening looks or gestures. May also include smashing/breaking things in front of victim. May show victim weapons abuser has, implying that there will be violent consequences.

Abusers are selective about whom they will abuse. They have the power to stop their abusive behavior, but choose not to do so unless it suits their purposes. They are also selective about the type of physical abuse they inflict so that it is on body parts that will not show.

If you suspect that someone you know is being abused, call Tillamook Police, Campus Safety or the Associate V.P. of Student Services. By speaking with the police or designated TBCC staff, they will be able to offer help to victims of abuse. If you are being abused, please contact any of the above staff. There is help and resources available to support you in this process.

Students or staff who have orders of protection, no contact orders, restraining orders, or similar lawful orders are encouraged to contact Campus Safety or the Associate V.P. of Student Services who will then be better able to respond in the event of an incident.

Victim's Rights

A student or employee who reports to TBCC that they suffered domestic violence, dating violence, sexual assault, or stalking incident, whether or not the offense occurred on or off campus, will be provided with a written explanation of victim rights outlining the following:

- Possible sanctions or protective measures that may be imposed following the final determination of an institutional disciplinary procedure regarding rape, acquaintance rape, domestic violence, dating violence, sexual assault, or stalking.
- Procedures victims should follow if a sex offense, domestic violence, dating violence, sexual assault, or stalking incident has occurred including:
    - evidence preservation;
    - to whom to report the alleged offense;
    - notification of proper law enforcement authorities, including local police;
    - assistance available from campus authorities in notifying law enforcement;
    - declination of notifying authorities;
    - orders of protection, no contact orders, restraining orders, or similar lawful orders.

Procedures for TBCC disciplinary action in cases of alleged domestic violence, dating violence, sexual assault, or stalking, including:

- prompt, fair, impartial investigation/resolution;
- training officials have received who conduct investigations/hearing;
- accuser and accused rights, including:
    - who may accompany either party to meetings/ proceedings;
    - being simultaneously informed of outcomes that include:
        - appeal procedures
        - changes in hearing results prior to finalization of results;
        - when results become final.

Information about how TBCC will protect the confidentiality of survivors, including how publicly available recordkeeping will be accomplished without the inclusion of identifying information about the victim, to the extent permissible by the law.

Notification to victims about existing counseling, health, mental health, victim advocacy, legal assistance, and other services available for victims, both on campus and in the community.

If requested, options and assistance for changing academic situations may be available.

Standards for Investigation & Disciplinary Action in Alleged Sex Offenses, Domestic Violence, Dating Violence & Stalking

TBCC disciplinary action in cases of domestic violence, dating violence, sexual assault or stalking shall be prompt and fair, with an impartial investigation and resolution. Conduct hearings shall be conducted by the Director of Facilities and Safety; and the Associate V.P. of Student Services who have been trained on issues related to these crimes and how to conduct a hearing process that protects the safety of victims and promotes accountability. The standard of evidence used during conduct proceedings will be a reasonable preponderance of evidence gathered during the investigation of an incident.

In cases of alleged offenses, both accuser and accused are entitled to have others present during a conduct proceeding, including the opportunity to be accompanied to any related meeting or proceeding by an advisor of their choice. Both accuser and accused will be simultaneously informed in writing of the outcome of any campus conduct hearing brought alleging any of the above offenses.

Sanctions

The College Board has directed the college president, pursuant to ORS 341.290 to establish administrative rules to govern the college and its students, and to administer disciplinary action. Sanctions TBCC may impose following a final determination of disciplinary proceedings regarding rape, acquaintance rape, and forcible and non-forcible sex offenses, domestic violence, dating violence, and stalking are outlined in the Student Code of Conduct and may include but are not limited to:

- Disciplinary probation - A verbal or written warning by the appropriate College Administrator.
- Temporary exclusion - Removal from classes or privileges, for a specified period of time.
- Expulsion - Termination of student status
- Temporary or permanent trespassing from Campus or specific Facilities

Upon written request, TBCC will disclose to the alleged victim of the above crimes the results of any disciplinary hearing conducted by the college against the student who is the alleged perpetrator of the crime or offense. If the alleged victim is deceased as a result of the crime or offense, TBCC will provide the results of the disciplinary hearing to the victim's next of kin, if so requested.

All college-related criminal actions, including sex offenses, domestic violence, dating violence, and stalking are reported to Campus Safety and are investigated in cooperation with Tillamook Police.

The college will change a victim's academic situation after an alleged offense listed above, if requested by the survivor and the changes are reasonably available, regardless of whether the victim chooses to report the crime to Campus Safety or local law enforcement. Options could include enrollment in a different section of a class, withdrawal without penalty, or other reasonable accommodations. In the event the accused or the survivor wants to appeal the results of a disciplinary proceeding, they may contact the V.P. of Instruction.

Community Education & Training

Community Education (Personal Enrichment)

Overview

TBCC is committed to life-long learning. The continuing and community education program plays an important role in this philosophy. Classes in this program are non-credit and students take them for personal enrichment, personal interest, or to enhance work skills.

Offerings Vary by Term

For the convenience of all district residents, classes are offered throughout Tillamook County and vary from short sessions and workshops to full-term courses that are scheduled during the day, evenings, and weekends. Each term TBCC publishes a Schedule of Classes that shows what is being offered for that term. The schedule can be found on our website www.tillamookbaycc.edu or in hard copy at the main campus and is mailed to all residential addresses in Tillamook, County. If you have questions, you can contact (503) 842-8222 ext. 1320.

Registration Link

Community Education - Tillamook Bay Community College

Workforce Development & Skill Development (Non-Credit)

Pre-College Learning

Designed for adult learners who need to improve basic skills in reading, writing, and math. Students build upon past experience and knowledge to progress toward their educational goals.

GED

General Equivalency Diploma Preparation

Students who have not received their high school diploma may study and prepare for the General Education Development (GED)examination at TBCC. GED preparation classes provide students 16 and older an opportunity to study for the GED exam.

Pre-college classes and General Education Development (GED) classes are open to anyone 18 or over who desires to improve basic reading, writing, and math skills at the pre-college level. Students 16 and 17 years old must first obtain an official release from high school before attending class. Adults interested in earning a GED may obtain information from Student Services (503) 842-8222 ext. 1100 or visit them at the main campus. These classes are offered in both English and Spanish.

The GED State Examination

The GED State Exam includes four tests: Reasoning through Language Arts, Social Studies, Science, and Math. The GED exam is available at Tillamook Bay Community College. Registration and schedules for GED exams are available through the TBCC Library (503) 842-8222 ext. 1720. Candidates should arrive for testing 10–15 minutes before the scheduled exam with state-issued photo identification. Students will need to register and pay for testing online at https://ged.com.

English for Speakers of Other Languages (ESOL)

The English for Speakers of Other Languages (ESOL) Program offers classes for persons whose native language is not English. Students study reading, writing, speaking, listening, and other language skills to improve English in academic, community, and employment settings.

ESOL classes are open to U.S. citizens, immigrants, and refugees who desire to improve their English language skills. Students needing special assistance to participate in the ESOL courses should contact Student Services at (503) 842-8222 ext. 1100, email studentservices@tillamookbaycc.edu, or visit them at the main campus.

CDL/Truck Driving

To help meet the needs of local employers, Tillamook Bay Community College offers a Truck Driver Training Program, which trains students to take the driving portion of the Commercial Driver's License (CDL) test. To date, 98% of students who have completed the training course have gone on to earn their CDL.

The program consists of four weeks of training including both classroom and driving time–as well as time on the state-of-the-art truck driving simulator–that prepares students for local, high-wage jobs.

The cost of the program is $5,250 plus additional fees associated with a CDL license (approximately $600). Scholarships are available to help cover the cost.

CDL Application Packet

Make an Appointment

Outdoor Stewards of Oregon (OSO)

Outdoor Stewards of Oregon (OSO) is a paid internship program offered through TBCC and three local land management agencies. Throughout this experience, learn essential industry skills and work alongside others in your future career field with a mentor that supports you. See available internships below. All internships require an OSO application. You may apply for multiple internships.

APPLICATIONS ARE NOW OPEN

Please apply below!

Internship	Interest	Location	Agency
State Forests - Management Internship	Forestry	Tillamook	Oregon Department of Forestry
State Forests - Recreation Internship	Forestry	Tillamook	Oregon Department of Forestry
Natural Resources Internship	Natural Resources	Hebo	Forest Service

Small Business Development Center

The Tillamook Small Business Development Center (SBDC), hosted by Tillamook Bay Community College, supports all for-profit small businesses (up to 500 employees) throughout our region.
Small businesses are the engine of Oregon's economic success, enriching our communities and providing vital local jobs. At the SBDC, we provide the tools to fuel that growth. We understand the unique challenges and rewards of business ownership, and we are dedicated to helping you succeed.

We serve entrepreneurs at every stage—whether you are just launching a startup or managing an established company in any industry. Our services include:

- **No-Cost, Confidential Advising:** Expert guidance tailored to your specific needs.
- **Resource Connections:** Direct links to local and statewide business networks.
- **Professional Training:** A wide range of workshops and online courses.

While some specialized training programs have associated fees, we offer financial aid and scholarships. Please inquire about availability if you are interested in financial assistance.

Contact us and we will help you unlock your business potential.

Main: 503-842-8222 Ext. 1420 | tillamook@oregonsbdc.org

Make your advising appointment today!

Request Advising in English

Solicitar Asesoramiento en Español

Customized Training
Tillamook Bay Community College offers customized solutions for training.

At TBCC we know that people make the difference. We create professional training solutions for your business based on your business's needs. We work in partnership with qualified, statewide industry experts to create training options that will help you meet your goals. The training programs and resources offered by TBCC assist in developing your skilled workforce and managers to support your success as an organization. By identifying your challenges, we will rapidly customize a solution for your specific business needs.

Academic Policies

Degree Requirements

General Education Statement

General Education is a key part of your college experience at TBCC. These courses are designed to help you build skills you'll use in your career, your community, and your everyday life.

Through General Education, you will:

- Learn how to think critically and solve problems
- Improve your communication skills
- Understand different cultures, perspectives, and histories
- Build confidence working with numbers, science, and technology
- Explore creative and artistic ideas
- Develop a stronger understanding of yourself and the world around you

Already Have a Degree?

If you already earned a degree (AA, AS, BS, or higher) from a regionally accredited college or university, your General Education requirements may be waived.

- Some programs (especially applied science degrees or certificates) may still require specific courses
- A Success Coach can help you understand what still applies to your program

3-Credit vs. 4-Credit Courses

In many cases, if your program requires a specific lower-division course, a **3-credit version** of that course may count in place of a 4-credit version.

If you're unsure, check with your advisor or Success Coach.

Experimental Courses

Courses numbered **99, 199, or 299** are considered experimental.

- These may count toward graduation at TBCC
- They may **not transfer** to other colleges or universities

Prerequisites (Before You Take a Course)

Some courses require you to complete another course or have certain skills before enrolling. These are called **prerequisites**.

If a course has a prerequisite, it will be clearly listed:

- In the **course description**, and/or
- In your **degree or certificate map**

What This Means for You

- Not every course has prerequisites
- If one is required, you'll need to complete it (or an equivalent) before enrolling
- In some cases, instructors may allow exceptions

If you're unsure whether you meet a prerequisite, your **Success Coach or advisor can help you figure it out** and plan your next steps.

Degrees & Majors

You'll choose a major when you apply to TBCC—but it's okay if that changes.

- You can update your major during registration before each term
- Your major can affect financial aid and graduation requirements
- You can change your program in your student portal (MyTBCC)

We recommend meeting with a Success Coach or advisor if you're unsure or thinking about changing your path.

Graduation Requirements

To earn an associate degree:

- You must complete **at least 90 credits**
- Courses must be numbered **100 or higher**
- At least **30 credits must be completed at TBCC**

Catalog (Why the Year Matters)

TBCC updates its catalog every academic year (summer through spring).

The catalog from the year you start is called your **catalog rights**—it determines your degree requirements.

Important Things to Know

- If you stay continuously enrolled, you can follow your original catalog
- If you take time off, you may need to follow a newer catalog
- If you change your major, your catalog updates to the current year

Catalogs are generally valid for **six years**, though some programs may have shorter limits.

Graduating & Final Steps

To graduate:

1. Complete all your program requirements
2. Apply for graduation
3. Make sure any outstanding balances are paid

Graduation Ceremony

- Held at the end of Spring term
- Students graduating during the academic year can participate

Diplomas

- Mailed **8–10 weeks after your degree is awarded**
- Sent to your address on file

Career Pathway Certificates

Some programs offer **Career Pathway Certificates** along the way to a degree.

- Typically 12–44 credits
- Require at least a 2.0 GPA
- Can count toward an Associate of Applied Science degree

One-Year Certificates

To earn a one-year certificate:

- Complete at least **12 credits at TBCC**
- At least **9 credits must apply to your certificate**
- Up to 12 credits of Pass (P) may count
- Up to 12 credits of Cooperative Education may count
- Up to 9 credits of experimental courses (199/299) may count

Use your degree or certificate map to plan your courses, and meet with a Success Coach to stay on track and aligned with your goals

Grading & Academic Standing

Grade Guidelines

TBCC Policy No. 431

The traditional grading system uses "A," "B," "C," "D," "F," "P", "NP," and "I" as defined under Grade Definitions. A change to the student's enrollment option is available at any time before the published deadlines for the quarter by completing the approved process. The Faculty Curriculum Committee specifies grading options for courses, degrees and certificates. Transfer students should be aware that four-year institutions limit the number of pass/no pass credits that may be applied to a degree and frequently recalculate the student's grade point average by weighing each "P" as if it were a "C" or "D," and each "NP" as if it were an "F" from the traditional enrollment option.

Grade Definitions:

A Superior. Honor grade indicating excellence. Earned as a result of a combination of some or all of the following as outlined by the Faculty in the course syllabus: superior examination scores, consistently accurate and prompt completion of assignments, ability to deal resourcefully with abstract ideas, and/or superior mastery of pertinent skills. Additional considerations include probable success in a field relating to the subject and/or probable continued success in subsequent courses.

B Above average. Honor grade indicating competence. Earned as a result of a combination of some or all of the

following as outlined by the Faculty in the course syllabus: high examination scores, accurate and prompt completion of assignments, ability to deal well with abstract ideas, commendable mastery of pertinent skills. Additional considerations include probable continued success in subsequent courses.

C Average. Standard college grade indicating successful performance earned as a result of a combination of some or all of the following as outlined by the Faculty in the course syllabus: satisfactory examination scores, generally accurate and prompt completion of assignments, ability to deal with abstract ideas, fair mastery of pertinent skills. Additional considerations include sufficient evidence of ability to succeed in subsequent courses.

D Substandard but receiving credit. Substandard grade indicating the Student has met only minimum requirements as outlined by the Faculty in the course syllabus. Earned as a result of some or all of the following: low examination scores, generally inaccurate, incomplete or late assignments, inadequate grasp of abstract ideas, barely acceptable mastery of pertinent skills, insufficient evidence of ability to succeed in subsequent courses. Does not satisfy requirements for entry into courses where prerequisites are specified.

F Failure. Non-passing grade indicating failure to meet minimum requirements as defined by the Faculty in the course syllabus. Earned as a result of some or all of the following: non-passing examination scores, inaccurate, incomplete or late assignments, failure to cope with abstract ideas, inadequate mastery of pertinent skills. Does not satisfy requirements for entry into courses where prerequisites are specified. Faculty must record the last date attended for students who earn an "F."

P Pass. Acceptable performance. A grade of "P" represents satisfactory achievement which would have been graded "C" or better on the traditional grading scale. The "P" grade is disregarded in the computation of Tillamook Bay Community College grade point average. This grade is available only when a student has selected the pass/no pass option prior to the published drop or withdrawal deadlines for the quarter.

NP No Pass. Unacceptable performance. A grade of "NP" represents unsatisfactory achievement which would have been graded "D" or lower under the traditional grading system. The "NP" grade is disregarded in the computation of the grade point average. Faculty must record the last date attended for students who earn an "NP." This grade is available only when a student has selected the pass/no pass option prior to the published drop or withdrawal deadlines for the quarter.

SC Satisfactory completion. Mark used when a student satisfactorily completes continuing education units (CEUs).

NSC Not satisfactory completion. Mark used when a student does not satisfactorily complete continuing education units (CEUs).

I Incomplete. At the time the final course grades are recorded, the Faculty may, with the consent of the student; record an "I" mark and grant additional time for the completion of a minor but essential requirement for the student who is otherwise making satisfactory progress. If no replacement grade for an "I" mark is provided within three complete terms, the "I" mark will automatically be changed to an "F" or "NP" (depending on the grade option chosen by the student). This mark does not entitle a student to repeat a course without paying tuition. In order to qualify for the "I" grade, a student must have completed a significant portion of the course and have explicit instructor permission. If an "I" grade is awarded, it will follow the process outlined in Administrative Rule D 15. Dual credit classes are not eligible for "I" grades.

W Withdrawal. This mark is to be used only by Student Services when the student has completed the official withdraw process prior to the published drop or withdrawal deadlines for the quarter.

CIPR Course in Progress, Re-Register. A mark used only for designated classes. This may include courses in modular or self-paced programs. This mark may also be used in a skills based course to indicate that the student has not attained the skills required to advance to the next level. If the course is not completed within a year, the "CIPR" changes to an "AUD" (Audit) on the transcript unless the course was repeated and a grade earned.

CIP Course in Progress. A mark used only for designated classes in modular or self-paced programs that do not conform to the normal academic calendar. If the course is not completed within a year, the "CIP" changes to an "F" or "NP" (based on the student's prior enrollment option choice) on the transcript unless the course was repeated and a grade earned. A student does not need to re-register for the course.

AUD Audit. This mark may be used only by Student Services. The "AUD" mark, when allowed, permits a student to attend a course without receiving a grade or credit for the course even though tuition and fees must be paid. To be assigned

an “AUD” mark, a student must obtain permission from the Faculty and notify Student Services prior to the published drop deadlines. The Faculty Curriculum Committee may specify whether this mark is available for each course. The “AUD” mark does not satisfy requirements for entry into courses where prerequisites are specified.

NS No Show. This mark may be assigned by Faculty during the first week of the quarter to indicate that a student has never attended class. These students will be dropped by Student Services. If Faculty fail to assign an NS mark to students who never attend class, and if those students fail to drop or withdraw before the published deadlines, a grade of F or NP will be assigned according to the enrollment option they selected at registration.

R Repeated. This mark may only be used by Student Services. See “Repeated Courses.” All grades earned will appear on the transcript. The highest grade earned for a course will be calculated into the GPA; all other grades earned for that course will be excluded from the GPA. If a course can be taken more than once for credit, the oldest grade for that course will be excluded only when the repeat limit is exceeded.

A student’s grade point average is calculated in the following way:

The point value for a grade is multiplied by the number of credit hours earned for that course. Total grade point values are divided by the total number of credit hours taken by the student.

Grades of “P” and “NP” and marks of “SC,” “NSC,” “I,” “W,” “X” (no longer available for use), “CIP,” “CIPR,” “R,” “NS,” and “AUD” are disregarded in the computation of the grade point average.

Grade Policies

Repeated Courses
TBCC Policy No. 432

Faculty must specify in writing, as part of the syllabus, the specific grading policies for the class. Grading is the prerogative and responsibility of the faculty. Faculty are responsible for the assignment of the final course grade. The assigned grade must reflect the performance of the student in the course commensurate with the content and objectives of the course. If a student questions his or her grade, the faculty has a responsibility to discuss the matter with the student. If the faculty cannot satisfactorily resolve the matter, the student must be advised of the grievance procedures.

Should a grievance be filed, the faculty will provide assistance as necessary to process the grievance. Graded examinations, papers, and other sources of evaluation are to be available to the student for inspection and discussion. If the faculty chooses ultimately to retain these materials, they must be kept for a period of one year. If graded materials become the property of the student, then uncollected materials must be kept for one term. Adjunct faculty should arrange for storage with the department in their absence. The grade records will be retained for at least one year to provide the opportunity for review and resolution of grade disputes. In the event that — through the student grievance procedure — a grade change is indicated, the change can be initiated only by the faculty, the Vice President of Instruction and Student Services, or College President as appropriate to the grievance procedure and organizational structure of the college. In the event the faculty is no longer employed by the college, grade changes can be made by the Vice President of Instruction and Student Services providing there is sufficient evidence to make a change and that the faculty is not readily available for consultation.

Adding or Dropping a Course
TBCC Policy No. 436

Prior to the published drop deadlines, students shall be able to drop any registered class by completing the official drop process. Such action by the Student shall result in no charges for the course or courses (or reimbursement if charges have already been paid); the course shall be removed from the transcript.

Students shall be able to withdraw from any registered class by completing the official withdraw process before the published withdraw deadline. This action shall result in a mark of “W” appearing for the course or courses on the transcript. Students must withdraw before the published withdraw deadline, before the end of week eight of the term, or a grade will be assigned by the Faculty.

All students are encouraged to work with, and talk with, their faculty member prior to dropping and/or withdrawing. Students are required to submit the college withdraw form in order to be removed from the class roster.

Special Circumstances
TBCC Policy No. 437

Tillamook Bay Community College (TBCC) reserves the right to establish procedures for unusual circumstances. Such procedures may be, but not limited to, the following;

1. Experimental Courses
   All programs are authorized to offer experimental Special Topics Courses for the purpose of introducing new materials on a trial basis. The following

designations shall be used:
XX 199X or XX 299X, Course Title (e.g., ART 299B History of Photography)

Experimental courses shall be approved by the appropriate Faculty Curriculum Committee, and/or the Vice President of Instruction and Student Services. A course outline, including the course description and learning outcomes, must be filed with the Office of Instruction, but no other approvals will be required.

Experimental Courses shall be offered a maximum of two terms, after which the course material must be offered in a conventionally numbered course having the normal course approval. Except as provided in the "Granting Degrees and Certificates Policy," degree and certificate candidates shall be limited to 9 credits of 199-299 Experimental Courses.

2. Student Enrollment in Concurrent and/or Overlapping Courses
   Students may not enroll in concurrent or overlapping courses. Exceptions may be granted only after approval by the Vice President of Instruction and Student Services.

3. Student Overload
   Students are allowed to enroll in a maximum of 19 credits hours. Special permission must be obtained from the Vice President of Instruction and Student Services or designee to increase registration above 19 credit hours.

4. Course Substitutions
   Students have the right to petition for the following:
   1. Waiver of comprehensive degree and/or certificate requirements
   2. Substitution of course work to meet the General Education requirements
   3. Substitution of course work to meet degree and/or certificate requirements
   4. Awarding of non-traditional credit

   Substitution of course work to meet General Education requirements or waivers of comprehensive degree and/or certificate requirements shall be approved/disapproved by the Vice President of Instruction and Student Services or a designee. For substitutions of course work to meet degree and/or certificate requirements, and/or for awarding of non-traditional credit, the campus designee shall approve/disapprove petitions in accordance with guidelines established by the Faculty Curriculum Committee. No student can graduate for less than the required number of credits. Credit can be given for equal course work, but it cannot be waived entirely.

5. Independent Study
   Independent Studies are allowed in rare and unusual circumstances (e.g. a course is needed for graduation and/or the course is guaranteed on a student's degree map and there is insufficient enrollment to run the course as a normal section). In these circumstances an Independent Study Application will be completed and submitted for approval to the Vice President of Instruction and Student Services. The course must run during a regularly scheduled term and include a written plan for course expectations and meeting the course learning outcomes.

6. Student Membership on College Committees
   Student input on college committees is valuable for the student, staff and community. Committee work provides a learning experience for students as well as an opportunity to be an active participant in the policy-making and environment shaping of the college community. Policies have a major impact on Tillamook Bay Community College's mission to recruit and retain students, and student input provides staff with the viewpoint of the individuals we are hired to serve. It also provides employees the opportunity, as educators, to mentor and pass on "lab experience" in group process, communication, decision-making and other life-long skills. Committees are an integral part of the Tillamook Bay Community College's policy- making process; therefore, Tillamook Bay Community College committees that recommend, formulate, or review student affairs policy shall include student membership. College Council will always ask for a student member.

7. Student Identity
   TBCC reserves, and exercises, the right to verify student identity, particularly students who enroll, register and complete courses at a distance.

Honors
TBCC Policy No. D 435

Honors

The college will recognize academic excellence in students pursuing a declared major, who have earned a 3.5 or higher GPA on a minimum of 12 graded credits (excluding pass/no pass), in a given term and is making Satisfactory Academic Progress as defined by the college.

Term Honors

- Honors List: 3.5 – 3.74
- Highest Honors: 3.75 – 4.00

Graduation Honors

- Cum laude: 3.50 – 3.74
- Magna cum laude: 3.75 – 3.89
- Summa cum laude: 3.90 – 4.0

Graduation honors are noted on the student transcript, and students will receive a gold honors cord to wear at graduation.

Satisfactory Academic Progress
TBCC Policy No. D 433

Tillamook Bay Community College students who are not making satisfactory academic progress will be provided the opportunity to access services and resources designed to support learning and achievement of academic goals. Individuals not making satisfactory academic progress, as defined in this policy, may be denied continued admission. Students have the right to appeal this sanction following the college procedure.

Currently enrolled students pursuing a degree or certificate must maintain Satisfactory Academic Progress in the following two ways:

1. Maintain a cumulative Grade Point Average (GPA) of 2.0 or higher AND
2. Successfully complete 2/3 (66.67%) of attempted credits per term

Students will be classified in one of the following levels of academic standing, based on their academic progress:

- Good standing
- Academic probation or continued probation
- Academic suspension

Students failing to achieve Satisfactory Academic Progress shall be alerted by the college and provided information regarding resources, as well as procedures designed to support improved academic performance.

Not Meeting Satisfactory Academic Progress

Students who fail to maintain Satisfactory Academic Progress (SAP) shall be assisted by the college to return to Good Academic Standing. Unsatisfactory Academic Progress stages are as follows:

1. **Alert** – Student's cumulative GPA dropped below a 2.0, and/ or student did not complete two-thirds (66.67%) of all attempted credits in a term. Students are strongly encouraged to seek assistance to improve their GPA or completion of courses. Enrollment in courses is available while in the Alert stage.
2. **Probation** – Student's cumulative GPA is below 2.0 and/ or the student did not complete two-thirds (66.67%) of all attempted credit for a second term. The student is in Probation status. He/she will not be allowed to register until an appeal has been completed and the appeal has been approved.
3. **Probation – Probation with Academic Plan** – A student who successfully appeals his/her SAP status will be placed on Probation status for one term. At the end of the Probation term, the student's academic standing and progress will be evaluated. If the student has a cumulative GPA of 2.0 or higher and has satisfactorily completed enough credits to complete two-thirds of his/her courses, Good Standing will be re-established for the student.
4. **Suspension –** Student did not meet SAP standards while in Warning or Probation status. Student is not eligible to register for courses while Suspension. A student may appeal the suspension status by developing a career education plan and appeal, which will be reviewed by the Vice President of Instruction and Student Services or the Associate Vice President of Student Services. Suspension status is removed by approval of the Vice President of Academic and Student Services or the Associate Vice President of Student Services. If no career education plan and suspension appeal is filed or if the appeal is denied, the student will only be allowed to enroll at TBCC after at least one year's suspension and with the completion of the suspension appeal process.

Transfer Credit

Applying & Transfer Credit

Apply to TBCC

To get started, complete an admissions application on the TBCC website.

- Go to the **Admissions** section
- Select the **Credit/Degree Application**
- Complete and submit the form online

Need help?

- Computers are available in the TBCC Library
- You can request a paper application from Student Services

Student Services
4301 Third St., Tillamook, OR 97141
(503) 842-8222 ext. 1100
studentservices@tillamookbaycc.edu

Transfer Credits from Other Colleges

You may be able to transfer credits from another college or university if:

- The school is **regionally accredited**
- You earned a grade of **A, B, C, or Pass (P/S)**

How to Transfer Credits

1. Apply and be admitted to TBCC
2. Send your **official transcripts** to Student Services
3. Complete a **Transfer Credit Evaluation Request form**

Transfer evaluations are completed in the order they are received.

Important Notes

- Most credits must have been completed within the last **10 years**
- Pass (P/S) grades only transfer if they represent a **C or better**
- Transfer GPA does **not** count toward your TBCC GPA
- TBCC determines how transfer credits apply to your program

Career Technical Education (CTE) courses may transfer with additional review and approval.

Sending Transcripts

Once TBCC receives your transcripts, they become part of your student record.

- TBCC does **not** provide copies of transcripts from other schools
- If you need copies, request them from your previous institution

International Transcripts

If you attended school outside the United States:

- Your transcripts must be **translated (if needed)**
- They must be evaluated **course-by-course** by an approved service

Use a provider listed by the **National Association of Credential Evaluation Services (NACES)**:
www.naces.org

Credit from Non-Accredited Institutions

You may be able to receive credit for training or coursework from non-accredited organizations, such as:

- Hospitals
- Corporations
- Banks
- Training programs

What You'll Need

- Training records
- Course outlines
- Transcripts (if available)

TBCC faculty will review your materials and determine if credit can be awarded.

Important Limits

- Up to **25% of your program** can come from this type of credit
- Only subjects offered at TBCC will be considered
- These credits typically **do not apply to an AAOT degree**

For more information, contact Student Services.

Credit for Prior Learning

You may also be able to earn credit for prior learning, military experience, or other non-traditional pathways.

See the **Credit for Prior Learning** section of this catalog for details.

Credit for Prior Learning

Official transcripts include the college seal and the signature of the Registrar. To be considered official most colleges, universities, and employers require transcripts to be submitted in the original sealed envelope or through secure electronic exchange.

An official transcript may be requested online at www.getmytranscript.com or through TBCC Student Services: 4301 Third Street, Tillamook, OR 97141.

Non-Traditional Credit

TBCC Policy No. D 408

Experiential learning is the process by which a student receives credit for experience, or information, gained outside of the traditional academic setting. Tillamook Bay Community College awards experiential learning credit for;

- Cooperative Education and Experience courses within the college catalog (e.g. Internships, work experiences and clinical practices as defined in the college catalog for individual programs);
- Credit by Examination (AP, IB, Clep/DPTTS); and,
- Credit for Prior Learning (CPL) according to state guidelines

Credit for Prior Learning (CPL) is a process that students may use to demonstrate knowledge and/or skill to earn college credit for existing TBCC classes by submitting descriptions, documents, tests, and other evidence of learning to department heads and/or faculty for assessment. CPL is based only on the assessment of documents; it is not a graded process. If students wish to receive a letter grade, they may apply for credit through the Credit by Examination process or register for the class. Credit for Prior Learning is documented, and noted, on the college transcript as such. Students who intend to transfer CPL credits to a four-year institution should check that institution's policies for acceptance of CPL credit.

All experiential learning;

- Conforms to Standards of the Council for Adult and Experiential Learning (www.cael.org), including:
  a. Credit should be awarded only for learning, not for experience.
  b. College credit should be awarded only for college-level learning.
  c. Credit should be awarded only for learning that has a balance, appropriate to the subject, between theory and practical application.
  d. The determination of competence levels and of credit awards must be made by appropriate subject matter and academic experts.
  e. Awards credit course-by-course, not in blocks.

Satisfactory Academic Progress (SAP)

To continue receiving financial aid you need to maintain SAP, which includes:

- Maintaining a cumulative GPA of 2.0 or higher.
- Successful completion of two-thirds of attempted credits each term.
- Ability to complete declared degree or certificate within 150% maximum time frame limit.

Two-Thirds Completion Chart

Credits Attempted	Must Successfully complete
19	13
17-18	12
16	11
14-15	10
13	9
11-12	8
10	7
8-9	6
7	5
5-6	4
4	3
2-3	2
1	1

Passing grades include: A, B, C, D and P (pass). The following grades are considered attempted but not completed or passing credits: F, NP (no pass), W (withdraw), and I (incomplete).

Withdrawal, lack of attendance in classes, and other non-completion of classes may require a student to repay financial aid received from Title IV programs.

The Financial Aid Office reviews academic performance each term, and if a student fails to maintain any of the requirements listed above, the student will be placed on SAP Warning and, in some cases, suspension.

Warning

Status given if a student's cumulative GPA dropped below a 2.0, and/or the student did not complete two-thirds (66.67%) of all attempted credits in a term, and the student is able to graduate within 150% maximum time frame limit. A student is able to receive financial aid while on financial aid warning status, but must meet SAP standards during that term of enrollment to remain eligible for subsequent financial aid.

Suspension

Status given if a student did not meet SAP standards while in Warning or Probation status, or it is determined that the student will not be able to graduate within 150% maximum time frame limit, or a student in Financial Aid Academic Plan status fails to follow the plan. The student is not eligible to receive financial aid while on Financial Aid Suspension.

Probation

Status only granted upon the approval of a Financial Aid SAP Appeal, probation status allows a student to receive financial aid for one term. The student must meet SAP standards by the end of that term to remain eligible for subsequent financial aid.

Probation with Academic Plan

Status only granted upon the approval of a SAP Appeal with the condition the student follows a learning contract. The student is eligible to receive financial aid as long as the student continues to follow the academic plan and maintains Satisfactory Academic Progress.

Add/Drop & Withdrawal

Prior to the published drop deadlines, students may drop any registered course by completing the official drop process. Such action by the student will result in no charges for the course or courses (or reimbursement will be made if charges have already been paid), and the course or courses will not appear on the student's transcript. Please note that even late start credit classes must be dropped by the add/drop deadline.

Dropping Courses During Registration

- Go to MyTBCC
- Enter your username and password
- Look for the Student Registration box and click register
- Click My Schedule
- The courses you have registered for will be listed on this screen
- Check the DROP checkbox next to the course you plan to drop

Dropping Courses the First Week of Classes

Courses may be dropped through the first week of classes by following the steps outlined above in the section 'Dropping Courses During Registration,' or by filling out a Registration & Change form available from Student Services. For registration concerns, call Student Services (503) 842-8222 ext. 1100.

Official Course Withdrawal

Withdrawing will result in a grade of "W" appearing for the course or courses on your transcript. The student's withdrawal date is based on the date that the college is provided with "official" notice of withdrawal. Official notice occurs when the Student Services Office is notified of intent to withdraw via the completion of a withdrawal form. Students have until the end of Week 8 to withdraw from courses.

Withdrawing from College

You may formally withdraw from all courses by filing a withdrawal form with Student Services. If you have applied for financial aid or veterans' benefits, you must also notify the appropriate office of your intentions to withdraw as your financial aid may be impacted.

Board Policies & Administrative Rules

View Board Policies & Administrative Rules on our website.

About TBCC / Disclosures

Accreditation

TBCC is proud to be accredited by the Northwest Commission on Colleges and Universities. Accreditation of an institution of higher education by the Northwest Commission on Colleges and Universities indicates that it meets or exceeds criteria for assessment of institutional quality evaluated through a peer review process. An accredited college or university is one which has available the necessary resources to achieve its stated purposes through appropriate educational programs, is substantially doing so, and gives reasonable evidence that it will continue to do so in the foreseeable future. Institutional integrity is also addressed through accreditation.

Accreditation by the Northwest Commission on Colleges and Universities is not partial but applies to the institution as a whole. As such, it is not a guarantee of every course or program offered, or the competence of individual graduates. Rather, it provides reasonable assurance about the quality of opportunities available to students who attend the institution.

Inquiries regarding an institution's accredited status by the Northwest Commission on Colleges and Universities should be directed to the administrative staff of the institution. Individuals may also contact:

Northwest Commission on Colleges and Universities
8060 165th Avenue N.E., Suite 100, Redmond, WA 98052
(425) 558-4224 • www.nwccu.org

Strategic Plan 2022-2029

TBCC 2022-2029 Strategic Plan

Tillamook Bay Community College is in the fourth year of the seven year strategic plan which is aligned with the accreditation cycle. In 2024-2025, Strategic Initiatives were adjusted based on project completion, and to align the College's work with Strategic Priorities. TBCC joined the Rural Guided Pathways Project in 2025, which is designed to produce better student experience, ensure more students earn credentials and increase economic opportunity. This project aligns well with the Strategic Plan and provides an implementation framework that will lead to more successful improvement at TBCC.

In October 2021, Tillamook Bay Community College (TBCC) successfully completed its accreditation cycle with an excellent evaluation. The experience of crafting our self-study and getting ready for the visit was valuable for learning. We feel a sense of pride in our achievements and are ready to pave the way for improvements across the college. We were especially pleased to receive commendation.

NWCCU "commends its collegiality and collaborative effort to support student success through comprehensive outcomes assessment and continuous improvement planning."

This laid the foundation for formulating a new strategic plan, coinciding with the start of a fresh seven-year accreditation cycle. We partnered with the Coraggio Group to involve the community in developing this new strategic plan This began with community engagement efforts which included stakeholders such as business community leaders (including industry-specific advisory group members), K-12 partners (including the Tillamook Education Consortium), elected local and regional officials, non-profit and governmental agency partners, foundation supporters, students, staff, faculty, and members of the TBCC Board of Education. We collected viewpoints and priorities from these stakeholders through a community-wide survey with 179 responses. Additionally, we held 15 focus groups with 97 participants and conducted four individual interviews. A special focus on including the perspectives of the Latinx community involved hosting a focus group with Latinx students and another with Latinx prospective students and their parents.

Download a Copy

Consumer Information Hub

View Board Policies & Administrative Rules on our website.

Drug-Free Schools

TBCC recognizes controlled substance abuse as illegal and interfering with effective teaching, work, and the development of a safe and healthy environment for learning. The college has a fundamental legal and ethical obligation to prevent controlled substance abuse and to maintain an alcohol/drug-free work and educational environment.

For information on drugs and their harmful effects: **https://www.cdc.gov/nchs/fastats/drug-overdoses.htm**

For information on counseling and assistance programs: **https://tfcc.org/addiction-recovery/**

Addiction Group: Addiction Treatment, Rehab, & Recovery Info

A. **Alcohol, Marijuana, and Controlled Substances:** The unlawful manufacturing, distribution, dispensing, possession or use of alcoholic liquor, intoxicants, marijuana or controlled substances not medically prescribed is prohibited. Being under the influence of these to any degree by any employee in or about the college buildings, or on the college premises or while performing any duties for the college, is prohibited and is cause for suspension and/or dismissal. If the employee is not dismissed, suspension may be imposed in combination with a requirement to complete a drug or alcohol treatment and rehabilitation program.

   All employees are required to abide by this alcohol and drug-free workplace policy. In addition, they shall notify the Director of Human Resources within five (5) days of their conviction for a violation of substance abuse laws involving the workplace, or if they became aware that another employee has been convicted of such a violation.

   Employees may seek referral assistance from the Director of Human Resources in connection with alcohol or drug-related problems. Reasonable efforts shall be made to handle such requests confidentially. Requests for assistance are encouraged and will not themselves be considered as ground for dismissal. Such requests shall not, however, excuse violations prohibited by this policy.

   The consumption of alcoholic beverages by an employee at a social function held in relation to an employee's work for the college does not, by itself, constitute a violation of this policy, provided the employee remains in compliance with all state or local laws and other provisions of this policy.

B. **Student Violations:**
Possession, consumption, being under the influence or furnishing of alcoholic beverages (as identified by federal or state law) on college-owned or controlled property or at college or student organization supervised functions is prohibited, except as allowed by rules and procedures of the Tillamook Bay Community College Board of Education.

Possession, consumption, being under the influence or furnishing of marijuana, narcotics or dangerous drugs, as defined by ORS 475 and ORS 167.203 to 167.252 except when use or possession is lawfully prescribed by an authorized medical doctor or dentist or licensed healthcare provider.

C. **Student Penalties:**
1. Expulsion from Tillamook Bay Community College (i.e., permanent removal of the privilege to attend Tillamook Bay Community College)
2. Suspension from Tillamook Bay Community College for a definite period of time and/or pending the satisfaction of conditions for readmission, (i.e., suspension of the privilege to attend Tillamook Bay Community College)
3. Removal from class(es) for which the student is currently registered
4. Restitution for damages
5. A specified period of college and/or community service
6. Disciplinary probation with or without the loss of privileges for a definite period of time. The violation of the terms of the disciplinary probation or the breaking of any college rule during the probation period may be grounds for suspension or expulsion from the college
7. Disciplinary admonition and warning
8. Any other sanction the college deems educationally appropriate.

The preceding is from TBCC policy Article 213 Drugs and Alcohol on Campus/School Policy. This information is also available in hard copy from Student Services.

FERPA

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

1. The right to inspect and review the student's education records within 45 days of the day the College receives a request for access.
    a. Students should submit to the registrar, dean, or head of the academic department (or appropriate official) written requests that identify the record(s) they wish to inspect. The college official will make arrangements for access and notify the student of the time and place where the records may be inspected. If the records are not maintained by the college official to whom the request was submitted, that official shall advise the student of the correct official to whom the request should be addressed.
2. The right to request the amendment of the student's education records that the student believes is inaccurate or misleading.
    a. Students may ask the college to amend a record that they believe is inaccurate or misleading. They should write the college official responsible for the record, clearly identify the part of the record they want changed, and specify why it is inaccurate or misleading. If the college decides not to amend the record as requested by the student, the college will notify the student of the decision and advise the student of his or her right to a hearing regarding the request for amendment. Additional information regarding the hearing procedures will be provided to the student when notified of the right to a hearing.
3. The right to consent to disclosure of personally identifiable information contained in the student's education records, except to the extent that FERPA authorizes disclosure without consent. One exception, which permits disclosure without consent, is disclosure to school officials with legitimate educational interests. A school official is defined as a person employed by the college in an administrative, supervisory, academic or support staff position (including law enforcement unit and health staff); a person or company with whom the college has contracted (such as an attorney, auditor, or collection agent); a person serving on the Board of Education; or assisting another school official in performing his or her tasks.
4. The right to file a complaint with the U.S. Department of Education concerning alleged failures by the college to comply with the requirements of FERPA. The name and address of the Office that administers FERPA is: **Family Policy Compliance Office,**U.S. Department of Education, 400 Maryland Avenue, SW, Washington, DC 20202-4605.

Annual Security Report

TBCC reports annual crime statistics in compliance with Section 485(f) of the Higher Education Act of 1965, otherwise known as the Clery Act. The Annual Campus Safety and

Security Survey may be found on the TBCC website. For further details you may contact the Director of Facilities and Safety at (503) 842-8222, ext. 1520.

Contact Directory

Departments

Academic Services
842-8222, ext.1050
angelcavanaugh@tillamookbaycc.edu

Business Office
842-8222, ext. 1220
paymentinformation@tillamookbaycc.edu

Cashier
842-8222, ext. 1240 or 1220
paymentinformation@tillamookbaycc.edu

Career Education Advisor
842-8222, ext. 1100
studentservices@tillamookbaycc.edu

Career and Technical Education
842-8222, ext.1310
sherrycook@tillamookbaycc.edu

CDL Program
842-8222, ext. 1320
joanncritelli@tillamookbaycc.edu

Community/Continuing Education
842-8222, ext. 1320
joanncritelli@tillamookbaycc.edu

Customized Training
842-8222, ext. 1320
joanncritelli@tillamookbaycc.edu

Disability Services
842-8222, ext. 1100
studentservices@tillamookbaycc.edu

Financial Aid Office
842-8222, ext. 1130
tbccfinancialaid@tillamookbaycc.edu

Human Resources
842-8222, ext.1021
pauljarrell@tillamookbaycc.edu

Information Technology
842-8222, ext. 1610 or 1620
sherylneu@tillamookbaycc.edu
thomaswolfe@tillamookbaycc.edu

Library
842-8222, ext. 1720 or 1710
claresobotka@tillamookbaycc.edu

Office of Instruction
842-8222, ext. 1050
mattkasfeldt@tillamookbaycc.edu

President's Office
842-8222 ext. 1015
pauljarrell@tillamookbaycc.edu

Registrar
842-8222, ext. 1145
ronaldneu@tillamookbaycc.edu

Small Business Development Center
842-8222, ext. 1410 or 1420
tillamooksbdc@bizcenter.org

Student Services
842-8222, ext. 1100
studentservices@tillamookbaycc.edu

Veteran Services
842-8222 ext. 1130
ronaldneu@tillamookbaycc.edu

College Board of Education

- Mary Faith Bell, Chair
- Andrea Goss, Vice-Chair
- Kathy Gervasi
- Shannon Hoff
- Mary Jones
- Betsy McMahon
- Tamra Perman

College President

- Paul Jarrell, Ph.D

Vice Presidents

- Rhoda Hanson, IV.P. of Student Services
- Michael Weissenfluh, V.P. of Instruction

Locations

Main Campus
4301 Third Street
Tillamook, Oregon 97141
842-8222
FAX (503) 842-8334
TDD (503) 842-2467

Tillamook High School
2605 12th Street
Tillamook, OR 97141

TBCC South
Nestucca Valley High School
34660 Parkway Drive
Cloverdale, Oregon

TBCC North
Neah-Kah-Nie High School
24705 Hwy 101 N.
Rockaway Beach, Oregon

Partners for Rural Innovation
4506 Third Street
Tillamook, Oregon

Communication Policy

Student Emails & Web Portals

Tillamook Bay Community College will use electronic communication methods to conduct official and legal college business. Students are responsible to check their TBCC email and the TBCC student portal (MyTBCC) for information from the college.

Programs

Agriculture Program

Agricultural Technology

Credential Type
Associate of Applied Science

To prepare students to meet the increased technological needs in the field of agriculture, TBCC offers an Associate of Applied Science degree in Agricultural Technology. The degree offers coursework in large animal handling, welfare, and nutrition, programming and motor controls, drone technology, hydraulics and other manufacturing and technology.

This degree is a great choice for those interested in troubleshooting, working outside, working on farm equipment, and interacting with animals. Students who complete this degree will be qualified with the necessary skills and knowledge to work as a technician on farms; specifically to troubleshoot and repair robotics on farms and/or work in precision agriculture.

Most courses are taught in the evening to assist working students to attend. Some general education classes and agriculture courses within the degree can be completed in high school.

Program Learning Outcomes

- Demonstrate the technical knowledge and skills necessary for industrial agricultural systems.
- Communicate effectively, both orally and in writing, using language appropriate to industrial agricultural environments.
- Perform troubleshooting/problem solving processes as applied to industrial agricultural situations.
- Employ the principles of the customer-business relationship within an agricultural environment.
- Integrate and apply essential core information about production and handling methods in a dairy environment.

General Education Requirements

Course Code	Title	Credits
CG 100	College Survival and Success	3
MTH 105Z	Math in Society	4
COMM 111Z	Public Speaking	4
WR 121Z	Composition I	4
	PSY 101 or BA 285	3-4
	Sub-Total Credits	**18-19**

Core Requirements

Course Code	Title	Credits
	AG 221 or WLD 111	3
ANS 122	Large Animal Handling and Welfare,Milk Quality, and Nutrition	3
CAS 170	Beginning Excel	3
DRF 270	3-D Modeling	3
ELT 110	Electricity for Non-Electricians	2
ELT 111	Electricity for Non-electricians II	2
ELT 127	Basic Programmable Controllers - PCBased	2
ELT 128	Intermediate Programmable Controllers - PC Based	2
ELT 201	Electrical Motor Control	2
ELT 227	Advanced Programmable Controllers - PC Based	2
GT 106	Introduction to Green Technologies	3
IMT 100	Introduction to Trades	3
IMT 105	Industrial Safety/OSHA 10 (GeneralIndustry)	4
IMT 108	Rigging, Lifting, and Safety Inspection	3
IMT 118	Bearings, Seals and Lubrication	3
IMT 200	Hydraulics II	3
IMT 205	Introduction to Pneumatics	3
IMT 211	Structural Maintenance	3
IMT 210	Hydraulics III	3
IMT 229	Techniques of Preventative Maintenance	3
IMT 280	Cooperative Education	3
WLD 129	Blueprint Reading	4

	Sub-Total Credits	**62**

Core Specialization

Course Code	Title	Credits
	ANS 121 or HORT 111	3-4
	ANS 215 or GEO 265	3
	ANS 231 or FAS 107	2-3
	MCH 102 or MCH 134	3
	IMT 222 or MCH 234	3
	Sub-Total Credits	**14-16**

	Total Credits	**94-97**

Degree Map

TBCC guarantees, at a minimum, the following courses each quarter for the completion of the Associate of Applied Science – Agricultural Technology. A student can transfer in or take other courses that meet the requirements.

Year 1 or 2 (rotates)

Fall Term

Course Code	Title	Credits
CG 100	College Survival and Success	3
IMT 100	Introduction to Trades	3
	AG 221 or WLD 111	3
IMT 105	Industrial Safety/OSHA 10 (GeneralIndustry)	4
MTH 105Z	Math in Society	4
	Sub-Total Credits	**17**

Winter Term

Course Code	Title	Credits
IMT 229	Techniques of Preventative Maintenance	3
WLD 129	Blueprint Reading	4
CAS 170	Beginning Excel	3
DRF 270	3-D Modeling	3
	Sub-Total Credits	**13**

Spring Term

Course Code	Title	Credits
WR 121Z	Composition I	4
	PSY 101 or BA 285	3-4
IMT 211	Structural Maintenance	3
COMM 111Z	Public Speaking	4
GT 106	Introduction to Green Technologies	3
	Sub-Total Credits	**17-18**

Year 1 or 2 (rotates)

Fall Term

Course Code	Title	Credits
	MCH 102 or MCH 134	3
	ANS 121 or HORT 111	3-4
IMT 205	Introduction to Pneumatics	3
ELT 127	Basic Programmable Controllers - PCBased	2
ELT 110	Electricity for Non-Electricians	2
IMT 109	Hydraulics I	3
	Sub-Total Credits	**16-17**

Winter Term

Course Code	Title	Credits
	IMT 222 or MCH 234	3
	ANS 215 or GEO 265	3
ANS 122	Large Animal Handling and Welfare,Milk Quality, and Nutrition	3
ELT 128	Intermediate Programmable Controllers - PC Based	2
ELT 111	Electricity for Non-electricians II	2
IMT 200	Hydraulics II	3
	Sub-Total Credits	**16**

Spring

Course Code	Title	Credits
IMT 118	Bearings, Seals and Lubrication	3
	ANS 231 or FAS 107	2-3
ELT 201	Electrical Motor Control	2
ELT 227	Advanced Programmable Controllers - PC Based	2
IMT 280	Cooperative Education	3
IMT 210	Hydraulics III	3
	Sub-Total Credits	**15-16**

Agricultural Science

Credential Type
Associate of Science

Are you interested in learning about agriculture production, agribusiness, and the current challenges and opportunities for sustaining our agricultural resources? If so, the Associate of Science in Agricultural Sciences is for you! This degree is for students who are interested in a career as an agricultural consultant, agricultural educator, agronomist, or agriculture production manager.

Upon completion of this degree, students should have completed all necessary prerequisite requirements to enter into Oregon State University with junior status in the Agricultural Sciences bachelor's degree.

Some of the classes within this degree can be completed in high school, so if this is a degree for you, contact your high school counselor to find out which classes you could take before coming to TBCC.

For additional information about this degree, please contact the OSU Open Campus Education Coordinator/TBCC Agriculture, Natural Resources, and Forestry Coordinator at 503-842-8222 ext. 1870.

Program Learning Outcomes

- Understand major agricultural themes and issues, domestically and worldwide.
- Analyze the effectiveness of agricultural practices, sustainability issues, and global agricultural movements and trends.
- Understand the broad effect of social, economic, and environmental forces on the agricultural industry.
- Provide leadership and communication skills in agricultural communities throughout the U.S. and beyond.
- Meets general education outcomes.

Foundational Requirements

Course Code	Title	Credits
MTH 111Z	Precalculus I: Functions	4
WR 121Z	Composition I	4
	WR 122Z or WR 227Z	4
	HE 295 and PE 295	3
	Sub-Total Credits	**15**

General Education Requirements

Arts and Letters

Course Code	Title	Credits
	COMM 111Z or COMM 218Z	4
	ENG 250 or ENG 254	4
	Sub-Total Credits	**8**

Social Science

Course Code	Title	Credits
EC 201Z	Principles of Microeconomics	4
	GEO 106 ore REL 101	4
	Sub-Total Credits	**8**

Science, Math, Computer Science

Course Code	Title	Credits
CH 221Z	General Chemistry I	4
CH 227Z	General Chemistry I Laboratory	1
CH 222Z	General Chemistry II	4
CH 228Z	General Chemistry II Laboratory	1
	Sub-Total Credits	**10**

Required Degree Electives

Course Code	Title	Credits
ANS 121	Introduction to Animal Science	4
	ANS 215 or AG 211	3
ANS 220	Introductory Horse Science	3
ANS 231	Livestock Evaluation	3
BA 226Z	Introduction to Business Law	4
	BI 101 or BI 221Z	4
	BI 102 or BI 222Z	4
	BI 103 or BI 223Z	4
CG 100	College Survival and Success	3
FW 251	Principles of Fish and Wildlife Conservation	3

	HORT 111 or AG 221	3
LEAD 242	Personal Leadership Development	3
LIB 101	Navigating the Sea of Information	1
NAT 201	Managing Natural Resources for theFuture	3
SOIL 205	Soil Science	4
	Sub-Total Credits	**49**

	Total Credits	**90**

Degree Map

TBCC guarantees, at a minimum, the following courses each quarter for the completion of the Associate of Science in Agricultural Sciences.

Year 1

Fall Term

Course Code	Title	Credits
ANS 121	Introduction to Animal Science	4
CG 100	College Survival and Success	3
	BI 101 or BI 221Z	4
WR 121Z	Composition I	4
	Sub-Total Credits	**15**

Winter Term

Course Code	Title	Credits
	ANS 215 or AG 211	3
EC 201Z	Principles of Microeconomics	4
	BI 102 or BI 222Z	4
LEAD 242	Personal Leadership Development	3
LIB 101	Navigating the Sea of Information	1
	Sub-Total Credits	**15**

Spring Term

Course Code	Title	Credits
ANS 220	Introductory Horse Science	3
	HE 295 and PE 295	3
	BI 103 or BI 223Z	4
	WR 122Z or WR 227Z	4
	Sub-Total Credits	**14**

Year 2

Fall Term

Course Code	Title	Credits
CH 221Z	General Chemistry I	4
	HORT 111 or AG 221	3
MTH 111Z	Precalculus I: Functions	4
	COMM 111Z or COMM 218Z	4
	Sub-Total Credits	**15**

Winter Term

Course Code	Title	Credits
CH 222Z	General Chemistry II	4
BA 226Z	Introduction to Business Law	4
FW 251	Principles of Fish and Wildlife Conservation	3
ENG 254	Survey of American Literature II	4
	Sub-Total Credits	**15**

Spring Term

Course Code	Title	Credits
SOIL 205	Soil Science	4
ANS 231	Livestock Evaluation	3
NAT 201	Managing Natural Resources for theFuture	3
GEO 106	World Regional Geography	4
	Sub-Total Credits	**14**

Apply for graduation- degree completed!

Program Notes

Note that in order for a student to successfully transfer to an Oregon public university, students must: 1) earn a grade of a “C -” or better in courses in the major; 2) take courses in the major for a grade—they will not be accepted as “pass/no pass”; and 3) earn a cumulative grade point average of 2.0. Students must also regularly meet with an advisor. Students are strongly encouraged to: 1) seek advising before registering for their first term of community college; 2) seek advising after they have completed the 27-35 credits of the Core Transfer Map; and 3) seek advising and meet with a transfer coordinator before registration opens at the beginning of the students second year in college. Students should also be aware that if they want to complete this Major Transfer Map in two years, they should take an average of 45 credits per year (average of 15 credits per quarter). Finally, to earn an associate degree, students will need to successfully complete at least 90 credits. NOTE: A Maximum of 12 credits can be Career Technical Education courses; A Maximum of 9 credits can be from courses labeled 199/299; A Maximum of 24 credits can be ESOL; A Maximum of 24 credits can be "P" grades; and, A Maximum of 21 credits can be from Credit for Prior Learning (CPL).

Allied Health Program

Healthcare Administration

Credential Type
Associate of Applied Science

Coursework emphasis in Emergency Medical Services, Medical Assisting, or Phlebotomy

AAS Healthcare Administration provides an introduction toward becoming a frontline leader in healthcare. Healthcare leaders make a meaningful impact on their organization by working closely with all members of the healthcare team to plan, direct, and coordinate healthcare services.

Courses in office management, business communication, finance, business law, and human resources prepare students for various positions to oversee a department or team by learning how to lead people and manage office operations. Students gain clinical hands-on training in their choice of career pathway certificate for medical assisting, phlebotomy, or emergency medical services, which enable them to make the best possible decisions regarding patient outcomes.

Program Learning Outcomes

- Employ skills necessary to direct and coordinate a team to ensure quality healthcare services and efficient operations of a clinic/department.
- Communicate effectively, appropriately, and professionally in business management situations using correct terminology related to the healthcare environment.
- Demonstrate problem solving skills related to healthcare management using elements of successful leadership and critical thinking skills.

Required Courses

Course Code	Title	Credits
CG 100	College Survival and Success	3
	COMM 111Z or BA 205	4
	MTH 105Z or MTH 111Z	4
WR 121Z	Composition I	4
WR 227Z	Technical Writing	4
	Sub-Total Credits	**19**

Healthcare Administration Core

Course Code	Title	Credits
BA 101Z	Introduction to Business	4
BA 206	Management Fundamentals	3
BA 222	Financial Management	3
BA 224	Human Resource Management	3
BI 112	Cell Biology for Health Occupations	5
	BI 231 or BI 100	4
BI 232	Human Anatomy and Physiology II	4
BI 233	Human Anatomy and Physiology III	4
AH 130	Today's Careers: Health	2
HE 110	CPR/AED for Professional Rescuers and Health Care Providers	1
LEAD 242	Personal Leadership Development	3
AH 100	Medical Terminology	4
AH 244	Global Health	4
	PSY 101 or BA 285	3-4
	Sub-Total Credits	**47-48**

Emphasis

Students earning an Associate of Applied Science: Healthcare Administration degree must complete all the courses in at least one of the following: Emergency Medical Services Emphasis, Medical Assisting Emphasis, or Phlebotomy Emphasis. Students who complete this degree map also receive the Basic Healthcare Certificate and one clinical certificate (EMS, MA or Phlebotomy).

Emergency Medical Services Emphasis

Course Code	Title	Credits
EMS 105	EMT Part I	4
EMS 105L	EMT Part I Lab	1
EMS 106	EMT Part II	4
EMS 106L	EMT Part II Lab	1
EMS 106C	EMT Part II Clinical	2
	Sub-Total Credits	**12**

Medical Assisting Emphasis

Course Code	Title	Credits
AH 110	Clinical Procedures I	5
AH 112	Clinical Procedures II	4
AH 112C	Clinical and Administrative Procedures II, Clinical Practicum	6
AH 140	Electronic Health Records and Administrative Skills	4
AH 141	Body Systems Review for Medical Assistants	3
AH 150	Math for Health Professionals	2
	Sub-Total Credits	**24**

Phlebotomy Path

Course Code	Title	Credits
AH 101	Phlebotomy I	4
AH 102	Phlebotomy II	3
	Sub-Total Credits	**7**

	Total Credits	**78-79**

Degree Map

TBCC guarantees, at a minimum, the following courses each quarter for the completion of this AAS. A student can transfer in or take other courses that meet the requirements, though this is discouraged.

Year 1

Fall Term

Course Code	Title	Credits
CG 100	College Survival and Success	3
AH 130	Today's Careers: Health	2
BI 112	Cell Biology for Health Occupations	5
BA 101Z	Introduction to Business	4
	Sub-Total Credits	**14**

Winter Term

Course Code	Title	Credits
AH 100	Medical Terminology	4
HE 110	CPR/AED for Professional Rescuers and Health Care Providers	1
WR 121Z	Composition I	4
BA 224	Human Resource Management	3
LEAD 242	Personal Leadership Development	3
	Sub-Total Credits	**15**

Spring Term

Course Code	Title	Credits
MTH 105Z	Math in Society	4
	COMM 111Z or BA 205	4
	PSY 101 or BA 285	3-4
BI 100	Biology of Human Body Systems	4
	Sub-Total Credits	**15-16**

Summer Term

- **OPTIONAL Elective**: CNA 100, Certified Nursing Assistant I (9 CR)
- **MA ONLY**: AH 110 Clinical and Admin Procedures I (5 CR) and AH 110C Clinical Practicum (2 CR)

Year 2

Fall Term

Course Code	Title	Credits
BI 231	Human Anatomy and Physiology I	4
BA 206	Management Fundamentals	3
	Elective (EMS/Phleb Emphasis)	3
	EMS 100 (EMS Emphasis), AH 101 (Phleb Emphasis), or AH 112 (MA Emphasis)	3-5

	AH 112C (MA Emphasis)	4
	Sub-Total Credits	**17-19**

Minimum degree requirements are 90 credits

Winter Term

Course Code	Title	Credits
BI 232	Human Anatomy and Physiology II	4
BA 222	Financial Management	3
BA 226Z	Introduction to Business Law	4
	EMS 105 (EMS Emphasis) or AH 102 (Phleb Emphasis)	3-4
	EMS 105L (EMS Emphasis)	1
	Elective (Phleb Emphasis)	3
	Sub-Total Credits	**18-19**

Spring Term

Course Code	Title	Credits
BI 233	Human Anatomy and Physiology III	4
AH 244	Global Health	4
WR 227Z	Technical Writing	4
	EMS 106 and EMS 106L (EMS Emphasis)	5
	EMS 106C (EMS Emphasis)	2
	Elective (Phleb Emphasis)	3
	Sub-Total Credits	**22**

EMS 92 CR/ MA 90 CR/ Phleb 90 CR

Apply for graduation – AAS Completed!

Program Notes

In order to participate in clinical experience, students must be 18 years of age and have completed the CastleBranch Healthcare requirements (criminal background check, drug screen and required immunizations). This degree incorporates the Basic Health Care Certificate and one additional clinical certificate (EMS, MA, or Phlebotomy).

TBCC mathematics requirements have changed as of fall 2019. Students with mathematics completion prior to fall 2019 should consult a TBCC Advisor for information on fulfilling this requirement.

Basic Healthcare

Credential Type
Certificate

This Certificate teaches the basic skills needed for employment in an entry level position in a healthcare setting. Students gain knowledge and skills that provide a basis of preparation to pursue further training and employment in healthcare.

Program Learning Outcomes

- Evaluate healthcare occupations and education/training requirements and produce a Career Education Plan in the healthcare field.
- Explain the basic medical terms/words.
- Obtain certification for Health Care Provider level 1-person and 2-person CPR/AED skills for adults, children and infants.
- Demonstrate a basic understanding of body systems.
- Apply basic healthcare knowledge in a workplace setting.
- Provide exceptional customer service in a professional manner through caring and respectful interaction with patients, families, and the healthcare team.
- Maintain a solid knowledge base for the various components of the healthcare system.
- Knowledge and understanding of patient privacy in accordance with HIPAA guidelines.
- Basic knowledge of human anatomy and physiology.
- Ability to understand verbal and written instruction and communicate clearly and effectively.
- Assist with or provide care services as directed, using proper body mechanics or assistive devices when lifting, moving, or transporting patients.
- Performs First Aid and initiates emergency response procedures as required.

	Total Credits	**14**

Degree Map

TBCC guarantees, at a minimum, the following courses each quarter for the completion of this Career Pathway Certificate. A student can transfer in or take other courses that meet the requirements, though this is discouraged.

Year 1

Fall Term

Course Code	Title	Credits
AH 130	Today's Careers: Health	2
	BI 100 or BI 231, BI 232, and BI 233	4
HE 110	CPR/AED for Professional Rescuers and Health Care Providers	1
	Sub-Total Credits	**7**

Winter Term

Course Code	Title	Credits
AH 100	Medical Terminology	4
CWE 280	CWE (for OST and related programs)	3-10
	Sub-Total Credits	**7-14**

Program Notes
In order to complete the CWE students must be 18 years of age and have completed the Castle Branch Healthcare requirements (criminal background check, drug screen and required immunizations).

Medical Assisting

Credential Type
Certificate

Certified Medical Assistants (CMA's) are an essential part of the healthcare team and work primarily in medical offices performing routine administrative and clinical duties, such as scheduling appointments, maintaining medical records, collecting patient histories and vital signs, and assisting healthcare providers with examinations and treatments.

It is up to the student to research eligibility requirements in the state for which the student desires to practice.

Program Learning Outcomes

- Individuals will meet eligibility requirements for the national certification exam
- Demonstrate professional and technical skills necessary to perform administrative and clinical duties.
- Communicate effectively in a therapeutic, respectful, and professional manner with patients, providers, and all members of the healthcare team.
- Provide exceptional customer service in a professional manner through caring and respectful interaction with patients, families, and the healthcare team.
- Maintain a solid knowledge base for the various components of the healthcare system.
- Establish and manage office procedures and implement medical documentation systems using appropriate medical terminology.
- Perform the administrative business tasks required in a medical office.
- Assist the healthcare provider and other members of the healthcare team in clinical procedures related to the examination and treatment of patients.
- Build professional relationships within the healthcare team.
- Comply with quality assurance requirements in performing clinical laboratory procedures.
- Perform common diagnostic procedures under a licensed healthcare provider to ensure patient comfort and safety.

	Total Credits	**29**

Degree Map

TBCC guarantees, at a minimum, the following courses each quarter for the completion of this Career Pathway Certificate. A student can transfer in or take other courses that meet the requirements, though this is discouraged.

Year 1

Summer Term

Course Code	Title	Credits
AH 140	Electronic Health Records and Administrative Skills	4
AH 100	Medical Terminology	4
HE 110	CPR/AED for Professional Rescuers and Health Care Providers	1
AH 110	Clinical Procedures I	5
	Sub-Total Credits	**14**

Fall Term

Course Code	Title	Credits
AH 141	Body Systems Review for Medical Assistants	3
AH 112	Clinical Procedures II	4
	AH 112C (MA Emphasis)	4
AH 150	Math for Health Professionals	2
	Sub-Total Credits	**13**

Apply for CPC!

Program Notes
In order to participate in clinical experience, students must be 18 years of age and have completed the CastleBranch Healthcare requirements (criminal background check, drug screen and required immunizations). This is a full time, cohort program. In order to participate in the MA coursework you must be admitted to the program or have secured your own worksite. Please see advisor for application process and additional information.

Phlebotomy

Credential Type
Certificate

Students learn basic laboratory skills to collect and process high quality specimens for laboratory analysis. Clinical practicum includes 100 clock hours of clinical training in a CLIA-regulated, accredited laboratory with minimum performance of 100 successful, unaided blood collections including venipunctures and skin punctures. Classroom training and clinical practicum prepares students to take the ASCP Phlebotomy Technician certification exam.

It is up to the student to research eligibility requirements in the state for which the student desires to practice.

Program Learning Outcomes

- Perform blood collection by venipuncture and skin puncture to obtain high quality specimens for clinical laboratory analysis.
- Use effective written and oral communication when interacting with patients and other healthcare workers to improve patient care.
- Collect and process blood specimens in a safe manner according to laboratory protocol.
- Discuss patient education and instructions related to specimen collecting for patients with diverse backgrounds, values, and behaviors.
- Individuals will meet eligibility requirements for ASCP national certification.
- Verify patient identity and correctly label and track specimens.
- Establish a professional relationship with the patient by providing pertinent information, education, and instruction regarding specimen collection; selecting and preparing the puncture site; collecting specimens; preparing and maintaining equipment; and caring for the patient after specimen collection.
- Enter data into a computer and perform clerical duties associated with lab test record keeping.
- Ability to be attentive to detail, work well under pressure, and have excellent communication and customer service skills.
- Maintain safe, secure, and healthy work environment by following standards and procedures and complying with legal regulations.
- Maintain quality results by following procedures and testing schedules.
- Provide the highest standards in discreet and courteous lab service for patients, medical providers, and other healthcare workers.
- Recognize and use adequate safety equipment, personal protective equipment, and laboratory safety measures.

	Total Credits	**18**

Degree Map

BCC guarantees, at a minimum, the following courses each quarter for the completion of this Career Pathway Certificate. A student can transfer in or take other courses that meet the requirements, though this is discouraged.

Cohort 1

Fall Term

Course Code	Title	Credits
AH 130	Today's Careers: Health	2
	BI 100 or BI 231, BI 232, and BI 233	4
HE 110	CPR/AED for Professional Rescuers and Health Care Providers	1
AH 101	Phlebotomy I	4
	Sub-Total Credits	**11**

Winter Term

Course Code	Title	Credits
AH 100	Medical Terminology	4
AH 102	Phlebotomy II	3
	Sub-Total Credits	**7**

Apply for CPC!

Cohort 2

Spring Term

Course Code	Title	Credits
AH 130	Today's Careers: Health	2
	BI 100 or BI 231, BI 232, and BI 233	4

HE 110	CPR/AED for Professional Rescuers and Health Care Providers	1
AH 101	Phlebotomy I	4
	Sub-Total Credits	**11**

Summer Term

Course Code	Title	Credits
AH 100	Medical Terminology	4
AH 102	Phlebotomy II	3
	Sub-Total Credits	**7**

Apply for CPC!

Program Notes

In order to complete the CWE students must be 18 years of age and have completed the Castle Branch Healthcare requirements (criminal background check, drug screen and required immunizations).

Health Science

Credential Type
Associate of Science

This degree is designed as a transfer degree that prepares students to enter nursing and other allied health programs around the state. The degree accomplishes this by incorporating required prerequisites associated with nursing and allied health programs into one degree. This allows students to earn transferrable credits toward a 4-year healthcare program as well as an associates degree that is directly related to healthcare.

Program Learning Outcomes

- Prepare students for Health programs at a 4-year University or Special Training program.
- Provide students with a strong foundation in Biology, Health Science, and Human Psychology, necessary to succeed in a Healthcare setting.
- Provide a pathway for pre-nursing and other pre-health students to obtain all prerequisite courses for their program.

Foundational Requirements

Course Code	Title	Credits
	MTH 105Z or MTH 111Z	4
WR 121Z	Composition I	4
WR 227Z	Technical Writing	4
	HE 295 and PE 295	3
CG 100	College Survival and Success	3
	Sub-Total Credits	**18**

General Education Requirements

Arts and Letters

Course Code	Title	Credits
COMM 111Z	Public Speaking	4
	Arts and Letters or Elective	3-4
	Arts and Letters or Elective	3-4
	Sub-Total Credits	**10-12**

Social Science

Course Code	Title	Credits
PSY 201Z	Introduction to Psychology I	4
PSY 215	Human Development	4
	SOC 204 or SOC 206	4
	Sub-Total Credits	**12**

Science, Math, Computer Science

Course Code	Title	Credits
BI 112	Cell Biology for Health Occupations	5
BI 234	Microbiology	5
STAT 243Z	Elementary Statistics I	4
	Sub-Total Credits	**14**

Required Degree Electives

Course Code	Title	Credits
BI 231	Human Anatomy and Physiology I	4
BI 232	Human Anatomy and Physiology II	4
BI 233	Human Anatomy and Physiology III	4
AH 100	Medical Terminology	4
BI 220	Human Genetics	3
NUTR 240	Human Nutrition	3
	Elective	4
	Elective	4
	Elective	4
	Sub-Total Credits	**34**

	Total Credits	**88-90**

Degree Map

Year 1

Fall Term

Course Code	Title	Credits
CG 100	College Survival and Success	3
WR 121Z	Composition I	4
	COMM 111Z or COMM 218Z	4
BI 112	Cell Biology for Health Occupations	5
	Sub-Total Credits	**16**

Winter Term

Course Code	Title	Credits
	PHL 202 or A&L Elective	3-4
WR 122Z	Composition II	4
NUTR 240	Human Nutrition	3
BI 220	Human Genetics	3
	Sub-Total Credits	**13-14**

Spring Term

Course Code	Title	Credits
	Social Science Elective	3-4
AH 100	Medical Terminology	4
BI 234	Microbiology	5
	HE 295 and PE 295	3
	Sub-Total Credits	**15-16**

Year 2

Fall Term

Course Code	Title	Credits
BI 231	Human Anatomy and Physiology I	4
PSY 201Z	Introduction to Psychology I	4
	MTH 105Z or MTH 111Z	4
	Elective	4
	Sub-Total Credits	**16**

Winter Term

Course Code	Title	Credits
BI 232	Human Anatomy and Physiology II	4
PSY 215	Human Development	4
STAT 243Z	Elementary Statistics I	4
	Arts and Letters or Elective	3-4
	Sub-Total Credits	**15-16**

Spring Term

Course Code	Title	Credits
BI 233	Human Anatomy and Physiology III	4
SOC 206Z	Social Problems	4
	Arts and Letters or Elective	3-4
	Elective	4
	Sub-Total Credits	**15-16**

Program Notes

Note that in order for a student to successfully transfer to an Oregon public university, students must 1) earn a grade of "C-" or better in courses in the major, 2) take courses in the major for a grade--they will not be accepted as "pass/no pass," and 3) earn a cumulative grad point average of 2.0. Students must also regularly meet with an advisor. Students are strongly encouraged to: 1) seek advising before registering for their first term of community college; 2) seek advising after they have completed the 27-35 credits of the Core Transfer Map; and 3) seek advising and meet with a transfer coordinator before registration opens at the beginning of the student's second year in college. Students should also be aware that if they want to complete this Major Transfer Map in two years, they should take an average of 45 credits per year (average of 15 credits per quarter). Finally, to earn an associate degree, students will need to successfully complete at least 90 credits. NOTE: A Maximum of 12 credits can be Career Technical Education courses; A Maximum of 9 credits can be from courses labeled 199/299; A Maximum of 24 credits can be ESOL; A Maximum of 24 credits can be "P" grades; and, A Maximum of 21 credits can be from Credit for Prior Learning (CPL).

Check individual program specifics and use electives to fill in classes where needed.

Diagnostic Imaging (AAS at LBCC)

Credential Type
Non-Degree

TBCC has developed a partnership with Linn-Benton Community College (LBCC) and Adventist Health Tillamook to provide training for radiologic technologists (radiographers) in Tillamook County. This degree is granted by Linn-Benton Community College. TBCC offers program prerequisites, General Education, and related coursework. All Diagnostic Imaging (RT) courses are offered by Linn-Benton Community College and require admission to their program as detailed below. This is a "cost recovery" program. Students must deposit a portion of the cost of the program prior to beginning classes. The total cost of the program is subject to change but is estimated at $22,000

Career Outlook
Diagnostic Imaging is a 22-month intensive program. Students receive an Associate of Applied Science (AAS) degree from LBCC. The purpose of this program is to prepare students to practice as proficient, multi-skilled professionals in culturally diverse health care settings, to demonstrate outcomes required by the American Registry of Radiologic Technologists (ARRT) and program guidelines and to prepare students for application and completion of ARRT certification examinations.

The Diagnostic Imaging program will provide all qualified students who meet the fixed, minimum criteria, the opportunity to accomplish a fantastic educational program. Radiologic technologists, also known as radiographers, provide patient services using imaging modalities at the request of physicians qualified to prescribe and/or perform procedures.

A radiographer performs radiographic procedures, applies principles of radiation protection, evaluates radiographers for technical quality, exercises professional judgment and provides patient care. Radiographers can find employment in hospitals, clinics, private offices, industry, and public health facilities.

Radiography is the art and science of using ionizing to provide images of tissues, organs, bones, and vessels that comprise the body. These images may be recorded on film or displayed on video monitor. Motion studies may also be produced.

The program with TBCC is distance delivery via the Internet, with clinical experiences at Adventist Health Tillamook. Classes are tailored specifically to the students in the training. Students attend class for approximately 40 hours a week. It does not follow the traditional college terms. Classes are taught using "Virtual Classroom" and a robust online course management system, and lab experiences will take place at the local healthcare facilities and/or the Lebanon lab. Distance Education (DE) designated students should expect to make a minimum of seven trips to the LBCC campus during the course of the program. Traditional (TRAD) designated students are required to attend LBCC campus a minimum of twice per week. Once enrolled in the Diagnostic Imaging Program, students are LBCC students and are supported by LBCC.

Admission Requirements
The required forms can be downloaded from at LinnBenton.edu (click on Special Admissions Programs, then select Diagnostic Imaging).

Animal Science Program

Animal Science

Credential Type
Associate of Science

Does working directly with animals spark your interest? If so, the Associate of Science in Animal Sciences might be for you. This degree is for students who are interested in pursuing a career in production in meat, eggs or wool, becoming a veterinarian, or working in nutrition.

This degree aligns with the courses in the Animal Science degree at Oregon State University (OSU). Students who want to directly transfer to OSU after completing this degree, are highly encouraged to work directly with an OSU academic advisor.

Some of the classes within this degree can be completed in high school, so if this is a degree for you, contact your high school counselor to find out which classes you could take before coming to TBCC.

Associate of Science in Animal Sciences = 95 credits (100 credits for pre-vet option)

For additional information about this degree, please contact the OSU Open Campus Education Coordinator/TBCC Agriculture, Natural Resources, and Forestry Coordinator at 503-842-8222 ext. 1870.

Program Learning Outcomes

- Integrate and apply essential core information about production methods of two different species.
- Understand the academic and applied functions of the reproduction process for multiple species.
- Clearly articulate the chemistry and practical formulation for animal diets.
- Understand the behavior of traditional animal species and the ethical implications of production methods for these species.
- Meets general education outcomes.

Foundational Requirements

Course Code	Title	Credits
MTH 111Z	Precalculus I: Functions	4
WR 121Z	Composition I	4
WR 227Z	Technical Writing	4
	HE 295 and PE 295	3
	Sub-Total Credits	**15**

General Education Requirements

Arts and Letters

Course Code	Title	Credits
	COMM 111Z or COMM 218Z	4
	ENG 253 OR ENG 250	4
	Sub-Total Credits	**8**

Social Science

Course Code	Title	Credits
EC 201Z	Principles of Microeconomics	4
	GEO 106 ore REL 101	4
	Sub-Total Credits	**8**

Science, Math, Computer Science

Course Code	Title	Credits
CH 221Z	General Chemistry I	4
CH 222Z	General Chemistry II	4
	Sub-Total Credits	**8**

Required Degree Electives

Course Code	Title	Credits
ANS 121	Introduction to Animal Science	4
ANS 215	Beef/Dairy Industries	3
ANS 220	Introductory Horse Science	3
BA 226Z	Introduction to Business Law	4
BI 221Z	Principles of Biology: Cells	5
BI 222Z	Principles of Biology: Organisms	5
BI 223Z	Principles of Biology: Ecology andEvolution	5
CG 100	College Survival and Success	3
CH 223Z	General Chemistry III	4
STAT 243Z	Elementary Statistics I	4

	MTH 112Z or MTH 241	4
	PHL 202, HST 201, HST 202, or HST 203	4
SOC 206Z	Social Problems	4
	Sub-Total Credits	**52**
	Total Credits	**91**

Degree Map

TBCC guarantees, at a minimum, the following courses each quarter for the completion of the Associate of Science in Animal Sciences.

Year 1

Fall Term

Course Code	Title	Credits
ANS 121	Introduction to Animal Science	4
CG 100	College Survival and Success	3
BI 221Z	Principles of Biology: Cells	5
WR 121Z	Composition I	4
	Sub-Total Credits	**16**

Winter Term

Course Code	Title	Credits
ANS 215	Beef/Dairy Industries	3
EC 201Z	Principles of Microeconomics	4
BI 222Z	Principles of Biology: Organisms	5
STAT 243Z	Elementary Statistics I	4
	Sub-Total Credits	**16**

Spring Term

Course Code	Title	Credits
ANS 220	Introductory Horse Science	3
	SOC 206, HST 202, or HST 203	4
BI 223Z	Principles of Biology: Ecology andEvolution	5
WR 227Z	Technical Writing	4
	Sub-Total Credits	**16**

Year 2

Fall Term

Course Code	Title	Credits
CH 221Z	General Chemistry I	4
CH 227Z	General Chemistry I Laboratory	1
MTH 111Z	Precalculus I: Functions	4
	COMM 111Z or COMM 218Z	4
	Arts and Letters Elective or PHY 201	3-5
	Sub-Total Credits	**16-18**

Winter Term

Course Code	Title	Credits
CH 222Z	General Chemistry II	4
CH 228Z	General Chemistry II Laboratory	1
	MTH 112Z or MTH 241	4
PHL 202	Ethics	4
	BA 226Z or PHY 202	4-5
	Sub-Total Credits	**17-18**

Spring Term

Course Code	Title	Credits
CH 223Z	General Chemistry III	4
CH 229Z	General Chemistry III Laboratory	1
	HE 295 and PE 295	3
	Social Science Elective	3-4
	Elective or ANS 231	3-4
	Sub-Total Credits	**14-16**

PHY 201, MTH 241, PHY 202: Only needed for students completing the pre-vet option

BI 220: Human Genetics may also be an option for pre vet students depending on transfer program

Program Notes

Note that in order for a student to successfully transfer to an Oregon public university, students must: 1) earn a grade of a “C -” or better in courses in the major; 2) take courses in the major for a grade—they will not be accepted as “pass/no pass”; and 3) earn a cumulative grade point average of 2.0. Students must also regularly meet with an advisor. Students are strongly encouraged to: 1) seek advising before registering for their first term of community college; 2) seek advising after they have completed the 27-35 credits of the Core Transfer Map; and 3) seek advising and meet with a transfer coordinator before registration opens at the beginning of the students second year in college. Students should also be aware that if they want to complete this Major Transfer Map in two years, they should take an average of 45 credits per year (average of 15 credits per quarter). Finally, to earn an associate degree, students will need to successfully complete at least 90 credits. NOTE: A Maximum of 12 credits can be Career Technical Education courses; A Maximum of 9 credits can be from courses labeled 199/299; A Maximum of 24 credits can be ESOL; A Maximum of 24 credits can be "P" grades; and, A Maximum of 21 credits can be from Credit for Prior Learning (CPL).

Business Administration Program

Business Administration (Online)

Credential Type
Associate of Applied Science

Coursework emphasis in Accounting, Entrepreneurship, or Management

Business administration professionals play an important role in the local, state, and national economy. Virtually all companies, businesses, and public institutions employ people who are trained in some aspect of business administration including areas such as accounting, business management, retail service, and computer applications. If you enjoy working with, and tracking, numbers and financial information, or see yourself as a supervisor in a business setting, this may be the program for you. Students have the option to choose either an emphasis with coursework in **Accounting** or **Management.**

Business Administration Degree - Online

100% of the courses to earn a Business Administration degree are taught online, conveniently allowing you to learn anywhere, anytime you have an internet connection. This is an excellent choice for people with a work or life schedule that requires the flexibility an online degree can afford you.

All degree candidates must meet Comprehensive Requirements, and the AAS degree requirements.

The AAS degree in Business Administration has two career pathway certificates and two one-year certificates.

- All courses count toward the degree.
- Certificates are good for people who want to get a job sooner or for those who want to improve their skills.

1. **Accounting Clerk One-Year Certificate – 48 Credits**
   a. Bookkeepers who perform bank reconciliations, journalizing, posting, worksheets, accounts payable, accounts receivable and payroll.
   b. Clerical duties such as typing and filing.
2. **Entry-Level Accounting Clerk Career Pathway Certificate – 16 credits**
   a. Work as accounting or bookkeeping clerks; support finance functions in company or institution.
3. **Basic Computer Literacy Career Pathway Certificate – 13 Credits**
   a. Use basic computer applications in business operations.
   b. Have a working knowledge of Word, Excel and other MS Office Applications.
4. **Office Supervision One-Year Certificate - 47 credits**

- Apply analytical thinking and problem solving strategies to make managerial decisions.
- Communicate effectively with employees and diverse business teams.
- Use computer applications for accounting procedures, managerial analysis and presentations.

Program Learning Outcomes

- Students who successfully complete the AAS in Business Administration degree will develop skills and knowledge appropriate for entry level bookkeeping and accounting positions.
  - **Social Skills:** Work effectively and ethically within a diverse business team
  - **Information Literacy Skills:** Use computer applications for managerial analysis, presentations, and reports
  - **Thinking Skills:** Apply analytical and critical thinking to evaluate information, solve problems and make decisions
  - **Communication Skills:** Communicate effectively, appropriately, and professionally to internal and external stakeholders.

Required Courses

Course Code	Title	Credits
CG 100	College Survival and Success	3
COMM 111Z	Public Speaking	4
MTH 105Z	Math in Society	4
WR 121Z	Composition I	4
	Sub-Total Credits	**15**

Business Administration Core

Course Code	Title	Credits
BA 101Z	Introduction to Business	4
BA 131	Introduction to Business Technology	4
BA 133	Introduction to Microsoft Office	4

BA 169Z	Data Analysis Using Microsoft Excel	4
BA 205	Business Communication	4
BA 206	Management Fundamentals	3
BA 211Z	Principles of Financial Accounting	4
BA 213Z	Principles of Managerial Accounting	4
BA 218	Personal Finance	3
BA 226Z	Introduction to Business Law	4
BA 232	Professional Workplace Fundamentals	4
BA 277	Business Ethics	4
BA 280	Cooperative Education - Business Experience	3
BA 285	Human Relations in Organizations	3
BA 290	Business Seminar	4
	EC 201Z or EC 202Z	4
LEAD 242	Personal Leadership Development	3
	Sub-Total Credits	**63**

Emphasis

Students earning an Associate of Applied Science: Business Administration degree must complete all the courses in either the Accounting, Entrepreneurship or Management Emphasis

Accounting Emphasis

Course Code	Title	Credits
BA 177	Payroll Accounting	3
BA 222	Financial Management	3
BA 228	Computer Accounting Applications	4
BA 256	Income Tax	3
	Sub-Total Credits	**13**

Entrepreneurship Emphasis

Course Code	Title	Credits
BA 150	Introduction to Entrepreneurship	3
BA 220	Entrepreneurial Startup	3
BA 223	Principles of Marketing	4
BA 230	Entrepreneurial Marketing	3
	Sub-Total Credits	**13**

Management Emphasis

Course Code	Title	Credits
BA 120	Project Management Fundamentals	3
BA 223	Principles of Marketing	4
BA 224	Human Resource Management	3
BA 250	Small Business Management	3
	Sub-Total Credits	**13**

	Total Credits	**91**

Degree Map

Year 1

Fall Term

Course Code	Title	Credits
CG 100	College Survival and Success	3
BA 101Z	Introduction to Business	4
WR 121Z	Composition I	4
BA 133	Introduction to Microsoft Office	4
	Sub-Total Credits	**15**

Winter Term

Course Code	Title	Credits
BA 131	Introduction to Business Technology	4
BA 211Z	Principles of Financial Accounting	4

LEAD 242	Personal Leadership Development	3
BA 169Z	Data Analysis Using Microsoft Excel	4
	Sub-Total Credits	**15**

Spring Term

Course Code	Title	Credits
BA 205	Business Communication	4
BA 213Z	Principles of Managerial Accounting	4
BA 232	Professional Workplace Fundamentals	4
BA 206	Management Fundamentals	3
	Sub-Total Credits	**15**

Year 2

Fall Term

Course Code	Title	Credits
BA 218	Personal Finance	3
	BA 177, BA 150, or BA 120	3
BA 285	Human Relations in Organizations	3
COMM 111Z	Public Speaking	4
MTH 105Z	Math in Society	4
	Sub-Total Credits	**17**

Winter Term

Course Code	Title	Credits
	BA 222 or BA 223	3-4
	BA 256, BA 220, or BA 224	3
BA 226Z	Introduction to Business Law	4
EC 201Z	Principles of Microeconomics	4
	Sub-Total Credits	**14-15**

Spring Term

Course Code	Title	Credits
BA 277	Business Ethics	4
	BA 228, BA 230, or BA 250	3-4
BA 280	Cooperative Education - Business Experience	3
BA 290	Business Seminar	4
	Sub-Total Credits	**14-15**

WR 121Z, MTH 105Z: This class may require an additional one credit (R) co-requisite course.

Program Notes

TBCC mathematics requirements have changed as of fall 2019. Students with mathematics completion prior to fall 2019 should consult a TBCC Advisor for information on fulfilling this requirement.

Accounting Clerk

Credential Type
Certificate

This program certificate prepares students for entry-level positions in bookkeeping. Entry-level bookkeepers perform routine tasks such as bank reconciliations, journalizing, posting, worksheets, accounts payable, accounts receivable and payroll, plus clerical duties such as typing and filing. The program emphasizes foundational bookkeeping and accounting principles along with specialty courses in addition to general business management and microcomputer applications.

Program Learning Outcomes

- Bookkeepers who perform bank reconciliations, journalizing, posting, worksheets, accounts payable, accounts receivable and payroll.
- Clerical duties such as typing and filing.

Required Courses

Course Code	Title	Credits
BA 101Z	Introduction to Business	4
BA 131	Introduction to Business Technology	4
BA 177	Payroll Accounting	3
BA 205	Business Communication	4
BA 211Z	Principles of Financial Accounting	4
BA 212	Principles of Accounting II	4
BA 218	Personal Finance	3
BA 228	Computer Accounting Applications	4
BA 285	Human Relations in Organizations	3
CAS 133	Basic Computer Skills	
CAS 170	Beginning Excel	3
MTH 105Z	Math in Society	4
WR 121Z	Composition I	4

BA 285, MTH 105, WR 121: Satisfies Gen. Ed. Related Instruction

	Total Credits	**44**

Degree Map

Year 1

Fall Term

Course Code	Title	Credits
BA 211Z	Principles of Financial Accounting	4
CAS 133	Basic Computer Skills	
BA 101Z	Introduction to Business	4
	Sub-Total Credits	**8**

Winter Term

Course Code	Title	Credits
BA 212	Principles of Accounting II	4
CAS 170	Beginning Excel	3
WR 121Z	Composition I	4
BA 131	Introduction to Business Technology	4
	Sub-Total Credits	**15**

Spring Term

Course Code	Title	Credits
BA 228	Computer Accounting Applications	4
MTH 105Z	Math in Society	4
BA 205	Business Communication	4
	Sub-Total Credits	**12**

Year 2

Fall Term

Course Code	Title	Credits
BA 177	Payroll Accounting	3
BA 285	Human Relations in Organizations	3
BA 218	Personal Finance	3
	Sub-Total Credits	**9**

Entry-Level Accounting Clerk

Credential Type
Certificate

The career pathways certificate in Entry-Level Accounting prepares individuals for entry-level employment in the Accounting field. The course work includes instruction in foundational skills in accounting and bookkeeping.

Program Learning Outcomes

- Communicate effectively using standard accounting terminology.
- Apply accounting procedures and practices using computer software.
- Work as accounting or bookkeeping clerks; support finance functions in company or institution.

Course Code	Title	Credits
BA 101Z	Introduction to Business	4
BA 211Z	Principles of Financial Accounting	4
BA 213Z	Principles of Managerial Accounting	4
BA 228	Computer Accounting Applications	4
	Total Credits	**16**

Degree Map

Year 1

Fall Term

Course Code	Title	Credits
BA 211Z	Principles of Financial Accounting	4
BA 101Z	Introduction to Business	4
	Sub-Total Credits	**8**

Winter Term

Course Code	Title	Credits
BA 213Z	Principles of Managerial Accounting	4
	Sub-Total Credits	**4**

Spring Term

Course Code	Title	Credits
BA 228	Computer Accounting Applications	4
	Sub-Total Credits	**4**

Human Resources Assistant

Credential Type
Certificate

This certificate in Human Resources offers foundational coursework for HR careers or transfer to a Bachelor's program. Students gain skills in business management, HR leadership, legal and ethical practices, technology, and communication, with opportunities to apply in real-world HR scenarios dynamics.

Program Learning Outcomes

- Explain the role of HR within business operations, applying concepts and best practices to typical HR tasks.
- Communicate how resources and legal frameworks support ethical HR practices.
- Exhibit personal leadership and collaborate effectively in team environments to achieve organizational goals.

	Total Credits	**47**

Degree Map

Year 1

Fall Term

Course Code	Title	Credits
BA 101Z	Introduction to Business	4
CAS 133	Basic Computer Skills	
WR 121Z	Composition I	4
	Sub-Total Credits	**8**

Winter Term

Course Code	Title	Credits
BA 224	Human Resource Management	3
BA 169Z	Data Analysis Using Microsoft Excel	4
LEAD 242	Personal Leadership Development	3
	Sub-Total Credits	**10**

Spring Term

Course Code	Title	Credits
BA 225	Applied Knowledge and Skills for HR Professionals	4
BA 206	Management Fundamentals	3
BA 205	Business Communication	4
BA 232	Professional Workplace Fundamentals	4
	Sub-Total Credits	**15**

Year 2

Fall Term

Course Code	Title	Credits
BA 120	Project Management Fundamentals	3
BA 285	Human Relations in Organizations	3
MTH 105Z	Math in Society	4
	Sub-Total Credits	**10**

MTH 105Z: This class may require an additional one credit (CR) co-requisite course.

Office Supervision

Credential Type
Certificate

This program certificate prepares students to supervise and manage the operations and personnel of business offices and management-level divisions. The program emphasizes courses in employee supervision, business management, budgeting; fundamental accounting concepts, leadership, and team building along with specialty courses in microcomputer applications.

Program Learning Outcomes

- Analyze business situations and evaluate possible solutions in the context of the business setting.
- Apply an understanding of the management process inclusive of planning, organizing, leading, and controlling resources within organizations.
- Communicate effectively with customers, suppliers, employees, and other stakeholders, using standard business terminology.
- Practice within the legal, ethical, and economic standards of the business environment.
- Utilize computer applications for appropriate managerial analysis, presentations and reports.
- Work effectively in a team and group setting.
- Apply analytical thinking and problem solving strategies to make managerial decisions.
- Communicate effectively with employees and diverse business teams.
- Use computer applications for accounting procedures, managerial analysis, and presentations.

Course Code	Title	Credits
BA 101Z	Introduction to Business	4
BA 131	Introduction to Business Technology	4
BA 205	Business Communication	4
BA 206	Management Fundamentals	3
BA 211Z	Principles of Financial Accounting	4
BA 212	Principles of Accounting II	4
BA 218	Personal Finance	3
BA 224	Human Resource Management	3
BA 285	Human Relations in Organizations	3
CAS 133	Basic Computer Skills	
CAS 170	Beginning Excel	3
MTH 105Z	Math in Society	4
WR 121Z	Composition I	4
	Total Credits	**43**

Degree Map

Year 1

Fall Term

Course Code	Title	Credits
BA 101Z	Introduction to Business	4
BA 211Z	Principles of Financial Accounting	4
CAS 133	Basic Computer Skills	
	Sub-Total Credits	**8**

Winter Term

Course Code	Title	Credits
BA 131	Introduction to Business Technology	4
BA 212	Principles of Accounting II	4
CAS 170	Beginning Excel	3
BA 224	Human Resource Management	3
	Sub-Total Credits	**14**

Spring Term

Course Code	Title	Credits
MTH 105Z	Math in Society	4
WR 121Z	Composition I	4
BA 205	Business Communication	4
	Sub-Total Credits	**12**

Year 2

Fall Term

Course Code	Title	Credits
BA 218	Personal Finance	3
BA 285	Human Relations in Organizations	3
BA 206	Management Fundamentals	3
	Sub-Total Credits	**9**

Workforce Readiness

Credential Type
Certificate

This career pathways certificate prepares students for essential skills for workplace success, including interpersonal communication, leadership, professionalism, and teamwork.

Program Learning Outcomes

- Bookkeepers who perform bank reconciliations, journalizing, posting, worksheets, accounts payable, accounts receivable and payroll.
- Clerical duties such as typing and filing.
- Apply business knowledge, workplace skills, and technology to effectively complete tasks, build relationships, and navigate team dynamics.
- Align personal values with career objectives and develop behaviors essential for workplace success.

	Total Credits	**22**

Degree Map

Year 1

Fall Term

Course Code	Title	Credits
BA 101Z	Introduction to Business	4
BA 285	Human Relations in Organizations	3
	Sub-Total Credits	**7**

Winter Term

Course Code	Title	Credits
BA 133	Introduction to Microsoft Office	4
LEAD 242	Personal Leadership Development	3
	Sub-Total Credits	**7**

Spring Term

Course Code	Title	Credits
BA 232	Professional Workplace Fundamentals	4
BA 277	Business Ethics	4
	Sub-Total Credits	**8**

Business-MTM

Credential Type
Associate of Science Transfer

The Business Major Transfer Map (Business MTM) is a streamlined pathway created for a student who knows they want to earn a Bachelor of Science in business disciplines. While the Business MTM may not meet all the lower division general education requirements at a student's chosen school, students who successfully complete the courses and program GPA requirements, will transfer in with junior standing in the major. They will have the ability to work with an advisor to take smart credits: credits that are required at each public university that will count toward their Business major, a minor or general education.

Program Learning Outcomes
Student who successfully complete this program will be able to:

- Explain basic business functions and their integration into the business environment.
- Integrate diverse cultural perspectives and ethical reasoning and actions into business decisions.
- Demonstrate effective oral and written communication skills.
- Apply critical thinking and analytical reasoning skills to business decisions.

Meets General Education Requirements

In addition to Institutional Learning Outcomes, standards have been established for Student Learning Outcomes in General Education Courses in the following categories: Arts and Letters, Cultural Literacy, Mathematics, Science or Computer Science, Social Science, Speech and Oral Communication, Writing, and Information Literacy. Coursework in each of these areas supports student achievement of these outcomes. TBCC evaluates student achievement of course learning outcomes on a regular basis, and this information is used for continuous improvement in instruction and student services.

Arts & Letters

As a result of taking General Education Arts & Letters* courses, a student should be able to:

- Interpret and engage in the Arts & Letters, making use of the creative process to enrich the quality of life; and
- Critically analyze values and ethics within a range of human experience and expression to engage more fully in local and global issues.
- *"Arts & Letters" refers to works of art, whether written, crafted, designed, or performed and documents of historical or cultural significance.

Cultural Literacy

Cultural Literacy outcomes will be included in courses that meet the outcomes and criteria of an AAOT Discipline Studies requirement.

As a result of taking a designated Cultural Literacy course, a student should be able to:

- Identify and analyze complex practices, values, and beliefs and the culturally and historically defined meanings of difference.

Mathematics

As a result of taking General Education Mathematics courses, a student should be able to:

- Use appropriate mathematics to solve problems: Recognize which mathematical concepts are applicable to a scenario, apply appropriate mathematics and technology in its analysis, and then accurately interpret, validate, and communicate the results.
- Use logical reasoning to make connections between various mathematical concepts and representations.

Science or Computer Science

As a result of taking General Education Science or Computer Science courses, a student should be able to:

- Gather, comprehend, and communicate scientific and technical information in order to explore ideas, models, and solutions and generate further questions;
- Apply scientific and technical modes of inquiry, individually, and collaboratively, to critically evaluate existing or alternative explanations, solve problems, and make evidence-based decisions in an ethical manner; and
- Assess the strengths and weaknesses of scientific studies and critically examine the influence of scientific and technical knowledge on human society and the environment.

Social Science

As a result of taking General Education Social Science courses, a student should be able to:

- Apply analytical skills to social phenomena in order to understand human behavior; and

- Apply knowledge and experience to foster personal growth and better appreciate the diverse social world in which we live.

Speech/Oral Communication

As a result of taking General Education Speech/Oral Communication courses, a student should be able to:

- Engage in ethical communication processes that accomplish goals;
- Respond to the needs of diverse audiences and contexts; and
- Build and manage relationships.

Writing

As a result of completing the General Education Writing sequence, a student should be able to:

- Read actively, think critically, and write purposefully and capable for academic and, in some cases, professional audiences;
- Locate, evaluate, and ethically utilize information to communicate effectively; and
- Demonstrate appropriate reasoning in response to complex issues.

Information Literacy

Information Literacy outcomes and criteria will be embedded in the Writing Foundational Requirements courses.

As a result of taking General Education Writing courses infused with Information Literacy, a student who successfully completes should be able to:

- Formulate a problem statement;
- Determine the nature and extent of the information needed to address the problem;
- Access relevant information effectively and efficiently;
- Evaluate information and its source critically; and
- Understand many of the economic, legal, and social issues surrounding the use of information

Foundational Requirements

Course Code	Title	Credits
WR 121Z	Composition I	4
WR 227Z	Technical Writing	4
	MTH 105 or Higher	4
COMM 111Z	Public Speaking	4
	HE 250 and PE Course 100-Level or Above or HE 295 and PE 295	3-4
	Sub-Total Credits	**19-20**

General Education Requirements

Arts and Letters

2 Courses

	Sub-Total Credits	**8**

Social Science

2 Courses

Course Code	Title	Credits
EC 201Z	Principles of Microeconomics	4
EC 202Z	Principles of Macroeconomics	4
	Sub-Total Credits	**8**

Science, Math, Computer Science

2 Lab Courses

	Sub-Total Credits	**8**

Required Courses

Course Code	Title	Credits
CG 100	College Survival and Success	3
BA 101Z	Introduction to Business	4
BA 169Z	Data Analysis Using Microsoft Excel	4
BA 211Z	Principles of Financial Accounting	4
BA 213Z	Principles of Managerial Accounting	4
BA 226Z	Introduction to Business Law	4
STAT 243Z	Elementary Statistics I	4
	Sub-Total Credits	**27**

Electives

	Sub-Total Credits	**22-27**

	Total Credits	**92-98**

Degree Map

Year 1

Fall Term

Course Code	Title	Credits
CG 100	College Survival and Success	3
BA 101Z	Introduction to Business	4
MTH 105Z	Math in Society	4
	Arts and Letters or Elective	3-4
	Sub-Total Credits	**14-15**

Winter Term

Course Code	Title	Credits
WR 121Z	Composition I	4
BA 169Z	Data Analysis Using Microsoft Excel	4
BA 211Z	Principles of Financial Accounting	4
	Arts and Letters or Elective	3-4
	Sub-Total Credits	**15-16**

Spring Term

Course Code	Title	Credits
WR 227Z	Technical Writing	4
	HE 295 and PE 295	3
BA 213Z	Principles of Managerial Accounting	4
	Arts and Letters or Elective	3-4
	Sub-Total Credits	**14-15**

Year 2

Fall Term

Course Code	Title	Credits
STAT 243Z	Elementary Statistics I	4
	Elective	3-4
	Elective	3-4
	BI 101 or G 201	4
	Sub-Total Credits	**14-16**

Winter Term

Course Code	Title	Credits
COMM 111Z	Public Speaking	4
BA 226Z	Introduction to Business Law	4
EC 201Z	Principles of Microeconomics	4
	BI 102 or G 202	4
	Sub-Total Credits	**16**

Spring Term

Course Code	Title	Credits
EC 202Z	Principles of Macroeconomics	4
	Elective	3-4
	Elective	3-4
	Elective	3-4
	Sub-Total Credits	**13-16**

Computer Science Program

Basic Computer Literacy

Credential Type
Certificate

This career pathways certificate prepares students for entry-level positions which require basic computer literacy skills including MS Word, Excel, and PowerPoint. This certificate also benefits people who are already working but they desire to update and enhance their skills.

Program Learning Outcomes

- Practice essential computer literacy tasks and demonstrate proper use of computer hardware.
- Prepare business documents using Microsoft Office Word, Excel, and PowerPoint.

Course Code	Title	Credits
BA 131	Introduction to Business Technology	4
CAS 133	Basic Computer Skills	
CAS 170	Beginning Excel	3
CAS 216	Beginning Word	3
	Total Credits	**10**

Degree Map

Year 1

Fall Term

Course Code	Title	Credits
CAS 133	Basic Computer Skills	

Winter Term

Course Code	Title	Credits
CAS 170	Beginning Excel	3
BA 131	Introduction to Business Technology	4
	Sub-Total Credits	**7**

Spring Term

Course Code	Title	Credits
CAS 216	Beginning Word	3
	Sub-Total Credits	**3**

Education Program

Oregon Transfer in Education-MTM

Credential Type
Associate of Arts Transfer

Major Transfer Map

The statewide Elementary Education Major Transfer Map (MTM) will use the Associate of Arts Oregon Transfer degree (AAOT-ELEM ED).

The MTMs identify the optimal and specific set of community college courses students need to take to transfer efficiently into the major at the university. The successful completion of the MTM allows students to receive status at the public university, based on the number of academic credits referenced in the transfer agreement, including at least 30 credits of general education satisfied, that is comparable to the status of students with the same number of academic credits in the major course of study who began their postsecondary studies at the public university. The students will not be required to retake a course, as long as the minimum required grades have been earned.

Students must have earned a cumulative grade point average of 2.0 and meet the residency requirements at the community college awarding the MTM.

When students complete an MTM, the general education courses in the "Core Transfer Map" portion of the MTM, for which minimum required grades have been earned, are guaranteed to transfer into general education, degree, or major requirements for a bachelor's degree at any Oregon public university (ORS 350.404). However, while CTM-related courses are guaranteed to transfer into general education, degree, or major requirements, students completing an MTM will not be awarded a CTM also. Students who want to transfer prior to completing the MTM should talk with their community college advisor and an advisor at their target university prior to transfer about how their courses will count towards general education requirements and degree/major requirements. If the MTM is not awarded advisors can guide students to determine if they are eligible for a CTM.

Students are responsible for informing the admissions counselor or intake advisor at their receiving four-year institution that they are completing an MTM. It is important for students to understand that completing the MTM in two years and the bachelor's degree in four years requires them to complete a minimum average of 15 credits per quarter (or 45 credits per year).

Click to view Major Transfer Map (MTM) agreement.

Western Oregon University Pathway

This program leads to a Bachelor of Science degree in Education, including an initial Oregon Teaching License in four years. During the first two years, at TBCC, students complete required general education and pre-education courses that fully prepare the student to enter the WOU professional school of Education in the Elementary/Middle concentration. Students completing this program will be qualified to teach all grades in an elementary school plus one subject area in middle school.

Note: Students interested in teaching High School should NOT follow this guide, and should meet individually with a WOU advisor prior to starting this degree map to create an individualized plan.

Program Learning Outcomes
Student who successfully complete this program will be able to:

- Apply critical thinking to analyze social issues necessary to support the function of public education.
- Describe culturally-responsive pedagogy and integration of social justice into a teaching philosophy.
- Identify the ethics and responsibilities necessary to obtain a professional license in the teaching field and clarify career confirmation.

Meets General Education Requirements

In addition to Institutional Learning Outcomes, standards have been established for Student Learning Outcomes in General Education Courses in the following categories: Arts and Letters, Cultural Literacy, Mathematics, Science or Computer Science, Social Science, Speech and Oral Communication, Writing, and Information Literacy. Coursework in each of these areas supports student achievement of these outcomes. TBCC evaluates student achievement of course learning outcomes on a regular basis, and this information is used for continuous improvement in instruction and student services.

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As a result of taking General Education Arts & Letters* courses, a student should be able to:

- Interpret and engage in the Arts & Letters, making use of the creative process to enrich the quality of life; and
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As a result of taking a designated Cultural Literacy course, a student should be able to:

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As a result of taking General Education Mathematics courses, a student should be able to:

- Use appropriate mathematics to solve problems: Recognize which mathematical concepts are applicable to a scenario, apply appropriate mathematics and technology in its analysis, and then accurately interpret, validate, and communicate the results.
- Use logical reasoning to make connections between various mathematical concepts and representations.

Science or Computer Science

As a result of taking General Education Science or Computer Science courses, a student should be able to:

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- Apply scientific and technical modes of inquiry, individually, and collaboratively, to critically evaluate existing or alternative explanations, solve problems, and make evidence-based decisions in an ethical manner; and
- Assess the strengths and weaknesses of scientific studies and critically examine the influence of scientific and technical knowledge on human society and the environment.

Social Science

As a result of taking General Education Social Science courses, a student should be able to:

- Apply analytical skills to social phenomena in order to understand human behavior; and
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Speech/Oral Communication

As a result of taking General Education Speech/Oral Communication courses, a student should be able to:

- Engage in ethical communication processes that accomplish goals;
- Respond to the needs of diverse audiences and contexts; and
- Build and manage relationships.

Writing

As a result of completing the General Education Writing sequence, a student should be able to:

- Read actively, think critically, and write purposefully and capable for academic and, in some cases, professional audiences;
- Locate, evaluate, and ethically utilize information to communicate effectively; and
- Demonstrate appropriate reasoning in response to complex issues.

Information Literacy

Information Literacy outcomes and criteria will be embedded in the Writing Foundational Requirements courses.

As a result of taking General Education Writing courses infused with Information Literacy, a student who successfully completes should be able to:

- Formulate a problem statement;
- Determine the nature and extent of the information needed to address the problem;
- Access relevant information effectively and efficiently;
- Evaluate information and its source critically; and
- Understand many of the economic, legal, and social issues surrounding the use of information

Foundational Requirements

Course Code	Title	Credits
COMM 111Z	Public Speaking	4
WR 121Z	Composition I	4
WR 122Z	Composition II	4
MTH 211	Foundations of Elementary Math I	4

MTH 212	Foundations of Elementary Math II	4
	Sub-Total Credits	**20**

General Education Requirements

Arts and Letters

Course Code	Title	Credits
ART 131	Drawing I	3
	ENG 104Z, ENG 105, or ENG 106	4
	ENG 253 or ENG 254	4
	Sub-Total Credits	**11**

Social Science

Course Code	Title	Credits
	HST 202, HST 201, or HST 203	4
PS 201	US Government: Foundations and Principles	4
PSY 201Z	Introduction to Psychology I	4
GEO 106	World Regional Geography	4
	Sub-Total Credits	**16**

Science, Math, Computer Science

Course Code	Title	Credits
BI 101	Biology	4
STAT 243Z	Elementary Statistics I	4
GS 106	Physical Science (Geology)	4
	Sub-Total Credits	**12**

Required Degree Electives

Course Code	Title	Credits
	HE 295 and PE 295	3
CG 100	College Survival and Success	3
LEAD 110	Leadership & Ethics in the HelpingProfessions	4
LING 214	Introduction to Linguistics	4
ENG 216	Introduction to Children's Literature	4
ED 131	Applied Learning Theory I & II	3
ED 224	Foundations of Education	3
ED 251	Overview of Exceptional Learners	3
ED 258	Multicultural Education: Principles	4
GS 108	Physical Science (Oceanography)	4
	Sub-Total Credits	**35**

Maximum of 12 Career Technical credits may be applied

Maximum of 3 Physical Education credits may be applied

	Total Credits	**94**

Degree Map

Year 1

Fall Term

Course Code	Title	Credits
CG 100	College Survival and Success	3
WR 121Z	Composition I	4
LEAD 110	Leadership & Ethics in the HelpingProfessions	4
PSY 201Z	Introduction to Psychology I	4
	Sub-Total Credits	**15**

Winter Term

Course Code	Title	Credits
	WR 122Z or WR 227Z	4
ENG 216	Introduction to Children's Literature	4
	HST 202, HST 201, or HST 203	4
ED 224	Foundations of Education	3
	Sub-Total Credits	**15**

Spring Term

Course Code	Title	Credits
COMM 111Z	Public Speaking	4
	ENG 104Z, ENG 105, or ENG 106	4
ED 251	Overview of Exceptional Learners	3
ART 131	Drawing I	3
	HE 295 and PE 295	3
	Sub-Total Credits	**17**

Year 2

Fall Term

Course Code	Title	Credits
GS 106	Physical Science (Geology)	4
MTH 211	Foundations of Elementary Math I	4
PS 201	US Government: Foundations and Principles	4
BI 101	Biology	4
	Sub-Total Credits	**16**

Winter Term

Course Code	Title	Credits
GS 108	Physical Science (Oceanography)	4
MTH 212	Foundations of Elementary Math II	4
ED 258	Multicultural Education: Principles	4
LING 214	Introduction to Linguistics	4
	Sub-Total Credits	**16**

Spring Term

Course Code	Title	Credits
ED 131	Applied Learning Theory I & II	3
MTH 213	Foundations of Elementary Math III	4
GEO 106	World Regional Geography	4
STAT 243Z	Elementary Statistics I	4
	Sub-Total Credits	**15**

Apply for graduation- AAOT completed!

Program Notes

Program Pre-Requisites: RDWR 115 & MTH 99

Emergency Medical Technician Program

Emergency Medical Services

Credential Type
Certificate

This program is designed to instruct students at the level of Emergency Medical Technician (EMT). EMT's are a vital member of the healthcare team, assessing and caring for sick or injured patients in the prehospital and hospital environment. Upon successful completion of the program, students are eligible to take the National Registry EMT certification exam and apply for licensure with the State of Oregon.

It is up to the student to research eligibility requirements in the state for which the student desires to practice.

Program Learning Outcomes

- Act in accordance with the ethical and professional medical standards of the entry level EMT Basic.
- Demonstrate the professional and technical skill set necessary in emergency situations in an EMT Basic capacity.
- Demonstrate effective communication, cultural competency, and emergency intervention skills for people in crisis.
- Pass the National Registry EMT certification exam and apply for licensure with the State of Oregon.

	Total Credits	**13**

Degree Map

TBCC guarantees, at a minimum, the following courses each quarter for the completion of this Career Pathway Certificate. A student can transfer in or take other courses that meet the requirements, though this is discouraged.

Year 1

Fall Term

Course Code	Title	Credits
HE 110	CPR/AED for Professional Rescuers and Health Care Providers	1
EMS 105	EMT Part I	4
EMS 105L	EMT Part I Lab	1
	Sub-Total Credits	**6**

Winter Term

Course Code	Title	Credits
EMS 106	EMT Part II	4
EMS 106L	EMT Part II Lab	1
EMS 106C	EMT Part II Clinical	2
	Sub-Total Credits	**7**

Apply for CPC!

Program Notes
In order to participate in clinical experience, students must be 18 years of age and have completed the CastleBranch Healthcare requirements (criminal background check, drug screen and required immunizations).

Forestry Program

Forestry

Credential Type
Associate of Science

Are you interested in the future of our forests, forest management and the political/social contexts that are affecting our forests? If so, the Associate of Science in Forestry degree is for you! This degree is for students who are interested in a career in forestry as a professional forester, silviculturist, GIS specialist, or fire ecologist.

Upon completion of this degree, students should have completed all required pre-professional coursework to apply to Oregon State University's professional program in the school of Forestry.

OSU's School of Forestry has three different degree options; Forest Management, Forest Operations Management, and Forest Restoration + Fire. This degree directly transfers to the Forest Management option, however with a few minor changes in classes; all three options are a possibility.

Some of the classes within this degree can be completed in high school, so if this is a degree for you, contact your high school counselor to find out which classes you could take before coming to TBCC.

For additional information about this degree, please contact the OSU Open Campus Education Coordinator/TBCC Agriculture, Natural Resources, and Forestry Coordinator at 503-842-8222 ext. 1870.

Program Learning Outcomes

- Integrate technical field skills with analytical skills to identify important forest management challenges and identify potential solutions for these problems.
- Explain and discuss important current issues, and social and political components of forest management in the United States and other countries.
- Demonstrate basic skills in forest surveying, recreation management, soil science, geographic information systems, and spreadsheet applications.
- Identify important tree and shrub species in the Pacific Northwest.
- Meets general education outcomes.

Career Outlook
For students who want to enter the workforce after completing the AS in Forestry, there are some entry-level jobs available within the Tillamook community. One common employment option is becoming a forestry technician.

Foundational Requirements

Course Code	Title	Credits
MTH 111Z	Precalculus I: Functions	4
WR 121Z	Composition I	4
WR 227Z	Technical Writing	4
	HE 295 and PE 295	3
	Sub-Total Credits	**15**

General Education Requirements

Arts and Letters

Course Code	Title	Credits
	COMM 111Z or COMM 218Z	4
	ENG 260, ENG 254, or ENG 250	4
	Sub-Total Credits	**8**

Social Science

Course Code	Title	Credits
EC 201Z	Principles of Microeconomics	4
	GEO 106 ore REL 101	4
	Sub-Total Credits	**8**

Science, Math, Computer Science

Course Code	Title	Credits
CH 221Z	General Chemistry I	4
CH 227Z	General Chemistry I Laboratory	1
MTH 241	Calculus for Management, Life and Social Science	4
	Sub-Total Credits	**9**

Required Degree Electives

Course Code	Title	Credits
CG 100	College Survival and Success	3
BI 221Z	Principles of Biology: Cells	5
FOR 111	Introduction to Forestry	3
FOR 112	Computing Applications in Forestry	3
FOR 222	Elementary Forest Survey	4
FOR 240	Forest Biology	4
FOR 241	Dendrology	3
FOR 251	Recreation Resource Management	4
GEO 265	Introduction to GIS	3
STAT 243Z	Elementary Statistics I	4
PHY 201	General Physics I	5
	PHL 202, HST 201, HST 202, or HST 203	4
SOC 206Z	Social Problems	4
SOIL 205	Soil Science	4
	Sub-Total Credits	**53**

	Total Credits	**93**

Degree Map

Year 1

Fall Term

Course Code	Title	Credits
FOR 111	Introduction to Forestry	3
CG 100	College Survival and Success	3
BI 221Z	Principles of Biology: Cells	5
WR 121Z	Composition I	4
	Sub-Total Credits	**15**

Winter Term

Course Code	Title	Credits
GEO 265	Introduction to GIS	3
EC 201Z	Principles of Microeconomics	4
FOR 112	Computing Applications in Forestry	3
STAT 243Z	Elementary Statistics I	4
	Sub-Total Credits	**14**

Spring Term

Course Code	Title	Credits
FOR 241	Dendrology	3
COMM 111Z	Public Speaking	4
MTH 111Z	Precalculus I: Functions	4
WR 227Z	Technical Writing	4
	Sub-Total Credits	**15**

Year 2

Fall Term

Course Code	Title	Credits
FOR 240	Forest Biology	4
CH 221Z	General Chemistry I	4
CH 227Z	General Chemistry I Laboratory	1
	Arts and Letters or Elective	3-4
PHY 201	General Physics I	5
	Sub-Total Credits	**17-18**

Winter Term

Course Code	Title	Credits
FOR 251	Recreation Resource Management	4
MTH 241	Calculus for Management, Life and Social Science	4
	Elective	3-4
	Social Science Elective or PHL 202	3-4
	Sub-Total Credits	**14-16**

Spring Term

Course Code	Title	Credits

SOIL 205	Soil Science	4
FOR 222	Elementary Forest Survey	4
	SOC 206, HST 202, or HST 203	4
	HE 295 and PE 295	3
	Sub-Total Credits	**15**

Program Notes

Note that in order for a student to successfully transfer to an Oregon public university, students must: 1) earn a grade of a "C -" or better in courses in the major; 2) take courses in the major for a grade—they will not be accepted as "pass/no pass"; and 3) earn a cumulative grade point average of 2.0. Students must also regularly meet with an advisor. Students are strongly encouraged to: 1) seek advising before registering for their first term of community college; 2) seek advising after they have completed the 27-35 credits of the Core Transfer Map; and 3) seek advising and meet with a transfer coordinator before registration opens at the beginning of the students second year in college. Students should also be aware that if they want to complete this Major Transfer Map in two years, they should take an average of 45 credits per year (average of 15 credits per quarter). Finally, to earn an associate degree, students will need to successfully complete at least 90 credits. NOTE: A Maximum of 12 credits can be Career Technical Education courses; A Maximum of 9 credits can be from courses labeled 199/299; A Maximum of 24 credits can be ESOL; A Maximum of 24 credits can be "P" grades; and, A Maximum of 21 credits can be from Credit for Prior Learning (CPL).

General Studies Program

Oregon Transfer

Credential Type
Associate of Arts Transfer

The Associate of Arts/Science Oregon Transfer degree is an opportunity for students to complete the lower division degree requirements of baccalaureate degrees at TBCC. Any students having the AAOT/ASOT degree recognized on their official college transcript will have met the lower division general education degree requirements of baccalaureate degree programs at Oregon public universities. Students transferring under this agreement will have junior status for registration purposes. Course, class standing, or GPA requirements for specific majors are not necessarily satisfied by the AAOT/ASOT degree. All courses should be aligned with the students intended program of study and the degree requirements of the baccalaureate institution to which the student plans to transfer. A student is encouraged to work with a TBCC advisor when planning and selecting courses.

Unless otherwise noted, the following apply

- Complete all courses with a minimum grade of "C" or "Pass" or better. Students must have a cumulative GPA of 2.0 at the time the AAOT/ASOT is awarded.
- All courses must be a minimum of three credits (except for Health/Wellness/Fitness courses, which may be any number of credits).
- Courses may not be double counted within General Education (e.g. Oral Communication and Arts and Letters)
- General Education courses must include;
    - Writing (8CR): WR 121 and either WR 122 or WR 227
    - Oral Communication (3CR+): COMM 111
    - Math (4CR+): MTH 105 or higher
    - Health/Wellness/Fitness (3CR): HE 295, HE 242, HE 250, HE 254, PE 295, PE 142, PE 182
    - Information Literacy: embedded within WR courses
    - Arts & Letters/Humanities: 9-12 credits including three courses from at least two different disciplines including (but not limited to) ART, COMM, ENG, MUS, REL, PHL or Foreign Language
    - Social Science: 12-15 credits, including four courses from two or more disciplines including (but not limited to) PSY, SOC, PS, HST, ECON
    - Science/Math/Computer Science: 15-20 credits including at least four courses from at least two disciplines including (but not limited to) MTH, CS, BI, G, GS, GEO, CHEM, PHY and must include at least three lab courses in biological and/or physical science
    - Cultural Literacy: at least one course from the statewide cultural literacy list, this course can be one of the other general education requirements listed above
- A Maximum of 12 credits can be Career Technical Education courses
- A Maximum of 9 credits can be from courses labeled 199/299
- A Maximum of 24 credits can be ESOL
- A Maximum of 24 credits can be "P" grades
- A Maximum of 21 credits can be from Credit for Prior Learning (CPL)
- Electives must be used to bring the program of study up to a minimumof 90 credits, and a maximum of 108
- 30 credits are required to meet residency at TBCC, 24 of which must apply to the degree for which the student is being awarded
- Note: There are specific ASOT degrees, such as the ASOT in Business. These degrees have state standards clearly explained and must be followed as outlined

Program Learning Outcomes
Meets General Education Requirements

In addition to Institutional Learning Outcomes, standards have been established for Student Learning Outcomes in General Education Courses in the following categories: Arts and Letters, Cultural Literacy, Mathematics, Science or Computer Science, Social Science, Speech and Oral Communication, Writing, and Information Literacy. Coursework in each of these areas supports student achievement of these outcomes. TBCC evaluates student achievement of course learning outcomes on a regular basis, and this information is used for continuous improvement in instruction and student services.

Arts & Letters

As a result of taking General Education Arts & Letters* courses, a student should be able to:

- Interpret and engage in the Arts & Letters, making use of the creative process to enrich the quality of life; and
- Critically analyze values and ethics within a range of human experience and expression to engage more fully in local and global issues.
- *“Arts & Letters” refers to works of art, whether written, crafted, designed, or performed and documents of historical or cultural significance.

Cultural Literacy

Cultural Literacy outcomes will be included in courses that meet the outcomes and criteria of an AAOT Discipline Studies requirement.

As a result of taking a designated Cultural Literacy course, a student should be able to:

- Identify and analyze complex practices, values, and beliefs and the culturally and historically defined meanings of difference.

Mathematics

As a result of taking General Education Mathematics courses, a student should be able to:

- Use appropriate mathematics to solve problems: Recognize which mathematical concepts are applicable to a scenario, apply appropriate mathematics and technology in its analysis, and then accurately interpret, validate, and communicate the results.
- Use logical reasoning to make connections between various mathematical concepts and representations.

Science or Computer Science

As a result of taking General Education Science or Computer Science courses, a student should be able to:

- Gather, comprehend, and communicate scientific and technical information in order to explore ideas, models, and solutions and generate further questions;
- Apply scientific and technical modes of inquiry, individually, and collaboratively, to critically evaluate existing or alternative explanations, solve problems, and make evidence-based decisions in an ethical manner; and
- Assess the strengths and weaknesses of scientific studies and critically examine the influence of scientific and technical knowledge on human society and the environment.

Social Science

As a result of taking General Education Social Science courses, a student should be able to:

- Apply analytical skills to social phenomena in order to understand human behavior; and
- Apply knowledge and experience to foster personal growth and better appreciate the diverse social world in which we live.

Speech/Oral Communication

As a result of taking General Education Speech/Oral Communication courses, a student should be able to:

- Engage in ethical communication processes that accomplish goals;
- Respond to the needs of diverse audiences and contexts; and
- Build and manage relationships.

Writing

As a result of completing the General Education Writing sequence, a student should be able to:

- Read actively, think critically, and write purposefully and capable for academic and, in some cases, professional audiences;
- Locate, evaluate, and ethically utilize information to communicate effectively; and
- Demonstrate appropriate reasoning in response to complex issues.

Information Literacy

Information Literacy outcomes and criteria will be embedded in the Writing Foundational Requirements courses.

As a result of taking General Education Writing courses infused with Information Literacy, a student who successfully completes should be able to:

- Formulate a problem statement;
- Determine the nature and extent of the information needed to address the problem;
- Access relevant information effectively and efficiently;
- Evaluate information and its source critically; and
- Understand many of the economic, legal, and social issues surrounding the use of information

Foundational Requirements

Mathematics

Course Code	Title	Credits
	MTH 105 or Higher	4
	Sub-Total Credits	**4**

Writing

8 Credits Including WR 121

Course Code	Title	Credits

WR 121Z	Composition I	4
	WR 122Z or WR 227Z	4
	COMM 111Z or COMM 112	4
	Sub-Total Credits	**8**

Health/Wellness/Fitness

Course Code	Title	Credits
	HE 250, HE 295, PE 295, or Other PE Course	3
	Sub-Total Credits	**3**

General Education Requirements

At Least 33 Credits

Course Code	Title	Credits
	Arts and Letters: 3 Courses from at Least 2 Disciplines	9-12
	Social Science: 4 Courses from at Least 2 Disciplines	12-15
	Cultural Literacy Course	3
	Science, Math, Computer Science: 4 Courses from at Least 2 Disciplines	15-20
	Sub-Total Credits	**33**

All GE Courses Must Carry 3 or More Credits

Degree Electives

At Least 38 Credits

	Sub-Total Credits	**38**

- Maximum of 12 Career Technical credits may be applied
- Maximum of 3 Physical Education credits may be applied

	Total Credits	**86**

Degree Map

TBCC guarantees, at a minimum, the following courses each quarter for the completion of the AAOT. A student can transfer in or take other courses that meet the requirements though this is discouraged.

Year 1

Fall Term

Course Code	Title	Credits
CG 100	College Survival and Success	3
WR 121Z	Composition I	4
	MTH 111Z, MTH 105Z, or STAT 243Z	4
	PSY 101 or BA 285	3-4
	Sub-Total Credits	**14-15**

Winter Term

Course Code	Title	Credits
	WR 122Z or WR 227Z	4
ENG 254	Survey of American Literature II	4
	EC 201Z or HST 202	4
COMM 111Z	Public Speaking	4
	Sub-Total Credits	**16**

Spring Term

Course Code	Title	Credits
	ENG 106Z or MUS 205	4
SOC 206Z	Social Problems	4
	EC 202Z or HST 203	4
	Social Science Electives	3-4
	Sub-Total Credits	**15-16**

Year 2

Fall Term

Course Code	Title	Credits
	BI 101 or G 201	4
CS 160	Introduction to Computer Science	4
	ENG 250 or MUS 108	3-4
PSY 201Z	Introduction to Psychology I	4
	Sub-Total Credits	**15-16**

OTM Completed!

Winter Term

Course Code	Title	Credits
	BI 102 or GS 108	4
CS 161	Computer Science I	4
HE 250	Personal Health	3
	Sub-Total Credits	**11**

Spring Term

Course Code	Title	Credits
	BI 103 or G 202	4
CS 162	Computer Science II	4
	Electives	8
	Sub-Total Credits	**16**

Apply for graduation- AAOT completed!

WR 121Z, MTH 111Z, STAT 243, WR 122Z, ENG 254, EC 201Z, HST 202, COMM 111, ENG 106Z, MUS 205, SOC 206, EC 202Z, HST 203, BI 101, ENG 250, MUS 108, BI 102, BI 103, G 202: We recommend these courses in order to also complete the Oregon Transfer Module (OTM)

Program Notes

- Complete all courses with a minimum grade of "C" or "Pass" or better. Students must have a cumulative GPA of 2.0 at the time the AAOT/ASOT is awarded.
- All courses must be a minimum of three credits (except for Health/Wellness/Fitness courses, which may be any number of credits).
- Courses may not be double counted within General Education (e.g. Oral Communication and Arts and Letters)

Associate of Science

Credential Type
Associate of Science

The Associate of Science/Arts degree is designed for students planning to transfer credits to a baccalaureate degree program at a four-year institution within Oregon public universities. It allows for more freedom in course selection than the AAOT/ASOT, but does not guarantee that students will be accepted as having completed all lower division comprehensive and general education requirements for a baccalaureate degree.

Unless otherwise noted;

- Complete all courses with a minimum grade of "C" or "Pass" or better. Students must have a cumulative GPA of 2.0 at the time the AA/AS is awarded.
- Courses may not be double counted within General Education (e.g. Oral Communication and Arts and Letters)
- General Education courses must include;
  - Writing (8CR): WR 121 and either WR 122 or WR 227
  - Oral Communication (3CR+): COMM 111
  - Math (4CR+): MTH 105 or higher
  - Health/PE: HE 250 + 1 CR in PE or HE/PE 295 (max 3 CR): HE 295, HE 242, HE 250, HE 254, PE 295, PE 142, PE 182
  - Information Literacy: embedded within WR courses
  - Arts & Letters/Humanities: three courses (9 credits) for AA degrees and two courses (6 credits) for AS degrees (e.g. ART, COMM, ENG, MUS, REL, PHL or Foreign Language)
  - Social Science: three courses (9 credits) for AA degrees and two courses (6 credits) for AS degrees (e.g. PSY, SOC, PS, HST, or ECON)
  - Science/Math/Computer Science: 9 credits for AA degrees and 7 credits for AS degrees with at least one lab science (e.g. MTH, CS, BI, G, GS, GEO, CHEM, PHY).
  - A Maximum of 12 credits can be Career Technical Education courses
  - A Maximum of 9 credits can be from courses labeled 199/299
  - A Maximum of 24 credits can be ESOL
  - A Maximum of 24 credits can be "P" grades
  - A Maximum of 21 credits can be from Credit for Prior Learning (CPL)
- Electives must be used to bring the program of study up to a minimum of 90 credits, and a maximum of 108
- 30 credits are required to meet residency at TBCC, 24 of which must apply to the degree for which the student is being awarded

Program Learning Outcomes
Meets General Education Requirements

In addition to Institutional Learning Outcomes, standards have been established for Student Learning Outcomes in General Education Courses in the following categories: Arts and Letters, Cultural Literacy, Mathematics, Science or Computer Science, Social Science, Speech and Oral Communication, Writing, and Information Literacy. Coursework in each of these areas supports student achievement of these outcomes. TBCC evaluates student achievement of course learning outcomes on a regular basis, and this information is used for continuous improvement in instruction and student services.

Arts & Letters

As a result of taking General Education Arts & Letters* courses, a student should be able to:

- Interpret and engage in the Arts & Letters, making use of the creative process to enrich the quality of life; and
- Critically analyze values and ethics within a range of human experience and expression to engage more fully in local and global issues.
- *“Arts & Letters” refers to works of art, whether written, crafted, designed, or performed and documents of historical or cultural significance.

Cultural Literacy

Cultural Literacy outcomes will be included in courses that meet the outcomes and criteria of an AAOT Discipline Studies requirement.

As a result of taking a designated Cultural Literacy course, a student should be able to:

- Identify and analyze complex practices, values, and beliefs and the culturally and historically defined meanings of difference.

Mathematics

As a result of taking General Education Mathematics courses, a student should be able to:

- Use appropriate mathematics to solve problems: Recognize which mathematical concepts are applicable to a scenario, apply appropriate mathematics and technology in its analysis, and then accurately interpret, validate, and communicate the results.

- Use logical reasoning to make connections between various mathematical concepts and representations.

Science or Computer Science

As a result of taking General Education Science or Computer Science courses, a student should be able to:

- Gather, comprehend, and communicate scientific and technical information in order to explore ideas, models, and solutions and generate further questions;
- Apply scientific and technical modes of inquiry, individually, and collaboratively, to critically evaluate existing or alternative explanations, solve problems, and make evidence-based decisions in an ethical manner; and
- Assess the strengths and weaknesses of scientific studies and critically examine the influence of scientific and technical knowledge on human society and the environment.

Social Science

As a result of taking General Education Social Science courses, a student should be able to:

- Apply analytical skills to social phenomena in order to understand human behavior; and
- Apply knowledge and experience to foster personal growth and better appreciate the diverse social world in which we live.

Speech/Oral Communication

As a result of taking General Education Speech/Oral Communication courses, a student should be able to:

- Engage in ethical communication processes that accomplish goals;
- Respond to the needs of diverse audiences and contexts; and
- Build and manage relationships.

Writing

As a result of completing the General Education Writing sequence, a student should be able to:

- Read actively, think critically, and write purposefully and capable for academic and, in some cases, professional audiences;
- Locate, evaluate, and ethically utilize information to communicate effectively; and
- Demonstrate appropriate reasoning in response to complex issues.

Information Literacy

Information Literacy outcomes and criteria will be embedded in the Writing Foundational Requirements courses.

As a result of taking General Education Writing courses infused with Information Literacy, a student who successfully completes should be able to:

- Formulate a problem statement;
- Determine the nature and extent of the information needed to address the problem;
- Access relevant information effectively and efficiently;
- Evaluate information and its source critically; and
- Understand many of the economic, legal, and social issues surrounding the use of information

Foundational Requirements

Course Code	Title	Credits
COMM 111Z	Public Speaking	4
	HE 250 and PE Course 100-Level or Above or HE 295 and PE 295	3-4
MTH 105Z	Math in Society	4
WR 121Z	Composition I	4
	WR 122Z or WR 227Z	4
	Sub-Total Credits	**19-20**

General Education Requirements

Arts and Letters

Two Courses (Minimum of 6 Credits)

	Sub-Total Credits	**6**

Social Science

Two Courses (Minimum of 6 Credits)

	Sub-Total Credits	**6**

Science, Math, Computer Science

Two Courses (Minimum of 7 Credits, 1 Lab Required)

	Sub-Total Credits	**7**

Degree Electives

Maximum of 12 Career Technical credits may be applied

Maximum of 3 Physical Education credits may be applied

	Total Credits	**38-39**

Degree Map

TBCC guarantees, at a minimum, the following courses each quarter for the completion of the Associate of Science. A student can transfer in or take other courses that meet the requirements though this is discouraged.

Year 1

Fall Term

Course Code	Title	Credits
CG 100	College Survival and Success	3
WR 121Z	Composition I	4
	MTH 111Z, MTH 105Z, or STAT 243Z	4
	PSY 101 or BA 285	3-4
	Sub-Total Credits	**14-15**

Winter Term

Course Code	Title	Credits
	WR 122Z or WR 227Z	4
ENG 254	Survey of American Literature II	4
HST 202	US History 1840-1914	4
COMM 111Z	Public Speaking	4
	Sub-Total Credits	**16**

Spring Term

Course Code	Title	Credits
	ENG 106Z or MUS 205	4
SOC 206Z	Social Problems	4
HST 203	US History 1914 to Present	4
	BI 100 or FOR 241	3-4
	Sub-Total Credits	**15-16**

Year 2

Fall Term

Course Code	Title	Credits
	BI 101 or G 201	4
CS 160	Introduction to Computer Science	4
	ENG 250 or MUS 108	3-4
HE 250	Personal Health	3
	Sub-Total Credits	**14-15**

OTM Completed!

Winter Term

Course Code	Title	Credits
	Electives	7-8
	Electives	7-8
	Sub-Total Credits	**14-16**

Spring Term

Course Code	Title	Credits
	Electives	7
	Electives	7
	Sub-Total Credits	**14**

AS AWARDED (apply for graduation!)

WR 121Z, MTH 111Z, MTH 105Z, STAT 243Z, WR 122Z, ENG 254, HST 202, COMM 111Z, ENG 106Z, MUS 205, SOC 206, HST 203, G 201, CS 160, ENG 250, MUS 108: We recommend completing these courses in order to also complete the Oregon Transfer Module (OTM)

Program Notes

Complete all courses with a minimum grade of "C" or "Pass" or better. Students must have a cumulative GPA of 2.0 at the time the AS is awarded.

All AS Degree Requirements and General Education courses must be a minimum of three (3) credits excepting PE courses.

Courses may not be double counted within General Education (e.g. Public Speaking and Arts and Letters)

Oregon Transfer Module (1 Year)

Credential Type
Non-Degree

OTM is a one-year course of study for students who plan to transfer to a community college or university in Oregon. This group of courses will not lead to a certificate or degree at TBCC. Intead, its purpose is to give you a one-year basic foundation and meet some basic requirements before you transfer to a four-year school.

Work closely with a career education advisor at TBCC to select appropriate course work.

If you transfer before you finish the OTM, your courses will be evaluated by the Oregon college or university individually.

To earn the OTM, you must complete a minimum of 45 credits of lower division course work with a grade of “C” or better.

Program Learning Outcomes
The OTM is not a certificate or degree, but is documentation that students have met a subset of common General Education requirements. It includes Communication, Mathematics, and an introduction to the disciplines, which includes Arts and Letters, Social Science, and Science.

OTM Requirements

Course Code	Title	Credits
MTH 111Z	Precalculus I: Functions	4
WR 121Z	Composition I	4
WR 122Z	Composition II	4
COMM 111Z	Public Speaking	4
	Sub-Total Credits	**16**

General Education Requirements

(At Least 28 Credits - All GE Courses Must Carry 3 or More Credits)

Arts and Letters

3 Courses

	Sub-Total Credits	**9**

Social Science

3 Courses

	Sub-Total Credits	**12**

Science, Math, Computer Science

3 Courses, 1 Must Be a Lab Course

	Sub-Total Credits	**7**

	Total Credits	**44**

Program Notes
All courses must be passed with a "C" grade or better.

Associate of General Studies

Credential Type
Associate of General Studies

The Associate of General Studies is designed for students wishing to acquire a broad education, rather than pursuing a specific college major or career and technical program. College work may include courses selected from a variety of career and technical education and college transfer courses. Because of the flexibility of this degree, it may not fulfill requirements for transfer to four year institutions. Students are responsible for checking with the college of their choice if transferability is desired.

Unless otherwise noted, the following apply;

- Complete all courses with a minimum grade of "D" or "Pass" or better. Students must have a cumulative GPA of 2.0 at the time the AGS is awarded.
- General Education courses must include;
  - Writing (8CR): WR 121 and either WR 122 or WR 227
  - Oral Communication (3CR+): COMM 111
  - Math (4CR+): MTH 105 or higher
  - Health/Wellness/Fitness: maximum of 6 credits
  - Information Literacy: embedded within WR courses
  - Arts & Letters/Humanities: 6 credits (e.g. ART, COMM, ENG, MUS, REL, PHL or Foreign Language)
  - Social Science: 6 credits (e.g. PSY, SOC, PS, HST, or ECON)
  - Science/Math/Computer Science: 6 credits (e.g. MTH, CS, BI, G, GS, GEO, CHEM, PHY)
  - A Maximum of 9 credits can be from courses labeled 199/299
  - A Maximum of 24 credits can be ESOL
  - A Maximum of 24 credits can be "P" grades
  - A Maximum of 21 credits can be from Credit for Prior Learning (CPL)
- Electives must be used to bring the program of study up to a minimum of 90 credits, and a maximum of 108
- 30 credits are required to meet residency at TBCC, 24 of which must apply to the degree for which the student is being awarded.

Program Learning Outcomes
Meets General Education Requirements

In addition to Institutional Learning Outcomes, standards have been established for Student Learning Outcomes in General Education Courses in the following categories: Arts and Letters, Cultural Literacy, Mathematics, Science or Computer Science, Social Science, Speech and Oral Communication, Writing, and Information Literacy. Coursework in each of these areas supports student achievement of these outcomes. TBCC evaluates student achievement of course learning outcomes on a regular basis, and this information is used for continuous improvement in instruction and student services.

Arts & Letters

As a result of taking General Education Arts & Letters* courses, a student should be able to:

- Interpret and engage in the Arts & Letters, making use of the creative process to enrich the quality of life; and
- Critically analyze values and ethics within a range of human experience and expression to engage more fully in local and global issues.
- *“Arts & Letters” refers to works of art, whether written, crafted, designed, or performed and documents of historical or cultural significance.

Cultural Literacy

Cultural Literacy outcomes will be included in courses that meet the outcomes and criteria of an AAOT Discipline Studies requirement.

As a result of taking a designated Cultural Literacy course, a student should be able to:

- Identify and analyze complex practices, values, and beliefs and the culturally and historically defined meanings of difference.

Mathematics

As a result of taking General Education Mathematics courses, a student should be able to:

- Use appropriate mathematics to solve problems: Recognize which mathematical concepts are applicable to a scenario, apply appropriate mathematics and technology in its analysis, and then accurately interpret, validate, and communicate the results.
- Use logical reasoning to make connections between various mathematical concepts and representations.

Science or Computer Science

As a result of taking General Education Science or Computer Science courses, a student should be able to:

- Gather, comprehend, and communicate scientific and technical information in order to explore ideas, models, and solutions and generate further questions;

- Apply scientific and technical modes of inquiry, individually, and collaboratively, to critically evaluate existing or alternative explanations, solve problems, and make evidence-based decisions in an ethical manner; and
- Assess the strengths and weaknesses of scientific studies and critically examine the influence of scientific and technical knowledge on human society and the environment.

Social Science

As a result of taking General Education Social Science courses, a student should be able to:

- Apply analytical skills to social phenomena in order to understand human behavior; and
- Apply knowledge and experience to foster personal growth and better appreciate the diverse social world in which we live.

Speech/Oral Communication

As a result of taking General Education Speech/Oral Communication courses, a student should be able to:

- Engage in ethical communication processes that accomplish goals;
- Respond to the needs of diverse audiences and contexts; and
- Build and manage relationships.

Writing

As a result of completing the General Education Writing sequence, a student should be able to:

- Read actively, think critically, and write purposefully and capable for academic and, in some cases, professional audiences;
- Locate, evaluate, and ethically utilize information to communicate effectively; and
- Demonstrate appropriate reasoning in response to complex issues.

Information Literacy

Information Literacy outcomes and criteria will be embedded in the Writing Foundational Requirements courses.

As a result of taking General Education Writing courses infused with Information Literacy, a student who successfully completes should be able to:

- Formulate a problem statement;
- Determine the nature and extent of the information needed to address the problem;
- Access relevant information effectively and efficiently;
- Evaluate information and its source critically; and
- Understand many of the economic, legal, and social issues surrounding the use of information

Foundational Requirements

Course Code	Title	Credits
	MTH 105Z or Other College-Level MTH Course	4
	WR 121Z and WR 122 or WR 227	8
	Sub-Total Credits	**12**

MTH and WR courses must be passed with a “C” or better.

General Education Requirements

At Least 16 Credits

With at least 1 course in each: Arts & Letters, Social Science and Math/Science/Computer Science

Arts and Letters

At Least 6 Credits

Course Code	Title	Credits
COMM 111Z	Public Speaking	4
	Sub-Total Credits	**6**

Social Science

At Least 6 Credits

	Sub-Total Credits	**6**

Math, Science, Computer Science

At Least 8 Credits

	Sub-Total Credits	**8**

Required Degree Electives

Maximum of 6 Physical Education credits may be applied

	Total Credits	**32**

Degree Map

TBCC guarantees, at a minimum, the following courses each quarter for the completion of the Associate of General Science. A student can transfer in or take other courses that meet the requirements though this is discouraged.

Year 1

Fall Term

Course Code	Title	Credits
CG 100	College Survival and Success	3
WR 121Z	Composition I	4
	MTH 111Z, MTH 105Z, or STAT 243Z	4
	PSY 101 or BA 285	3-4
	Sub-Total Credits	**14-15**

Winter Term

Course Code	Title	Credits
	WR 122Z or WR 227Z	4
ENG 254	Survey of American Literature II	4
HST 202	US History 1840-1914	4
COMM 111Z	Public Speaking	4
	Sub-Total Credits	**16**

Spring Term

Course Code	Title	Credits
	ENG 106Z or MUS 205	4
SOC 206Z	Social Problems	4
HST 203	US History 1914 to Present	4
	BI 100 or FOR 241	3-4
	Sub-Total Credits	**15-16**

Year 2

Fall Term

Course Code	Title	Credits
	BI 101 or G 201	4
CS 160	Introduction to Computer Science	4
	ENG 250 or MUS 108	3-4
	Electives	4
	Sub-Total Credits	**15-16**

OTM Completed!

Winter Term

Course Code	Title	Credits
	Electives	7-8
	Electives	8
	Sub-Total Credits	**15-16**

Spring Term

Course Code	Title	Credits
	Electives	7-8
	Electives	7-8
	Sub-Total Credits	**14-16**

Apply for graduation- AGS AWARDED

WR 121Z, MTH 111Z, MTH 105Z, STAT 243Z, WR 122Z, HST 202, COMM 111Z, SOC 206, BI 100, FOR 241, BI 101, G 201, ENG 250, MUS 108: We recommend adding these additional courses in order to also complete the Oregon Transfer Module (OTM)

Program Notes

TBCC mathematics requirements have changed as of fall 2016. Students with mathematics completion prior to fall 2016 should consult a TBCC Advisor for information on fulfilling this requirement.

All AGS Degree Requirements and General Education courses must carry a minimum of three (3) credits. A course may count toward a degree requirement or General Education requirement, but not both.

Industrial Maintenance Technology Program

Structural Maintenance and Construction

Credential Type
Certificate

This program is designed to meet the needs of Millwrights and Maintenance Technicians who are engaged in building and adapting plant facilities. The focus is on construction and infrastructure maintenance. Companies are relying more on maintenance staff to make minor repairs and build enclosures for expansion projects. This work requires training in construction, blueprint reading, and metal/wood fabrication. The program prepares completers for work in structural maintenance and construction fields including Facilities Maintenance and Repair.

Program Learning Outcomes

- Effectively layout and draw an enclosure
- Demonstrate safe operation of woodshop equipment
- Identify structural maintenance considerations in a building
- Create an accurate bill of materials (BOM)
- Understand basic structural design

Degree Map

TBCC guarantees, at a minimum, the following courses each quarter for the completion of the Structural Maintenance and Construction Certificate.

A student can transfer in or take other courses that meet the requirements.

Year 1

Fall Term

Course Code	Title	Credits
IMT 105	Industrial Safety/OSHA 10 (GeneralIndustry)	4
WLD 111	SMAW & Oxy-Acetylene Cutting	3
	Sub-Total Credits	**7**

Winter Term

Course Code	Title	Credits
IMT 229	Techniques of Preventative Maintenance	3
WLD 129	Blueprint Reading	4
	Sub-Total Credits	**7**

Spring Term

Course Code	Title	Credits
IMT 211	Structural Maintenance	3
IMT 140	Small Engine Repair	3
	Sub-Total Credits	**6**

Year 2

Fall Term

Course Code	Title	Credits
IMT 150	Advanced Woods TechnologyWoodtech II	3
ELT 110	Electricity for Non-Electricians	2
WLD 261	Fabrication I	4
	Sub-Total Credits	**9**

Winter Term

Course Code	Title	Credits
IMT 151	Advanced Construction	4
IMT 108	Rigging, Lifting, and Safety Inspection	3
ELT 111	Electricity for Non-electricians II	2
	Sub-Total Credits	**9**

Spring Term

Course Code	Title	Credits
IMT 251	Advanced Construction IIConstruction Trades B	4
	Sub-Total Credits	**4**

IMT 140, IMT 150, IMT 151, IMT 251: Dual-Credit Only for Perkins POS

Machine Manufacturing Technology Program

Manufacturing and Industrial Technology

Credential Type
Associate of Applied Science

Skilled workers such as machine operators and maintenance technicians are in high demand in Oregon and across the United States. The Manufacturing and Industrial Technology program combines traditional skills like welding, machining, and fluid power while focusing on efficiency and process control. This field is hands- on and requires a knowledge of processes, the ability to trouble shoot, and a dedication to quality in workmanship. If you have an interest in a hands-on career and working with mechanical and industrial systems, then this program may be a good fit for you.

High school students can earn college credit for some courses. See your high school counselor to learn more.

All degree candidates must meet Comprehensive Requirements, and the AAS degree requirements.

The Associate of Applied Science in Manufacturing and Industrial Technology has five Career Pathway certificates. All courses earned toward certificates also count toward the degree.

Production Technician Career Pathway Certificate: 16 Credits

Students who successfully complete this certificate are prepared to sit for the certification exam through the Manufacturing Skills and Standards Council (MSSC).

Career Pathway Certificates

There are four career pathway certificates in Manufacturing Technician with specialization in:

- Welding
- Machining
- Millwright
- Electrical

Program Learning Outcomes

- Demonstrate the technical knowledge and skills necessary for industrial/manufacturing systems
- Communicate effectively, both orally and in writing, using language appropriate to industrial and manufacturing environments.
- Perform troubleshooting/problem solving processes as applied to industrial situations.
- Apply correct mathematical and scientific principles necessary to a mechanized production environment.
- Employ the principles of the customer-business relationship within a manufacturing environment.

Career Outlook
Career opportunities as maintenance technicians in electro-mechanical systems and automation are available in Tillamook and across Oregon.

Core Competency Requirements

Course Code	Title	Credits
CG 100	College Survival and Success	3
MTH 105Z	Math in Society	4
COMM 111Z	Public Speaking	4
WR 121Z	Composition I	4
	PSY 101 or BA 285	3-4
	Sub-Total Credits	**18-19**

MIT Core Requirements

Course Code	Title	Credits
DRF 270	3-D Modeling	3
ELT 110	Electricity for Non-Electricians	2
ELT 111	Electricity for Non-electricians II	2
ELT 127	Basic Programmable Controllers - PCBased	2
ELT 128	Intermediate Programmable Controllers - PC Based	2
ELT 201	Electrical Motor Control	2
ELT 227	Advanced Programmable Controllers - PC Based	2
GT 106	Introduction to Green Technologies	3
IMT 100	Introduction to Trades	3
IMT 105	Industrial Safety/OSHA 10 (GeneralIndustry)	4
IMT 108	Rigging, Lifting, and Safety Inspection	3

IMT 109	Hydraulics I	3
IMT 118	Bearings, Seals and Lubrication	3
IMT 205	Introduction to Pneumatics	3
IMT 211	Structural Maintenance	3
IMT 210	Hydraulics III	3
IMT 222	Lean Manufacturing and Process Control	3
IMT 229	Techniques of Preventative Maintenance	3
IMT 280	Cooperative Education	3
MCH 102	Introduction to Manufacturing	3
MCH 134	Machining I	3
MCH 234	Machining II	3
WLD 129	Blueprint Reading	4
WLD 111	SMAW & Oxy-Acetylene Cutting	3
WLD 112	SMAW II	3
IMT 200	Hydraulics II	3
IMT 170	Industry Logistics	3
IMT 140	Small Engine Repair	3
IMT 150	Advanced Woods TechnologyWoodtech II	3
IMT 151	Advanced Construction	4
IMT 251	Advanced Construction IIConstruction Trades B	4
	Sub-Total Credits	**91**

IMT 140, IMT 150, IMT 151, IMT 251: Structural Maintenance and Construction Dual Credit Pathway for the Perkins POS. Sub for IMT 105, IMT 200, IMT 204, IMT 220

	Total Credits	**109-110**

Degree Map

TBCC guarantees, at a minimum, the following courses each quarter for the completion of the Associate of Applied Science - Manufacturing & Industrial Technology. A student can transfer in or take other courses that meet the requirements.

Year 1 or 2 (Rotates)

Fall Term

Course Code	Title	Credits
CG 100	College Survival and Success	3
IMT 100	Introduction to Trades	3
	AG 221 or WLD 111	3
	MCH 102 or IMT 105	3-4
MTH 105Z	Math in Society	4
	Sub-Total Credits	**16-17**

Both MCH 102 and IMT 105 are required to graduate

Winter Term

Course Code	Title	Credits
IMT 229	Techniques of Preventative Maintenance	3
WLD 112	SMAW II	3
WLD 129	Blueprint Reading	4
DRF 270	3-D Modeling	3
	Sub-Total Credits	**13**

Spring Term

Course Code	Title	Credits
WR 121Z	Composition I	4
	PSY 101 or BA 285	3-4
IMT 211	Structural Maintenance	3
COMM 111Z	Public Speaking	4
IMT 170	Industry Logistics	3
	Sub-Total Credits	**17-18**

Year 1 or 2 (Rotates)

Fall Term

Course Code	Title	Credits
	MCH 102 or IMT 105	3-4
IMT 205	Introduction to Pneumatics	3
MCH 134	Machining I	3

ELT 127	Basic Programmable Controllers - PCBased	2
ELT 110	Electricity for Non-Electricians	2
IMT 109	Hydraulics I	3
	Sub-Total Credits	**16-17**

Both MCH 102 and IMT 105 are required to graduate

Winter Term

Course Code	Title	Credits
IMT 222	Lean Manufacturing and Process Control	3
IMT 108	Rigging, Lifting, and Safety Inspection	3
MCH 234	Machining II	3
ELT 128	Intermediate Programmable Controllers - PC Based	2
ELT 111	Electricity for Non-electricians II	2
IMT 200	Hydraulics II	3
	Sub-Total Credits	**16**

Spring Term

Course Code	Title	Credits
IMT 118	Bearings, Seals and Lubrication	3
ELT 201	Electrical Motor Control	2
GT 106	Introduction to Green Technologies	3
ELT 227	Advanced Programmable Controllers - PC Based	2
IMT 280	Cooperative Education	3
IMT 210	Hydraulics III	3
	Sub-Total Credits	**16**

Program Notes

MTH and WR courses must be passed with a “C” or better.

Maximum of 24 credits of “P” credit allowed for an AAS degree.

Certified Production Technician

Credential Type
Certificate

This is a national Industry Recognized Credential (IRC) called the Manufacturing Skill Standards Certification (MSSC). Individuals who complete the program will be prepared to sit for the exams in the following key skill areas that are applicable to all manufacturing sectors. Students have the ability to certify in the following areas:

- SAFETY
- QUALITY PRACTICES AND MEASUREMENT
- MANUFACTURING PROCESSES AND PRODUCTION
- MAINTENANCE AWARENESS

Program Learning Outcomes

- Apply OSHA certified practices as well as Red Cross safety and first aid procedures to ensure a safe working environment.
- Apply principles of lean manufacturing, manufacturing processes, practices, and measurement.
- Recognize situations with equipment indicating that analysis and repairs are needed to maintain a safe and functional work environment.

	Total Credits	**13**

Degree Map

TBCC guarantees, at a minimum, the following courses each quarter for the completion of the Certified Production Technician certificate.

A student can transfer in or take other courses that meet the requirements.

Year 1

Fall Term

Course Code	Title	Credits
IMT 105	Industrial Safety/OSHA 10 (GeneralIndustry)	4
	Sub-Total Credits	**4**

Winter Term

Course Code	Title	Credits
IMT 229	Techniques of Preventative Maintenance	3
	Sub-Total Credits	**3**

Year 2

Fall Term

Course Code	Title	Credits
MCH 102	Introduction to Manufacturing	3
	Sub-Total Credits	**3**

Winter Term

Course Code	Title	Credits
IMT 222	Lean Manufacturing and Process Control	3
	Sub-Total Credits	**3**

Manufacturing Technician-Electrical

Credential Type
Certificate

Skilled workers such as machine operators and maintenance technicians are in high demand in Oregon and across the United States. The Manufacturing and Industrial Technology program combines traditional skills like welding, machining, and fluid power while focusing on efficiency and process control. This field is hands- on and requires a knowledge of processes, the ability to trouble shoot, and a dedication to quality in workmanship. If you have an interest in a hands-on career and working with mechanical and industrial systems, then this program may be a good fit for you.

High school students can earn college credit for some courses. See your high school counselor to learn more.

This one of four career pathways certificates for Manufacturing Technician. All four certificates share a core body of coursework, with the ability to take 2-3 courses to focus in the following areas. Students can complete one or more of these certificates. These certificates will allow students to continue on to the one-year certificate or on to the AAS degree. Students can also decide to pursue an Apprenticeship program.

- Machining
- Electrical
- Millwright
- Welding

Program Learning Outcomes

- Apply knowledge of programmable controllers (PC Based) to manufacturing and industrial processes.
- Apply OSHA certified practices as well as Red Cross safety and first aid procedures to ensure a safe working environment.
- Apply scientific and mathematical concepts as well as technological applications in the improvement of work processes, manufacturing and industrial maintenance processes, and product improvement.

Career Outlook
Career opportunities as maintenance technicians in electro-mechanical systems and automation are available in Tillamook and across Oregon.

	Total Credits	**30**

Degree Map

TBCC guarantees, at a minimum, the following courses each quarter for the completion of the Associate of Science Degree. A student can transfer in or take other courses that meet the requirements.

Year 1

Fall Term

Course Code	Title	Credits
IMT 105	Industrial Safety/OSHA 10 (GeneralIndustry)	4
IMT 100	Introduction to Trades	3
	Sub-Total Credits	**7**

Winter Term

Course Code	Title	Credits
IMT 229	Techniques of Preventative Maintenance	3
WLD 129	Blueprint Reading	4
	Sub-Total Credits	**7**

Year 2

Fall Term

Course Code	Title	Credits
MCH 102	Introduction to Manufacturing	3
ELT 110	Electricity for Non-Electricians	2
ELT 127	Basic Programmable Controllers - PCBased	2
	Sub-Total Credits	**7**

Winter Term

Course Code	Title	Credits
IMT 222	Lean Manufacturing and Process Control	3
ELT 111	Electricity for Non-electricians II	2

ELT 128	Intermediate Programmable Controllers - PC Based	2
	Sub-Total Credits	**7**

Spring Term

Course Code	Title	Credits
ELT 227	Advanced Programmable Controllers - PC Based	2
	Sub-Total Credits	**2**

Manufacturing Technician-Machining

Credential Type
Certificate

Skilled workers such as machine operators and maintenance technicians are in high demand in Oregon and across the United States. The Manufacturing and Industrial Technology program combines traditional skills like welding, machining, and fluid power while focusing on efficiency and process control. This field is hands- on and requires a knowledge of processes, the ability to trouble shoot, and a dedication to quality in workmanship. If you have an interest in a hands-on career and working with mechanical and industrial systems, then this program may be a good fit for you.

High school students can earn college credit for some courses. See your high school counselor to learn more.

Program Description: This one of four career pathways certificates for Manufacturing Technician. All four certificates share a core body of coursework, with the ability to take 2-3 courses to focus in the following areas. Students can complete one or more of these certificates. These certificates will allow students to continue on to the one-year certificate or on to the AAS degree. Students can also decide to pursue an Apprenticeship program.

- Machining
- Electrical
- Millwright
- Welding

Program Learning Outcomes

- Integrate scientific and mathematical concepts in diagnosis and repair of industrial equipment.
- Use blueprints and techniques of SMAW to make repairs and build equipment in manufacturing and industrial settings.
- Use concepts of the scientific and mathematical method in applications related to manufacturing processes.

Career Outlook
Career opportunities as maintenance technicians in electro-mechanical systems and automation are available in Tillamook and across Oregon.

	Total Credits	**29**

Degree Map

TBCC guarantees, at a minimum, the following courses each quarter for the completion of the Associate of Science Degree. A student can transfer in or take other courses that meet the requirements.

Year 1

Fall Term

Course Code	Title	Credits
IMT 105	Industrial Safety/OSHA 10 (GeneralIndustry)	4
IMT 100	Introduction to Trades	3
	Sub-Total Credits	**7**

Winter Term

Course Code	Title	Credits
IMT 229	Techniques of Preventative Maintenance	3
WLD 129	Blueprint Reading	4
	Sub-Total Credits	**7**

Year 2

Fall Term

Course Code	Title	Credits
MCH 102	Introduction to Manufacturing	3
MCH 134	Machining I	3
	Sub-Total Credits	**6**

Winter Term

Course Code	Title	Credits
IMT 222	Lean Manufacturing and Process Control	3
MCH 234	Machining II	3
DRF 270	3-D Modeling	3
	Sub-Total Credits	**9**

Manufacturing Technician-Millwright

Credential Type
Certificate

Skilled workers such as machine operators and maintenance technicians are in high demand in Oregon and across the United States. The Manufacturing and Industrial Technology program combines traditional skills like welding, machining, and fluid power while focusing on efficiency and process control. This field is hands- on and requires a knowledge of processes, the ability to trouble shoot, and a dedication to quality in workmanship. If you have an interest in a hands-on career and working with mechanical and industrial systems, then this program may be a good fit for you.

High school students can earn college credit for some courses. See your high school counselor to learn more.

Program Description: This one of four career pathways certificates for Manufacturing Technician. All four certificates share a core body of coursework, with the ability to take 2-3 courses to focus in the following areas. Students can complete one or more of these certificates. These certificates will allow students to continue on to the one-year certificate or on to the AAS degree. Students can also decide to pursue an Apprenticeship program.

- Machining
- Electrical
- Millwright
- Welding

Program Learning Outcomes

- Apply OSHA certified practices as well as Red Cross safety and first aid procedures to ensure a safe working environment.
- Apply scientific and mathematical concepts as well as technological applications in the improvement of work processes, manufacturing and industrial maintenance processes, and product improvement.
- Use concepts of the scientific and mathematical method in applications of rigging and hydraulics commonly used in manufacturing processes.

Career Outlook
Career opportunities as maintenance technicians in electro-mechanical systems and automation are available in Tillamook and across Oregon.

	Total Credits	**35**

Degree Map

TBCC guarantees, at a minimum, the following courses each quarter for the completion of the Associate of Science Degree. A student can transfer in or take other courses that meet the requirements.

Year 1

Fall Term

Course Code	Title	Credits
IMT 105	Industrial Safety/OSHA 10 (GeneralIndustry)	4
IMT 100	Introduction to Trades	3
	Sub-Total Credits	**7**

Winter Term

Course Code	Title	Credits
IMT 229	Techniques of Preventative Maintenance	3
WLD 129	Blueprint Reading	4
	Sub-Total Credits	**7**

Year 2

Fall Term

Course Code	Title	Credits
MCH 102	Introduction to Manufacturing	3
IMT 109	Hydraulics I	3
IMT 205	Introduction to Pneumatics	3
	Sub-Total Credits	**9**

Winter Term

Course Code	Title	Credits
IMT 222	Lean Manufacturing and Process Control	3
IMT 200	Hydraulics II	3
IMT 108	Rigging, Lifting, and Safety Inspection	3

	Sub-Total Credits	**9**

Spring Term

Course Code	Title	Credits
IMT 210	Hydraulics III	3
	Sub-Total Credits	**3**

Manufacturing Technician-Welding

Credential Type
Certificate

Skilled workers such as machine operators and maintenance technicians are in high demand in Oregon and across the United States. The Manufacturing and Industrial Technology program combines traditional skills like welding, machining, and fluid power while focusing on efficiency and process control. This field is hands- on and requires a knowledge of processes, the ability to trouble shoot, and a dedication to quality in workmanship. If you have an interest in a hands-on career and working with mechanical and industrial systems, then this program may be a good fit for you.

High school students can earn college credit for some courses. See your high school counselor to learn more.

This is one of four career pathways certificates for Manufacturing Technician. All four certificates share a core body of coursework, with the ability to take 2-3 courses to focus in the following areas. Students can complete one or more of these certificates. These certificates will allow students to continue on to the one-year certificate or on to the AAS degree. Students can also decide to pursue an Apprenticeship program.

- Machining
- Electrical
- Millwright
- Welding

Program Learning Outcomes

- Apply OSHA certified practices as well as Red Cross safety and first aid procedures to ensure a safe working environment.
- Apply the principles of lean manufacturing processes.
- Use blueprints and techniques of SMAW and SMAW Oxy-acetylene to make repairs and build equipment in manufacturing and industrial settings.
- Use concepts of the scientific and mathematical method in applications related to manufacturing processes.

Career Outlook
Career opportunities as maintenance technicians in electro-mechanical systems and automation are available in Tillamook and across Oregon.

	Total Credits	**29**

Degree Map

TBCC guarantees, at a minimum, the following courses each quarter for the completion of the Associate of Science Degree. A student can transfer in or take other courses that meet the requirements.

Year 1

Fall Term

Course Code	Title	Credits
IMT 105	Industrial Safety/OSHA 10 (GeneralIndustry)	4
IMT 100	Introduction to Trades	3
WLD 111	SMAW & Oxy-Acetylene Cutting	3
	Sub-Total Credits	**10**

Winter Term

Course Code	Title	Credits
IMT 229	Techniques of Preventative Maintenance	3
WLD 129	Blueprint Reading	4
WLD 112	SMAW II	3
	Sub-Total Credits	**10**

Spring Term

Course Code	Title	Credits
WLD 113	SMAW III	3
	Sub-Total Credits	**3**

Year 2

Fall Term

Course Code	Title	Credits
MCH 102	Introduction to Manufacturing	3
	Sub-Total Credits	**3**

Winter Term

Course Code	Title	Credits
IMT 222	Lean Manufacturing and Process Control	3
IMT 108	Rigging, Lifting, and Safety Inspection	3
	Sub-Total Credits	**6**

Natural Resources Program

Natural Resources

Credential Type
Associate of Science

Have you considered spending your career outdoors or in a work environment that focuses on the natural environment around us? Your future career could include occupations such as a riparian/watershed specialist, recreation manager, forest/wildlife ecologist, or a wildland law enforcement officer. The Associate of Science in Natural Resources prepares students to complete the preliminary education needed for these professions.

Upon completion of this degree, students should have completed all necessary prerequisite requirements to transfer to Oregon State University to complete a Bachelor's degree in Natural Resources.

The Natural Resources bachelor's degree has twelve different specialty options. Some of those options include conservation law enforcement, fish and wildlife conservation, policy and management, and wildland fire ecology. It is important that students talk with an advisor regarding their specialty option so they take the appropriate classes before transferring.

For additional information about this degree, please contact the OSU Open Campus Education Coordinator/TBCC Agriculture, Natural Resources, and Forestry Coordinator at 503-842-8222 ext. 1870.

Program Learning Outcomes

- Describe ecological processes, including human impacts that influence ecosystem change, natural succession, and the future sustainability of natural resources.
- Characterize natural resources and be able to quantify at least one of these resources.
- Envision desired future conditions in an area to achieve a set of natural resource-related objectives.
- Work effectively with, and within, interdisciplinary and diverse groups to resolve management problems and achieve management objectives.
- Meets general education outcomes.

Career Outlook
For students who want to enter the workforce after completing the AS in Natural Resources, there are some entry-level jobs available within the Tillamook community. One common employment option is becoming a technician with local private, state, and federal agencies.

Foundational Requirements

Course Code	Title	Credits
MTH 111Z	Precalculus I: Functions	4
WR 121Z	Composition I	4
WR 227Z	Technical Writing	4
	HE 295 and PE 295	3
	Sub-Total Credits	**15**

General Education

Arts and Letters

9 Credits Required Total

Course Code	Title	Credits
	COMM 111Z or COMM 218Z	4
	ENG 260, ENG 254, or ENG 250	4
	Sub-Total Credits	**8**

Social Science

9 Credits Required

Course Code	Title	Credits
EC 201Z	Principles of Microeconomics	4
	GEO 106 ore REL 101	4
	Sub-Total Credits	**8**

Science, Math, Computer Science

8-10 Credits Required/1 Lab

Course Code	Title	Credits
CH 221Z	General Chemistry I	4
	MTH 112Z or MTH 241	4
	Sub-Total Credits	**8**

Required Degree Electives

Course Code	Title	Credits
BI 221Z	Principles of Biology: Cells	5
BI 222Z	Principles of Biology: Organisms	5
BI 223Z	Principles of Biology: Ecology andEvolution	5
CG 100	College Survival and Success	3
FOR 111	Introduction to Forestry	3
FOR 240	Forest Biology	4
FOR 241	Dendrology	3
FOR 251	Recreation Resource Management	4
FW 251	Principles of Fish and Wildlife Conservation	3
GEO 265	Introduction to GIS	3
STAT 243Z	Elementary Statistics I	4
NAT 201	Managing Natural Resources for theFuture	3
	PHL 202, HST 201, HST 202, or HST 203	4
	SOIL 205 or G 201	4
	Sub-Total Credits	**53**

	Total Credits	**92**

Degree Map

TBCC guarantees, at a minimum, the following courses each quarter for the completion of the Associate of Science in Natural Resources.

Year 1

Fall Term

Course Code	Title	Credits
FOR 111	Introduction to Forestry	3
CG 100	College Survival and Success	3
BI 221Z	Principles of Biology: Cells	5
WR 121Z	Composition I	4
	Sub-Total Credits	**15**

Winter Term

Course Code	Title	Credits
GEO 265	Introduction to GIS	3
EC 201Z	Principles of Microeconomics	4
BI 222Z	Principles of Biology: Organisms	5
STAT 243Z	Elementary Statistics I	4
	Sub-Total Credits	**16**

Spring Term

Course Code	Title	Credits
FOR 241	Dendrology	3
	HE 295 and PE 295	3
BI 223Z	Principles of Biology: Ecology andEvolution	5
WR 227Z	Technical Writing	4
	Sub-Total Credits	**15**

Year 2

Fall Term

Course Code	Title	Credits
CH 221Z	General Chemistry I	4
CH 227Z	General Chemistry I Laboratory	1
FOR 240	Forest Biology	4
MTH 111Z	Precalculus I: Functions	4
	COMM 111Z or COMM 218Z	4
	Sub-Total Credits	**17**

Winter Term

Course Code	Title	Credits
FOR 251	Recreation Resource Management	4
FW 251	Principles of Fish and Wildlife Conservation	3
MTH 241	Calculus for Management, Life and Social Science	4

	Arts and Letters or Elective	4
	Sub-Total Credits	**15**

Spring Term

Course Code	Title	Credits
	SOIL 205 or G 201	4
NAT 201	Managing Natural Resources for theFuture	3
	Arts and Letters or Elective	4
	SOC 206, HST 202, or HST 203	4
	Sub-Total Credits	**15**

Program Notes

Note that in order for a student to successfully transfer to an Oregon public university, students must: 1) earn a grade of a “C -” or better in courses in the major; 2) take courses in the major for a grade—they will not be accepted as “pass/no pass”; and 3) earn a cumulative grade point average of 2.0. Students must also regularly meet with an advisor. Students are strongly encouraged to: 1) seek advising before registering for their first term of community college; 2) seek advising after they have completed the 27-35 credits of the Core Transfer Map; and 3) seek advising and meet with a transfer coordinator before registration opens at the beginning of the students second year in college. Students should also be aware that if they want to complete this Major Transfer Map in two years, they should take an average of 45 credits per year (average of 15 credits per quarter). Finally, to earn an associate degree, students will need to successfully complete at least 90 credits. NOTE: A Maximum of 12 credits can be Career Technical Education courses; A Maximum of 9 credits can be from courses labeled 199/299; A Maximum of 24 credits can be ESOL; A Maximum of 24 credits can be "P" grades; and, A Maximum of 21 credits can be from Credit for Prior Learning (CPL).

Nursing Program

Nursing

Credential Type
Associate of Applied Science

The Tillamook Bay Community College Associate of Applied Science in Nursing degree prepares students to take the NCLEX-RN licensure exam to become Registered Nurses. Acceptance to the TBCC AAS Nursing program is a full-time commitment of two (2) years of nursing courses (after completing prerequisite/preparatory course work of 49 credits minimum and successful admittance to the limited-entry program).

Program Learning Outcomes

- Learn to provide safe, patient-centered nursing care in a professional, evidence-based manner to populations
- Demonstrate the ability to practice as self-driven, motivated, independent, lifelong learners to maintain awareness of current, evidence-based, best-practices
- Demonstrate the ability to communicate effectively, respectfully, and professionally with all members in a healthcare team as well as with the population in which they provide nursing care

Career Outlook
Information regarding a career as a Registered Nurse can be found here.

Required Prerequisites

Course Code	Title	Credits
COMM 111Z	Public Speaking	4
	MTH 105 or Higher	4
WR 121Z	Composition I	4
WR 122Z	Composition II	4
PSY 201Z	Introduction to Psychology I	4
BI 231	Human Anatomy and Physiology I	4
BI 232	Human Anatomy and Physiology II	4
BI 233	Human Anatomy and Physiology III	4
BI 234	Microbiology	5
	NUTR 240 or FN 225	4
PSY 215	Human Development	4
AH 100	Medical Terminology	4
	Sub-Total Credits	**49**

COMM 111, MTH 105, WR 121, WR 122, PSY 201, BI 231: Credits included in AAS Degree requirements

Nursing Program Core

Year 1

Course Code	Title	Credits
NURS 101	Fundamentals of Nursing Practice	4
NURS 101C	Fundamentals of Nursing Practice: Application	
NURS 101D	Pathophysiology	-3
NURS 102	Introduction to Nursing Care in Non	3
NURS 102C	Introduction to Nursing Care in Non	-6
NURS 102D	Pharmacology	-3
NURS 103	Advanced Nursing Care in Non-AcuteSettings	4
NURS 103C	Advanced Nursing Care in Non-AcuteSettings: Application	-6
NURS 103N	NCLEX-RN Readiness I	
	Sub-Total Credits	**11**

Year 2

Course Code	Title	Credits
NURS 201	Introduction to Nursing Care in Acute Care Settings	4
NURS 201C	Introduction to Nursing Care in Acute Care Settings: Application	-6
NURS 201N	NCLEX-RN Readiness II	-3
NURS 202	Advanced Nursing Care in Acute Care Settings	4
NURS 202C	Advanced Nursing care in Acute Care Settings: Application	-6
NURS 202N	NCLEX-RN Readiness III	-3

NURS 203	Nursing Care of Specialized Populations	2
NURS 203C	Nursing Care of Specialized Populations: Application	-6
NURS 203D	Professionalism and Interprofessionalism Teams in Healthcare	
NURS 203N	NCLEX-RN Readiness IV	-4
	Sub-Total Credits	**10**

	Total Credits	**70**

Degree Map

Year 1

Fall Term

Course Code	Title	Credits
NURS 101	Fundamentals of Nursing Practice	4
NURS 101C	Fundamentals of Nursing Practice: Application	
NURS 101D	Pathophysiology	-3
	Sub-Total Credits	**4**

Winter Term

Course Code	Title	Credits
NURS 102	Introduction to Nursing Care in Non	3
NURS 102C	Introduction to Nursing Care in Non	-6
NURS 102D	Pharmacology	-3
	Sub-Total Credits	**3**

Spring Term

Course Code	Title	Credits
NURS 103	Advanced Nursing Care in Non-AcuteSettings	4
NURS 103C	Advanced Nursing Care in Non-AcuteSettings: Application	-6
NURS 103N	NCLEX-RN Readiness I	
	Sub-Total Credits	**4**

Year 2

Fall Term

Course Code	Title	Credits
NURS 201	Introduction to Nursing Care in Acute Care Settings	4
NURS 201C	Introduction to Nursing Care in Acute Care Settings: Application	-6
NURS 201N	NCLEX-RN Readiness II	-3
	Sub-Total Credits	**4**

Winter Term

Course Code	Title	Credits
NURS 202	Advanced Nursing Care in Acute Care Settings	4
NURS 202C	Advanced Nursing care in Acute Care Settings: Application	-6
NURS 202N	NCLEX-RN Readiness III	-3
	Sub-Total Credits	**4**

Spring Term

Course Code	Title	Credits
NURS 203	Nursing Care of Specialized Populations	2
NURS 203C	Nursing Care of Specialized Populations: Application	-6
NURS 203D	Professionalism and Interprofessionalism Teams in Healthcare	
NURS 203N	NCLEX-RN Readiness IV	-4
	Sub-Total Credits	**2**

Program Notes
TBCC mathematics requirements have changed as of fall 2019. Students with mathematics completion prior to fall 2019 should consult a TBCC Advisor for information on fulfilling this requirement.

Minimum degree requirements are 90 credits

Occupational Skills Training Program

Occupational Skills Training

Credential Type
Certificate

The Occupational Skills Training (OST) program is a one-year certificate program that provides a unique combination of academic learning and hands-on training in the students' field of choice to obtain gainful employment. Students earn up to 50% of their program credits through training at local business sites.

Customized learning goals for hands-on training are developed for each student by program faculty. These goals are chosen with care to ensure students' preparation for entry-level employment in the specific occupation of choice. Student progress will be evaluated by TBCC faculty with input from training site supervisors. Required academic coursework includes general education courses to increase knowledge of basic skills common to all work environments. Students are required to take elective coursework related to their chosen occupational goals. Credits earned in this program may be applied to the Associate of General Studies degree. The OST program by itself is not financial aid eligible.

Associated program: Associate of General Studies

Program Learning Outcomes

- Students will complete hands-on training in the field exhibiting skills needed for gainful employment.
- Students will identify and complete an academic program of study relevant to their individual career aspirations.

Career Outlook
Almost any occupation can be addressed provided the following conditions are met;

- There are jobs available in the chosen field that lead to gainful employment at a living wage.
- There is an appropriate training site available in the community.
- The occupational goal is appropriate to the program length of one year.
- There is no overlap with other TBCC programs of study.

	Total Credits	**44-47**

Degree Map

Year 1

Fall Term

Course Code	Title	Credits
CG 100	College Survival and Success	3
	WR 121Z or WR 227Z	4
	MTH 111Z, MTH 105Z, or STAT 243Z	4
CWE 280	CWE (for OST and related programs)	3-10
	Sub-Total Credits	**14-21**

CWE- 6 Credits (on job training)

Winter Term

Course Code	Title	Credits
	COMM 111Z or BA 205	4
	PSY 101 or BA 285	3-4
CWE 280	CWE (for OST and related programs)	3-10
	Sub-Total Credits	**10-18**

CWE- 6 Credits (on job training)

Spring Term

Course Code	Title	Credits
	Elective for Selected Career Plan	3-4
	Elective for Selected Career Plan	3-4
CWE 280	CWE (for OST and related programs)	3-10
	Sub-Total Credits	**9-18**

CWE- 8 Credits (on job training)

Occupational Therapy Assistant (AAS at LBCC)

Credential Type
Non-Degree

Tillamook Bay Community College has developed a partnership with Linn-Benton Community College and Adventist Health Tillamook to provide training for occupational therapy assistants in Tillamook County. This degree is granted by Linn-Benton Community College. TBCC offers program prerequisites, general education, and related coursework. All Occupational Therapy Assistant (OTA) courses are offered by Linn-Benton Community College and require admission to their program.

It is up to the student to research eligibility requirements in the state for which the student desires to practice.

Career Outlook
Occupational therapy assistants help people who have mental, physical, or developmental disabilities. Their goal is to help patients live more independently. Major employers include hospitals, nursing homes, schools, rehabilitation centers, and occupational therapists' offices.

The number of jobs for occupational therapy assistants nationwide is expected to grow much faster than the average through the year 2028. In Oregon, the average annual median wage in Oregon is $64,896.

This is a two-year associate degree program designed to prepare the student to function as an entry-level occupational therapy assistant (OTA). OTAs work under the supervision of occupational therapists to help clients develop, maintain, and/or regain health and function through the use of purposeful activity. They address physical, mental, and social components of activity as they work with clients to improve the underlying cause of impairment and/or to adapt activities for client success. This program follows a hybrid- delivery model in which the "classroom" portion is delivered online (to allow participation by students at remote sites) and the "laboratory" and "clinical" portions are delivered locally and at partner sites throughout Oregon. Graduates will be eligible and prepared to sit for the national certification examination. The total cost of the program is subject to change, but is estimated at $23,820.

LBCC's Occupational Therapy Assistant Program is accredited by the Accreditation Council for Occupational Therapy Education (ACOTE) of the American Occupational Therapy Association (AOTA), located at 4720 Montgomery Lane, P.O. Box 31220, Bethesda, MD 20824-1220. ACOTE's telephone number c/o AOTA is (301) 652-AOTA. Graduates of the program will be eligible to sit for the national certification examination for the occupational therapy assistant administered by the National Board for Certification in Occupational Therapy (NBCOT). After successful completion of this exam, the individual will be a Certified Occupational Therapy Assistant (COTA). In addition, most states require licensure in order to practice; however, state licenses are usually based on the results of the NBCOT Certification Examination. Note that a felony conviction may affect a graduate's ability to sit for the NBCOT certification examination or attain state licensure.

Admission Requirements
For application materials visit the Linn-Bennton Community College website; http://linnbenton.edu/current-students/advising/pre-healthcare.php

Welding Technology Program

Welding Technology

Credential Type
Associate of Applied Science

Welding Technology is an essential skill for industry along the Oregon Coast and includes skill sets that may be applicable to a variety of occupations. TBCC's The program follows American Welding Society's (AWS) quality guidelines, while utilizing math, 2-D CAD, and engineering to design and build projects for community partners. These applied learning opportunities provide essential experience for students entering the workforce. The program also offers a path to earn AWS Certification, which is a strong credential for those entering welding careers.

The program covers Shielded Metal Arc Welding (SMAW), Gas Metal Arc Welding (GMAW), Gas Tungsten Arc Welding (GTAW), Oxy-Acetylene, and Plasma Cutting. Students will be prepared to enter welding careers in Industrial Welding, Marine Welding, and Food Industry Welding. In addition, students will be prepared for welding related career fields such as Industrial Millwright, Structural Maintenance, and Agricultural Mechanic. At the end of the program, students will have the opportunity to achieve AWS Certification in a varying degree of welding modalities.

Program Learning Outcomes

- Demonstrate the technical knowledge and skills necessary for industrial/manufacturing systems
- Communicate effectively, both orally and in writing, using language appropriate to industrial and manufacturing environments.
- Perform troubleshooting/problem solving processes as applied to industrial situations.
- Apply correct mathematical and scientific principles necessary to a mechanized production environment.
- Employ the principles of the customer-business relationship within a manufacturing environment.

Core Competency Requirements

Course Code	Title	Credits
CG 100	College Survival and Success	3
MTH 105Z	Math in Society	4
COMM 111Z	Public Speaking	4
WR 121Z	Composition I	4
	PSY 101 or BA 285	3-4
	Sub-Total Credits	**18-19**

WLD Core Requirements

Course Code	Title	Credits
IMT 100	Introduction to Trades	3
IMT 105	Industrial Safety/OSHA 10 (GeneralIndustry)	4
IMT 108	Rigging, Lifting, and Safety Inspection	3
IMT 211	Structural Maintenance	3
IMT 222	Lean Manufacturing and Process Control	3
IMT 229	Techniques of Preventative Maintenance	3
MCH 102	Introduction to Manufacturing	3
MCH 134	Machining I	3
WLD 129	Blueprint Reading	4
WLD 111	SMAW & Oxy-Acetylene Cutting	3
AG 221	Metals and Welding	3
WLD 112	SMAW II	3
WLD 113	SMAW III	3
WLD 120	Welding Lab	2
WLD 170	GMAW I	3
WLD 171	GMAW II	3
WLD 172	GMAW III	3
WLD 201	GTAW I	3
WLD 202	GTAW II	3
WLD 203	GTAW III	3
WLD 261	Fabrication I	4
WLD 262	Fabrication II	4
WLD 280	Cooperative Education	3
	Sub-Total Credits	**72**

Optional CWE Course

Course Code	Title	Credits
WLD 275	Welding for Certification	4
	Sub-Total Credits	**4**

Instructor Approval Required

	Total Credits	**94-95**

Degree Map

TBCC guarantees, at a minimum, the following courses each quarter for the completion of the Associate of Applied Science - Welding Technology.

A student can transfer in or take other courses that meet the requirements.

Year 1 or 2 (Rotates)

Fall Term

Course Code	Title	Credits
CG 100	College Survival and Success	3
IMT 100	Introduction to Trades	3
	AG 221 or WLD 111	3
	MCH 102 or IMT 105	3-4
MTH 105Z	Math in Society	4
	Sub-Total Credits	**16-17**

Winter Term

Course Code	Title	Credits
IMT 229	Techniques of Preventative Maintenance	3
WLD 120	Welding Lab	2
WLD 112	SMAW II	3
WLD 129	Blueprint Reading	4
	PSY 101 or BA 285	3-4
	Sub-Total Credits	**15-16**

Spring Term

Course Code	Title	Credits
WLD 120	Welding Lab	2
WR 121Z	Composition I	4
WLD 113	SMAW III	3
COMM 111Z	Public Speaking	4
IMT 211	Structural Maintenance	3
	Sub-Total Credits	**16**

Year 1 or 2 (Rotates)

Fall Term

Course Code	Title	Credits
	MCH 102 or IMT 105	3-4
MCH 134	Machining I	3
WLD 201	GTAW I	3
WLD 170	GMAW I	3
WLD 261	Fabrication I	4
	Sub-Total Credits	**16-17**

Winter Term

Course Code	Title	Credits
IMT 222	Lean Manufacturing and Process Control	3
IMT 108	Rigging, Lifting, and Safety Inspection	3
WLD 202	GTAW II	3
WLD 171	GMAW II	3
WLD 120	Welding Lab	2
	Sub-Total Credits	**14**

Spring Term

Course Code	Title	Credits
WLD 262	Fabrication II	4
WLD 120	Welding Lab	2
WLD 203	GTAW III	3
WLD 172	GMAW III	3
	WLD 280 or WLD 275	3-4
	Sub-Total Credits	**15-16**

Program Notes

MTH and WR courses must be passed with a “C” or better.

Maximum of 3 credits of PE credit allowed for an AAS degree.

Maximum of 24 credits of “P” credit allowed for an AAS degree.

GMAW Technologies

Credential Type
Certificate

Students cannot always attend a two-year program to get the training they need to enter a high wage field. Additionally, many incumbent workers do not have a specific skill so they are looked over for promotions or lateral positions in other departments. The GMAW (Gas Metal Arc Welding) Certificate is a short term (17 credits) certificate providing directed instruction in a specific welding skill for a specific sector of the Manufacturing and Automotive Industry. GMAW welding is the most common type of welding used across all industries. Any automotive shop, fabrication facility, or maintenance shop uses wire welding daily.

- Demonstrate GMAW welding techniques in all four positions.
- Apply the principles of metallurgy to different welding applications.
- Demonstrate the ability to weld a part from a blueprint.
- Apply industry-specific safety practices in the welding lab.
- Demonstrate head distortion minimization techniques.

	Total Credits	**17**

Degree Map

TBCC guarantees, at a minimum, the following courses each quarter for the completion of the GMAW Technologies Certificate.

A student can transfer in or take other courses that meet the requirements.

Fall Term

Course Code	Title	Credits
WLD 170	GMAW I	3
	Sub-Total Credits	**3**

Winter Term

Course Code	Title	Credits
WLD 171	GMAW II	3
WLD 129	Blueprint Reading	4
WLD 120	Welding Lab	2
	Sub-Total Credits	**9**

Spring Term

Course Code	Title	Credits
WLD 172	GMAW III	3
WLD 120	Welding Lab	2
	Sub-Total Credits	**5**

GTAW Technologies

Credential Type
Certificate

This program is designed to train individuals in Gas Tungsten Arc Welding. This skill is used primarily in food production and dairy. Stainless steel can be used in direct contact with food. This certificate would allow an individual to gain the skills they need to work in the Manufacturing and Maintenance of food and dairy equipment or promote within a company with the added skill. Successful completion of this certificate begins a path towards becoming certified as a food-grade welder.

- Demonstrate GTAW welding techniques in all four positions.
- Apply the principles of metallurgy to different welding applications.
- Demonstrate the ability to weld a part from a blueprint.
- Apply industry-specific safety practices in the welding lab.
- Demonstrate head distortion minimization techniques.
- Demonstrate Argon Purging as a corrosion inhibitor.

	Total Credits	**17**

Degree Map

TBCC guarantees, at a minimum, the following courses each quarter for the completion of the GTAW Technologies Certificate.

A student can transfer in or take other courses that meet the requirements.

Fall Term

Course Code	Title	Credits
WLD 201	GTAW I	3
	Sub-Total Credits	**3**

Winter Term

Course Code	Title	Credits
WLD 202	GTAW II	3
WLD 129	Blueprint Reading	4
WLD 120	Welding Lab	2
	Sub-Total Credits	**9**

Spring Term

Course Code	Title	Credits
WLD 203	GTAW III	3
WLD 120	Welding Lab	2
	Sub-Total Credits	**5**

SMAW Technologies

Credential Type
Certificate

The SMAW (Shielded Metal Arc Welding) Certificate is a short-term certificate providing directed instruction in a specific welding skill for a specific sector of heavy industry. Heavy construction, primary forest products, road construction, and excavation all require this type of welding because of the high stress and pressure places on machines and equipment.

Program Learning Outcomes

- Demonstrate SMAW welding techniques in all four positions.
- Apply the principles of metallurgy to different welding applications.
- Demonstrate the ability to weld a part from a blueprint.
- Apply industry-specific safety practices in the welding lab.

	Total Credits	**17**

Degree Map

TBCC guarantees, at a minimum, the following courses each quarter for the completion of the SMAW Technologies Certificate.

A student can transfer in or take other courses that meet the requirements.

Fall Term

Course Code	Title	Credits
WLD 111	SMAW & Oxy-Acetylene Cutting	3
	Sub-Total Credits	**3**

Winter Term

Course Code	Title	Credits
WLD 112	SMAW II	3
WLD 129	Blueprint Reading	4
WLD 120	Welding Lab	2
	Sub-Total Credits	**9**

Spring Term

Course Code	Title	Credits
WLD 113	SMAW III	3
WLD 120	Welding Lab	2
	Sub-Total Credits	**5**

Welding Technology

Credential Type
Certificate

TBCC's 1 Year Welding CPC will prepare students for a career in welding and welding related fields. The program covers Shielded Metal Arc Welding (SMAW) and introduces Gas Tungsten Arc Welding (GTAW), Oxy-Acetylene, and Plasma Cutting. Students will be prepared to enter welding careers in Industrial Welding, Marine Welding, and Food Industry Welding. In addition, students will be prepared for welding related career fields such as Industrial Millwright, Structural Maintenance, and Agricultural Mechanic.

Program Learning Outcomes

- Demonstrate correct welding practices across disciplines.
- Fabricate a component using Welding and Machining
- Demonstrate the ability to weld a part from a blueprint.
- Apply industry-specific safety practices in the welding lab.

	Total Credits	**41**

Degree Map

TBCC guarantees, at a minimum, the following courses each quarter for the completion of the One Year Certificate: Welding.

A student can transfer in or take other courses that meet the requirements.

Year 1

Fall Term

Course Code	Title	Credits
WLD 111	SMAW & Oxy-Acetylene Cutting	3
WLD 170	GMAW I	3
	Sub-Total Credits	**6**

Winter Term

Course Code	Title	Credits
WLD 112	SMAW II	3
WLD 171	GMAW II	3
WLD 129	Blueprint Reading	4
	Sub-Total Credits	**10**

Spring Term

Course Code	Title	Credits
WLD 113	SMAW III	3
WLD 172	GMAW III	3
	Sub-Total Credits	**6**

Year 2

Fall Term

Course Code	Title	Credits
WLD 201	GTAW I	3
MCH 134	Machining I	3
WLD 261	Fabrication I	4
	Sub-Total Credits	**10**

Winter Term

Course Code	Title	Credits
WLD 202	GTAW II	3
IMT 108	Rigging, Lifting, and Safety Inspection	3
	Sub-Total Credits	**6**

Spring Term

Course Code	Title	Credits
WLD 203	GTAW III	3
	Sub-Total Credits	**3**

Courses

Agriculture Program

AG 101: Orientation to Agricultural Careers

This course provides an exploration ofcareer opportunities in agriculture and natural resources. Studentswill have the opportunity to become aware ofprofessional engagementopportunities within the fields and will begin developing an idea of what opportunities are available both on and off campus

Credits	**1**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**1**

AG101: Orientation to Agricultural Careers

This course provides an exploration ofcareer opportunities in agriculture and natural resources. Studentswill have the opportunity to become aware ofprofessional engagementopportunities within the fields and will begin developing an idea of what opportunities are available both on and off campus

Credits	**1**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**1**
Lec/Lab Hrs per Wk	**0**

AG 211: Survey and Construction

Land measurement and leveling as applied to agricultural uses. Concrete and agricultural building construction including the use of construction power tools, selection of materials and cost estimating. This course is intended to articulate with Oregon St

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**1**

AG211: Survey and Construction

Land measurement and leveling as applied to agricultural uses. Concrete and agricultural building construction including the use of construction power tools, selection of materials and cost estimating. This course is intended to articulate with Oregon St

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**1**
Lec/Lab Hrs per Wk	**4**

AG 221: Metals and Welding

Covers uses, safety, nomenclature, equipment operation, set-up and shutdown procedures and welding-related math and science for Shielded Metal Arc Welding and Oxy-acetylene Cutting. Additional supply fee may be required.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**2**
Prerequisites	**Recommended Placement: RDWR 115, MTH 105.**

Notes
This course is the equivalent of WLD 111

AG221: Metals and Welding

Covers uses, safety, nomenclature, equipment operation, set-up and shutdown procedures and welding-related math and science for Shielded Metal Arc Welding and Oxy-acetylene Cutting. Additional supply fee may be required.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**1**
Lec/Lab Hrs per Wk	**4**
Prerequisites	**Recommended Placement: RDWR 115, MTH 105.**

Notes
This course is the equivalent of WLD 111

Allied Health Program

AH 100: Medical Terminology

Explore and learn medical terminology through the teaching of each system. Body structure and function are explored through using and learning of medical terms. Systems exploredinclude:digestive, urinary, male and female reproductive, nervous, cardiovascular, respiratory, blood, lymphatic, musculoskeletal, skin, and endocrine.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**

AH100: Medical Terminology

Explore and learn medical terminology through the teaching of each system. Body structure and function are explored through using and learning of medical terms. Systems exploredinclude:digestive, urinary, male and female reproductive, nervous, cardiovascular, respiratory, blood, lymphatic, musculoskeletal, skin, and endocrine.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**

AH 101: Phlebotomy I

Introduces basic laboratory skills to collect and process high quality blood specimens for clinical laboratory analysis. Classroom instruction includes anatomy and physiology of the circulatory system, specimen collection, specimen processing and handling, and laboratory operations related to safety, quality, control, etc.Course includes a skills component to prepare students for clinical experience in Phlebotomy II.Requires currentHCPCPR card, criminal background check, drug screen, and immunizationsto be completed or verified during the course.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Prerequisites	**RDWR115/MTH 20 (or placement above these levels).**

AH101: Phlebotomy I

Introduces basic laboratory skills to collect and process high quality blood specimens for clinical laboratory analysis. Classroom instruction includes anatomy and physiology of the circulatory system, specimen collection, specimen processing and handling, and laboratory operations related to safety, quality, control, etc.Course includes a skills component to prepare students for clinical experience in Phlebotomy II.Requires currentHCPCPR card, criminal background check, drug screen, and immunizationsto be completed or verified during the course.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**RDWR115/MTH 20 (or placement above these levels).**

AH 102: Phlebotomy II

Clinical practicum that includes 100 clock hours of clinical training and orientation in a CLIA-regulated, accredited laboratory with a minimum performance of 100 successful unaided blood collections including venipunctures and skin punctures.

Credits	**3**
Lab Hrs per Wk	**9**
Lecture Hrs per Wk	**0**
Prerequisites	**AH 101**

AH102: Phlebotomy II

Clinical practicum that includes 100 clock hours of clinical training and orientation in a CLIA-regulated, accredited laboratory with a minimum performance of 100 successful unaided blood collections including venipunctures and skin punctures.

Credits	**3**
Lab Hrs per Wk	**10**
Lecture Hrs per Wk	**0**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**AH 101**

AH 110: Clinical Procedures I

Explore and learnwith hands on practice in this introduction to the Medical Assisting field. Learning about provider-patient relationships, professional communication, healthcare law, vital signs, patient prep, assisting a physician, diagnostic testing, and administering immunizations.

Credits	**5**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**
Prerequisites	**Acceptance into MA program Required.**

AH110: Clinical Procedures I

Explore and learnwith hands on practice in this introduction to the Medical Assisting field. Learning about provider-patient relationships, professional communication, healthcare law, vital signs, patient prep, assisting a physician, diagnostic testing, and administering immunizations.

Credits	**5**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**
Lec/Lab Hrs per Wk	**4**
Prerequisites	**Acceptance into MA program Required.**

AH 110C: Clinical and Administrative Procedures I, Clinical Practicum

Students will explore the health care setting and obtain hands on experience. They will have a checklist of skills in which their on-site supervisor will certify their knowledge level. Studentswill be immersedin a real-life patient environment, and will document their experience, while learning their future careers.

Credits	**2**
Corequisites	**AH 110**

AH110C: Clinical and Administrative Procedures I, Clinical Practicum

Students will explore the health care setting and obtain hands on experience. They will have a checklist of skills in which their on-site supervisor will certify their knowledge level. Studentswill be immersedin a real-life patient environment, and will document their experience, while learning their future careers.

Credits	**2**
Lab Hrs per Wk	**6**
Lecture Hrs per Wk	**0**
Lec/Lab Hrs per Wk	**0**
Corequisites	**AH 110**

AH 112: Clinical Procedures II

Continue to explore and learnwith hands on practice in this second course in the Medical Assisting Sequence. Focus will be on; drug calculations, phlebotomy, EKG, additional diagnostic testing, professionalism, proper documentation, office procedures, sterile procedures, and obtaining a patient history.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**2**
Prerequisites	**AH 110**
Corequisites	**AH 112C**

AH112: Clinical Procedures II

Continue to explore and learnwith hands on practice in this second course in the Medical Assisting Sequence. Focus will be on; drug calculations, phlebotomy, EKG, additional diagnostic testing, professionalism, proper documentation, office procedures, sterile procedures, and obtaining a patient history.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**2**
Lec/Lab Hrs per Wk	**4**
Prerequisites	**AH 110**
Corequisites	**AH 112C**

AH 112C: Clinical and Administrative Procedures II, Clinical Practicum

Students willcontinue toexplore the health care setting and obtain hands on experience. They will have a checklist of skills in which their on-site supervisor will certify their knowledge level. Studentswill be immersedin a real-life patient environment, and will document their experience, while learning their future careers.

Credits	**6**
Lab Hrs per Wk	**18**
Lecture Hrs per Wk	**0**
Corequisites	**AH 112**

AH112C: Clinical and Administrative Procedures II, Clinical Practicum

Students willcontinue toexplore the health care setting and obtain hands on experience. They will have a checklist of skills in which their on-site supervisor will certify their knowledge level. Studentswill be immersedin a real-life patient environment, and will document their experience, while learning their future careers.

Credits	**6**
Lab Hrs per Wk	**18**
Lecture Hrs per Wk	**0**
Lec/Lab Hrs per Wk	**0**
Corequisites	**AH 112**

AH 130: Today's Careers: Health

Exposes a wide range of occupations including educational and skill requirements. Covers ways of gathering information about specific occupations. Includes guest speakers from a variety of careersto further illustrate the realities of the world of work. Audit available.

Credits	**2**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**2**

AH130: Today's Careers: Health

Exposes a wide range of occupations including educational and skill requirements. Covers ways of gathering information about specific occupations. Includes guest speakers from a variety of careersto further illustrate the realities of the world of work. Audit available.

Credits	**2**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**2**
Lec/Lab Hrs per Wk	**0**

AH 140: Electronic Health Records and Administrative Skills

Students will focus on learning how to navigate the EHR, and be able to determine correct and incorrect documentation practices. Students will learn about the HITECH act, and HIPAA with a focus on security and privacy. Students will also learn other administrative skills required in the medical assisting field, including; receptionist duties, checking in patients, understanding/processing prior authorizations, processing referrals, billing/coding, charge capture forms, letter styles, verbal and non-verbal communication styles, and health history forms. Co-Req: Must be accepted/enrolled in MA program.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**2**
Corequisites	**AH110**

AH140: Electronic Health Records and Administrative Skills

Students will focus on learning how to navigate the EHR, and be able to determine correct and incorrect documentation practices. Students will learn about the HITECH act, and HIPAA with a focus on security and privacy. Students will also learn other administrative skills required in the medical assisting field, including; receptionist duties, checking in patients, understanding/processing prior authorizations, processing referrals, billing/coding, charge capture forms, letter styles, verbal and non-verbal communication styles, and health history forms. Co-Req: Must be accepted/enrolled in MA program.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**2**
Lec/Lab Hrs per Wk	**4**
Corequisites	**AH110**

AH 141: Body Systems Review for Medical Assistants

Students review body systems in the context of how it is applicable to working as a medical assistant, this includes structure and function of the human body in health and disease. Students will learn basic word structure to guide them in the study of medical language. In addition, a review of each body system will be conducted to include medical words, their components and basic structure and function as applicable to their future career as a medical assistant.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**2**

AH141: Body Systems Review for Medical Assistants

Students review body systems in the context of how it is applicable to working as a medical assistant, this includes structure and function of the human body in health and disease. Students will learn basic word structure to guide them in the study of medical language. In addition, a review of each body system will be conducted to include medical words, their components and basic structure and function as applicable to their future career as a medical assistant.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**2**
Lec/Lab Hrs per Wk	**2**

AH 150: Math for Health Professionals

Reviews basic arithmetic skills, including fractions, decimas, percent, ratios, and proportions. Introduces systems of measurement including the metric system and converting units. Covers conversion between the systems and calculations needed to determine dosages. Covers basic algebraic concepts, including fractional equations and formulas. Introduces multiple approaches to solving applied math problems. Discusses various advanced dosage calculations (oral, parenteral, IV), dispensing, and compounding calculations.

Credits	**2**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**2**

AH150: Math for Health Professionals

Reviews basic arithmetic skills, including fractions, decimas, percent, ratios, and proportions. Introduces systems of measurement including the metric system and converting units. Covers conversion between the systems and calculations needed to determine dosages. Covers basic algebraic concepts, including fractional equations and formulas. Introduces multiple approaches to solving applied math problems. Discusses various advanced dosage calculations (oral, parenteral, IV), dispensing, and compounding calculations.

Credits	**2**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**2**
Lec/Lab Hrs per Wk	**0**

AH 244: Global Health

An introduction to issues in international health and medicine, including transnational infectious disease, global health governance, comparative national health systems, chronic diseases and global nutrition, and international mental health.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Prerequisites	**WR 121**

Notes

This course is the equivalent of PS 244

AH244: Global Health

An introduction to issues in international health and medicine, including transnational infectious disease, global health governance, comparative national health systems, chronic diseases and global nutrition, and international mental health.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**WR 121**

Notes
This course is the equivalent of PS 244

American Sign Language Program

ASL 101: American Sign Language I

Emphasizes active communication in beginning American Sign Language. Includes listening, speaking, reading, writing, vocabulary, and structure. For beginners.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Prerequisites	**RDWR 115 equivalent or placement above this level.**

Notes
Audit available. Fulfills General Education requirements for Arts & Letters and foreign language requirements.

ASL101: American Sign Language I

Emphasizes active communication in beginning American Sign Language. Includes listening, speaking, reading, writing, vocabulary, and structure. For beginners.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**RDWR 115 equivalent or placement above this level.**

Notes
Audit available. Fulfills General Education requirements for Arts & Letters and foreign language requirements.

ASL 102: American Sign Language II

Continues the work of ASL 101. Emphasizes active communication in ASL. Includes intermediate skills in listening, speaking, reading, expression, vocabulary and structure. For intermediate students.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Prerequisites	**RDWR 115 equivalent or placement above this level, and ASL 101 or equivalent**

Notes
Audit available. Fulfills General Education requirements for Arts & Letters and foreign language requirements.

ASL102: American Sign Language II

Continues the work of ASL 101. Emphasizes active communication in ASL. Includes intermediate skills in listening, speaking, reading, expression, vocabulary and structure. For intermediate students.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**RDWR 115 equivalent or placement above this level, and ASL 101 or equivalent**

Notes
Audit available. Fulfills General Education requirements for Arts & Letters and foreign language requirements.

ASL 103: American Sign Language III

Continues the work of ASL 102. Emphasizes active communication in ASL. Includes advanced skills in listening, speaking, reading, expression, vocabulary and structure. Focuses on advanced ASL syntax, vocabulary, and message equivalency in simultaneous interpretations from English to ASL. Explore a range of specialized topics in ASL interpreting related to science, technology, engineering, and arts. For advanced students.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Prerequisites	**RDWR 115 equivalent or placement above this level, and ASL 102 or equivalent.**

Notes
Audit available. Fulfills General Education requirements for Arts & Letters and foreign language.

ASL103: American Sign Language III

Continues the work of ASL 102. Emphasizes active communication in ASL. Includes advanced skills in listening, speaking, reading, expression, vocabulary and structure. Focuses on advanced ASL syntax, vocabulary, and message equivalency in simultaneous interpretations from English to ASL. Explore a range of specialized topics in ASL interpreting related to science, technology, engineering, and arts. For advanced students.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**RDWR 115 equivalent or placement above this level, and ASL 102 or equivalent.**

Notes
Audit available. Fulfills General Education requirements for Arts & Letters and foreign language.

Animal Science Program

ANS 121: Introduction to Animal Science

This course includes the principles of breeding, physiology, nutrition, and management as they apply to modern livestock and poultry production.

Credits	**4**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**3**

ANS121: Introduction to Animal Science

This course includes the principles of breeding, physiology, nutrition, and management as they apply to modern livestock and poultry production.

Credits	**4**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**3**
Lec/Lab Hrs per Wk	**0**

ANS 122: Large Animal Handling and Welfare,Milk Quality, and Nutrition

This courseprovides technicians with the necessary skills and knowledge to work withcalves and cowsand knowbasic handling, nutrition, and milk quality standards.Students will get on-the-farm experience with three industry experts to learn more about each of the topics.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**

ANS122: Large Animal Handling and Welfare,Milk Quality, and Nutrition

This courseprovides technicians with the necessary skills and knowledge to work withcalves and cowsand knowbasic handling, nutrition, and milk quality standards.Students will get on-the-farm experience with three industry experts to learn more about each of the topics.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**
Lec/Lab Hrs per Wk	**0**

ANS 215: Beef/Dairy Industries

Introduction to beef and dairy industries; history, current industry status, and demonstration and practice of basic husbandry skills.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**
Prerequisites	**ANS 121**

ANS215: Beef/Dairy Industries

Introduction to beef and dairy industries; history, current industry status, and demonstration and practice of basic husbandry skills.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**ANS 121**

ANS 220: Introductory Horse Science

Provides a broad view equine science, including evolution, general health, behavior and nutrition, form to function, current industry information and general management.

Credits	**3**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**2**

ANS220: Introductory Horse Science

Provides a broad view equine science, including evolution, general health, behavior and nutrition, form to function, current industry information and general management.

Credits	**3**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**2**
Lec/Lab Hrs per Wk	**0**

ANS 230: Dairy Cattle Evaluation

Phenotypic evaluation of dairy cattle in relation to the productive life of the animals as well as efficiency and the economic impact on dairy producers. Labs consist of students spending time cow-side evaluating animals via knowledge gained from lectures. Cow anatomy will be mastered, value of type traits will be learned, differentiation of the dairy breeds will be understood, and oral presentation skills honed.

Credits	**3**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**2**

ANS230: Dairy Cattle Evaluation

Phenotypic evaluation of dairy cattle in relation to the productive life of the animals as well as efficiency and the economic impact on dairy producers. Labs consist of students spending time cow-side evaluating animals via knowledge gained from lectures. Cow anatomy will be mastered, value of type traits will be learned, differentiation of the dairy breeds will be understood, and oral presentation skills honed.

Credits	**3**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**2**
Lec/Lab Hrs per Wk	**0**

ANS 231: Livestock Evaluation

ANS 231 is a course that focuses on an individual animal's economic merit as compared to a sample group. Visual appraisal, performance data, and carcass merit are stressed. This course will include the evaluation of both market and breeding animals. The livestock species of concentration include: beef cattle, swine, sheep, and meat goats.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**

ANS231: Livestock Evaluation

ANS 231 is a course that focuses on an individual animal's economic merit as compared to a sample group. Visual appraisal, performance data, and carcass merit are stressed. This course will include the evaluation of both market and breeding animals. The livestock species of concentration include: beef cattle, swine, sheep, and meat goats.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**
Lec/Lab Hrs per Wk	**0**

Anthropology Program

ATH 103: Introduction to Cultural Anthropology

Considers contemporary human cultures from an anthropological perspective. Covers fieldwork, language, race, gender, sex and marriage, kinship, politics, world view, religion, economics, and globalization from a cross-cultural perspective.

Credits	**4**
Prerequisites	**RDWR 115 or higher or concurrent enrollment in WR 121 and WR 121 Q. Audit available.**

ATH103: Introduction to Cultural Anthropology

Considers contemporary human cultures from an anthropological perspective. Covers fieldwork, language, race, gender, sex and marriage, kinship, politics, world view, religion, economics, and globalization from a cross-cultural perspective.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**RDWR 115 or higher or concurrent enrollment in WR 121 and WR 121 Q. Audit available.**

Apprenticeship Program

APR 100: Build Your Future in Construction

This module will help you understand the state of the industry, the job opportunities that currently exist, and the training options that will lead you on a path to your new construction career. Construction is an exciting, well-paying industry that offers an abundance of career opportunities. With a growing need for individuals who are ready to learn while getting paid, it provides a great fit for people of all backgrounds, skills, and strengths. Carpenter, pipefitter, welder, electrician, and crane operator are just a few of the construction professions in high demand. BOLI introduces: High5 Teams: DevelopingCulturally Intelligent Communication. Thiscurriculum addresses the 21st Century, growing demographics within the labor and industry's working environments. This curriculum provides inclusive instruction designed to develop Cultural Intelligence (CQ) and effective communication skills, thereby, supporting inclusive, effective, and productive working teams.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**

APR100: Build Your Future in Construction

This module will help you understand the state of the industry, the job opportunities that currently exist, and the training options that will lead you on a path to your new construction career. Construction is an exciting, well-paying industry that offers an abundance of career opportunities. With a growing need for individuals who are ready to learn while getting paid, it provides a great fit for people of all backgrounds, skills, and strengths. Carpenter, pipefitter, welder, electrician, and crane operator are just a few of the construction professions in high demand. BOLI introduces: High5 Teams: DevelopingCulturally Intelligent Communication. Thiscurriculum addresses the 21st Century, growing demographics within the labor and industry's working environments. This curriculum provides inclusive instruction designed to develop Cultural Intelligence (CQ) and effective communication skills, thereby, supporting inclusive, effective, and productive working teams.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**
Lec/Lab Hrs per Wk	**0**

APR 105: Industrial Safety/Intro to the Trades

This module will help you understand the state of the industry, the job opportunities that currently exist, and the training options that will lead you on a path to your new construction career. Construction is an exciting, well-paying industry that offers an abundance of career opportunities. With a growing need for individuals who are ready to learn while getting paid, it provides a great fit for people of all backgrounds, skills, and strengths. Carpenter, pipefitter, welder, electrician, and crane operator are just a few of the construction professions in high demand. BOLI introduces: High5 Teams: DevelopingCulturally Intelligent Communication. Thiscurriculum addresses the 21st Century, growing demographics within the labor and industry's working environments. This curriculum provides inclusive instruction designed to develop Cultural Intelligence (CQ) and effective communication skills, thereby, supporting inclusive, effective, and productive working teams.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**

APR105: Industrial Safety/Intro to the Trades

This module will help you understand the state of the industry, the job opportunities that currently exist, and the training options that will lead you on a path to your new construction career. Construction is an exciting, well-paying industry that offers an abundance of career opportunities. With a growing need for individuals who are ready to learn while getting paid, it provides a great fit for people of all backgrounds, skills, and strengths. Carpenter, pipefitter, welder, electrician, and crane operator are just a few of the construction professions in high demand. BOLI introduces: High5 Teams: DevelopingCulturally Intelligent Communication. Thiscurriculum addresses the 21st Century, growing demographics within the labor and industry's working environments. This curriculum provides inclusive instruction designed to develop Cultural Intelligence (CQ) and effective communication skills, thereby, supporting inclusive, effective, and productive working teams.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**

APR 106: Hand Tool Safety

Develops understanding of the hand tools and power tools used in the industrial trades. Identifies commonly used hand/power tools, selecting the correct tool to complete assigned projects and working in a safe and competent manner. Emphasizing safety and care of tools.

Credits	**1**

APR106: Hand Tool Safety

Develops understanding of the hand tools and power tools used in the industrial trades. Identifies commonly used hand/power tools, selecting the correct tool to complete assigned projects and working in a safe and competent manner. Emphasizing safety and care of tools.

Credits	**1**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**1**
Lec/Lab Hrs per Wk	**0**

APR 108: Rigging

Provides instruction in fundamental rigging skills, including industrial knots, rigging calculations, rigging and hand signals, gear selection, overhead crane operation, and lift operation. Inspection, safety, and practical applications are stressed.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**2**

APR108: Rigging

Provides instruction in fundamental rigging skills, including industrial knots, rigging calculations, rigging and hand signals, gear selection, overhead crane operation, and lift operation. Inspection, safety, and practical applications are stressed.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**2**
Lec/Lab Hrs per Wk	**2**

APR 109: Industrial Hydraulics I

Examines the industrial applications of proportional hydraulics theory, application, troubleshooting, and repair of these advanced hydraulic applications. Additional supply fee may be required.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**2**
Prerequisites	**MTH020, IMT205, IMT205**

APR109: Industrial Hydraulics I

Examines the industrial applications of proportional hydraulics theory, application, troubleshooting, and repair of these advanced hydraulic applications. Additional supply fee may be required.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**2**
Lec/Lab Hrs per Wk	**2**
Prerequisites	**MTH020, IMT205, IMT205**

APR 111: Shielded Metal Arc Welding (E7024)& Oxy-acetylene Cutting

Covers uses, safety, nomenclature, equipment operation, set-up and shutdown procedures and welding-related math and science for Shielded Metal Arc Welding and Oxy-acetylene Cutting. Additional supply fee may be required.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**2**

Notes
This course is the equivalent of AG221 Metals and Welding

APR111: Shielded Metal Arc Welding (E7024)& Oxy-acetylene Cutting

Covers uses, safety, nomenclature, equipment operation, set-up and shutdown procedures and welding-related math and science for Shielded Metal Arc Welding and Oxy-acetylene Cutting. Additional supply fee may be required.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**0**
Lec/Lab Hrs per Wk	**8**

Notes
This course is the equivalent of AG221 Metals and Welding

APR 118: Bearings, Seals and Lubrication

Provides an introduction to bearings, seals, and lubrication types and techniques used in industry to develop skills in diagnosis, inspection and repair of moving parts. Additional supply fee may be required.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**2**

APR118: Bearings, Seals and Lubrication

Provides an introduction to bearings, seals, and lubrication types and techniques used in industry to develop skills in diagnosis, inspection and repair of moving parts. Additional supply fee may be required.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**1**
Lec/Lab Hrs per Wk	**4**

APR 121: Introduction to Electricity and Circuits

Introduction to Electricity and Circuits. Covers general atomic theory, electron flow in conductors, calculations using Ohm's Law when determining the values of voltage, current, resistance and power in series, parallel and combination electrical circuits. Covers sizing and the application of conductors and the concept of Voltage Drop in electrical circuits. Audit available.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**2**
Prerequisites	**Recommended APR 130**

APR121: Introduction to Electricity and Circuits

Introduction to Electricity and Circuits. Covers general atomic theory, electron flow in conductors, calculations using Ohm's Law when determining the values of voltage, current, resistance and power in series, parallel and combination electrical circuits. Covers sizing and the application of conductors and the concept of Voltage Drop in electrical circuits. Audit available.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**2**
Lec/Lab Hrs per Wk	**2**
Prerequisites	**Recommended APR 130**

APR 122: AC/DC Motor Principles

AC/DC Motors Principles covers the basic principles of alternating current, direct current, and electromagnetism as applied to generators, and alternating current and direct current motors, including the concepts of inductance, inductive reactance, capacitors, capacitive reactance, and their effects upon alternating current circuits.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**2**
Prerequisites	**APR 121. Recommended APR 130**

APR122: AC/DC Motor Principles

AC/DC Motors Principles covers the basic principles of alternating current, direct current, and electromagnetism as applied to generators, and alternating current and direct current motors, including the concepts of inductance, inductive reactance, capacitors, capacitive reactance, and their effects upon alternating current circuits.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**2**
Lec/Lab Hrs per Wk	**2**
Prerequisites	**APR 121. Recommended APR 130**

APR 123: AC Theory for Motors/Transformers

Focusesonalternatingcurrentpowerdistribution, transformers, motors, storagecells,solidstatesemiconductordevices,andDelta/ Wyethreephasemotorwindingconnectionsasapplied to the heavy industrial environment.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Prerequisites	**APR122**

Notes
Auditavailable.

APR123: AC Theory for Motors/Transformers

Focusesonalternatingcurrentpowerdistribution, transformers, motors, storagecells,solidstatesemiconductordevices,andDelta/ Wyethreephasemotorwindingconnectionsasapplied to the heavy industrial environment.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**APR122**

Notes
Auditavailable.

APR 124: Electrical Systems Operations

Electrical Systems Operations Covers alternating current measure instruments, test equipment, advanced motor theory, blueprint reading, electrical related materials, AC systems, advanced transformer theory, lighting, grounding and bonding, contactors, relays and general installation requirements to meet code specifications.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**
Prerequisites	**APR 123**

Notes
Audit available.

APR124: Electrical Systems Operations

Electrical Systems Operations Covers alternating current measure instruments, test equipment, advanced motor theory, blueprint reading, electrical related materials, AC systems, advanced transformer theory, lighting, grounding and bonding, contactors, relays and general installation requirements to meet code specifications.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**APR 123**

Notes
Audit available.

APR 125: Electrical Circuits Wiring Methods

Electrical Circuits and Wiring Methods Covers residential and commercial lighting, fixtures, and ballast in detail. Includes conductor selection, overcurrent, protection, motor maintenance, calculations, controls, troubleshooting, services, construction upgrades, wire methods, tag out, lockout and appliances. Covers series, branch, and parallel circuits in detail, and the basic use of a multi-meter to check for voltage, current, and resistance.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**
Prerequisites	**APR 124**

Notes
Audit available

APR125: Electrical Circuits Wiring Methods

Electrical Circuits and Wiring Methods Covers residential and commercial lighting, fixtures, and ballast in detail. Includes conductor selection, overcurrent, protection, motor maintenance, calculations, controls, troubleshooting, services, construction upgrades, wire methods, tag out, lockout and appliances. Covers series, branch, and parallel circuits in detail, and the basic use of a multi-meter to check for voltage, current, and resistance.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**APR 124**

Notes
Audit available

APR 126: Electrical Systems Installation/NEC

Electrical Systems Installation per NEC Covers standby electrical systems, temporary electrical services, fire alarm systems, specialty systems, advanced controls, heat tracing, freezing protection, installation practices, and what constitutes a low voltage and limited energy circuit as per the NEC and the requirements for each.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**
Prerequisites	**APR 125**

APR126: Electrical Systems Installation/NEC

Electrical Systems Installation per NEC Covers standby electrical systems, temporary electrical services, fire alarm systems, specialty systems, advanced controls, heat tracing, freezing protection, installation practices, and what constitutes a low voltage and limited energy circuit as per the NEC and the requirements for each.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**APR 125**

APR 127: Basic Programmable Controllers - (PC Based)

Basic Programmable Controllers Develops the student's understanding of the complete operation of a variety of programmable controllers. The applications, operations, and programming of PLC's are the areas of study with the main emphasis on programming (computers will be used as programmers). Additional supply fee may be required.

Credits	**2**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**1**

APR127: Basic Programmable Controllers - (PC Based)

Basic Programmable Controllers Develops the student's understanding of the complete operation of a variety of programmable controllers. The applications, operations, and programming of PLC's are the areas of study with the main emphasis on programming (computers will be used as programmers). Additional supply fee may be required.

Credits	**2**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**1**
Lec/Lab Hrs per Wk	**2**

APR 128: Intermediate Programmable Controllers (PC Based)

Intermediate Programmable Controllers (PC Based) Presents advanced features of programmable controllers, including designing, monitoring, and editing programs with practical hands-on experience. This class can be used towards Continuing Education Units for Oregon State electrical licensing purposes. Additional supply fee may be required.

Credits	**2**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**1**
Prerequisites	**APR 127**

APR128: Intermediate Programmable Controllers (PC Based)

Intermediate Programmable Controllers (PC Based) Presents advanced features of programmable controllers, including designing, monitoring, and editing programs with practical hands-on experience. This class can be used towards Continuing Education Units for Oregon State electrical licensing purposes. Additional supply fee may be required.

Credits	**2**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**1**
Lec/Lab Hrs per Wk	**2**
Prerequisites	**APR 127**

APR 129: Blueprint Reading

Covers the language of blueprints including lines, views, dimensioning, print organization, welding symbols and structural shapes. Additional supply fee may be required.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**

APR129: Blueprint Reading

Covers the language of blueprints including lines, views, dimensioning, print organization, welding symbols and structural shapes. Additional supply fee may be required.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**

APR 130: Applied Industrial Technology Mathematics

Provides exposure to practical math most commonly encountered in industrial settings. Concepts covered will include: fractions, decimals, units, conversions, measurements, using equations to calculate area and volume, basic algebra and right-triangle math. Utilizes real-world scenarios that require application of gained math skills in order to find a solution.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Prerequisites	**MTH020**

APR130: Applied Industrial Technology Mathematics

Provides exposure to practical math most commonly encountered in industrial settings. Concepts covered will include: fractions, decimals, units, conversions, measurements, using equations to calculate area and volume, basic algebra and right-triangle math. Utilizes real-world scenarios that require application of gained math skills in order to find a solution.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**MTH020**

APR 134: Machining I

A technical elective course in the Associate of Applied Science Degree in the Machine Manufacturing Technology program. An introductory course in material removal operations emphasizing drilling, milling and lathe processes with emphasis on production speeds and feeds.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**2**
Prerequisites	**MCH102**

Notes
Audit available.

APR134: Machining I

A technical elective course in the Associate of Applied Science Degree in the Machine Manufacturing Technology program. An introductory course in material removal operations emphasizing drilling, milling and lathe processes with emphasis on production speeds and feeds.

Credits	**3**
Lab Hrs per Wk	**6**
Lecture Hrs per Wk	**0**
Lec/Lab Hrs per Wk	**4**
Prerequisites	**MCH102**

Notes
Audit available.

APR 140: CORE 1C (NCCER Modules 00100 – 00104)

Develops an understanding of the hand tools and power tools used in industrial trades. Identifies commonly used hand/power tools, selecting the correct tool to complete assigned projects, and working safely and competently. Introduces common types of construction drawings, their basic components, standard drawing elements, and measurement tools that are typically used when working with construction drawings.

Credits	**4**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**3**
Prerequisites	**APR 105 and APR 130**

APR140: CORE 1C (NCCER Modules 00100 – 00104)

Develops an understanding of the hand tools and power tools used in industrial trades. Identifies commonly used hand/power tools, selecting the correct tool to complete assigned projects, and working safely and competently. Introduces common types of construction drawings, their basic components, standard drawing elements, and measurement tools that are typically used when working with construction drawings.

Credits	**4**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**3**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**APR 105 and APR 130**

APR 141: CORE 2C (NCCER Modules 00105 – 00109)

Provides an overview of the various types of rigging equipment, common hitches used during a rigging operation, and Emergency Stop hand signals. Provides guidance in listening to understand, speaking with clarity, using and understanding written materials, and techniques to improve writing skills. Discusses the skills needed to pursue successful employment. Guidelines for using the appropriate PPE in materials handling and use of proper procedures and techniques to carry out the job.

Credits	**4**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**3**
Prerequisites	**APR 140**

APR141: CORE 2C (NCCER Modules 00105 – 00109)

Provides an overview of the various types of rigging equipment, common hitches used during a rigging operation, and Emergency Stop hand signals. Provides guidance in listening to understand, speaking with clarity, using and understanding written materials, and techniques to improve writing skills. Discusses the skills needed to pursue successful employment. Guidelines for using the appropriate PPE in materials handling and use of proper procedures and techniques to carry out the job.

Credits	**4**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**3**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**APR 140**

APR 142: Carpentry 1.1

Explores how carpentry offers numerous career opportunities in residential, commercial, and industry/civil construction. Reviews the types of materials used by carpenters, associated hazards and precautions, and related construction fasteners and adhesives. Learns how construction drawings are used and how to accurately read and interpret them.

Credits	**4**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**3**
Prerequisites	**APR 141**

APR142: Carpentry 1.1

Explores how carpentry offers numerous career opportunities in residential, commercial, and industry/civil construction. Reviews the types of materials used by carpenters, associated hazards and precautions, and related construction fasteners and adhesives. Learns how construction drawings are used and how to accurately read and interpret them.

Credits	**4**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**3**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**APR 141**

APR 143: Carpentry 1.2

Provides an overview of site and building layout practices and introduces basic building layout concepts and terms. Focuses on the construction of raised floor systems, their components, and how they are built. Reviews wall system components, layout, and assembly techniques.

Credits	**4**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**3**
Prerequisites	**APR 142**

APR143: Carpentry 1.2

Provides an overview of site and building layout practices and introduces basic building layout concepts and terms. Focuses on the construction of raised floor systems, their components, and how they are built. Reviews wall system components, layout, and assembly techniques.

Credits	**4**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**3**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**APR 142**

APR 144: Carpentry 1.3

Perform the length and angle calculations needed to correct size and cut each type of rafter for ceilings and roofs; frame all or part of a roof. Demonstrate precise measuring and cutting, the ability to perform the necessary math calculations, and an understanding of codes related to stair design. Examine the purposes of a building envelope system and provide detailed steps for installing components such as the building wrap and exterior windows and doors.

Credits	**4**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**3**
Prerequisites	**APR 143**

APR144: Carpentry 1.3

Perform the length and angle calculations needed to correct size and cut each type of rafter for ceilings and roofs; frame all or part of a roof. Demonstrate precise measuring and cutting, the ability to perform the necessary math calculations, and an understanding of codes related to stair design. Examine the purposes of a building envelope system and provide detailed steps for installing components such as the building wrap and exterior windows and doors.

Credits	**4**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**3**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**APR 143**

APR 160: CORE 1E (NCCER Modules 00100-00104)

Students learn the OSHA safety standards, industry responsibilities, and professional opportunities. They will identify and demonstrate the use of materials, fasteners, and adhesives in the trade, as well as the use and care of basic hand and power tools.

Credits	**4**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**3**

APR160: CORE 1E (NCCER Modules 00100-00104)

Students learn the OSHA safety standards, industry responsibilities, and professional opportunities. They will identify and demonstrate the use of materials, fasteners, and adhesives in the trade, as well as the use and care of basic hand and power tools.

Credits	**4**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**3**
Lec/Lab Hrs per Wk	**0**

APR 161: CORE 2E (NCCER Modules 00105-00109)

Students learn the OSHA safety standards, industry responsibilities, and professional opportunities. They will identify and demonstrate the use of materials, fasteners, and adhesives in the trade, as well as the use and care of basic hand and power tools.

Credits	**4**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**3**
Prerequisites	**APR160**

APR161: CORE 2E (NCCER Modules 00105-00109)

Students learn the OSHA safety standards, industry responsibilities, and professional opportunities. They will identify and demonstrate the use of materials, fasteners, and adhesives in the trade, as well as the use and care of basic hand and power tools.

Credits	**4**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**3**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**APR160**

APR 162: Electrical 1.1

This course provides an overview of the electrical craft and discusses the career paths available to electricians, including apprenticeship requirements, discusses hazards and describes the various types of personal protective equipment (PPE) used to reduce injuries. Covers the standards related to electrical safety and the OSHA-mandated lockout/tagout rule Discusses basic atomic and electrical theory and electrical units of measurement. Explains how Ohm's law and the power equation can be used to determine unknown values, and introduces electrical schematic diagrams and introduces basic circuits, as well as the methods for calculating the electrical energy within them. Covers resistive circuits, Kirchhoff's voltage and current laws, and circuit analysis.

Credits	**4**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**3**
Prerequisites	**APR161**

APR162: Electrical 1.1

This course provides an overview of the electrical craft and discusses the career paths available to electricians, including apprenticeship requirements, discusses hazards and describes the various types of personal protective equipment (PPE) used to reduce injuries. Covers the standards related to electrical safety and the OSHA-mandated lockout/tagout rule Discusses basic atomic and electrical theory and electrical units of measurement. Explains how Ohm's law and the power equation can be used to determine unknown values, and introduces electrical schematic diagrams and introduces basic circuits, as well as the methods for calculating the electrical energy within them. Covers resistive circuits, Kirchhoff's voltage and current laws, and circuit analysis.

Credits	**4**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**3**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**APR161**

APR 163: Electrical 1.2

This course introduces the NEC® and explains how to use it to find the installation requirements. Provides an overview of the National Electrical Manufacturers Association and Nationally Recognized Testing Laboratories, describes the various types of boxes and explains how to calculate the NEC® fill requirements for outlet adjunction boxes under 100 cubic inches (1,650 cubic centimeters), covers methods for hand bending conduit, including 90-degree bends, back-to-back bends, offsets, and saddle bends. Describes how to cut, ream, and thread conduit.

Credits	**4**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**3**
Prerequisites	**APR162**

APR163: Electrical 1.2

This course introduces the NEC® and explains how to use it to find the installation requirements. Provides an overview of the National Electrical Manufacturers Association and Nationally Recognized Testing Laboratories, describes the various types of boxes and explains how to calculate the NEC® fill requirements for outlet adjunction boxes under 100 cubic inches (1,650 cubic centimeters), covers methods for hand bending conduit, including 90-degree bends, back-to-back bends, offsets, and saddle bends. Describes how to cut, ream, and thread conduit.

Credits	**4**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**3**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**APR162**

APR 164: Electrical 1.3

This course covers basic load calculations and NEC® requirements for residential electrical systems, describes how to lay out branch circuits, install wiring, size outlet boxes, and install wiring devices. Describes how to interpret electrical drawings, including the use of architect's and engineer's scales. Covers the applications of various types of electrical test equipment, describes meter safety precautions and category ratings, overs the applications of various types of electrical test equipment, describes meter safety precautions and category ratings.

Credits	**4**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**3**
Prerequisites	**APR163**

APR164: Electrical 1.3

This course covers basic load calculations and NEC® requirements for residential electrical systems, describes how to lay out branch circuits, install wiring, size outlet boxes, and install wiring devices. Describes how to interpret electrical drawings, including the use of architect's and engineer's scales. Covers the applications of various types of electrical test equipment, describes meter safety precautions and category ratings, overs the applications of various types of electrical test equipment, describes meter safety precautions and category ratings.

Credits	**4**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**3**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**APR163**

APR 165: Electrical 1.4

This course introduces various types of raceway systems, along with their installation and NEC® requirements, describes the use of various conduit bodies, discusses conductor types, cable markings, color codes, ampacity derating and describes how to install conductors using fish tape and power conduit fishing systems.

Credits	**4**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**3**
Prerequisites	**APR164**

APR165: Electrical 1.4

This course introduces various types of raceway systems, along with their installation and NEC® requirements, describes the use of various conduit bodies, discusses conductor types, cable markings, color codes, ampacity derating and describes how to install conductors using fish tape and power conduit fishing systems.

Credits	**4**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**3**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**APR164**

APR 166: Electrical 2.1

This course describes AC circuits and explains how to apply Ohm's law to solve for unknown circuit values, describes the operating principles of circuit breakers and fuses, and explains how to select and install overcurrent devices. Introduces the principles of human vision and the characteristics of light, Covers different types of light sources and the operating characteristics and installation requirements of various lighting fixtures.

Credits	**4**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**3**
Prerequisites	**APR165**

APR166: Electrical 2.1

This course describes AC circuits and explains how to apply Ohm's law to solve for unknown circuit values, describes the operating principles of circuit breakers and fuses, and explains how to select and install overcurrent devices. Introduces the principles of human vision and the characteristics of light, Covers different types of light sources and the operating characteristics and installation requirements of various lighting fixtures.

Credits	**4**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**3**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**APR165**

APR 167: Electrical 2.2

Continuation of the NCCER Level 2 electrical curriculum. This course covers AC and DC motors, including the main components, circuits, and connections, describes how to make conduit bends using mechanical, hydraulic, and electric benders. Explains how to size and install pull and junction boxes. Identifies various specialty enclosures, including conduit bodies, FS and FD boxes, and handholes.

Credits	**4**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**3**
Prerequisites	**APR166**

APR167: Electrical 2.2

Continuation of the NCCER Level 2 electrical curriculum. This course covers AC and DC motors, including the main components, circuits, and connections, describes how to make conduit bends using mechanical, hydraulic, and electric benders. Explains how to size and install pull and junction boxes. Identifies various specialty enclosures, including conduit bodies, FS and FD boxes, and handholes.

Credits	**4**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**3**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**APR166**

APR 168: Electrical 2.3

This is the conclusion of the NCCER Level 2 electrical curriculum. This course Describes how to prepare conduit for conductors, explains how to set up and complete a cable-pulling operation, discusses various types of cable tray, supports, and associated fittings, explains how to determine the loads on a cable tray and calculate fill per NEC® requirements, explains how to prepare cable ends for terminations and splices, describes how to train cable at termination points and describes crimping techniques, describes the operating principles of contactors and relays, including both mechanical and solid-state devices, explains how to select and install relays and troubleshoot control circuits.

Credits	**4**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**3**
Prerequisites	**APR167**

APR168: Electrical 2.3

This is the conclusion of the NCCER Level 2 electrical curriculum. This course Describes how to prepare conduit for conductors, explains how to set up and complete a cable-pulling operation, discusses various types of cable tray, supports, and associated fittings, explains how to determine the loads on a cable tray and calculate fill per NEC® requirements, explains how to prepare cable ends for terminations and splices, describes how to train cable at termination points and describes crimping techniques, describes the operating principles of contactors and relays, including both mechanical and solid-state devices, explains how to select and install relays and troubleshoot control circuits.

Credits	**4**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**3**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**APR167**

APR 169: Electrical 3.1

First course of the NCCER Level 3 electrical curriculum. This course explains how to calculate branch circuit and feeder loads for residential and commercial applications, covers various derating factors, explains how to make conductor calculations, covers other factors involved in conductor selection, including insulation types, current-carrying capacity, temperature ratings, and voltage drop, describes various luminaires and the types of luminaires suited for various applications. Covers dimming, lighting controls, and energy management systems, presents the NEC® requirements for equipment installed in hazardous locations.

Credits	**4**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**3**
Prerequisites	**APR168**

APR169: Electrical 3.1

First course of the NCCER Level 3 electrical curriculum. This course explains how to calculate branch circuit and feeder loads for residential and commercial applications, covers various derating factors, explains how to make conductor calculations, covers other factors involved in conductor selection, including insulation types, current-carrying capacity, temperature ratings, and voltage drop, describes various luminaires and the types of luminaires suited for various applications. Covers dimming, lighting controls, and energy management systems, presents the NEC® requirements for equipment installed in hazardous locations.

Credits	**4**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**3**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**APR168**

APR 170: Electrical 3.2

Continuation of the NCCER Level 3 electrical curriculum. This course explains how to size and select circuit breakers and fuses for various applications. Covers short circuit calculations and troubleshooting, discusses switchboards and switchgear, including installation, grounding, and maintenance requirements, covers ground fault relay testing. Describes the construction, operation, and applications of various transformers, covers transformer connections and grounding requirements. Covers the components, installation considerations, and NEC® requirements for commercial services.

Credits	**4**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**3**
Prerequisites	**APR169**

APR170: Electrical 3.2

Continuation of the NCCER Level 3 electrical curriculum. This course explains how to size and select circuit breakers and fuses for various applications. Covers short circuit calculations and troubleshooting, discusses switchboards and switchgear, including installation, grounding, and maintenance requirements, covers ground fault relay testing. Describes the construction, operation, and applications of various transformers, covers transformer connections and grounding requirements. Covers the components, installation considerations, and NEC® requirements for commercial services.

Credits	**4**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**3**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**APR169**

APR 171: Electrical 3.3

Continuation of the NCCER Level 3 electrical curriculum. This course Covers the calculations required to size the conductors and overcurrent protection required for motor applications. Covers the installation, termination, and testing of voice, data and video systems. Provides information on selecting, sizing, and installing motor controllers, as well as control circuit pilot devices and basic relay logic.

Credits	**4**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**3**
Prerequisites	**APR170**

APR171: Electrical 3.3

Continuation of the NCCER Level 3 electrical curriculum. This course Covers the calculations required to size the conductors and overcurrent protection required for motor applications. Covers the installation, termination, and testing of voice, data and video systems. Provides information on selecting, sizing, and installing motor controllers, as well as control circuit pilot devices and basic relay logic.

Credits	**4**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**3**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**APR170**

APR 172: Electrical 4.1

First course of the NCCER Level 4 electrical curriculum. This course covers basic calculations for commercial and residential applications, including raceway fill, conductor derating, and voltage drop. Covers the installation, alarm system, and backup system requirements of electrical systems in health care facilities, including the requirements for life safety and critical circuits. Explains the NEC® installation requirements for electric generators and storage batteries used during such emergency situations. Explains the function and operation of basic electronic devices, including semiconductors, diodes, rectifiers, and transistors. Explores the technologies, codes, and wiring approaches used to assemble a fire alarm system, examines installation and troubleshooting techniques.

Credits	**4**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**3**
Prerequisites	**APR171**

APR172: Electrical 4.1

First course of the NCCER Level 4 electrical curriculum. This course covers basic calculations for commercial and residential applications, including raceway fill, conductor derating, and voltage drop. Covers the installation, alarm system, and backup system requirements of electrical systems in health care facilities, including the requirements for life safety and critical circuits. Explains the NEC® installation requirements for electric generators and storage batteries used during such emergency situations. Explains the function and operation of basic electronic devices, including semiconductors, diodes, rectifiers, and transistors. Explores the technologies, codes, and wiring approaches used to assemble a fire alarm system, examines installation and troubleshooting techniques.

Credits	**4**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**3**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**APR171**

APR 173: Electrical 4.2

Continuation of the NCCER Level 4 electrical curriculum. This course Covers various types of transformers, and provides information on selecting, sizing, and installing them. Discusses applications and operating principles of various control system components, such as solid-state relays, reduced-voltage starters, and adjustable-frequency drives. Covers basic troubleshooting procedures. Provides a basic overview of HVAC systems and their controls. Also covers electrical troubleshooting and NEC® requirements. Presents heat-tracing and freeze-protection systems along with various applications and installation requirements.

Credits	**4**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**3**
Prerequisites	**APR172**

APR173: Electrical 4.2

Continuation of the NCCER Level 4 electrical curriculum. This course Covers various types of transformers, and provides information on selecting, sizing, and installing them. Discusses applications and operating principles of various control system components, such as solid-state relays, reduced-voltage starters, and adjustable-frequency drives. Covers basic troubleshooting procedures. Provides a basic overview of HVAC systems and their controls. Also covers electrical troubleshooting and NEC® requirements. Presents heat-tracing and freeze-protection systems along with various applications and installation requirements.

Credits	**4**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**3**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**APR172**

APR 174: Electrical 4.3

Continuation of the NCCER Level 4 electrical curriculum. This course covers motor care procedures, including cleaning, testing, and preventive maintenance. Describes basic troubleshooting procedures. Identifies types of medium-voltage cable and describes how to make various splices and terminations. Covers hi-pot testing. Describes the NEC® requirements for selecting and installing equipment, enclosures, and devices for special locations that require unique attention. Locations include places of public assembly, theaters, carnivals, agricultural and livestock facilities, marinas, swimming pools, and temporary facilities. Introduces leadership skills and different leadership styles, as well as communication and problem-solving techniques, jobsite safety and safety leadership are also discussed. Introduces business topics that are important to understand for construction projects.

Credits	**4**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**3**
Prerequisites	**APR173**

APR174: Electrical 4.3

Continuation of the NCCER Level 4 electrical curriculum. This course covers motor care procedures, including cleaning, testing, and preventive maintenance. Describes basic troubleshooting procedures. Identifies types of medium-voltage cable and describes how to make various splices and terminations. Covers hi-pot testing. Describes the NEC® requirements for selecting and installing equipment, enclosures, and devices for special locations that require unique attention. Locations include places of public assembly, theaters, carnivals, agricultural and livestock facilities, marinas, swimming pools, and temporary facilities. Introduces leadership skills and different leadership styles, as well as communication and problem-solving techniques, jobsite safety and safety leadership are also discussed. Introduces business topics that are important to understand for construction projects.

Credits	**4**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**3**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**APR173**

APR 180: CORE 1.1M (NCCER Modules 00100 – 00104)

Students learn the OSHA safety standards, industry responsibilities, and professional opportunities. They will identify and demonstrate the use of materials, fasteners, and adhesives in the trade, as well as the use and care of basic hand and power tools.

Credits	**4**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**3**

APR180: CORE 1.1M (NCCER Modules 00100 – 00104)

Students learn the OSHA safety standards, industry responsibilities, and professional opportunities. They will identify and demonstrate the use of materials, fasteners, and adhesives in the trade, as well as the use and care of basic hand and power tools.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**
Lec/Lab Hrs per Wk	**3**

APR 181: CORE 1.2M (NCCER Modules 00100 – 00104)

Students learn the OSHA safety standards, industry responsibilities, and professional opportunities. They will identify and demonstrate the use of materials, fasteners, and adhesives in the trade, as well as the use and care of basic hand and power tools.

Credits	**4**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**3**
Prerequisites	**APR180**

APR181: CORE 1.2M (NCCER Modules 00100 – 00104)

Students learn the OSHA safety standards, industry responsibilities, and professional opportunities. They will identify and demonstrate the use of materials, fasteners, and adhesives in the trade, as well as the use and care of basic hand and power tools.

Credits	**4**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**3**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**APR180**

APR 200: Pumps and Valves

Provides instruction in how to troubleshoot and maintain industrial pumping systems. Content includes alignment procedures, rebuild methods, installation of packing and seals for pumps and valves and selecting pumps for specific applications. Additional supply fee may be required.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**2**

APR200: Pumps and Valves

Provides instruction in how to troubleshoot and maintain industrial pumping systems. Content includes alignment procedures, rebuild methods, installation of packing and seals for pumps and valves and selecting pumps for specific applications. Additional supply fee may be required.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**2**
Lec/Lab Hrs per Wk	**2**

APR 201: Electrical Motor Controls

Provides knowledge and skills needed to design, install, maintain, service and troubleshoot electric motors. Focuses on the operation and installation of control systems, specifically motor starters and controllers. Electromagnetic controls, motors and transformers will also be covered. Lab activities will utilize electrical test equipment to analyze electric motor control malfunctions. This class can be used towards Continuing Education Units for Oregon State electrical licensing purposes. Prerequisite: APR 121 or instructor approval.

Credits	**2**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**1**
Prerequisites	**APR121**

APR201: Electrical Motor Controls

Provides knowledge and skills needed to design, install, maintain, service and troubleshoot electric motors. Focuses on the operation and installation of control systems, specifically motor starters and controllers. Electromagnetic controls, motors and transformers will also be covered. Lab activities will utilize electrical test equipment to analyze electric motor control malfunctions. This class can be used towards Continuing Education Units for Oregon State electrical licensing purposes. Prerequisite: APR 121 or instructor approval.

Credits	**2**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**1**
Lec/Lab Hrs per Wk	**2**
Prerequisites	**APR121**

APR 202: Advanced Electric Motor Control

Provides advanced knowledge and skills needed to design, install, maintain, service and troubleshoot electric motors. Focuses on the operation and design of control systems, specifically motor starters and controllers. Electromagnetic controls, motors and transformers will also be covered. Students will create their own circuit designs to solve different motor control problems and will engage in advanced trouble-shooting of electric motor controls. This class is the second class in the Motor controls sequence

Credits	**2**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**1**
Prerequisites	**APR 201-ELT 201**

APR 205: Introduction to Pneumatics

Provides an introduction to operating a pneumatic system, including maintenance and rebuilding procedures. Analysis of pneumatic schematics is included. Additional supply fee isrequired.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**2**

APR205: Introduction to Pneumatics

Provides an introduction to operating a pneumatic system, including maintenance and rebuilding procedures. Analysis of pneumatic schematics is included. Additional supply fee isrequired.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**2**
Lec/Lab Hrs per Wk	**0**

APR 210: Proportional Hydraulics

Examines the industrial applications of proportional hydraulics theory, application, troubleshooting, and repair of these advanced hydraulic applications. Additional supply fee may be required.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**2**

APR210: Proportional Hydraulics

Examines the industrial applications of proportional hydraulics theory, application, troubleshooting, and repair of these advanced hydraulic applications. Additional supply fee may be required.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**2**
Lec/Lab Hrs per Wk	**2**

APR 221: Advanced AC Circuitry

AdvancedACCircuitryIncludesthetheoryofalternatingcurrentandp alternating current,resistanceinACcircuits,inductance and inductive reactance, capacitance andcapacitivereactance,powerfactor correction,power in AC circuits, vectoranalysisand threephaseconnections andcalculations.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**
Prerequisites	**APR126**

APR221: Advanced AC Circuitry

AdvancedACCircuitryIncludesthetheoryofalternatingcurrentandp alternating current,resistanceinACcircuits,inductance and inductive reactance, capacitance andcapacitivereactance,powerfactor correction,power in AC circuits, vectoranalysisand threephaseconnections andcalculations.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**APR126**

APR 222: Hazardous Locations

Hazardous Locations Includes introduction to hazardous locations, Class I, II, III installations, commercial garages-repair and storage, aircraft hangers, gasoline dispensing and service stations, bulk storage plants, finishing processes and health care facilities.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**
Prerequisites	**APR 221**

APR222: Hazardous Locations

Hazardous Locations Includes introduction to hazardous locations, Class I, II, III installations, commercial garages-repair and storage, aircraft hangers, gasoline dispensing and service stations, bulk storage plants, finishing processes and health care facilities.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**APR 221**

APR 223: Motor Control Operationsincluding PLC's

Motor Control Operations including PLC's Reviews basic motor controls and progresses to moderately complex machine controls. Includes fundamentals of motor control, control of motor starting, control components, programmable controllers, pilot devices, control circuit diagrams, solid state logic and diagrams, development of control circuits and troubleshooting electrical controls.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**
Prerequisites	**APR 222**

APR223: Motor Control Operationsincluding PLC's

Motor Control Operations including PLC's Reviews basic motor controls and progresses to moderately complex machine controls. Includes fundamentals of motor control, control of motor starting, control components, programmable controllers, pilot devices, control circuit diagrams, solid state logic and diagrams, development of control circuits and troubleshooting electrical controls.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**APR 222**

APR 224: Electrical Code - Level I

Electrical Code - Level I emphasizes the use and understanding of the National Electrical Code Article 90 through Article 300. Assists apprentice electricians in preparing for the state electrical exam. Topics include Art.250 grounding, Art.300 wiring methods, Art.240 overcurrent protection, Art.210 branch circuits, Art.220 calculations, Art.215 feeders and Oregon Specialty Codes.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Prerequisites	**APR 223**

APR224: Electrical Code - Level I

Electrical Code - Level I emphasizes the use and understanding of the National Electrical Code Article 90 through Article 300. Assists apprentice electricians in preparing for the state electrical exam. Topics include Art.250 grounding, Art.300 wiring methods, Art.240 overcurrent protection, Art.210 branch circuits, Art.220 calculations, Art.215 feeders and Oregon Specialty Codes.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**APR 223**

APR 225: Electrical Code - Level II

Electrical Code - Level II emphasizes the use and understanding of the NEC Articles 310 through Article 450.Topics include wire, cable, raceway, busway, cable bus, switches, panel boards, lighting, heating equipment, Motors, transformers and the taking of practice exams.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Prerequisites	**APR 224**

APR225: Electrical Code - Level II

Electrical Code - Level II emphasizes the use and understanding of the NEC Articles 310 through Article 450.Topics include wire, cable, raceway, busway, cable bus, switches, panel boards, lighting, heating equipment, Motors, transformers and the taking of practice exams.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**APR 224**

APR 226: Electrical Code - Level III

Electrical Code - Level III emphasizes the use of understanding of the NEC Articles 460 through informative annex D. Topics includes code articles, OAR's, supplemental code reference materials, calculations and practice exams. Completion of the series prepares the student apprentice to become a licensed Electrician Journey person.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Prerequisites	**APR 225**

APR226: Electrical Code - Level III

Electrical Code - Level III emphasizes the use of understanding of the NEC Articles 460 through informative annex D. Topics includes code articles, OAR's, supplemental code reference materials, calculations and practice exams. Completion of the series prepares the student apprentice to become a licensed Electrician Journey person.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**APR 225**

APR 229: Techniques of Preventive Maintenance

Examines the development and implementation of a preventative maintenance program using proven actions and procedures and common computer software. This course also part of the MSSC Certified Production Technician Certification.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**

APR229: Techniques of Preventive Maintenance

Examines the development and implementation of a preventative maintenance program using proven actions and procedures and common computer software. This course also part of the MSSC Certified Production Technician Certification.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**
Lec/Lab Hrs per Wk	**0**

Art Program

ART 101: Understanding Architecture

Introduces aesthetic, historical, and critical issues of architecture. Presents buildings, gardens, fountains, malls and public spaces in terms of experiencing, appreciating and understanding roles of architecture in the urban world and as reflections of human interaction with the socio- political and physical environment. The series ART 101, 102, 103 may be taken in any order.

Credits	**4**
Prerequisites	**RDWR 115 and MTH 20 or equivalent and above.**

Notes
Audit available.

ART101: Understanding Architecture

Introduces aesthetic, historical, and critical issues of architecture. Presents buildings, gardens, fountains, malls and public spaces in terms of experiencing, appreciating and understanding roles of architecture in the urban world and as reflections of human interaction with the socio- political and physical environment. The series ART 101, 102, 103 may be taken in any order.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**RDWR 115 and MTH 20 or equivalent and above.**

Notes
Audit available.

ART 103: Understanding New Media Arts

Introduces aesthetic, historical, and critical issues of new media arts and design. Presents aspects of printmaking, photography, graphic design, video, film, performance, installation, and other forms of time-based art in terms of experiencing, appreciating and understanding their roles in our lives. The series ART 101, 102, 103 may be taken in any order.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Prerequisites	**RDWR 115 and MTH 20 or equivalent and above.**

Notes
Audit available.

ART103: Understanding New Media Arts

Introduces aesthetic, historical, and critical issues of new media arts and design. Presents aspects of printmaking, photography, graphic design, video, film, performance, installation, and other forms of time-based art in terms of experiencing, appreciating and understanding their roles in our lives. The series ART 101, 102, 103 may be taken in any order.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**RDWR 115 and MTH 20 or equivalent and above.**

Notes
Audit available.

ART 115: Basic Design - 2D Foundations

Introduces two dimensional foundations, studio experience centered on creative problem solving. Develops perceptual awareness and understanding. Establishes critical skills and personal artistic vision. Investigates a broad range of materials, techniques and projects to explore design concepts with reference to historical and contemporary perspectives. Additional course fee applies.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**0**

Notes
Audit available.

ART115: Basic Design - 2D Foundations

Introduces two dimensional foundations, studio experience centered on creative problem solving. Develops perceptual awareness and understanding. Establishes critical skills and personal artistic vision. Investigates a broad range of materials, techniques and projects to explore design concepts with reference to historical and contemporary perspectives. Additional course fee applies.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**0**
Lec/Lab Hrs per Wk	**6**

Notes
Audit available.

ART 116: Basic Design — Color Foundations

Introduces color foundations studio experience centered on creative problem solving. Develops perceptual awareness and understanding. Establishes critical skills and personal artistic vision. Investigates a broad range of materials, techniques and projects to explore color design concepts with reference to historical and contemporary perspectives. Course may include demonstrations, slides, lectured, films and/or field trips. Basic Design series 115 and 116 may be taken in any sequence.

Credits	**3**

Notes
Audit available.

ART 131: Drawing I

Explores basic perceptual drawing techniques and tools as well as the development of the language of drawing in historical and contemporary contexts. Introduces critical skills for sighting, measuring, designing and constructing in drawing. This course can be repeated three times for credit.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**0**

Notes
Audit available.

ART131: Drawing I

Explores basic perceptual drawing techniques and tools as well as the development of the language of drawing in historical and contemporary contexts. Introduces critical skills for sighting, measuring, designing and constructing in drawing. This course can be repeated three times for credit.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**0**
Lec/Lab Hrs per Wk	**6**

Notes
Audit available.

ART 140: Digital Photography

The course will provide a hands-on experience that approaches digital photography from an artistic, historic, and craft-oriented perspective. All aspects of digital photography will be considered, from exposure of images in the camera, to the presentation of the finished image. Special attention will be paid to self-expression, based on an understanding of aesthetic principles and graphic design. Historical approaches and contemporary issues concerning the art of photography will be discussed. Students' abilities will be developed through regular photographic assignments and critical evaluations. Includes critiques, discussions, and presentations to establish the basic skills necessary to evaluate prints and images, explore artistic intent, examine aesthetic and structural solutions and expand perceptual awareness. Requires access to a camera with manual exposure controls, DSLR (digital single-lens-reflex) cameras are preferred.

Credits	**3**
Prerequisites	**Recommended: Basic computer skills.**

Notes
Audit available.

ART140: Digital Photography

The course will provide a hands-on experience that approaches digital photography from an artistic, historic, and craft-oriented perspective. All aspects of digital photography will be considered, from exposure of images in the camera, to the presentation of the finished image. Special attention will be paid to self-expression, based on an understanding of aesthetic principles and graphic design. Historical approaches and contemporary issues concerning the art of photography will be discussed. Students' abilities will be developed through regular photographic assignments and critical evaluations. Includes critiques, discussions, and presentations to establish the basic skills necessary to evaluate prints and images, explore artistic intent, examine aesthetic and structural solutions and expand perceptual awareness. Requires access to a camera with manual exposure controls, DSLR (digital single-lens-reflex) cameras are preferred.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**0**
Lec/Lab Hrs per Wk	**6**
Prerequisites	**Recommended: Basic computer skills.**

Notes
Audit available.

ART 181: Painting I

Explores basic studio painting techniques, materials, and concepts while addressing historical and contemporary issues. Presents a conceptual framework for critical analysis along with basic art theory. May be taken three times for credit.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**0**

ART181: Painting I

Explores basic studio painting techniques, materials, and concepts while addressing historical and contemporary issues. Presents a conceptual framework for critical analysis along with basic art theory. May be taken three times for credit.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**0**
Lec/Lab Hrs per Wk	**6**

ART 198: Special Topics in Art

This course combats stereotypes of folk art, and reveals how folk art, regardless of medium, is a series of complex and ongoing negotiations of meaning, identity, and community passed on by generations of artists working within a tradition. Presents a critical look at America's diverse folk art traditions from quilters, to Indigenous canoe builders, and Norwegian-American rosemaling, and how these works act as expressions of ethnicity, region, occupation, recreation, faith, and more.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**

ART198: Special Topics in Art

This course combats stereotypes of folk art, and reveals how folk art, regardless of medium, is a series of complex and ongoing negotiations of meaning, identity, and community passed on by generations of artists working within a tradition. Presents a critical look at America's diverse folk art traditions from quilters, to Indigenous canoe builders, and Norwegian-American rosemaling, and how these works act as expressions of ethnicity, region, occupation, recreation, faith, and more.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**0**
Lec/Lab Hrs per Wk	**10**

ART 210: Women in Art

Covers the work of women artists from antiquity to the present. Examines works of the most important women artists from each period in relation to the changing roles of women in society and to the canon of art history.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Prerequisites	**RDWR 115 or equivalent.**

Notes
Audit available.

ART210: Women in Art

Covers the work of women artists from antiquity to the present. Examines works of the most important women artists from each period in relation to the changing roles of women in society and to the canon of art history.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**RDWR 115 or equivalent.**

Notes
Audit available.

ART 211: History of Film

Examines the merits of individual films in cinematic history and their relevance to the larger body of cinematic work. This course looks at the way that films have changed over-time. This course explores changes in lighting, stage design, scene adaptation, plot adaptation, dialogue, cinematography, and overall presentation of films while addressing historical and contemporary issues. Presents a conceptual framework for critical analysis along with basic film theory and history. Prerequisites: None

Credits	**3-4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**

ART211: History of Film

Examines the merits of individual films in cinematic history and their relevance to the larger body of cinematic work. This course looks at the way that films have changed over-time. This course explores changes in lighting, stage design, scene adaptation, plot adaptation, dialogue, cinematography, and overall presentation of films while addressing historical and contemporary issues. Presents a conceptual framework for critical analysis along with basic film theory and history. Prerequisites: None

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**
Lec/Lab Hrs per Wk	**0**

ART 212: Modern Art History - Early 20thCentury

Explores early 20th century revolutions in science and technology, psychology and philosophy. Examines visual art and architecture as a reflection of human interaction with the socio-political and physical environment, and to gain insight into our modern world. Focuses on viewing, analyzing, and comparing many art forms in a historical context. Prerequisites: RDWR 115 or placement above these levels.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Prerequisites	**RDWR115**

ART212: Modern Art History - Early 20thCentury

Explores early 20th century revolutions in science and technology, psychology and philosophy. Examines visual art and architecture as a reflection of human interaction with the socio-political and physical environment, and to gain insight into our modern world. Focuses on viewing, analyzing, and comparing many art forms in a historical context. Prerequisites: RDWR 115 or placement above these levels.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**RDWR115**

ART 231: Drawing II

Deepens basic perceptual drawing techniques and tools as well as the understanding of the language of drawing in historical and contemporary contexts. Further develops critical skills for sighting, measuring, designing and constructing in drawing. This course can be repeated three times for credit. Audit available.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**0**
Prerequisites	**ART131**

ART231: Drawing II

Deepens basic perceptual drawing techniques and tools as well as the understanding of the language of drawing in historical and contemporary contexts. Further develops critical skills for sighting, measuring, designing and constructing in drawing. This course can be repeated three times for credit. Audit available.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**0**
Lec/Lab Hrs per Wk	**6**
Prerequisites	**ART131**

ART 240: Digital Photography II

Explores the boundaries of digital photography to include a more personal practice while placing work within a historical, social, and cultural context. Establishes critical skills necessary to expand perceptual and visual cultural awareness by using a broad range of intermediate digital processes and concepts. Initiates development of a professional photographic practice. Requires access to a camera with manual exposure controls. DSLR (digital single-lens-reflex) cameras are preferred. Prerequisite: Three terms of ART 140 or instructor permission. Additional supply fee may be required.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**0**

ART240: Digital Photography II

Explores the boundaries of digital photography to include a more personal practice while placing work within a historical, social, and cultural context. Establishes critical skills necessary to expand perceptual and visual cultural awareness by using a broad range of intermediate digital processes and concepts. Initiates development of a professional photographic practice. Requires access to a camera with manual exposure controls. DSLR (digital single-lens-reflex) cameras are preferred. Prerequisite: Three terms of ART 140 or instructor permission. Additional supply fee may be required.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**0**
Lec/Lab Hrs per Wk	**6**

ART 270: Printmaking

Introduces basic printmaking processes, techniques, and concepts while addressing historical and contemporary issues. Develops an introductory level of creative problem solving and terminology of screen printing, monoprints, relief and basic intaglio processes. Includes critiques, discussions, and presentations to establish critical skills necessary to evaluate prints, explore artistic intent, examine aesthetic and structural solutions, and expand perceptual awareness. May be taken 3 times or credit. Recommended: ART 115.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**0**

ART270: Printmaking

Introduces basic printmaking processes, techniques, and concepts while addressing historical and contemporary issues. Develops an introductory level of creative problem solving and terminology of screen printing, monoprints, relief and basic intaglio processes. Includes critiques, discussions, and presentations to establish critical skills necessary to evaluate prints, explore artistic intent, examine aesthetic and structural solutions, and expand perceptual awareness. May be taken 3 times or credit. Recommended: ART 115.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**0**
Lec/Lab Hrs per Wk	**6**

ART 281: Painting II

EXPLORES WAYS OF SEEING AND ELABORATES ON DEVELOPED PAINTING TECHNIQUES, MATERIALS, AND PERSONAL PRACTICE WHILE RELATING TO HISTORICAL AND CONTEMPORARY ISSUES. PRESENTS A CONCEPTUAL FRAMEWORK FOR CRITICAL ANALYSIS ALONG WITH BASIC ART THEORY.PRE-REQUISITES ART 181 OR INSTRUCTOR PERMISSION. MAY BE TAKEN THREE TIMES FOR CREDIT. Recommended: ART 115 & ART 131.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**0**
Prerequisites	**ART181**

ART281: Painting II

EXPLORES WAYS OF SEEING AND ELABORATES ON DEVELOPED PAINTING TECHNIQUES, MATERIALS, AND PERSONAL PRACTICE WHILE RELATING TO HISTORICAL AND CONTEMPORARY ISSUES. PRESENTS A CONCEPTUAL FRAMEWORK FOR CRITICAL ANALYSIS ALONG WITH BASIC ART THEORY.PRE-REQUISITES ART 181 OR INSTRUCTOR PERMISSION. MAY BE TAKEN THREE TIMES FOR CREDIT. Recommended: ART 115 & ART 131.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**0**
Lec/Lab Hrs per Wk	**6**
Prerequisites	**ART181**

ART 284: Water Media I

Explores basic studio watercolor painting techniques, materials, and concepts while addressing historical and contemporary issues to increase visual literacy. Presents a conceptual framework for critical analysis along with basic art theory. Recommended: ART 131. Audit available.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**0**

ART284: Water Media I

Explores basic studio watercolor painting techniques, materials, and concepts while addressing historical and contemporary issues to increase visual literacy. Presents a conceptual framework for critical analysis along with basic art theory. Recommended: ART 131. Audit available.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**0**
Lec/Lab Hrs per Wk	**6**

ART 287: Water Media II

Explores intermediate and more advanced studio watercolor painting techniques, materials, and concepts while addressing historical and contemporary issues to increase visual literacy. Presents a conceptual framework for critical analysis along with advanced art theory. May be taken 3 times for credit. Prerequisites: ART 284 or instructor permission. Audit available.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**0**
Prerequisites	**ART284**

ART287: Water Media II

Explores intermediate and more advanced studio watercolor painting techniques, materials, and concepts while addressing historical and contemporary issues to increase visual literacy. Presents a conceptual framework for critical analysis along with advanced art theory. May be taken 3 times for credit. Prerequisites: ART 284 or instructor permission. Audit available.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**0**
Lec/Lab Hrs per Wk	**6**
Prerequisites	**ART284**

Biology Program

BI 100: Biology of Human Body Systems

Presents a rational and systematic observation of the human body and allows identification, description and discussion to create a basic understanding for students interested in the Basic Health Care certificate, or anyone interested in a basic understanding of how the human body works. Topics include body organization, basic chemistry, cell structure and function, tissues, and an overview of the major body systems.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**

BI100: Biology of Human Body Systems

Presents a rational and systematic observation of the human body and allows identification, description and discussion to create a basic understanding for students interested in the Basic Health Care certificate, or anyone interested in a basic understanding of how the human body works. Topics include body organization, basic chemistry, cell structure and function, tissues, and an overview of the major body systems.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**

BI 101: Biology

Introduces the properties of life, morphology and physiology of cells, cell chemistry, energy transformation, homeostasis and vertebrate organ systems. A laboratory science course designed for non-biology majors. Audit available. ADDENDUM TO COURSE DESCRIPTION: The format for this course is a traditional lecture and laboratory presentation. Lecture will be presented utilizing a variety of multimedia and interactive presentations. Laboratory experiences will be largely hands-on, team based and collaborative utilizing a variety of resources including but not limited to: multimedia, prepared microscope slides, human and animal specimens. Clarification of the teaching of evolution in the classroom: Science is a fundamentally non-dogmatic and self-correcting investigatory process. In science, a theory is neither a guess, dogma, nor myth. The theories developed through scientific investigation are not decided in advance, but can be and often are modified and revised through observation and experimentation. The theory of evolution meets the criteria of a scientific theory and is the major organizing theory in the discipline of the biological sciences. It will be presented as such in Tillamook Bay Community College science courses.

Credits	**4**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**3**

BI101: Biology

Introduces the properties of life, morphology and physiology of cells, cell chemistry, energy transformation, homeostasis and vertebrate organ systems. A laboratory science course designed for non-biology majors. Audit available. ADDENDUM TO COURSE DESCRIPTION: The format for this course is a traditional lecture and laboratory presentation. Lecture will be presented utilizing a variety of multimedia and interactive presentations. Laboratory experiences will be largely hands-on, team based and collaborative utilizing a variety of resources including but not limited to: multimedia, prepared microscope slides, human and animal specimens. Clarification of the teaching of evolution in the classroom: Science is a fundamentally non-dogmatic and self-correcting investigatory process. In science, a theory is neither a guess, dogma, nor myth. The theories developed through scientific investigation are not decided in advance, but can be and often are modified and revised through observation and experimentation. The theory of evolution meets the criteria of a scientific theory and is the major organizing theory in the discipline of the biological sciences. It will be presented as such in Tillamook Bay Community College science courses.

Credits	**4**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**3**
Lec/Lab Hrs per Wk	**0**

BI 102: Biology

Second of a three-term laboratory science course sequence designed for non-biology majors.? Presents?an overview of?protein synthesis, cell division, genetics, animal reproduction and development, and evolution. Audit available.? ADDENDUM TO COURSE DESCRIPTION:? The format for this course is a traditional lecture and laboratory presentation. Lecture will be presented utilizing a variety of multimedia and interactive presentations. Laboratory experiences will be largely hands-on, team based and collaborative utilizing a variety of resources including but not limited to: multimedia, prepared microscope slides, human and animal specimens. Clarification of the teaching of evolution in the classroom: Science is a fundamentally non-dogmatic and self-correcting investigatory process. In science, a theory is neither a guess, dogma, nor myth. The theories developed through scientific investigation are not decided in advance, but can be and often are modified and revised through observation and experimentation. The theory of evolution meets the criteria of a scientific theory and is the major organizing theory in the discipline of the biological sciences. It will be presented as such in Tillamook Bay Community College science courses. In contrast, neither creation science, nor its derivatives, are self-examining nor investigatory. Creation science, and its derivatives, are not considered legitimate science, but a form of religious advocacy. This position is established by legal precedence (Webster v. New Lenox School District #122, 917 F. 2d 1004). The TBCC Biology faculty?stands with such organizations as the National Association of Biology Teachers in opposing the inclusion of pseudo-sciences in the college's science curricula.

Credits	**4**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**3**

BI102: Biology

Second of a three-term laboratory science course sequence designed for non-biology majors.? Presents?an overview of?protein synthesis, cell division, genetics, animal reproduction and development, and evolution. Audit available.? ADDENDUM TO COURSE DESCRIPTION:? The format for this course is a traditional lecture and laboratory presentation. Lecture will be presented utilizing a variety of multimedia and interactive presentations. Laboratory experiences will be largely hands-on, team based and collaborative utilizing a variety of resources including but not limited to: multimedia, prepared microscope slides, human and animal specimens. Clarification of the teaching of evolution in the classroom: Science is a fundamentally non-dogmatic and self-correcting investigatory process. In science, a theory is neither a guess, dogma, nor myth. The theories developed through scientific investigation are not decided in advance, but can be and often are modified and revised through observation and experimentation. The theory of evolution meets the criteria of a scientific theory and is the major organizing theory in the discipline of the biological sciences. It will be presented as such in Tillamook Bay Community College science courses. In contrast, neither creation science, nor its derivatives, are self-examining nor investigatory. Creation science, and its derivatives, are not considered legitimate science, but a form of religious advocacy. This position is established by legal precedence (Webster v. New Lenox School District #122, 917 F. 2d 1004). The TBCC Biology faculty?stands with such organizations as the National Association of Biology Teachers in opposing the inclusion of pseudo-sciences in the college's science curricula.

Credits	**4**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**3**
Lec/Lab Hrs per Wk	**0**

BI 103: Biology

Third of a three-term laboratory science course sequence designed for non-biology majors. Presents overviews of taxonomy, organismic diversity, the evolutionary relationships among the kingdoms, ecology, population biology and the biosphere. Audit available.

Credits	**4**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**3**

BI103: Biology

Third of a three-term laboratory science course sequence designed for non-biology majors. Presents overviews of taxonomy, organismic diversity, the evolutionary relationships among the kingdoms, ecology, population biology and the biosphere. Audit available.

Credits	**4**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**3**
Lec/Lab Hrs per Wk	**0**

BI 112: Cell Biology for Health Occupations

Introduces the scientific method, while exploring cellular chemistry, cell structure and function, and the principles of inheritance, and laboratory methods. Includes topics and skills required to continue to Anatomy & Physiology and Microbiology. Audit available.

Credits	**5**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**4**

BI112: Cell Biology for Health Occupations

Introduces the scientific method, while exploring cellular chemistry, cell structure and function, and the principles of inheritance, and laboratory methods. Includes topics and skills required to continue to Anatomy & Physiology and Microbiology. Audit available.

Credits	**5**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**

BI 121: Intro. to Human Anatomy and Physiology I

Surveys anatomical terminology, basic chemistry, cell structure and function, tissues, and the following systems: integumentary, skeletal, muscular, and nervous. Involves lecture discussions complemented by physiological laboratory exercises, dissections, microscopy, and multimedia. Prerequisites: Placement into WR 121 and (MTH 70 or any math course for which this is a prerequisite). Audit available.

Credits	**4**
Lab Hrs per Wk	**1**
Lecture Hrs per Wk	**3**

BI121: Intro. to Human Anatomy and Physiology I

Surveys anatomical terminology, basic chemistry, cell structure and function, tissues, and the following systems: integumentary, skeletal, muscular, and nervous. Involves lecture discussions complemented by physiological laboratory exercises, dissections, microscopy, and multimedia. Prerequisites: Placement into WR 121 and (MTH 70 or any math course for which this is a prerequisite). Audit available.

Credits	**4**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**3**
Lec/Lab Hrs per Wk	**0**

BI 122: Intro. Human Anatomy and Physiology II

Surveys the endocrine, lymphatic, cardiovascular, digestive, respiratory, reproductive and urinary systems with some coverage of human development, human genetics, and immunology. Includes lectures, discussions and laboratories. Prerequisites: BI 121. Audit available.

Credits	**4**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**3**

BI122: Intro. Human Anatomy and Physiology II

Surveys the endocrine, lymphatic, cardiovascular, digestive, respiratory, reproductive and urinary systems with some coverage of human development, human genetics, and immunology. Includes lectures, discussions and laboratories. Prerequisites: BI 121. Audit available.

Credits	**4**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**3**
Lec/Lab Hrs per Wk	**0**

BI 220: Human Genetics

Lecture/discussion presentation of the fundamentals of human genetics. Includes physical basis of inheritance, the mechanics of inheritance, probability, sex chromosomal abnormalities, autosomal anomalies, gene structure and function, molecular genetics, behavioral genetics, twinning and contemporary issues in human genetics. Audit available.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**

BI220: Human Genetics

Lecture/discussion presentation of the fundamentals of human genetics. Includes physical basis of inheritance, the mechanics of inheritance, probability, sex chromosomal abnormalities, autosomal anomalies, gene structure and function, molecular genetics, behavioral genetics, twinning and contemporary issues in human genetics. Audit available.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**
Lec/Lab Hrs per Wk	**0**

BI 231: Human Anatomy and Physiology I

Introduces chemistry, cell, tissues, the integument, skeletal, muscular and excitable tissues. It is the first course of a three-course sequence. Includes lecture discussions complemented by laboratories involving microscopy, animal dissection, physiological exercises and computer based exercises. Prerequisites: BI 112 OR BI 221, OR BI 101 and BI 102. Audit available. ADDENDUM TO COURSE DESCRIPTION: The format for this course is a traditional lecture and laboratory presentation. Lecture will be presented utilizing a variety of multimedia and interactive presentations. Laboratory experiences will be largely hands-on, team based and collaborative utilizing a variety of resources including but not limited to: multimedia, prepared microscope slides, human and animal specimens. Clarification of the teaching of evolution in the classroom: Science is a fundamentally non-dogmatic and self-correcting investigatory process. In science, a theory is neither a guess, dogma, nor myth. The theories developed through scientific investigation are not decided in advance, but can be and often are modified and revised through observation and experimentation. The theory of evolution meets the criteria of a scientific theory and is the major organizing theory in the discipline of the biological sciences. It will be presented as such in Tillamook Bay Community College science courses. In contrast, neither creation science, nor its derivatives, are self-examining nor investigatory. Creation science, and its derivatives, are not considered legitimate science, but a form of religious advocacy. This position is established by legal precedence (Webster v. New Lenox School District #122, 917 F. 2d 1004). The TBCC Biology faculty stands with such organizations as the National Association of Biology Teachers in opposing the inclusion of pseudo-sciences in the college's science curricula.

Credits	**4**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**3**
Prerequisites	**BI11Z, WR121Z, MTH070**

BI231: Human Anatomy and Physiology I

Introduces chemistry, cell, tissues, the integument, skeletal, muscular and excitable tissues. It is the first course of a three-course sequence. Includes lecture discussions complemented by laboratories involving microscopy, animal dissection, physiological exercises and computer based exercises. Prerequisites: BI 112 OR BI 221, OR BI 101 and BI 102. Audit available. ADDENDUM TO COURSE DESCRIPTION: The format for this course is a traditional lecture and laboratory presentation. Lecture will be presented utilizing a variety of multimedia and interactive presentations. Laboratory experiences will be largely hands-on, team based and collaborative utilizing a variety of resources including but not limited to: multimedia, prepared microscope slides, human and animal specimens. Clarification of the teaching of evolution in the classroom: Science is a fundamentally non-dogmatic and self-correcting investigatory process. In science, a theory is neither a guess, dogma, nor myth. The theories developed through scientific investigation are not decided in advance, but can be and often are modified and revised through observation and experimentation. The theory of evolution meets the criteria of a scientific theory and is the major organizing theory in the discipline of the biological sciences. It will be presented as such in Tillamook Bay Community College science courses. In contrast, neither creation science, nor its derivatives, are self-examining nor investigatory. Creation science, and its derivatives, are not considered legitimate science, but a form of religious advocacy. This position is established by legal precedence (Webster v. New Lenox School District #122, 917 F. 2d 1004). The TBCC Biology faculty stands with such organizations as the National Association of Biology Teachers in opposing the inclusion of pseudo-sciences in the college's science curricula.

Credits	**4**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**3**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**BI11Z, WR121Z, MTH070**

BI 232: Human Anatomy and Physiology II

It is the second course of a three-course sequence. Covers the nervous, endocrine, and cardiovascular systems. Includes lecture discussions complemented by complemented by laboratories involving microscopy, animal dissection, physiological exercises and computer work such as computer simulation exercises. Prerequisite: BI 231 and its prerequisite. ADDENDUM TO COURSE DESCRIPTION: The format for this course is a traditional lecture and laboratory presentation. Lecture will be presented utilizing a variety of multimedia and interactive presentations. Laboratory experiences will be largely hands-on, team based and collaborative utilizing a variety of resources including but not limited to: multimedia, prepared microscope slides, human and animal specimens. Clarification of the teaching of evolution in the classroom: Science is a fundamentally non-dogmatic and self-correcting investigatory process. In science, a theory is neither a guess, dogma, nor myth. The theories developed through scientific investigation are not decided in advance, but can be and often are modified and revised through observation and experimentation. The theory of evolution meets the criteria of a scientific theory and is the major organizing theory in the discipline of the biological sciences. It will be presented as such in Tillamook Bay Community College science courses. In contrast, neither creation science, nor its derivatives, are self-examining nor investigatory. Creation science, and its derivatives, are not considered legitimate science, but a form of religious advocacy. This position is established by legal precedence (Webster v. New Lenox School District #122, 917 F. 2d 1004). The TBCC Biology faculty stands with such organizations as the National Association of Biology Teachers in opposing the inclusion of pseudo-sciences in the college's science curricula.

Credits	**4**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**3**
Prerequisites	**BI231**

BI232: Human Anatomy and Physiology II

It is the second course of a three-course sequence. Covers the nervous, endocrine, and cardiovascular systems. Includes lecture discussions complemented by complemented by laboratories involving microscopy, animal dissection, physiological exercises and computer work such as computer simulation exercises. Prerequisite: BI 231 and its prerequisite. ADDENDUM TO COURSE DESCRIPTION: The format for this course is a traditional lecture and laboratory presentation. Lecture will be presented utilizing a variety of multimedia and interactive presentations. Laboratory experiences will be largely hands-on, team based and collaborative utilizing a variety of resources including but not limited to: multimedia, prepared microscope slides, human and animal specimens. Clarification of the teaching of evolution in the classroom: Science is a fundamentally non-dogmatic and self-correcting investigatory process. In science, a theory is neither a guess, dogma, nor myth. The theories developed through scientific investigation are not decided in advance, but can be and often are modified and revised through observation and experimentation. The theory of evolution meets the criteria of a scientific theory and is the major organizing theory in the discipline of the biological sciences. It will be presented as such in Tillamook Bay Community College science courses. In contrast, neither creation science, nor its derivatives, are self-examining nor investigatory. Creation science, and its derivatives, are not considered legitimate science, but a form of religious advocacy. This position is established by legal precedence (Webster v. New Lenox School District #122, 917 F. 2d 1004). The TBCC Biology faculty stands with such organizations as the National Association of Biology Teachers in opposing the inclusion of pseudo-sciences in the college's science curricula.

Credits	**4**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**3**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**BI231**

BI 233: Human Anatomy and Physiology III

It is the third course of a three-course sequence. Covers the respiratory, digestive, urinary and reproductive systems, metabolism and fluid and electrolyte balances; embryology and genetics. Includes lecture discussions complemented by complemented by laboratories involving microscopy, animal dissection, physiological exercises and computer work such as computer simulation exercises. Prerequisite: BI 232 and its prerequisite. ADDENDUM TO COURSE DESCRIPTION: The format for this course is a traditional lecture and laboratory presentation. Lecture will be presented utilizing a variety of multimedia and interactive presentations. Laboratory experiences will be largely hands-on, team based and collaborative utilizing a variety of resources including but not limited to: multimedia, prepared microscope slides, human and animal specimens. Clarification of the teaching of evolution in the classroom: Science is a fundamentally non-dogmatic and self-correcting investigatory process. In science, a theory is neither a guess, dogma, nor myth. The theories developed through scientific investigation are not decided in advance, but can be and often are modified and revised through observation and experimentation. The theory of evolution meets the criteria of a scientific theory and is the major organizing theory in the discipline of the biological sciences. It will be presented as such in Tillamook Bay Community College science courses. In contrast, neither creation science, nor its derivatives, are self-examining nor investigatory. Creation science, and its derivatives, are not considered legitimate science, but a form of religious advocacy. This position is established by legal precedence (Webster v. New Lenox School District #122, 917 F. 2d 1004). The TBCC Biology faculty stands with such organizations as the National Association of Biology Teachers in opposing the inclusion of pseudo-sciences in the college's science curricula.

Credits	**4**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**3**
Prerequisites	**BI232**

BI233: Human Anatomy and Physiology III

It is the third course of a three-course sequence. Covers the respiratory, digestive, urinary and reproductive systems, metabolism and fluid and electrolyte balances; embryology and genetics. Includes lecture discussions complemented by complemented by laboratories involving microscopy, animal dissection, physiological exercises and computer work such as computer simulation exercises. Prerequisite: BI 232 and its prerequisite. ADDENDUM TO COURSE DESCRIPTION: The format for this course is a traditional lecture and laboratory presentation. Lecture will be presented utilizing a variety of multimedia and interactive presentations. Laboratory experiences will be largely hands-on, team based and collaborative utilizing a variety of resources including but not limited to: multimedia, prepared microscope slides, human and animal specimens. Clarification of the teaching of evolution in the classroom: Science is a fundamentally non-dogmatic and self-correcting investigatory process. In science, a theory is neither a guess, dogma, nor myth. The theories developed through scientific investigation are not decided in advance, but can be and often are modified and revised through observation and experimentation. The theory of evolution meets the criteria of a scientific theory and is the major organizing theory in the discipline of the biological sciences. It will be presented as such in Tillamook Bay Community College science courses. In contrast, neither creation science, nor its derivatives, are self-examining nor investigatory. Creation science, and its derivatives, are not considered legitimate science, but a form of religious advocacy. This position is established by legal precedence (Webster v. New Lenox School District #122, 917 F. 2d 1004). The TBCC Biology faculty stands with such organizations as the National Association of Biology Teachers in opposing the inclusion of pseudo-sciences in the college's science curricula.

Credits	**4**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**3**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**BI232**

BI 234: Microbiology

Lecture, recitation, and laboratory cover: bacterial identification, morphology, metabolism and genetics; bacterial, viral, and parasitic relationships with human health and disease; and basic immunology. Laboratory stresses aseptic technique, bacterial identification and physiology using a variety of media, culturing techniques, and staining techniques. Prerequisites: BI 112 or BI 221 or BI 101 and BI 102. Audit available. ADDENDUM TO COURSE DESCRIPTION: The format for this course is a traditional lecture and laboratory presentation. Lecture will be presented utilizing a variety of multimedia and interactive presentations. Laboratory experiences will be largely hands-on, team based and collaborative utilizing a variety of resources including but not limited to: multimedia, prepared microscope slides, human and animal specimens. Clarification of the teaching of evolution in the classroom Science is a fundamentally non-dogmatic and self-correcting investigatory process. In science, a theory is neither a guess, dogma, nor myth. The theories developed through scientific investigation are not decided in advance, but can be and often are modified and revised through observation and experimentation. The theory of evolution meets the criteria of a scientific theory and is the major organizing theory in the discipline of the biological sciences. It will be presented as such in Tillamook Bay Community College science courses. In contrast, neither creation science, nor its derivatives, are self-examining nor investigatory. Creation science, and its derivatives, are not considered legitimate science, but a form of religious advocacy. This position is established by legal precedence (Webster v. New Lenox School District #122, 917 F. 2d 1004). The TBCC Biology faculty stands with such organizations as the National Association of Biology Teachers in opposing the inclusion of pseudo-sciences in the college's science curricula

Credits	**5**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**4**
Prerequisites	**BI112, BI221Z**

BI234: Microbiology

Lecture, recitation, and laboratory cover: bacterial identification, morphology, metabolism and genetics; bacterial, viral, and parasitic relationships with human health and disease; and basic immunology. Laboratory stresses aseptic technique, bacterial identification and physiology using a variety of media, culturing techniques, and staining techniques. Prerequisites: BI 112 or BI 221 or BI 101 and BI 102. Audit available. ADDENDUM TO COURSE DESCRIPTION: The format for this course is a traditional lecture and laboratory presentation. Lecture will be presented utilizing a variety of multimedia and interactive presentations. Laboratory experiences will be largely hands-on, team based and collaborative utilizing a variety of resources including but not limited to: multimedia, prepared microscope slides, human and animal specimens. Clarification of the teaching of evolution in the classroom Science is a fundamentally non-dogmatic and self-correcting investigatory process. In science, a theory is neither a guess, dogma, nor myth. The theories developed through scientific investigation are not decided in advance, but can be and often are modified and revised through observation and experimentation. The theory of evolution meets the criteria of a scientific theory and is the major organizing theory in the discipline of the biological sciences. It will be presented as such in Tillamook Bay Community College science courses. In contrast, neither creation science, nor its derivatives, are self-examining nor investigatory. Creation science, and its derivatives, are not considered legitimate science, but a form of religious advocacy. This position is established by legal precedence (Webster v. New Lenox School District #122, 917 F. 2d 1004). The TBCC Biology faculty stands with such organizations as the National Association of Biology Teachers in opposing the inclusion of pseudo-sciences in the college's science curricula

Credits	**5**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**BI112, BI221Z**

Business Administration Program

BA 101Z: Introduction to Business

Presents an integrated view of both established and entrepreneurial businesses by studying their common characteristics and processes in a global context. Introduces theory and develops basic skills in the areas of accounting, finance, management, and marketing, with an emphasis on social responsibility and ethical practices. Explores how businesses can create value for themselves and society by addressing environmental and social challenges. Recommended: RDWR 115 and MTH 105 or equivalent placement test scores.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**

BA101Z: Introduction to Business

Presents an integrated view of both established and entrepreneurial businesses by studying their common characteristics and processes in a global context. Introduces theory and develops basic skills in the areas of accounting, finance, management, and marketing, with an emphasis on social responsibility and ethical practices. Explores how businesses can create value for themselves and society by addressing environmental and social challenges. Recommended: RDWR 115 and MTH 105 or equivalent placement test scores.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**

BA 111: Introduction to Accounting

Introduction to Accounting Presents double-entry accounting as related to service and merchandising business. Covers accounting cycle, including journalizing, posting to the general ledger, preparation of financial statements, petty cash, bank reconciliations, combined journal, special journals and payroll. Recommended: RDWR 115 and MTH 105 or equivalent placement test scores.

Credits	**3**

BA111: Introduction to Accounting

Introduction to Accounting Presents double-entry accounting as related to service and merchandising business. Covers accounting cycle, including journalizing, posting to the general ledger, preparation of financial statements, petty cash, bank reconciliations, combined journal, special journals and payroll. Recommended: RDWR 115 and MTH 105 or equivalent placement test scores.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**
Lec/Lab Hrs per Wk	**0**

BA 120: Project Management Fundamentals

Foundational course in project management. Students gain a thorough grounding in project management principles and techniques, including project life cycle, chartering, stakeholder management, work/task breakdown, network diagram and critical path, contingency planning, resource allocation, and project monitoring, and reporting. Recommended: RDWR 115 or equivalent placement test scores; BA 101.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**

BA120: Project Management Fundamentals

Foundational course in project management. Students gain a thorough grounding in project management principles and techniques, including project life cycle, chartering, stakeholder management, work/task breakdown, network diagram and critical path, contingency planning, resource allocation, and project monitoring, and reporting. Recommended: RDWR 115 or equivalent placement test scores; BA 101.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**
Lec/Lab Hrs per Wk	**0**

BA 131: Introduction to Business Technology

Explores computer concepts and the use of information technology in business organizations including the use of word processing, spreadsheet, and presentation software. Includes introduction to hardware, software, databases, system development, and tools that businesses use for communication and collaboration. Recommended: RDWR 115 and MTH 105 or equivalent placement test scores; BA 101.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**

BA131: Introduction to Business Technology

Explores computer concepts and the use of information technology in business organizations including the use of word processing, spreadsheet, and presentation software. Includes introduction to hardware, software, databases, system development, and tools that businesses use for communication and collaboration. Recommended: RDWR 115 and MTH 105 or equivalent placement test scores; BA 101.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**

BA 133: Introduction to Microsoft Office

Provides an overview of Microsoft Office desktop version and 365 while covering introductory skills in Word, Excel, and PowerPoint. This course covers file management and submitting files to LMS assignment dropboxes. Recommended: RDWR 115 or equivalent.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**

BA133: Introduction to Microsoft Office

Provides an overview of Microsoft Office desktop version and 365 while covering introductory skills in Word, Excel, and PowerPoint. This course covers file management and submitting files to LMS assignment dropboxes. Recommended: RDWR 115 or equivalent.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**

BA 150: Introduction to Entrepreneurship

Introduces students to the process for launching a business by providing a learning combination of classroom sessions and real-world experiences. The ultimate goal is to prepare individuals to launch a real business. Recommended: RDWR 115 and MTH 105 or equivalent placement test scores; BA 101.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**

BA150: Introduction to Entrepreneurship

Introduces students to the process for launching a business by providing a learning combination of classroom sessions and real-world experiences. The ultimate goal is to prepare individuals to launch a real business. Recommended: RDWR 115 and MTH 105 or equivalent placement test scores; BA 101.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**
Lec/Lab Hrs per Wk	**0**

BA 169Z: Data Analysis Using Microsoft Excel

Covers Microsoft Excel software skills necessary for evidence-based problem-solving, including workbook editing, formula creation, charting, and pivot tables. Emphasizes hands-on learning using Excel functions to perform data analysis to enhance decision-making. Recommended: BA 133.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**

BA169Z: Data Analysis Using Microsoft Excel

Covers Microsoft Excel software skills necessary for evidence-based problem-solving, including workbook editing, formula creation, charting, and pivot tables. Emphasizes hands-on learning using Excel functions to perform data analysis to enhance decision-making. Recommended: BA 133.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**

BA 177: Payroll Accounting

Learn fundamental skills and basic knowledge in the area of business payroll. The focus of this course is primarily in payroll and personnel record keeping. Includes calculation of gross pay using various methods, Social Security and Medicare taxes, federal and state income taxes, federal and state unemployment taxes, journaling and posting payroll entries, and completing various federal and state forms. Prerequisites: BA 111 or BA 211 or instructor permission. Recommended: RDWR 115 and MTH 105 or equivalent placement test scores.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**
Prerequisites	**BA111, BA211Z**

BA177: Payroll Accounting

Learn fundamental skills and basic knowledge in the area of business payroll. The focus of this course is primarily in payroll and personnel record keeping. Includes calculation of gross pay using various methods, Social Security and Medicare taxes, federal and state income taxes, federal and state unemployment taxes, journaling and posting payroll entries, and completing various federal and state forms. Prerequisites: BA 111 or BA 211 or instructor permission. Recommended: RDWR 115 and MTH 105 or equivalent placement test scores.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**BA111, BA211Z**

BA 205: Business Communication

Explores the use of current technology, library sources, and internet resources to collect, create, revise, and design business documents such as letters, memos, e-mail, minutes, instructions, reports, and speeches. Recommended: RDWR 115 and MTH 105 or equivalent placement test scores; BA 101.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**

BA205: Business Communication

Explores the use of current technology, library sources, and internet resources to collect, create, revise, and design business documents such as letters, memos, e-mail, minutes, instructions, reports, and speeches. Recommended: RDWR 115 and MTH 105 or equivalent placement test scores; BA 101.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**

BA 206: Management Fundamentals

Introduces business management theory, including the basic functions of planning, organizing, leading, and controlling as well as factors contributing to change in current management approaches. Recommended: RDWR 115 and MTH 105 or equivalent placement test scores; BA 101.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**

BA206: Management Fundamentals

Introduces business management theory, including the basic functions of planning, organizing, leading, and controlling as well as factors contributing to change in current management approaches. Recommended: RDWR 115 and MTH 105 or equivalent placement test scores; BA 101.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**
Lec/Lab Hrs per Wk	**0**

BA 211Z: Principles of Financial Accounting

Imparts an understanding of the purpose of accounting, common financial statement items, and the principles of internal controls. Focuses on recording the impact of economic events on account balances using U.S. Generally Accepted Accounting Principles, and the creation and analysis of financial statements to aid in external decision making. Recommended: RDWR 115 and MTH 105 or equivalent placement test scores; BA 111.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**

BA211Z: Principles of Financial Accounting

Imparts an understanding of the purpose of accounting, common financial statement items, and the principles of internal controls. Focuses on recording the impact of economic events on account balances using U.S. Generally Accepted Accounting Principles, and the creation and analysis of financial statements to aid in external decision making. Recommended: RDWR 115 and MTH 105 or equivalent placement test scores; BA 111.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**

BA 212: Principles of Accounting II

Continues the presentation of accounting fundamentals introduced in BA 211. Introduces statement of cash flows and financial statement analysis. Prerequisite: BA 211.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Prerequisites	**BA211Z**

BA212: Principles of Accounting II

Continues the presentation of accounting fundamentals introduced in BA 211. Introduces statement of cash flows and financial statement analysis. Prerequisite: BA 211.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**BA211Z**

BA 213Z: Principles of Managerial Accounting

Builds an understanding of the role of managerial accounting in a business, focusing on the development and use of information to evaluate production costs and operational performance in support of short- and long-term organizational decision-making. Prerequisite: BA 211.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Prerequisites	**BA211Z**

BA213Z: Principles of Managerial Accounting

Builds an understanding of the role of managerial accounting in a business, focusing on the development and use of information to evaluate production costs and operational performance in support of short- and long-term organizational decision-making. Prerequisite: BA 211.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**BA211Z**

BA 214: Lean Manufacturing and Process Control

Provides instruction in concepts of quality, value, industrial standards, and lean manufacturing methods involving the improvement of industrial efficiency and production. The course also covers the use of statistical process control to improve maintenance and production processes along with Six Sigma techniques and strategies used to make databased decisions within manufacturing or service environments to improve customer satisfaction, products, processes, and quality. Recommended: RDWR 115 and MTH 105 or equivalent placement test scores; BA 101.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**

BA214: Lean Manufacturing and Process Control

Provides instruction in concepts of quality, value, industrial standards, and lean manufacturing methods involving the improvement of industrial efficiency and production. The course also covers the use of statistical process control to improve maintenance and production processes along with Six Sigma techniques and strategies used to make databased decisions within manufacturing or service environments to improve customer satisfaction, products, processes, and quality. Recommended: RDWR 115 and MTH 105 or equivalent placement test scores; BA 101.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**
Lec/Lab Hrs per Wk	**0**

BA 218: Personal Finance

Explores the role of the consumer in our economy, problems of financing family, business and individual needs, including budgeting, banking relationships, borrowing, insurance, risk management, real estate, investing, portfolio management, retirement and personal taxes. Recommended: RDWR 115 and MTH 20 or equivalent placement test scores

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**

BA218: Personal Finance

Explores the role of the consumer in our economy, problems of financing family, business and individual needs, including budgeting, banking relationships, borrowing, insurance, risk management, real estate, investing, portfolio management, retirement and personal taxes. Recommended: RDWR 115 and MTH 20 or equivalent placement test scores

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**
Lec/Lab Hrs per Wk	**0**

BA 220: Entrepreneurial Startup

Explores the general functions and processes related to initiating, organizing, and operating a successful entrepreneurial business. The course prepares students for developing a business plan. Recommended: RDWR 115 and MTH 105 or equivalent placement test scores; BA 101 and BA 150. Apply analytical skills in reviewing financial statements and plans. Choose an appropriate legal form of business. Assess the tax implications of a small business.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**

BA220: Entrepreneurial Startup

Explores the general functions and processes related to initiating, organizing, and operating a successful entrepreneurial business. The course prepares students for developing a business plan. Recommended: RDWR 115 and MTH 105 or equivalent placement test scores; BA 101 and BA 150. Apply analytical skills in reviewing financial statements and plans. Choose an appropriate legal form of business. Assess the tax implications of a small business.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**
Lec/Lab Hrs per Wk	**0**

BA 222: Financial Management

Covers basic financial concepts and practices and includes analysis of company resources, types and sources of financing, forecasting and planning methods, and the roles of the money and capital markets. Recommended: RDWR 115 and MTH 105 or equivalent placement test scores; BA 212.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**

BA222: Financial Management

Covers basic financial concepts and practices and includes analysis of company resources, types and sources of financing, forecasting and planning methods, and the roles of the money and capital markets. Recommended: RDWR 115 and MTH 105 or equivalent placement test scores; BA 212.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**
Lec/Lab Hrs per Wk	**0**

BA 223: Principles of Marketing

Explores a general knowledge of marketing emphasizing marketing mix elements and target markets for consumer and industrial products, marketing strategies, customer behavior, market planning and promotion. Recommended: RDWR 115 and MTH 105 or equivalent placement test scores; BA 101.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**

BA223: Principles of Marketing

Explores a general knowledge of marketing emphasizing marketing mix elements and target markets for consumer and industrial products, marketing strategies, customer behavior, market planning and promotion. Recommended: RDWR 115 and MTH 105 or equivalent placement test scores; BA 101.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**

BA 224: Human Resource Management

Introduces how human resources management contributes to a business through recruitment; selection; training and development; compensation and benefits; performance appraisal; and departure. Includes wage and salary administration; employment and job rights; discipline and due process; and labor-management relations. Recommended: RDWR 115 and MTH 105 or equivalent placement test scores; BA 101.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**

BA224: Human Resource Management

Introduces how human resources management contributes to a business through recruitment; selection; training and development; compensation and benefits; performance appraisal; and departure. Includes wage and salary administration; employment and job rights; discipline and due process; and labor-management relations. Recommended: RDWR 115 and MTH 105 or equivalent placement test scores; BA 101.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**
Lec/Lab Hrs per Wk	**0**

BA 225: Applied Knowledge and Skills for HR Professionals

Integrates HR experiences with real-world application by exploring talent acquisition, performance, development, compensation, benefits, and retention. Promoting best practice strategies for a healthy, effective HR environment. Recommended: RDWR 115 or equivalent; BA 101.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**

BA225: Applied Knowledge and Skills for HR Professionals

Integrates HR experiences with real-world application by exploring talent acquisition, performance, development, compensation, benefits, and retention. Promoting best practice strategies for a healthy, effective HR environment. Recommended: RDWR 115 or equivalent; BA 101.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**

BA 226Z: Introduction to Business Law

Provides a comprehensive overview of U.S. business law, including the legal system, contracts, torts, intellectual property, agency, employment, and business organization forms. Emphasizes practical legal knowledge and explores how laws impact business operations, with a focus on risk management, contract disputes, business formation, and compliance with government regulation. Introduces legal challenges in business through real cases and legal terminology. Recommended: RDWR 115 or equivalent placement test scores; BA 101.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**

BA226Z: Introduction to Business Law

Provides a comprehensive overview of U.S. business law, including the legal system, contracts, torts, intellectual property, agency, employment, and business organization forms. Emphasizes practical legal knowledge and explores how laws impact business operations, with a focus on risk management, contract disputes, business formation, and compliance with government regulation. Introduces legal challenges in business through real cases and legal terminology. Recommended: RDWR 115 or equivalent placement test scores; BA 101.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**

BA 228: Computer Accounting Applications

Introduces double-entry, full integrated computerized general ledger software. Topics include general ledger, accounts receivable, accounts payable, payroll, fixed assets, bank reconciliations, and inventory. Recommended: RDWR 115 and MTH 105 or equivalent placement test scores; BA 111, BA 211, and CAS 133.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**

BA228: Computer Accounting Applications

Introduces double-entry, full integrated computerized general ledger software. Topics include general ledger, accounts receivable, accounts payable, payroll, fixed assets, bank reconciliations, and inventory. Recommended: RDWR 115 and MTH 105 or equivalent placement test scores; BA 111, BA 211, and CAS 133.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**

BA 230: Entrepreneurial Marketing

Explores specific topics and challenges related to marketing as successful entrepreneurial business. The ultimate goal is to prepare individuals to launch a real business. Recommended: RDWR 115 and MTH 105 or equivalent placement test scores; BA 101.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**

BA230: Entrepreneurial Marketing

Explores specific topics and challenges related to marketing as successful entrepreneurial business. The ultimate goal is to prepare individuals to launch a real business. Recommended: RDWR 115 and MTH 105 or equivalent placement test scores; BA 101.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**
Lec/Lab Hrs per Wk	**0**

BA 232: Professional Workplace Fundamentals

Fundamental course that provides an overview of business etiquette; interoffice relations and teamwork; and business customs, routines, tasks and procedures. Recommended: RDWR 115 or equivalent placement; BA 101.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**0**

BA232: Professional Workplace Fundamentals

Fundamental course that provides an overview of business etiquette; interoffice relations and teamwork; and business customs, routines, tasks and procedures. Recommended: RDWR 115 or equivalent placement; BA 101.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**

BA 250: Small Business Management

Provides the background concepts and practices necessary for a successful owner and/or operator. This course emphasizes the general functions, procedures, and specific subject areas related to initiating, organizing, and operating a successful small business. Recommended: RDWR 115 and MTH 105 or equivalent placement test scores; BA 101.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**

BA250: Small Business Management

Provides the background concepts and practices necessary for a successful owner and/or operator. This course emphasizes the general functions, procedures, and specific subject areas related to initiating, organizing, and operating a successful small business. Recommended: RDWR 115 and MTH 105 or equivalent placement test scores; BA 101.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**
Lec/Lab Hrs per Wk	**0**

BA 256: Income Tax

Introduces preparation of federal individual and sole proprietorship income tax returns. Provides brief overview of partnership and corporate returns. Recommended: RDWR 115 and MTH 105 or equivalent placement test scores; BA 211 and BA 212

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**

BA256: Income Tax

Introduces preparation of federal individual and sole proprietorship income tax returns. Provides brief overview of partnership and corporate returns. Recommended: RDWR 115 and MTH 105 or equivalent placement test scores; BA 211 and BA 212

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**
Lec/Lab Hrs per Wk	**0**

BA 277: Business Ethics

Explores contemporary ethical theories and issues, including corporate social responsibility, that arise in business management, marketing, accounting, and operations. Individual and corporate decision-making will be examined in a rational, responsible, and decisive manner within a global worldview. Recommended: RDWR 115 and MTH 105 or equivalent placement test scores; BA 101.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**

BA277: Business Ethics

Explores contemporary ethical theories and issues, including corporate social responsibility, that arise in business management, marketing, accounting, and operations. Individual and corporate decision-making will be examined in a rational, responsible, and decisive manner within a global worldview. Recommended: RDWR 115 and MTH 105 or equivalent placement test scores; BA 101.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**

BA 280: Cooperative Education - Business Experience

Students earn credit for learning from practical experience at a worksite related to their major or career goal. Appropriate work experiences provide opportunities for new learning and skill development. The department recommends students take it in one of the two terms prior to degree completion. BA 280 is a P/NP grade; BA 280 may be repeated up to 12 credits Recommended: RDWR 115 and MTH 105 or equivalent placement test scores; BA 101.

Credits	**3**
Lab Hrs per Wk	**9**
Lecture Hrs per Wk	**0**

BA280: Cooperative Education - Business Experience

Students earn credit for learning from practical experience at a worksite related to their major or career goal. Appropriate work experiences provide opportunities for new learning and skill development. The department recommends students take it in one of the two terms prior to degree completion. BA 280 is a P/NP grade; BA 280 may be repeated up to 12 credits Recommended: RDWR 115 and MTH 105 or equivalent placement test scores; BA 101.

Credits	**3**
Lab Hrs per Wk	**9**
Lecture Hrs per Wk	**0**
Lec/Lab Hrs per Wk	**0**

BA 285: Human Relations in Organizations

Explores interactions involving individual behavior, team dynamics, and organizational processes in organizations. This course explores dynamics examining human perceptions, communications, group interactions, leadership, change, cultural diversity, ethics, and diversity. Recommended: RDWR 115 and MTH 105 or equivalent placement test scores; BA 101.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**

BA285: Human Relations in Organizations

Explores interactions involving individual behavior, team dynamics, and organizational processes in organizations. This course explores dynamics examining human perceptions, communications, group interactions, leadership, change, cultural diversity, ethics, and diversity. Recommended: RDWR 115 and MTH 105 or equivalent placement test scores; BA 101.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**
Lec/Lab Hrs per Wk	**0**

BA 290: Business Seminar

Capstone course for all specializations in the Associate of Applied Science degree in Business Administration. Provides an opportunity for the student to demonstrate all they have learned in the areas of accounting, management, marketing and operations. Required: 2nd year BA students and instructor approval.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**

BA290: Business Seminar

Capstone course for all specializations in the Associate of Applied Science degree in Business Administration. Provides an opportunity for the student to demonstrate all they have learned in the areas of accounting, management, marketing and operations. Required: 2nd year BA students and instructor approval.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**

BI 221Z: Principles of Biology: Cells

Explores fundamental biological concepts and theories about the cellular and molecular basis of life including cell structure and function, metabolism, genetic basis of inheritance and how information flows from DNA to proteins, with a focus on the iterative process of science. Intended for science majors. Audit available.

Credits	**5**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**4**

BI221Z: Principles of Biology: Cells

Explores fundamental biological concepts and theories about the cellular and molecular basis of life including cell structure and function, metabolism, genetic basis of inheritance and how information flows from DNA to proteins, with a focus on the iterative process of science. Intended for science majors. Audit available.

Credits	**5**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**

BI 222Z: Principles of Biology: Organisms

Explores fundamental biological concepts and theories about the structure and function of diverse organisms (including plants and animals), evolution and development, transformation of energy and matter, and body systems at a multicellular organismal level. Intended for science majors. Audit available.

Credits	**5**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**4**

BI222Z: Principles of Biology: Organisms

Explores fundamental biological concepts and theories about the structure and function of diverse organisms (including plants and animals), evolution and development, transformation of energy and matter, and body systems at a multicellular organismal level. Intended for science majors. Audit available.

Credits	**5**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**

BI 223Z: Principles of Biology: Ecology andEvolution

The third course of a three-course sequence for students majoring in biology and the sciences, including pre-medical, pre-dental, chiropractic, pharmacy, and related fields. This course examines fundamental biological concepts and theories about diversity, evolution, and ecology; specifically, evolutionary relationship, transformation of energy and matter, information flow and systems at a population level or above. Audit available.

Credits	**5**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**4**

BI223Z: Principles of Biology: Ecology andEvolution

The third course of a three-course sequence for students majoring in biology and the sciences, including pre-medical, pre-dental, chiropractic, pharmacy, and related fields. This course examines fundamental biological concepts and theories about diversity, evolution, and ecology; specifically, evolutionary relationship, transformation of energy and matter, information flow and systems at a population level or above. Audit available.

Credits	**5**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**

Career Guidance & Student Success Program

CG 100: College Survival and Success

Provides information and techniques for studying, campus connection, time management, financial management, and goal setting, including motivation, career exploration, and accepting personal responsibility for college success. Includes developing skills for navigating a culturally diverse learning environment and utilizing college resources and services. TBCC strongly recommends this course be taken in a student's first term at TBCC.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**

CG100: College Survival and Success

Provides information and techniques for studying, campus connection, time management, financial management, and goal setting, including motivation, career exploration, and accepting personal responsibility for college success. Includes developing skills for navigating a culturally diverse learning environment and utilizing college resources and services. TBCC strongly recommends this course be taken in a student's first term at TBCC.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**
Lec/Lab Hrs per Wk	**0**

CG 105: Finding the Money: ScholarshipEssay Writing

Teaches students to write effective scholarship essays and develop their own personal essays from initial draft to final essay format. This class explores resources for funding college education, and strategies for effective research via the Internet. Pre-requisite: RDWR 115 (may be taken concurrently.)

Credits	**1**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**1**
Prerequisites	**RDWR115**

CG105: Finding the Money: ScholarshipEssay Writing

Teaches students to write effective scholarship essays and develop their own personal essays from initial draft to final essay format. This class explores resources for funding college education, and strategies for effective research via the Internet. Pre-requisite: RDWR 115 (may be taken concurrently.)

Credits	**1**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**1**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**RDWR115**

CG 112: Managing Test Anxiety

Provides strategies to overcome barriers to effective test-taking to improve overall test performance. Test preparation and test anxiety are examined.

Credits	**1**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**1**

CG112: Managing Test Anxiety

Provides strategies to overcome barriers to effective test-taking to improve overall test performance. Test preparation and test anxiety are examined.

Credits	**1**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**1**
Lec/Lab Hrs per Wk	**0**

CG 140C: Career and Life Planning

Provides tools and resources for making informed career decisions. Covers assessing career confidence and readiness, skills, values, interests, personality, barriers, lifestyle, education and approaches to decision making. Covers how to research career information. Includes educational decision-making which covers determining a field or program of study, and college or training program. Audit available.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**

CG140C: Career and Life Planning

Provides tools and resources for making informed career decisions. Covers assessing career confidence and readiness, skills, values, interests, personality, barriers, lifestyle, education and approaches to decision making. Covers how to research career information. Includes educational decision-making which covers determining a field or program of study, and college or training program. Audit available.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**
Lec/Lab Hrs per Wk	**0**

CG 280: Career Work Experience

Chemistry Program

CH 151: Preparatory Chemistry

This introductory course focuses on basic principles of chemistry and related computational problems. An emphasis is placed on developing analytical, reasoning, and problem solving skills. This course is designed to prepare students who have no previous chemistry experience in chemistry from high school or college for the 200 level general chemistry series. Prerequisites: WR 115 and MTH 70 or equivalent placement test scores. Audit available

Credits	**5**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**4**

CH151: Preparatory Chemistry

This introductory course focuses on basic principles of chemistry and related computational problems. An emphasis is placed on developing analytical, reasoning, and problem solving skills. This course is designed to prepare students who have no previous chemistry experience in chemistry from high school or college for the 200 level general chemistry series. Prerequisites: WR 115 and MTH 70 or equivalent placement test scores. Audit available

Credits	**5**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**

CH 221Z: General Chemistry I

Explores and applies principles and applications of chemistry. Emphasis on measurement, components of matter, atomic and molecular structure, quantitative relationships including foundational stoichiometry, and major classes of chemical reactions. CH/CHE/CHEM 221Z is a lecture course; CH/CHE/CHEM 227Z is the laboratory component. Audit available. Co-requisites: CH 221Z and CH 227Z must be taken together.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**

CH221Z: General Chemistry I

Explores and applies principles and applications of chemistry. Emphasis on measurement, components of matter, atomic and molecular structure, quantitative relationships including foundational stoichiometry, and major classes of chemical reactions. CH/CHE/CHEM 221Z is a lecture course; CH/CHE/CHEM 227Z is the laboratory component. Audit available. Co-requisites: CH 221Z and CH 227Z must be taken together.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**

CH 222Z: General Chemistry II

Explores and applies principles presented in CH/CHE/CHEM 221Z to the study of the solid, liquid, and gaseous states of matter. Principles of stoichiometry, thermochemistry, kinetics, and foundational equilibrium are explored and applied to the study of aqueous and gas phase chemical reactions. CH/CHE/CHEM 222Z is a lecture course; CH/CHE/CHEM 228Z is the laboratory component. Audit available. Co-requisites: CH 222Z and CH 228Z must be taken together. Prerequisites: CH 221Z and CH 227Z.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Prerequisites	**CH221Z, CH227Z**

CH222Z: General Chemistry II

Explores and applies principles presented in CH/CHE/CHEM 221Z to the study of the solid, liquid, and gaseous states of matter. Principles of stoichiometry, thermochemistry, kinetics, and foundational equilibrium are explored and applied to the study of aqueous and gas phase chemical reactions. CH/CHE/CHEM 222Z is a lecture course; CH/CHE/CHEM 228Z is the laboratory component. Audit available. Co-requisites: CH 222Z and CH 228Z must be taken together. Prerequisites: CH 221Z and CH 227Z.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**CH221Z, CH227Z**

CH 223Z: General Chemistry III

Builds upon the principles presented in CH/CHE/CHEM 222Z, explores thermodynamics and chemical equilibrium, and applies them to the study of aqueous acid-base reactions, solubility, and electrochemistry. CH/CHE/CHEM 223Z is a lecture course; CH/CHE/CHEM 229Z is the laboratory component. Audit Available. Co-requisites: CH 223Z and CH 229Z must be taken together. Prerequisites: CH 222Z and CH 228Z.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Prerequisites	**CH222Z, CH228Z**

CH223Z: General Chemistry III

Builds upon the principles presented in CH/CHE/CHEM 222Z, explores thermodynamics and chemical equilibrium, and applies them to the study of aqueous acid-base reactions, solubility, and electrochemistry. CH/CHE/CHEM 223Z is a lecture course; CH/CHE/CHEM 229Z is the laboratory component. Audit Available. Co-requisites: CH 223Z and CH 229Z must be taken together. Prerequisites: CH 222Z and CH 228Z.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**CH222Z, CH228Z**

CH 227Z: General Chemistry I Laboratory

Experiments correspond to the topics covered in CH/CHE/CHEM 221Z including the fundamentals of chemical measurements, quantitative relationships in chemical analysis, and understanding atomic and molecular structure. CH/CHE/CHEM 227Z is the laboratory component; CH/CHE/CHEM 221Z is the lecture course. Co-requisites: CH 221Z and CH 227Z must be taken together.

Credits	**1**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**0**

CH227Z: General Chemistry I Laboratory

Experiments correspond to the topics covered in CH/CHE/CHEM 221Z including the fundamentals of chemical measurements, quantitative relationships in chemical analysis, and understanding atomic and molecular structure. CH/CHE/CHEM 227Z is the laboratory component; CH/CHE/CHEM 221Z is the lecture course. Co-requisites: CH 221Z and CH 227Z must be taken together.

Credits	**1**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**0**
Lec/Lab Hrs per Wk	**0**

CH 228Z: General Chemistry II Laboratory

Experiments correspond to the topics covered in CH/CHE/CHEM 222Z including the fundamentals of intermolecular interactions, stoichiometric relationships, chemical equilibria and their application to the synthesis, identification, and analysis of chemical compounds. CH/CHE/CHEM 228Z is the laboratory component; CH/CHE/CHEM 222Z is the lecture course. Audit available. Co-requisites: CH 222Z and CH 228Z must be taken together. Prerequisites: CH 221Z and CH 227Z.

Credits	**1**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**0**
Prerequisites	**CH221Z, CH227Z**

CH228Z: General Chemistry II Laboratory

Experiments correspond to the topics covered in CH/CHE/CHEM 222Z including the fundamentals of intermolecular interactions, stoichiometric relationships, chemical equilibria and their application to the synthesis, identification, and analysis of chemical compounds. CH/CHE/CHEM 228Z is the laboratory component; CH/CHE/CHEM 222Z is the lecture course. Audit available. Co-requisites: CH 222Z and CH 228Z must be taken together. Prerequisites: CH 221Z and CH 227Z.

Credits	**1**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**0**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**CH221Z, CH227Z**

CH 229Z: General Chemistry III Laboratory

Experiments correspond to the topics covered in CH/CHE/CHEM 223Z including the principles of chemical equilibria and their application to chemical analysis using volumetric and electrochemical methods. CH/CHE/CHEM 229Z is the laboratory component; CH/CHE/CHEM 223Z is the lecture course. Audit available Co-requisites: CH 223Z and CH 229Z must be taken together. Prerequisites: CH 222Z and CH 228Z.

Credits	**1**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**0**
Prerequisites	**CH222Z, CH228Z**

CH229Z: General Chemistry III Laboratory

Experiments correspond to the topics covered in CH/CHE/CHEM 223Z including the principles of chemical equilibria and their application to chemical analysis using volumetric and electrochemical methods. CH/CHE/CHEM 229Z is the laboratory component; CH/CHE/CHEM 223Z is the lecture course. Audit available Co-requisites: CH 223Z and CH 229Z must be taken together. Prerequisites: CH 222Z and CH 228Z.

Credits	**1**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**0**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**CH222Z, CH228Z**

College Reading and Writing Program

RDWR 115: College Reading & Writing

Focuses on expanding and improving reading rate, vocabulary, and comprehension of complex college level texts. Emphasizes critical thinking skills, information literacy, and introduces college level skills in reading critically, exploring ideas, and writing. Students will compose essays in support of a thesis, working through multiple drafts with time to separate the acts of drafting and revising. Students will write at least one essay that incorporates source materials and employs MLA citation and documentation. REQUIRED:? Students will attend a lab for a minimum of two* hours per week in the Writing Studio/Learning Lounge to be scheduled at the beginning of the term to work on assigned supplemental material as directed by their instructor. The lab hours are a requirement for passing this course and will account for at least 25% of the course grade. *(necessary modification for immediate implementation. Curriculum Committee will review in 10/23)

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**

RDWR115: College Reading & Writing

Focuses on expanding and improving reading rate, vocabulary, and comprehension of complex college level texts. Emphasizes critical thinking skills, information literacy, and introduces college level skills in reading critically, exploring ideas, and writing. Students will compose essays in support of a thesis, working through multiple drafts with time to separate the acts of drafting and revising. Students will write at least one essay that incorporates source materials and employs MLA citation and documentation. REQUIRED:? Students will attend a lab for a minimum of two* hours per week in the Writing Studio/Learning Lounge to be scheduled at the beginning of the term to work on assigned supplemental material as directed by their instructor. The lab hours are a requirement for passing this course and will account for at least 25% of the course grade. *(necessary modification for immediate implementation. Curriculum Committee will review in 10/23)

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**

Communications Program

COMM 111Z: Public Speaking

COMM 111Z emphasizes developing communication skills by examining and demonstrating how self-awareness, audience, content, and occasion influence the creation and delivery of speeches and presentations. Prerequisites:?Placement into WR 121 or successful completion of RDWR 115 or equivalent.?Audit available.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Prerequisites	**RDWR115**

COMM111Z: Public Speaking

COMM 111Z emphasizes developing communication skills by examining and demonstrating how self-awareness, audience, content, and occasion influence the creation and delivery of speeches and presentations.
Prerequisites:?Placement into WR 121 or successful completion of RDWR 115 or equivalent.?Audit available.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**RDWR115**

COMM 112: Persuasion, Argument, Debate

Credits	**4**

COMM112: Persuasion, Argument, Debate

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**

COMM 140: Introduction to Intercultural Communication

Explores the nature and impact of different cultures on communication. Includes interactive relationship forms as the basis for global understanding in the classroom, business, or travel. Focus on processing messages with accelerating changes in political, economic, and immigration patterns through individual cultural perceptions. Understand and communicate with people of various cultures.
Prerequisite: RDWR 115 equivalent or placement above this level.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Prerequisites	**RDWR115**

COMM140: Introduction to Intercultural Communication

Explores the nature and impact of different cultures on communication. Includes interactive relationship forms as the basis for global understanding in the classroom, business, or travel. Focus on processing messages with accelerating changes in political, economic, and immigration patterns through individual cultural perceptions. Understand and communicate with people of various cultures.
Prerequisite: RDWR 115 equivalent or placement above this level.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**RDWR115**

COMM 215: Small Group Communication: Processand Theory

This course examines problem solving aspects of small group communication, processes and activities. Includes process and task, leadership, verbal and non-verbal messages in the small group, norms and roles, conflict reduction, and decision-making. Focuses on theory and practice.
Prerequisite: RDWR 115 equivalent or placement above this level.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Prerequisites	**RDWR115**

COMM215: Small Group Communication: Processand Theory

This course examines problem solving aspects of small group communication, processes and activities. Includes process and task, leadership, verbal and non-verbal messages in the small group, norms and roles, conflict reduction, and decision-making. Focuses on theory and practice. Prerequisite: RDWR 115 equivalent or placement above this level.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**RDWR115**

COMM 218Z: Interpersonal Communication

COMM 218Z increases the knowledge and use of competent communication skills to better understand oneself, others, and the role of communication in interpersonal relationships. Audit available.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**

COMM218Z: Interpersonal Communication

COMM 218Z increases the knowledge and use of competent communication skills to better understand oneself, others, and the role of communication in interpersonal relationships. Audit available.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**

COMM 227: Non-Verbal Communication

Introduces the nonverbal aspect of communication as related to verbal communication. Emphasizes the theories and types of nonverbal behavior including influential factors such as; voice, body movement, eye behavior, touch, space, time, smell, and physical and social environments. Prerequisites: RDWR 115 equivalent or placement above this level. Audit available.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Prerequisites	**RDWR115**

COMM227: Non-Verbal Communication

Introduces the nonverbal aspect of communication as related to verbal communication. Emphasizes the theories and types of nonverbal behavior including influential factors such as; voice, body movement, eye behavior, touch, space, time, smell, and physical and social environments. Prerequisites: RDWR 115 equivalent or placement above this level. Audit available.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**RDWR115**

COMM 237: Gender and Communication

Examines the similarities and differences in male and female communication styles and patterns. Particular attention given to the implications of gender as social construct upon perception, values, stereotypes, language use, nonverbal communication, and power and conflict in human relationships. Discusses influence of mass communication upon shaping and constructing male and female sex roles. Course fulfills block transfer and cultural diversity requirements and is transferable to state four-year colleges and universities. Prerequisites: RDWR 115 equivalent or placement above this level. Audit available.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Prerequisites	**RDWR115**

COMM237: Gender and Communication

Examines the similarities and differences in male and female communication styles and patterns. Particular attention given to the implications of gender as social construct upon perception, values, stereotypes, language use, nonverbal communication, and power and conflict in human relationships. Discusses influence of mass communication upon shaping and constructing male and female sex roles. Course fulfills block transfer and cultural diversity requirements and is transferable to state four-year colleges and universities. Prerequisites: RDWR 115 equivalent or placement above this level. Audit available.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**RDWR115**

Computer Applications Program

CAS 121: Keyboard

Introduces the basic skills of touch keyboarding and techniques when using a computer keyboard. This class emphasizes the development of speed and accuracy. Recommended: RDWR 115 and MTH 105 or equivalent placement test scores. Proficiency Exam is available. Students can be awarded Credit for Prior Learning (CPL) by completing a proficiency assessment by typing over 35 WPM with less than three (3) errors for a three-minute timing.

Credits	**3**

CAS121: Keyboard

Introduces the basic skills of touch keyboarding and techniques when using a computer keyboard. This class emphasizes the development of speed and accuracy. Recommended: RDWR 115 and MTH 105 or equivalent placement test scores. Proficiency Exam is available. Students can be awarded Credit for Prior Learning (CPL) by completing a proficiency assessment by typing over 35 WPM with less than three (3) errors for a three-minute timing.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**
Lec/Lab Hrs per Wk	**0**

CAS 133: Basic Computer Skills

CAS133: Basic Computer Skills

Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**

CAS 170: Beginning Excel

Introduces the basic features of Microsoft Excel and spreadsheet concepts to design and create accurate professional worksheets for use in business and industry, and academic environments. Includes entering data; creating formulas; professional formatting; creating charts; creating, sorting, and filtering lists; creating and using templates; and working with functions. Focuses on ways to ensure accuracy including proofreading techniques and critical thinking to determine what data to present and how to present it. Recommended: RDWR 115 and MTH 105 or equivalent placement test scores; CAS 133.

Credits	**3**

CAS170: Beginning Excel

Introduces the basic features of Microsoft Excel and spreadsheet concepts to design and create accurate professional worksheets for use in business and industry, and academic environments. Includes entering data; creating formulas; professional formatting; creating charts; creating, sorting, and filtering lists; creating and using templates; and working with functions. Focuses on ways to ensure accuracy including proofreading techniques and critical thinking to determine what data to present and how to present it. Recommended: RDWR 115 and MTH 105 or equivalent placement test scores; CAS 133.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**
Lec/Lab Hrs per Wk	**0**

CAS 171: Intermediate Excel

Introduces advanced features of Excel to design and create accurate, professional worksheets for use in business and industry. Includes financial, logical, statistical, lookup, and database functions; pivot tables; “what-if” analysis with data tables; importing data; complex graphs; macros; and solver features. Focuses on ways to ensure accuracy including proofreading techniques and critical thinking to determine what data to present and how to present it. Prerequisite: CAS 170. Associated Program: 'Certificate (One Year): Office Supervision'

Credits	**3**
Prerequisites	**CAS170**

CAS171: Intermediate Excel

Introduces advanced features of Excel to design and create accurate, professional worksheets for use in business and industry. Includes financial, logical, statistical, lookup, and database functions; pivot tables; “what-if” analysis with data tables; importing data; complex graphs; macros; and solver features. Focuses on ways to ensure accuracy including proofreading techniques and critical thinking to determine what data to present and how to present it. Prerequisite: CAS 170. Associated Program: 'Certificate (One Year): Office Supervision'

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**CAS170**

CAS 216: Beginning Word

Introduces the basics of Microsoft Word to create, edit, and print documents such as letters, memos, and manuscripts; produce multi-page documents; use headers and footers; and produce merged copy. Recommended: RDWR 115 and MTH 105 or equivalent placement test scores; CAS 133.

Credits	**3**

CAS216: Beginning Word

Introduces the basics of Microsoft Word to create, edit, and print documents such as letters, memos, and manuscripts; produce multi-page documents; use headers and footers; and produce merged copy. Recommended: RDWR 115 and MTH 105 or equivalent placement test scores; CAS 133.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**
Lec/Lab Hrs per Wk	**0**

CAS 217: Intermediate Word

Introduces advanced features of Microsoft Word to create, edit, and print documents such as letters, memos, and manuscripts; produce multi-page documents; use headers and footers; become familiar with the program's writing tools and basics of enhancing documents; and produce merged copy. Pre-Requisite: CAS 216. *****Associated program: Business Administration

Credits	**3**
Prerequisites	**CAS216**

CAS217: Intermediate Word

Introduces advanced features of Microsoft Word to create, edit, and print documents such as letters, memos, and manuscripts; produce multi-page documents; use headers and footers; become familiar with the program's writing tools and basics of enhancing documents; and produce merged copy. Pre-Requisite: CAS 216. *****Associated program: Business Administration

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**CAS216**

Computer Science Program

CS 160: Introduction to Computer Science

Introduction to computing. This course will help students become proficient computer users including using Windows and file management. It provides an overview of computer science career options, computer hardware, algorithms, software development, data representation, ethics and the history and influence of computing. Introduction to computer programming, including data types, procedural programming, control structures and logic. This class prepares students with no prior computer programming experience for CS 161. Prerequisite: none.

Credits	**4**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**3**

CS160: Introduction to Computer Science

Introduction to computing. This course will help students become proficient computer users including using Windows and file management. It provides an overview of computer science career options, computer hardware, algorithms, software development, data representation, ethics and the history and influence of computing. Introduction to computer programming, including data types, procedural programming, control structures and logic. This class prepares students with no prior computer programming experience for CS 161. Prerequisite: none.

Credits	**4**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**3**
Lec/Lab Hrs per Wk	**0**

CS 161: Computer Science I

Introduction to computer programming. Concepts including procedural programming (methods, parameters, and variables), control structures and logic (if/else, for and while loops), arrays, file input and output, and an introduction to object-oriented programming. Prior computer knowledge recommended. This class is intended to transfer to a 4 year computer science degree, and also as an single programming class for an associate degree.

Credits	**4**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**3**
Prerequisites	**CS160**

CS161: Computer Science I

Introduction to computer programming. Concepts including procedural programming (methods, parameters, and variables), control structures and logic (if/else, for and while loops), arrays, file input and output, and an introduction to object-oriented programming. Prior computer knowledge recommended. This class is intended to transfer to a 4 year computer science degree, and also as an single programming class for an associate degree.

Credits	**4**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**3**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**CS160**

CS 162: Computer Science II

Second course in the introduction to computer programming sequence. These topics include: abstract data structures, lists, stacks, queues, linked lists, maps, recursion, interfaces, encapsulation, serialization, file access, sorting and computational complexity. This class is intended to transfer to a 4 year computer science degree. Prerequisite: CS 161

Credits	**4**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**3**
Prerequisites	**CS161**

CS162: Computer Science II

Second course in the introduction to computer programming sequence. These topics include: abstract data structures, lists, stacks, queues, linked lists, maps, recursion, interfaces, encapsulation, serialization, file access, sorting and computational complexity. This class is intended to transfer to a 4 year computer science degree. Prerequisite: CS 161

Credits	**4**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**3**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**CS161**

CS 260: Data Structures

Third course in the introduction to computer programming sequence. These topics include: creating, using and analyzing abstract data structures: stacks, queues, linked lists, maps, binary trees and heaps. Computational complexity will be analyzed using BigO, Theta and Omega notation. Prerequisite: CS 162 and either MTH 111 or MTH 251.

Credits	**4**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**3**
Prerequisites	**CS162, MTH111Z**

CS260: Data Structures

Third course in the introduction to computer programming sequence. These topics include: creating, using and analyzing abstract data structures: stacks, queues, linked lists, maps, binary trees and heaps. Computational complexity will be analyzed using BigO, Theta and Omega notation. Prerequisite: CS 162 and either MTH 111 or MTH 251.

Credits	**4**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**3**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**CS162, MTH111Z**

CS 261: Product and Program Management

This course will help students become proficient in data-driven and customer-focused computing. It provides an overview of project design, requirements definition, customer persona definition, sprint planning, unit/integration and A/B testing, metrics validation, rollout planning and communication. Alongside other computer science courses that teach algorithms, coding and systems development, this course will put those skills to use by using them to build for customer needs. Students will use their technical skills in a practical setting. Prerequisite: CS 160.

Credits	**4**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**3**
Prerequisites	**CS160**

CS261: Product and Program Management

This course will help students become proficient in data-driven and customer-focused computing. It provides an overview of project design, requirements definition, customer persona definition, sprint planning, unit/integration and A/B testing, metrics validation, rollout planning and communication. Alongside other computer science courses that teach algorithms, coding and systems development, this course will put those skills to use by using them to build for customer needs. Students will use their technical skills in a practical setting. Prerequisite: CS 160.

Credits	**4**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**3**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**CS160**

Cooperative Work Experience Program

CWE 280: CWE (for OST and related programs)

Cooperative Work Experience is an educational program that enables students to receive academic credit for on-the-job, experiential learning based on skills acquired in their program. Together, the instructor, employer, and student establish learning objectives that specify the significant and appropriate learning which is expected to result from the work experience. This course offers a career-related experience for students working for an approved employer. As a capstone course, students should complete this course within the last 2 terms of their certificate or degree. PREREQUISITES: Permission of CWE Instructor or Faculty

Credits	**3-10**
Lab Hrs per Wk	**9**
Lecture Hrs per Wk	**0**

CWE280: CWE (for OST and related programs)

Cooperative Work Experience is an educational program that enables students to receive academic credit for on-the-job, experiential learning based on skills acquired in their program. Together, the instructor, employer, and student establish learning objectives that specify the significant and appropriate learning which is expected to result from the work experience. This course offers a career-related experience for students working for an approved employer. As a capstone course, students should complete this course within the last 2 terms of their certificate or degree. PREREQUISITES: Permission of CWE Instructor or Faculty

Credits	**3**
Lab Hrs per Wk	**9**
Lecture Hrs per Wk	**0**
Lec/Lab Hrs per Wk	**0**

Drafting Program

DRF 270: 3-D Modeling

Introduces Blender software as a design tool for both manufacturing and art. Covers navigating the 3D workspace, creating, and editing models, coordinate systems, and turning blueprints into 3D models. Artistic components include materials, lighting, animating, sculpting, and rendering.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**2**

DRF270: 3-D Modeling

Introduces Blender software as a design tool for both manufacturing and art. Covers navigating the 3D workspace, creating, and editing models, coordinate systems, and turning blueprints into 3D models. Artistic components include materials, lighting, animating, sculpting, and rendering.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**2**
Lec/Lab Hrs per Wk	**2**

Early Childhood Education Program

ECE 100: Introduction to Early Childhood Education

Introduces the foundations of early childhood education and family studies. Covers the history, scope, current issues and trends, focusing on programs and services for children, birth-5. Includes an emphasis on development, developmentally appropriate practices and observation of young children and professionals. Requires 2 hours per week of observation/participation. Students must enroll in the Oregon Office of Child Care Central Background Registry (Criminal Background Check). Students must show evidence of current TB test and MMR vaccination. PREREQUISITES: None ASSOCIATED PROGRAM: Associate of General Studies

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**

ECE100: Introduction to Early Childhood Education

Introduces the foundations of early childhood education and family studies. Covers the history, scope, current issues and trends, focusing on programs and services for children, birth-5. Includes an emphasis on development, developmentally appropriate practices and observation of young children and professionals. Requires 2 hours per week of observation/participation. Students must enroll in the Oregon Office of Child Care Central Background Registry (Criminal Background Check). Students must show evidence of current TB test and MMR vaccination. PREREQUISITES: None ASSOCIATED PROGRAM: Associate of General Studies

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**
Lec/Lab Hrs per Wk	**0**

ECE 103: Families and Community Systems

Introduces the identification and utilization of different strategies to strengthen teaming and communication specific to early education settings. Covers culture and communication, including communicating with colleagues, staff and parents in early education environments. Covers ways in which caregivers can facilitate, support, and sustain strong individualized relationships with infants, toddlers, and their families in early education settings. And, also covers the resource referrals and supports available to childcare professionals and families in the state of Oregon. PREREQUISITES: None Associated program: Associate of General Studies

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**

ECE103: Families and Community Systems

Introduces the identification and utilization of different strategies to strengthen teaming and communication specific to early education settings. Covers culture and communication, including communicating with colleagues, staff and parents in early education environments. Covers ways in which caregivers can facilitate, support, and sustain strong individualized relationships with infants, toddlers, and their families in early education settings. And, also covers the resource referrals and supports available to childcare professionals and families in the state of Oregon. PREREQUISITES: None Associated program: Associate of General Studies

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**
Lec/Lab Hrs per Wk	**0**

Economics Program

EC 201Z: Principles of Microeconomics

Examines how consumers and firms make choices when facing scarce resources, and how those choices are related to government policy and market outcomes, such as prices and output. Prerequisites: RDWR115 and MTH 20 or placement above these levels.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Prerequisites	**MTH070, RDWR115**

EC201Z: Principles of Microeconomics

Examines how consumers and firms make choices when facing scarce resources, and how those choices are related to government policy and market outcomes, such as prices and output. Prerequisites: RDWR115 and MTH 20 or placement above these levels.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**MTH070, RDWR115**

EC 202Z: Principles of Macroeconomics

Examines the aggregate activity of a market economy, economic growth, inflation, unemployment, and the use of fiscal and monetary policy to address macroeconomic problems. Prerequisites: RDWR115 and MTH 20 or placement above these levels.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Prerequisites	**MTH070, RDWR115**

EC202Z: Principles of Macroeconomics

Examines the aggregate activity of a market economy, economic growth, inflation, unemployment, and the use of fiscal and monetary policy to address macroeconomic problems. Prerequisites: RDWR115 and MTH 20 or placement above these levels.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**MTH070, RDWR115**

EC 215: Economic Development in the U.S.

The course will provide a historical study and understanding of the sources of economic growth and change in the United States. The discussion will center how changes in industry, agriculture, commerce, transportation, labor, and finance affected the development of modern Free Market Capitalism.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**

EC215: Economic Development in the U.S.

The course will provide a historical study and understanding of the sources of economic growth and change in the United States. The discussion will center how changes in industry, agriculture, commerce, transportation, labor, and finance affected the development of modern Free Market Capitalism.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**

Education Program

ED 131: Applied Learning Theory I & II

This undergraduate course will provide an overview of children's cognitive, social, emotional, and language development as they relate to children's learning. Important influences in children's immediate environment such as family, peers and teacher will be discussed. Recommended RDWR115 and Math 20.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**

ED131: Applied Learning Theory I & II

This undergraduate course will provide an overview of children's cognitive, social, emotional, and language development as they relate to children's learning. Important influences in children's immediate environment such as family, peers and teacher will be discussed. Recommended RDWR115 and Math 20.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**
Lec/Lab Hrs per Wk	**0**

ED 163: Infant Toddler Development and Group Care

Focuses on how to design environments which support healthy development for infants and toddlers in group care settings. This course includes an exploration of four developmental domains: physical, social-emotional, cognitive, and language development. There is an emphasis on cultural identity, collaborating with parents and working with children with special needs.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**

ED163: Infant Toddler Development and Group Care

Focuses on how to design environments which support healthy development for infants and toddlers in group care settings. This course includes an exploration of four developmental domains: physical, social-emotional, cognitive, and language development. There is an emphasis on cultural identity, collaborating with parents and working with children with special needs.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**
Lec/Lab Hrs per Wk	**0**

ED 222: Constructive Discipline

Focuses on supporting children's healthy social-emotional development to develop friendships, interact with teachers, and meet classroom expectations in developmentally appropriate ways. Students will explore the meaning of children's behavior. They will practice with social-emotional strategies, which support emotional literacy and the management of big emotions. Students will develop behavior plans for teaching children new behavioral skills and supporting children with challenging behaviors

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**

ED222: Constructive Discipline

Focuses on supporting children's healthy social-emotional development to develop friendships, interact with teachers, and meet classroom expectations in developmentally appropriate ways. Students will explore the meaning of children's behavior. They will practice with social-emotional strategies, which support emotional literacy and the management of big emotions. Students will develop behavior plans for teaching children new behavioral skills and supporting children with challenging behaviors

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**
Lec/Lab Hrs per Wk	**0**

ED 224: Foundations of Education

Provides an overview of the history and current issues in the field for K-12 education including the impact of philosophy on practice.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**

ED224: Foundations of Education

Provides an overview of the history and current issues in the field for K-12 education including the impact of philosophy on practice.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**
Lec/Lab Hrs per Wk	**0**

ED 251: Overview of Exceptional Learners

This course is an introduction to the complex and diverse field of special education. Topics will include an overview of legal requirements, IEP structure, and the educational needs of Exceptional Students. Specific attention will be given to the characteristics and definition of the following: Intellectual Disabilities, Specific Learning Disabilities, Emotional and Behavioral Disorders, Autism Spectrum Disorder, Communication Disorders, Deafness and Hearing Loss, Blindness and Low Vision, Health Impairments, ADHD, Physical Disabilities, Traumatic Brain Injuries, Low-Incidence Disabilities, and Talented and Gifted students. Audit available.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**

ED251: Overview of Exceptional Learners

This course is an introduction to the complex and diverse field of special education. Topics will include an overview of legal requirements, IEP structure, and the educational needs of Exceptional Students. Specific attention will be given to the characteristics and definition of the following: Intellectual Disabilities, Specific Learning Disabilities, Emotional and Behavioral Disorders, Autism Spectrum Disorder, Communication Disorders, Deafness and Hearing Loss, Blindness and Low Vision, Health Impairments, ADHD, Physical Disabilities, Traumatic Brain Injuries, Low-Incidence Disabilities, and Talented and Gifted students. Audit available.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**
Lec/Lab Hrs per Wk	**0**

ED 258: Multicultural Education: Principles

Introduces philosophy, activities, and materials applied in developing a culturally sensitive multicultural classroom and curriculum. Achieves an understanding of multicultural education and its impact on teaching in the classroom. Prerequisites: RDWR 115 or equivalent. Audit available.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Prerequisites	**RDWR115**

ED258: Multicultural Education: Principles

Introduces philosophy, activities, and materials applied in developing a culturally sensitive multicultural classroom and curriculum. Achieves an understanding of multicultural education and its impact on teaching in the classroom. Prerequisites: RDWR 115 or equivalent. Audit available.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**RDWR115**

Electrical Trades Program

ELT 110: Electricity for Non-Electricians

Practical hands-on application of electrical principles, practices and codes to help the non-electrician learn the basics of wiring that they encounter around the house. Safety practices will be emphasized as will basic electrical theory. After the first three class sessions, there will be minimal theory or lecture and maximum practice using the tools and materials that the homeowner will encounter in doing electrical work on his/her home. Additional supply fee may be required.

Credits	**2**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**1**

ELT110: Electricity for Non-Electricians

Practical hands-on application of electrical principles, practices and codes to help the non-electrician learn the basics of wiring that they encounter around the house. Safety practices will be emphasized as will basic electrical theory. After the first three class sessions, there will be minimal theory or lecture and maximum practice using the tools and materials that the homeowner will encounter in doing electrical work on his/her home. Additional supply fee may be required.

Credits	**2**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**1**
Lec/Lab Hrs per Wk	**2**

ELT 111: Electricity for Non-electricians II

Electricity for Non-Electricians II is a second class in the Homeowners Electrical class. This class will move beyond the basic concepts of wiring plugs and switches and look at circuits, breakers, 220V wiring, and home circuit addition/ modification Associated Program: Manufacturing and Industrial Technology

Credits	**2**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**1**

ELT111: Electricity for Non-electricians II

Electricity for Non-Electricians II is a second class in the Homeowners Electrical class. This class will move beyond the basic concepts of wiring plugs and switches and look at circuits, breakers, 220V wiring, and home circuit addition/ modification Associated Program: Manufacturing and Industrial Technology

Credits	**2**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**1**
Lec/Lab Hrs per Wk	**2**

ELT 127: Basic Programmable Controllers - PCBased

Basic Programmable Controllers Develops the student's understanding of the complete operation of a variety of programmable controllers. The applications, operations, and programming of PLC's are the areas of study with the main emphasis on programming (computers will be used as programmers). . Additional supply fee may be required.

Credits	**2**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**1**

ELT127: Basic Programmable Controllers - PCBased

Basic Programmable Controllers Develops the student's understanding of the complete operation of a variety of programmable controllers. The applications, operations, and programming of PLC's are the areas of study with the main emphasis on programming (computers will be used as programmers). . Additional supply fee may be required.

Credits	**2**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**1**
Lec/Lab Hrs per Wk	**2**

ELT 128: Intermediate Programmable Controllers - PC Based

Intermediate Programmable Controllers (PC Based) Presents advanced features of programmable controllers, including designing, monitoring, and editing programs with practical hands-on experience. This class can be used towards Continuing Education Units for Oregon State electrical licensing purposes. Prerequisites: ELT 125. Additional supply fee may be required.

Credits	**2**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**1**
Prerequisites	**ELT127**

ELT128: Intermediate Programmable Controllers - PC Based

Intermediate Programmable Controllers (PC Based) Presents advanced features of programmable controllers, including designing, monitoring, and editing programs with practical hands-on experience. This class can be used towards Continuing Education Units for Oregon State electrical licensing purposes. Prerequisites: ELT 125. Additional supply fee may be required.

Credits	**2**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**1**
Lec/Lab Hrs per Wk	**2**
Prerequisites	**ELT127**

ELT 201: Electrical Motor Control

Provides knowledge and skills needed to design, install, maintain, service and troubleshoot electric motors. Focuses on the operation and installation of control systems, specifically motor starters and controllers. Electromagnetic controls, motors and transformers will also be covered. Lab activities will utilize electrical test equipment to analyze electric motor control malfunctions. This class can be used towards Continuing Education Units for Oregon State electrical licensing purposes. Prerequisite: APR 121 or instructor approval.

Credits	**2**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**1**
Prerequisites	**APR121**

ELT201: Electrical Motor Control

Provides knowledge and skills needed to design, install, maintain, service and troubleshoot electric motors. Focuses on the operation and installation of control systems, specifically motor starters and controllers. Electromagnetic controls, motors and transformers will also be covered. Lab activities will utilize electrical test equipment to analyze electric motor control malfunctions. This class can be used towards Continuing Education Units for Oregon State electrical licensing purposes. Prerequisite: APR 121 or instructor approval.

Credits	**2**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**1**
Lec/Lab Hrs per Wk	**2**
Prerequisites	**APR121**

ELT 202: Advanced Electric Motor Control

Provides advanced knowledge and skills needed to design, install, maintain, service and troubleshoot electric motors. Focuses on the operation and design of control systems, specifically motor starters and controllers. Electromagnetic controls, motors and transformers will also be covered. Students will create their own circuit designs to solve different motor control problems and will engage in advanced trouble-shooting of electric motor controls. This class is the second class in the Motor controls sequence Prerequisite: ELT 201 Associated program; Manufacturing and Industrial Technology

Credits	**2**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**1**
Prerequisites	**ELT201**

ELT202: Advanced Electric Motor Control

Provides advanced knowledge and skills needed to design, install, maintain, service and troubleshoot electric motors. Focuses on the operation and design of control systems, specifically motor starters and controllers. Electromagnetic controls, motors and transformers will also be covered. Students will create their own circuit designs to solve different motor control problems and will engage in advanced trouble-shooting of electric motor controls. This class is the second class in the Motor controls sequence Prerequisite: ELT 201 Associated program; Manufacturing and Industrial Technology

Credits	**2**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**1**
Lec/Lab Hrs per Wk	**2**
Prerequisites	**ELT201**

ELT 227: Advanced Programmable Controllers - PC Based

Advanced Programmable Controllers PC Based. Covers advanced features of programming controllers including designing, monitoring, troubleshooting, and editing techniques with practical hands-on experience. This class can be used toward Continuing Education Units for Oregon State electrical licensing purposes. Prerequisites: ELT 128. Additional supply fee may be required. Associated program: Manufacturing and Industrial Technology

Credits	**2**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**1**
Prerequisites	**ELT128**

ELT227: Advanced Programmable Controllers - PC Based

Advanced Programmable Controllers PC Based. Covers advanced features of programming controllers including designing, monitoring, troubleshooting, and editing techniques with practical hands-on experience. This class can be used toward Continuing Education Units for Oregon State electrical licensing purposes. Prerequisites: ELT 128. Additional supply fee may be required. Associated program: Manufacturing and Industrial Technology

Credits	**2**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**1**
Lec/Lab Hrs per Wk	**2**
Prerequisites	**ELT128**

ELT 230: Automation Control Visualization

This class is designed for advanced PLC users and maintenance technicians working in a PLC based system. This is a technical course using Wonderware's HMI (Human Machine Interface) software to utilize system-wide visualization for system analysis and troubleshooting. Technicians will learn to view and diagnose system breakdowns and performance issues remotely. Prerequisite: ELT125

Credits	**2**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**1**
Prerequisites	**ELT127**

ELT230: Automation Control Visualization

This class is designed for advanced PLC users and maintenance technicians working in a PLC based system. This is a technical course using Wonderware's HMI (Human Machine Interface) software to utilize system-wide visualization for system analysis and troubleshooting. Technicians will learn to view and diagnose system breakdowns and performance issues remotely. Prerequisite: ELT125

Credits	**2**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**1**
Lec/Lab Hrs per Wk	**2**
Prerequisites	**ELT127**

Emergency Medical Technician Program

EMS 100: Introduction to Emergency MedicalServices

Covers the roles and responsibilities of the EMT: emergency medical services system, medical-legal considerations, major incident response, hazardous materials awareness, stress management, and blood-borne pathogens. Audit available.

Credits	**3**

EMS100: Introduction to Emergency MedicalServices

Covers the roles and responsibilities of the EMT: emergency medical services system, medical-legal considerations, major incident response, hazardous materials awareness, stress management, and blood-borne pathogens. Audit available.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**
Lec/Lab Hrs per Wk	**0**

EMS 105: EMT Part I

Develops student's ability to recognize and treat the symptoms of illness and injury inthe prehospital setting.This course is part 1 of a 2-part coursethat prepares individuals for National Registry certification and licensure in Oregon as anEmergency Medical Technician.Requires HCP CPR card,criminal background check,drug screen and immunizationsto be completed orverifiedduring the course.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Prerequisites	**RDWR 115/MTH 20 (or placement above these levels)**
Corequisites	**EMS 105L**

EMS105: EMT Part I

Develops student's ability to recognize and treat the symptoms of illness and injury inthe prehospital setting.This course is part 1 of a 2-part coursethat prepares individuals for National Registry certification and licensure in Oregon as anEmergency Medical Technician.Requires HCP CPR card,criminal background check,drug screen and immunizationsto be completed orverifiedduring the course.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**RDWR 115/MTH 20 (or placement above these levels)**
Corequisites	**EMS 105L**

EMS 105L: EMT Part I Lab

Develops student's ability to recognize and treat the symptoms of illness and injury inclassroom labs and simulated emergency scenes.Includes skills in patient assessment, basic airway management, trauma assessment and management, medication administration, and use of automated external defibrillators (AED).

Credits	**1**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**0**
Corequisites	**EMS 105**

Notes

This course is the lab component forEMT Part I.

EMS105L: EMT Part I Lab

Develops student's ability to recognize and treat the symptoms of illness and injury inclassroom labs and simulated emergency scenes.Includes skills in patient assessment, basic airway management, trauma assessment and management, medication administration, and use of automated external defibrillators (AED).

Credits	**1**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**0**
Lec/Lab Hrs per Wk	**0**
Corequisites	**EMS 105**

Notes

This course is the lab component forEMT Part I.

EMS 106: EMT Part II

Develops student's ability to recognize and treat the symptoms of illness and injury in the prehospital setting. This course is part 2 of a 2-part course that prepares individuals for National Registry certification and licensure in Oregon as an Emergency Medical Technician. Requires current HCP CPR card, criminal background check, drug screen and immunizations prior to enrollment.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Prerequisites	**Successful completion of EMS 105and EMS 105L at TBCC within the last year.**
Corequisites	**EMS 106L, EMS 106C**

EMS106: EMT Part II

Develops student's ability to recognize and treat the symptoms of illness and injury in the prehospital setting. This course is part 2 of a 2-part course that prepares individuals for National Registry certification and licensure in Oregon as an Emergency Medical Technician. Requires current HCP CPR card, criminal background check, drug screen and immunizations prior to enrollment.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**Successful completion of EMS 105and EMS 105L at TBCC within the last year.**
Corequisites	**EMS 106L, EMS 106C**

EMS 106C: EMT Part II Clinical

Develops student's ability to recognize and treat the symptoms of illness and injury in the prehospital setting. Includes skills in patient assessment, basic airway management, traumaassessment and management,medication administration, and the use of automated external defibrillators (AED).

Credits	**2**
Lab Hrs per Wk	**6**
Lecture Hrs per Wk	**0**
Prerequisites	**Successful completion of EMS 105 and EMS 105L at TBCC within the last year.**
Corequisites	**EMS 106, EMS 106L**

Notes

This course is the clinical experiencecomponent for EMT Part II.

EMS106C: EMT Part II Clinical

Develops student's ability to recognize and treat the symptoms of illness and injury in the prehospital setting. Includes skills in patient assessment, basic airway management, traumaassessment and management,medication administration, and the use of automated external defibrillators (AED).

Credits	**2**
Lab Hrs per Wk	**6**
Lecture Hrs per Wk	**0**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**Successful completion of EMS 105 and EMS 105L at TBCC within the last year.**
Corequisites	**EMS 106, EMS 106L**

Notes

This course is the clinical experiencecomponent for EMT Part II.

EMS 106L: EMT Part II Lab

Develops student's ability to recognize and treat the symptoms of illness and injury in the prehospital setting. Includes skills in patient assessment, basic airway management, trauma assessment and management, medication administration, and the use of automated external defibrillators (AED).

Credits	**1**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**0**
Prerequisites	**Successful completion of EMS 105 and EMS 105L at TBCC within the last year.**
Corequisites	**EMS 106, EMS 106C**

Notes
This course is the lab component for EMT Part II.

EMS106L: EMT Part II Lab

Develops student's ability to recognize and treat the symptoms of illness and injury in the prehospital setting. Includes skills in patient assessment, basic airway management, trauma assessment and management, medication administration, and the use of automated external defibrillators (AED).

Credits	**1**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**0**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**Successful completion of EMS 105 and EMS 105L at TBCC within the last year.**
Corequisites	**EMS 106, EMS 106C**

Notes
This course is the lab component for EMT Part II.

EMS 107: Advanced EMT

Develops student's ability to recognize and treat the symptoms of illness and injury in the prehospital setting. This course is part 2 of a 2-part course that prepares individuals for National Registry certification and licensure in Oregon as an Emergency Medical Technician. Requires current HCP CPR card, criminal background check, drug screen and immunizations prior to enrollment.

Credits	**6**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**4**
Prerequisites	**Successful completion of EMS 105, EMS 105L, EMS 106, and EMS 106L at TBCC within the last year; or NREMT certification.**

EMS107: Advanced EMT

Develops student's ability to recognize and treat the symptoms of illness and injury in the prehospital setting. This course is part 2 of a 2-part course that prepares individuals for National Registry certification and licensure in Oregon as an Emergency Medical Technician. Requires current HCP CPR card, criminal background check, drug screen and immunizations prior to enrollment.

Credits	**6**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**3**
Prerequisites	**Successful completion of EMS 105, EMS 105L, EMS 106, and EMS 106L at TBCC within the last year; or NREMT certification.**

EMT 169: Emergency Medical Technology

This training will provide a brief introduction into EMS/fire service rescue practices. Course topics will include but not limited to Auto Extrication, Rope Rescue, Water and Ice Rescue, Fire Ground Search and Rescue, Confined Space Rescue Situations. This course is designed to give students the skills necessary in order to begin rescue situations that are listed above. This is not an in-depth technical rescue course due to the limited time and limited degree of training resources available. In order to become certified in these fields, there are other courses that must be attended.

Credits	**3**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**2**

EMT 170: Emergency Response & Communication/ Documentation

Covers principles of patient-centered communication, verbal, written, and electronic communications in the provision of EMS, documentation of elements of patient assessment, care and transport, communication systems, radio types, reports, and codes.

Credits	**2**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**2**

English Program

ENG 104Z: Introduction to Fiction

The study of fiction invites us to enter imaginative narratives and confront the challenges of being human. English 104Z provides opportunities for the appreciation of fiction, including deeper awareness of craft and insight into how reading fiction can lead to self-enrichment. Students read a variety of types of fiction, from diverse perspectives and eras, and develop their skills in discussion, literary analysis, and critical thinking. Prerequisites: Placement into WR 121

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Prerequisites	**RDWR115**

ENG104Z: Introduction to Fiction

The study of fiction invites us to enter imaginative narratives and confront the challenges of being human. English 104Z provides opportunities for the appreciation of fiction, including deeper awareness of craft and insight into how reading fiction can lead to self-enrichment. Students read a variety of types of fiction, from diverse perspectives and eras, and develop their skills in discussion, literary analysis, and critical thinking. Prerequisites: Placement into WR 121

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**RDWR115**

ENG 105Z: Introduction to Drama

The study of plays exposes us to texts with the power to shock, inspire, enlighten, and delight; this course in drama can be an empowering and transformative journey toward keener engagement with the world, local community, and your intended path. English 105Z provides opportunities for the appreciation of drama, including deeper awareness of craft and insight into how reading plays can lead to self-enrichment. Students read a variety of types of drama, from diverse perspectives and eras, and develop their skills in discussion, literary analysis, and critical thinking..
Prerequisites: Placement into WR 121

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Prerequisites	**RDWR115**

ENG105Z: Introduction to Drama

The study of plays exposes us to texts with the power to shock, inspire, enlighten, and delight; this course in drama can be an empowering and transformative journey toward keener engagement with the world, local community, and your intended path. English 105Z provides opportunities for the appreciation of drama, including deeper awareness of craft and insight into how reading plays can lead to self-enrichment. Students read a variety of types of drama, from diverse perspectives and eras, and develop their skills in discussion, literary analysis, and critical thinking..
Prerequisites: Placement into WR 121

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**RDWR115**

ENG 106Z: Introduction to Poetry

The study of poetry invites us to delve into the biggest questions about life and culture alongside the seemingly smallest issues of words and sounds. English 106Z provides opportunities for the appreciation of poetry, including deeper awareness of craft and insight into how reading poetry can lead to self-enrichment. Students read a variety of types of poetry and poetic forms, from diverse perspectives and eras, and develop their skills in discussion, literary analysis, and critical thinking. Prerequisites: Placement into WR 121

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Prerequisites	**RDWR115**

ENG106Z: Introduction to Poetry

The study of poetry invites us to delve into the biggest questions about life and culture alongside the seemingly smallest issues of words and sounds. English 106Z provides opportunities for the appreciation of poetry, including deeper awareness of craft and insight into how reading poetry can lead to self-enrichment. Students read a variety of types of poetry and poetic forms, from diverse perspectives and eras, and develop their skills in discussion, literary analysis, and critical thinking. Prerequisites: Placement into WR 121

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**RDWR115**

ENG 201: Shakespeare

Prerequisites	**WR121Z**

ENG201: Shakespeare

Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**WR121Z**

ENG 216: Introduction to Children's Literature

Introduces children's literature, authors, and illustrators. Covers current and classic works, artistic, and literary elements, various genres, and basic book discussion techniques. Emphasis is placed on being able to choose books for different age and grade levels to promote and integrate literature into the curriculum. Students will learn to analyze text using a culturally responsive lens exploring bias, stereotypes, and cultural messaging, and consider ways to frame and select content to meet the needs of a diverse classroom. Prerequisite: Placement into WR 121

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Prerequisites	**RDWR115**

ENG216: Introduction to Children's Literature

Introduces children's literature, authors, and illustrators. Covers current and classic works, artistic, and literary elements, various genres, and basic book discussion techniques. Emphasis is placed on being able to choose books for different age and grade levels to promote and integrate literature into the curriculum. Students will learn to analyze text using a culturally responsive lens exploring bias, stereotypes, and cultural messaging, and consider ways to frame and select content to meet the needs of a diverse classroom. Prerequisite: Placement into WR 121

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**RDWR115**

ENG 250: Introduction to Folklore and Mythology

Develops a cross-cultural perspective on myths, mythologies, and folklore tales from around the world. Explores different theories of the cultural meanings and functions of myth, past and present. Introduces various ways of interpreting and experiencing myth as texts with oral origins. Prerequisite: WR 121

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Prerequisites	**RDWR115**

ENG250: Introduction to Folklore and Mythology

Develops a cross-cultural perspective on myths, mythologies, and folklore tales from around the world. Explores different theories of the cultural meanings and functions of myth, past and present. Introduces various ways of interpreting and experiencing myth as texts with oral origins. Prerequisite: WR 121

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**RDWR115**

ENG 253: Survey of American Literature I

Introduces the literature of the land which is now the United States from before European contact through early 1800. Considers various literary forms, canonized (such as novel, narrative poem), popular (such as the serialized tale, verse), and unpublished (oratory, diary). Prerequisite: WR 121

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Prerequisites	**RDWR115**

ENG253: Survey of American Literature I

Introduces the literature of the land which is now the United States from before European contact through early 1800. Considers various literary forms, canonized (such as novel, narrative poem), popular (such as the serialized tale, verse), and unpublished (oratory, diary). Prerequisite: WR 121

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**RDWR115**

ENG 254: Survey of American Literature II

Introduces students to the literature of the land which is now the United States in the 19th century. This course covers the Romantic era and literature of 19th century reform. Considers various literary forms, canonized (such as novel, narrative poem), popular (such as the serialized tale, verse), and unpublished (oratory, diary). Prerequisites: WR 121

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Prerequisites	**RDWR115**

ENG254: Survey of American Literature II

Introduces students to the literature of the land which is now the United States in the 19th century. This course covers the Romantic era and literature of 19th century reform. Considers various literary forms, canonized (such as novel, narrative poem), popular (such as the serialized tale, verse), and unpublished (oratory, diary). Prerequisites: WR 121

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**RDWR115**

ENG 260: Introduction to Women Writers

Students will read poetry, fiction, plays, diary and journal entries written by women from multiple cultures and time periods. Students will learn the elements and conventions of literature that will also encourage the exploration of diversity. Prerequisite: WR 121

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Prerequisites	**RDWR115**

ENG260: Introduction to Women Writers

Students will read poetry, fiction, plays, diary and journal entries written by women from multiple cultures and time periods. Students will learn the elements and conventions of literature that will also encourage the exploration of diversity. Prerequisite: WR 121

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**RDWR115**

ENG 299: Special Topics: Arts and Letters

This course will examine monstrous beings like Dracula, Frankenstein's monster, the Wolf Man, the Invisible Man, the Mummy, and the Phantom of the Opera in their various incarnations in their folk, literary, and film adaptations. During the term, students will also explore the cultural impact and significance of these creatures in popular culture. Students will learn that monsters are more than just scary stories, rather, they tell us about ourselves and our own cultural values. Prerequisite: WR 121

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Prerequisites	**WR121Z**

ENG299: Special Topics: Arts and Letters

This course will examine monstrous beings like Dracula, Frankenstein's monster, the Wolf Man, the Invisible Man, the Mummy, and the Phantom of the Opera in their various incarnations in their folk, literary, and film adaptations. During the term, students will also explore the cultural impact and significance of these creatures in popular culture. Students will learn that monsters are more than just scary stories, rather, they tell us about ourselves and our own cultural values. Prerequisite: WR 121

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**WR121Z**

ENG COMP: Expository Writing

Environmental Studies Program

ESR 171: Environmental Science: Biological Perspectives

Develops an understanding of environmental topics that are primarily biological in nature. Includes human population issues, matter and energy resources, ecosystems, environmental ethics, and food and land resources. The associated laboratories will illustrate these topics.

Credits	**4**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**3**

ESR171: Environmental Science: Biological Perspectives

Develops an understanding of environmental topics that are primarily biological in nature. Includes human population issues, matter and energy resources, ecosystems, environmental ethics, and food and land resources. The associated laboratories will illustrate these topics.

Credits	**4**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**3**
Lec/Lab Hrs per Wk	**0**

ESOL Program

ESOL 7450: Beginning ESOL

This class will help students with beginning English skills related to work, education, community, and personal goals. Emphasis will be given to the basic listening and speaking skills. Some spelling and grammatical considerations will be addressed.

Credits	**0**

FAS Program

FAS 107: UAS Ground School

The Remote Pilot in Command is the FAA license that covers Commercial Drone operations by individuals operating UAV's in the United States. Anyone operating a Drone/UAV for a company, school, or for any commercial endeavor is required to hold the license. This course will cover the material needed to prepare for the test. Fee includes course study materials. Associated program: Agriculture Technology

Credits	**2**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**2**

FAS107: UAS Ground School

The Remote Pilot in Command is the FAA license that covers Commercial Drone operations by individuals operating UAV's in the United States. Anyone operating a Drone/UAV for a company, school, or for any commercial endeavor is required to hold the license. This course will cover the material needed to prepare for the test. Fee includes course study materials. Associated program: Agriculture Technology

Credits	**2**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**2**
Lec/Lab Hrs per Wk	**0**

Fish and Wildlife Program

FW 251: Principles of Fish and Wildlife Conservation

History of conservation and natural resource use; ecological principles, and social and economic limitations of conservation; principles and practices of wildlife and fisheries management; role of research in management. Recommend: one course in introductory biology.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**

FW251: Principles of Fish and Wildlife Conservation

History of conservation and natural resource use; ecological principles, and social and economic limitations of conservation; principles and practices of wildlife and fisheries management; role of research in management. Recommend: one course in introductory biology.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**
Lec/Lab Hrs per Wk	**0**

Foods and Nutrition Program

FN 225: Nutrition

Introduces components of an adequate diet, nutrient availability, and utilization. Analyzes dietary intake compared to current scientific guidelines. Examines peripheral factors influencing diet such as global and local issues, cultural environment, and elements of food safety. Strong background in life sciences recommended.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**

FN225: Nutrition

Introduces components of an adequate diet, nutrient availability, and utilization. Analyzes dietary intake compared to current scientific guidelines. Examines peripheral factors influencing diet such as global and local issues, cultural environment, and elements of food safety. Strong background in life sciences recommended.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**

Forestry Program

FOR 111: Introduction to Forestry

Introduction to forestryis designedto give students a broad overview of forests and the forestry profession. The course will attempt to provide broad exposure to a range of issues faced by forestry resource professionals, including the services and products from these forests, environmental and human values, and basic elements of use, planning and management. The course will provide an overview of forest attributes and issues worldwide with emphasis on the United States and particularly the Pacific Northwest.

Credits	**3**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**2**

FOR111: Introduction to Forestry

Introduction to forestryis designedto give students a broad overview of forests and the forestry profession. The course will attempt to provide broad exposure to a range of issues faced by forestry resource professionals, including the services and products from these forests, environmental and human values, and basic elements of use, planning and management. The course will provide an overview of forest attributes and issues worldwide with emphasis on the United States and particularly the Pacific Northwest.

Credits	**3**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**2**
Lec/Lab Hrs per Wk	**0**

FOR 112: Computing Applications in Forestry

This course provides students with the introductory computing skills such as word formatting, digital editing, essential and advanced excel skills, andPowerPointskills that will support their success in the Forestry program. Forestry specific applications will be used to teach these skills.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**

FOR112: Computing Applications in Forestry

This course provides students with the introductory computing skills such as word formatting, digital editing, essential and advanced excel skills, andPowerPointskills that will support their success in the Forestry program. Forestry specific applications will be used to teach these skills.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**
Lec/Lab Hrs per Wk	**0**

FOR 222: Elementary Forest Survey

Introduction to theory and practice of surveying methods and measurements as applied to the specifics of forestry problems and their solutions. Combined with other technical skills, this courseis designedto assist in preparing students for the parts of the Fundamentals of Land Surveying exam, which is necessary to become a professional land surveyor.

Credits	**4**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**3**
Prerequisites	**Recommended: RDWR 115 andMTH 99 (at theMTH 70level), orhigher.**

FOR222: Elementary Forest Survey

Introduction to theory and practice of surveying methods and measurements as applied to the specifics of forestry problems and their solutions. Combined with other technical skills, this courseis designedto assist in preparing students for the parts of the Fundamentals of Land Surveying exam, which is necessary to become a professional land surveyor.

Credits	**4**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**3**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**Recommended: RDWR 115 andMTH 99 (at theMTH 70level), orhigher.**

FOR 240: Forest Biology

This course will answer the followingquestions;what are forest communities, how do we characterize them, and how do they changeover time? How do plants get and use carbon, water, and nutrients? What are adaptations and natural selection? What are plants and biogeochemical cycles? In addition, students will learn how forests respond to disturbance and ecosystem services that are provided by forests.

Credits	**4**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**3**

FOR240: Forest Biology

This course will answer the followingquestions;what are forest communities, how do we characterize them, and how do they changeover time? How do plants get and use carbon, water, and nutrients? What are adaptations and natural selection? What are plants and biogeochemical cycles? In addition, students will learn how forests respond to disturbance and ecosystem services that are provided by forests.

Credits	**4**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**3**
Lec/Lab Hrs per Wk	**0**

FOR 241: Dendrology

Learn to identify the principal forest trees of North America, and the principal trees and shrubs of the Pacific Northwest, including the ranges over which they grow, important ecological characteristics, and principal uses.Alsolearn about forested regions of the world, and the structure and function of forest plants.

Credits	**3**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**2**

FOR241: Dendrology

Learn to identify the principal forest trees of North America, and the principal trees and shrubs of the Pacific Northwest, including the ranges over which they grow, important ecological characteristics, and principal uses.Alsolearn about forested regions of the world, and the structure and function of forest plants.

Credits	**3**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**2**
Lec/Lab Hrs per Wk	**0**

FOR 251: Recreation Resource Management

Overview of recreation resource management including study of land and water resources used for outdoor recreation. This course explores aspects of recreation management in terrestrial and marine settings including a historical overview, the role of various agencies and interest groups, issues currently confronting these stakeholders, ecological impacts of recreation, and contemporary management approaches for addressing topics such as satisfaction, crowding, and conflict.

Credits	**4**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**3**

FOR251: Recreation Resource Management

Overview of recreation resource management including study of land and water resources used for outdoor recreation. This course explores aspects of recreation management in terrestrial and marine settings including a historical overview, the role of various agencies and interest groups, issues currently confronting these stakeholders, ecological impacts of recreation, and contemporary management approaches for addressing topics such as satisfaction, crowding, and conflict.

Credits	**4**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**3**
Lec/Lab Hrs per Wk	**0**

GED Program

GED 7500: GED Preparation

This class prepares students to pass the GED test. The class is individualized for each learner covering four subjects: Math, Science, Social Studies, and Reasoning through Language Arts. Completion of GED test earns the student a certificate which is regarded as the equivalent of a High School Diploma.

Credits	**0**

General Science Program

GS 106: Physical Science (Geology)

Covers minerals, rocks, volcanism, earthquakes, plate tectonics, erosion and deposition by wind, glaciers and streams, weathering, fossils and geologic history. Includes weekly lab. Prerequisites: RDWR 115 and MTH 20 or equivalent placement test scores. Audit available.

Credits	**4**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**3**

GS106: Physical Science (Geology)

Covers minerals, rocks, volcanism, earthquakes, plate tectonics, erosion and deposition by wind, glaciers and streams, weathering, fossils and geologic history. Includes weekly lab. Prerequisites: RDWR 115 and MTH 20 or equivalent placement test scores. Audit available.

Credits	**4**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**3**
Lec/Lab Hrs per Wk	**0**

GS 107: Physical Science (Astronomy)

Surveys astronomy including the historical development of the universe, Earth as a planet, Earth's moon, planets of the solar system, the sun, stars, and galaxies. Audit available.

Credits	**4**

GS107: Physical Science (Astronomy)

Surveys astronomy including the historical development of the universe, Earth as a planet, Earth's moon, planets of the solar system, the sun, stars, and galaxies. Audit available.

Credits	**4**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**3**
Lec/Lab Hrs per Wk	**0**

GS 108: Physical Science (Oceanography)

Covers the chemical, biological, physical and geological nature of the oceans. Includes required lab activities. Prerequisites: RDWR 115, MTH 70 or placement above these levels. Additional supply fee may be required.

Credits	**4**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**3**

GS108: Physical Science (Oceanography)

Covers the chemical, biological, physical and geological nature of the oceans. Includes required lab activities. Prerequisites: RDWR 115, MTH 70 or placement above these levels. Additional supply fee may be required.

Credits	**4**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**3**
Lec/Lab Hrs per Wk	**0**

GS 109: Physical Science (Meteorology)

The purpose of this course is to gain knowledge and appreciation of meteorology. The course covers characteristics of our atmosphere including air pressure and winds, atmospheric moisture, large air masses, violent storms, climates, and the effect of oceans on weather. Includes a weekly lab. This one-term survey course can be used to partly fulfill General Education/Discipline Studies graduation requirements for the Associate Degrees, and has been approved for block transfer. Prerequisites: RDWR 115, MTH 20 or MTH 99. Audit available.

Credits	**4**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**3**

GS109: Physical Science (Meteorology)

The purpose of this course is to gain knowledge and appreciation of meteorology. The course covers characteristics of our atmosphere including air pressure and winds, atmospheric moisture, large air masses, violent storms, climates, and the effect of oceans on weather. Includes a weekly lab. This one-term survey course can be used to partly fulfill General Education/Discipline Studies graduation requirements for the Associate Degrees, and has been approved for block transfer. Prerequisites: RDWR 115, MTH 20 or MTH 99. Audit available.

Credits	**4**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**3**
Lec/Lab Hrs per Wk	**0**

Geography Program

GEO 106: World Regional Geography

Examines the human, cultural, and environmental geographic issues that shape the world's regions. Includes information on spatial patterns of economic development, natural resource uses, international trade, population and migration, transportation, and cultural landscapes. Analyzes each region as part of the larger global community, with a specific emphasis on current issues and trends. Audit available.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**

GEO106: World Regional Geography

Examines the human, cultural, and environmental geographic issues that shape the world's regions. Includes information on spatial patterns of economic development, natural resource uses, international trade, population and migration, transportation, and cultural landscapes. Analyzes each region as part of the larger global community, with a specific emphasis on current issues and trends. Audit available.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**

GEO 265: Introduction to GIS

Introduction to the appropriate use and potential applications of geographic information systems (GIS) and related technologies (GPS and remote sensing) in forest management and operations planning and problem solving. Students are presented with lectures and exercises that cover a wide range of GIS and GIS-related topics and issues including spatial database creation, structure, analysis, and modeling.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**2**

GEO265: Introduction to GIS

Introduction to the appropriate use and potential applications of geographic information systems (GIS) and related technologies (GPS and remote sensing) in forest management and operations planning and problem solving. Students are presented with lectures and exercises that cover a wide range of GIS and GIS-related topics and issues including spatial database creation, structure, analysis, and modeling.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**
Lec/Lab Hrs per Wk	**0**

Geology Program

G 201: Introduction to Physical Geology

Introduces physical geology, which deals with minerals, rocks, internal structure of the earth and plate tectonics. Includes weekly lab. Prerequisites: RDWR 115, MTH 70 or placement above these levels. Additional supply fee may be required.

Credits	**4**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**3**

G201: Introduction to Physical Geology

Introduces physical geology, which deals with minerals, rocks, internal structure of the earth and plate tectonics. Includes weekly lab. Prerequisites: RDWR 115, MTH 70 or placement above these levels. Additional supply fee may be required.

Credits	**4**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**3**
Lec/Lab Hrs per Wk	**0**

G 202: Physical Geology

Focuses on geologic processes acting on creation of land forms, including mass wasting, streams, glaciers, deserts, beaches, groundwater, and use of topographic maps. Includes a weekly lab. Prerequisites: RDWR 115, MTH 60 or MTH 60Z or placement above these levels. Additional supply fee may be required.

Credits	**4**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**3**

G202: Physical Geology

Focuses on geologic processes acting on creation of land forms, including mass wasting, streams, glaciers, deserts, beaches, groundwater, and use of topographic maps. Includes a weekly lab. Prerequisites: RDWR 115, MTH 60 or MTH 60Z or placement above these levels. Additional supply fee may be required.

Credits	**4**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**3**
Lec/Lab Hrs per Wk	**0**

G 207: Geology of the Pacific Northwest

The purpose of this course is to acquaint the student with basic geologic principles and the regional geology of the Pacific Northwest emphasizing Oregon and Washington. This one-term course can be used to partly fulfill General Studies/Discipline Studies graduation requirements for the Associate Degrees, and has been approved for block transfer. Includes basic geologic principles, earth materials and geology of Pacific Northwest provinces. Recommendation: Prior geology experience. Audit available.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**

G207: Geology of the Pacific Northwest

The purpose of this course is to acquaint the student with basic geologic principles and the regional geology of the Pacific Northwest emphasizing Oregon and Washington. This one-term course can be used to partly fulfill General Studies/Discipline Studies graduation requirements for the Associate Degrees, and has been approved for block transfer. Includes basic geologic principles, earth materials and geology of Pacific Northwest provinces. Recommendation: Prior geology experience. Audit available.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**
Lec/Lab Hrs per Wk	**0**

G 208: Volcanoes and Their Activity

Volcanoes and Their Activity is a one-term introductory course in volcanology, which is a branch of the science of geology. The student will develop an understanding of the types, origin, activity, products, and hazards of volcanoes. This includes the geologic time scale and the evolution of the Earth. Audit available.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**

G208: Volcanoes and Their Activity

Volcanoes and Their Activity is a one-term introductory course in volcanology, which is a branch of the science of geology. The student will develop an understanding of the types, origin, activity, products, and hazards of volcanoes. This includes the geologic time scale and the evolution of the Earth. Audit available.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**
Lec/Lab Hrs per Wk	**0**

G 209: Earthquakes

This is a one-term introductory course in earthquakes/seismology, which is a branch of the science of geology. The student will develop an understanding of the causes, activity, effects, and hazards of earthquakes as well as an understanding of the various methods of measuring the size/energy of an earthquake. The course will use case studies of historical earthquakes to examine ways to minimize earthquake damage, with emphasis on earthquakes in the Pacific Northwest. This includes the geologic time scale and the evolution of the Earth.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**

G209: Earthquakes

This is a one-term introductory course in earthquakes/seismology, which is a branch of the science of geology. The student will develop an understanding of the causes, activity, effects, and hazards of earthquakes as well as an understanding of the various methods of measuring the size/energy of an earthquake. The course will use case studies of historical earthquakes to examine ways to minimize earthquake damage, with emphasis on earthquakes in the Pacific Northwest. This includes the geologic time scale and the evolution of the Earth.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**
Lec/Lab Hrs per Wk	**0**

G 210: Natural Disasters (Environmental Geology)

Introductory geology emphasizing geologic hazards (volcanoes, earthquakes, landslides, flooding), geologic resources (water, soil, air, mineral, energy), and associated environmental problems and mitigation strategies. This course acquaints students with the use and importance of geological studies as they apply to the interactions between people and the earth. NOTE: Laboratory exercises are included through the mode of virtual field trips, which are meant to immerse students in the environments prone to geological catastrophe. These interactive exercises lead students along prominent field trip routes while questioning them, posing questions that require critical thinking, and providing a review and integration of textbook and lecture concepts and principles. Being in the field is considered paramount by most Earth scientists so that students can comprehend geological changes directly, in-situ.

Credits	**4**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**3**

G210: Natural Disasters (Environmental Geology)

Introductory geology emphasizing geologic hazards (volcanoes, earthquakes, landslides, flooding), geologic resources (water, soil, air, mineral, energy), and associated environmental problems and mitigation strategies. This course acquaints students with the use and importance of geological studies as they apply to the interactions between people and the earth. NOTE: Laboratory exercises are included through the mode of virtual field trips, which are meant to immerse students in the environments prone to geological catastrophe. These interactive exercises lead students along prominent field trip routes while questioning them, posing questions that require critical thinking, and providing a review and integration of textbook and lecture concepts and principles. Being in the field is considered paramount by most Earth scientists so that students can comprehend geological changes directly, in-situ.

Credits	**4**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**3**
Lec/Lab Hrs per Wk	**0**

Green Technology Program

GT 106: Introduction to Green Technologies

Students will be introduced to modern technologies and techniques that help to increase material efficiency, and decrease the environmental impact of manufacturing and industry. Topics will include equipment, technology, energy production/consumption and waste disposal. In addition to college credit, this course will provide the training needed to take the MSSC Green Production Certification.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**

Health Program

HE 110: CPR/AED for Professional Rescuers and Health Care Providers

This course provides education and training in infant, child, adult CPR, AED, and Bag-Valve masks for people who are responsible for delivering emergency care and/or ensuring the public safety. Provides training in bloodborne pathogens. Upon successful completion of this course, students may earn an American Red Cross CPR/AEDfor professional rescuer and Health Care Provider certificate or equivalent American Heart Association certificate. Recommended: RD 115 or placement above this level.

Credits	**1**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**1**

HE110: CPR/AED for Professional Rescuers and Health Care Providers

This course provides education and training in infant, child, adult CPR, AED, and Bag-Valve masks for people who are responsible for delivering emergency care and/or ensuring the public safety. Provides training in bloodborne pathogens. Upon successful completion of this course, students may earn an American Red Cross CPR/AEDfor professional rescuer and Health Care Provider certificate or equivalent American Heart Association certificate. Recommended: RD 115 or placement above this level.

Credits	**1**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**1**
Lec/Lab Hrs per Wk	**0**

HE 112: Standard First Aid and Emergency Care

This courseintroduces basic first aid knowledge in the home, work, and community environment. Upon successful completion of this course, students will receive an American Heart Association (AHA)HeartsaverFirst Aid card.

Credits	**1**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**1**

HE112: Standard First Aid and Emergency Care

This courseintroduces basic first aid knowledge in the home, work, and community environment. Upon successful completion of this course, students will receive an American Heart Association (AHA)HeartsaverFirst Aid card.

Credits	**1**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**1**
Lec/Lab Hrs per Wk	**0**

HE 250: Personal Health

Breakdown of personal health concepts into a week by week walk through of emotional, physical, nutritional, social, sexual, and general health issues. Students will translate these educational concepts and theoretically adapt them into their personal healthy lifestyles.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**

HE250: Personal Health

Breakdown of personal health concepts into a week by week walk through of emotional, physical, nutritional, social, sexual, and general health issues. Students will translate these educational concepts and theoretically adapt them into their personal healthy lifestyles.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**
Lec/Lab Hrs per Wk	**0**

HE 295: Health and Fitness for Life

Explores the interrelationship of the five components of physical fitness, nutrition and stress management concepts and activities to increase individual health and wellness. Corequisite: PE 295.

Credits	**2**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**2**

HE295: Health and Fitness for Life

Explores the interrelationship of the five components of physical fitness, nutrition and stress management concepts and activities to increase individual health and wellness. Corequisite: PE 295.

Credits	**2**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**2**
Lec/Lab Hrs per Wk	**0**

History Program

HST 100: Introduction to History

Provides a general introduction to the nature and methods of history. Develops awareness of the importance of historical literacy and thinking. Develops intellectual and written communication skills applicable to the study of history and other academic disciplines, as well as a wide variety of professional pursuits. Covers various periods, areas, and fields of history through the use of historical case studies. Prerequisite: RDWR 115 or placement above this level.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**
Prerequisites	**RDWR115**

HST100: Introduction to History

Provides a general introduction to the nature and methods of history. Develops awareness of the importance of historical literacy and thinking. Develops intellectual and written communication skills applicable to the study of history and other academic disciplines, as well as a wide variety of professional pursuits. Covers various periods, areas, and fields of history through the use of historical case studies. Prerequisite: RDWR 115 or placement above this level.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**RDWR115**

HST 101: Western Civilization: Ancient to Medieval

Explores the ancient civilizations of Mesopotamia, Egypt, Greece, and Rome. Covers development of Judeo-Christian beliefs, early Islamic civilization, Byzantine civilization, and early Medieval Europe. Prerequisites: RDWR 115 or placement above this level.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Prerequisites	**RDWR115**

HST101: Western Civilization: Ancient to Medieval

Explores the ancient civilizations of Mesopotamia, Egypt, Greece, and Rome. Covers development of Judeo-Christian beliefs, early Islamic civilization, Byzantine civilization, and early Medieval Europe. Prerequisites: RDWR 115 or placement above this level.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**RDWR115**

HST 102: Western Civilization: Medieval to Early Modern

Studies the High Middle Ages and early modern Europe, including the Renaissance, Reformation, Scientific Revolution, Enlightenment, and the French Revolution. Prerequisites: RDWR115 or placement above this level.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Prerequisites	**RDWR115**

HST102: Western Civilization: Medieval to Early Modern

Studies the High Middle Ages and early modern Europe, including the Renaissance, Reformation, Scientific Revolution, Enlightenment, and the French Revolution. Prerequisites: RDWR115 or placement above this level.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**RDWR115**

HST 103: Western Civilization: Modern Europe

Studies history of nineteenth and twentieth-century Europe, including the Industrial Revolution, nationalism, imperialism, socialism, the Russian Revolution, Nazism, world wars and their aftermath. Prerequisites: RDWR 115 or equivalent placement test scores. Audit available.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Prerequisites	**RDWR115**

HST103: Western Civilization: Modern Europe

Studies history of nineteenth and twentieth-century Europe, including the Industrial Revolution, nationalism, imperialism, socialism, the Russian Revolution, Nazism, world wars and their aftermath. Prerequisites: RDWR 115 or equivalent placement test scores. Audit available.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**RDWR115**

HST 201: History of the US to 1840

Examines cause and effect, and significant trends and movements related to political, social and economic ideas and events from Colonial times to 1840. History courses are non-sequential and may be taken in any term and in any order. Prerequisite: RDWR 115 or placement above this level.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Prerequisites	**RDWR115**

HST201: History of the US to 1840

Examines cause and effect, and significant trends and movements related to political, social and economic ideas and events from Colonial times to 1840. History courses are non-sequential and may be taken in any term and in any order. Prerequisite: RDWR 115 or placement above this level.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**RDWR115**

HST 202: US History 1840-1914

Examines cause and effect, and significant trends and movements related to political, social and economic ideas and events from 1840 to 1914. History courses are non-sequential and may be taken in any term and in any order. Prerequisites: RDWR 115 or placement above this level.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Prerequisites	**RDWR115**

HST202: US History 1840-1914

Examines cause and effect, and significant trends and movements related to political, social and economic ideas and events from 1840 to 1914. History courses are non-sequential and may be taken in any term and in any order. Prerequisites: RDWR 115 or placement above this level.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**RDWR115**

HST 203: US History 1914 to Present

Examines cause and effect, and significant trends and movements related to political, social and economic ideas and events from 1914 to present. History courses are non-sequential and may be taken in any term and in any order. Prerequisites: RDWR 115 or placement above this level.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Prerequisites	**RDWR115**

HST203: US History 1914 to Present

Examines cause and effect, and significant trends and movements related to political, social and economic ideas and events from 1914 to present. History courses are non-sequential and may be taken in any term and in any order. Prerequisites: RDWR 115 or placement above this level.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**RDWR115**

HST 204: History of Women in the U.S.: Pre-colonial to 1877

Examines the lives of women in terms of family relations, religion, culture, sexuality and reproduction, and work roles from Pre-Colonial times to 1877. Also covers educational opportunities and social reform activities. Explores diversity in terms of class, race, ethnicity, legal status, and region. History courses are non-sequential and may be taken in any term and in any order. Prerequisites: RDWR 115. Audit available

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**

HST204: History of Women in the U.S.: Pre-colonial to 1877

Examines the lives of women in terms of family relations, religion, culture, sexuality and reproduction, and work roles from Pre-Colonial times to 1877. Also covers educational opportunities and social reform activities. Explores diversity in terms of class, race, ethnicity, legal status, and region. History courses are non-sequential and may be taken in any term and in any order. Prerequisites: RDWR 115. Audit available

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**

HST 205: History of Women in the U.S.: 1877to Present

Examines women's work in the maturing industrial economy, women's reform activities, and changing family and social relationships. Explores class, ethnic, racial, and regional diversity. History courses are non-sequential and may be taken in any term and in any order. Prerequisites: WR 115. Audit available.

Credits	**4**

HST205: History of Women in the U.S.: 1877to Present

Examines women's work in the maturing industrial economy, women's reform activities, and changing family and social relationships. Explores class, ethnic, racial, and regional diversity. History courses are non-sequential and may be taken in any term and in any order. Prerequisites: WR 115. Audit available.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**

HST 246: Religion in the United States to 1840

Covers the basic features and effects of Native American religions, religious revitalization movements, European backgrounds of Christian denominations, development of different religious groups, church-state relations, the struggle for religious liberty, and how they shaped the beliefs, behaviors, and institutions of colonial America and the early United States. Prerequisites: RDWR 115 or placement above these levels.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Prerequisites	**RDWR115**

HST246: Religion in the United States to 1840

Covers the basic features and effects of Native American religions, religious revitalization movements, European backgrounds of Christian denominations, development of different religious groups, church-state relations, the struggle for religious liberty, and how they shaped the beliefs, behaviors, and institutions of colonial America and the early United States. Prerequisites: RDWR 115 or placement above these levels.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**RDWR115**

HST 247: Religion in the United States since1840

Covers basic features of American religions as they developed from 1840 to the present. Explores beliefs and practices of different religious groups in the United States and their impact on American life. Prerequisite: RDWR 115 or equivalent placement test scores. Audit available

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Prerequisites	**RDWR115**

HST247: Religion in the United States since1840

Covers basic features of American religions as they developed from 1840 to the present. Explores beliefs and practices of different religious groups in the United States and their impact on American life. Prerequisite: RDWR 115 or equivalent placement test scores. Audit available

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**RDWR115**

HST 260: History of Sexuality in America

A historical approach to sexuality and gender relations in North America from the pre-colonial period to the present day. Key themes in the course will include the relationship between medical knowledge and sexual ethics; the evolution of social perceptions and communal regulation of normal and aberrant sexual behavior; and changing degrees of freedom and constraint in accepted sexual practice and gender roles. Prerequisites: WR 121.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Prerequisites	**WR121Z**

HST260: History of Sexuality in America

A historical approach to sexuality and gender relations in North America from the pre-colonial period to the present day. Key themes in the course will include the relationship between medical knowledge and sexual ethics; the evolution of social perceptions and communal regulation of normal and aberrant sexual behavior; and changing degrees of freedom and constraint in accepted sexual practice and gender roles. Prerequisites: WR 121.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**WR121Z**

HST 285: The Holocaust

Introduces the aftermath of World War I and the rise of the Nazis, the historical roots of anti-Semitism, the evolution of the Final Solution and its coordination in Nazi-occupied Europe, the victims of Nazi policies, the camps, the perpetrators, bystanders, and the aftermath of the Holocaust. Prerequisites: RDWR 115 or equivalent placement test scores. Audit available.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Prerequisites	**RDWR115**

HST285: The Holocaust

Introduces the aftermath of World War I and the rise of the Nazis, the historical roots of anti-Semitism, the evolution of the Final Solution and its coordination in Nazi-occupied Europe, the victims of Nazi policies, the camps, the perpetrators, bystanders, and the aftermath of the Holocaust. Prerequisites: RDWR 115 or equivalent placement test scores. Audit available.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**RDWR115**

Horticulture Program

HORT 111: Introduction to Horticulture

Provides a broadoverview of the horticulture industry in Oregon. Introduces environmental factors important to plant growth. Covers basic principles of soils, media and plant nutrition. Discusses major components of horticulture industry including nursery and greenhouse, tree fruits, small fruits, vegetables and landscape. Presents scope of career opportunities in horticulture.

Credits	**3**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**2**

HORT111: Introduction to Horticulture

Provides a broadoverview of the horticulture industry in Oregon. Introduces environmental factors important to plant growth. Covers basic principles of soils, media and plant nutrition. Discusses major components of horticulture industry including nursery and greenhouse, tree fruits, small fruits, vegetables and landscape. Presents scope of career opportunities in horticulture.

Credits	**3**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**2**
Lec/Lab Hrs per Wk	**0**

Industrial Maintenance Technology Program

IMT 100: Introduction to Trades

This course introduces the student to trade careers and culturally competent communication. Throughout the course, we will examine the role(s) of the Bureau of Labor and Industries and the Joint Apprenticeship Training Committee. In addition to this, the course will layout a framework for culturally competent communication using the BOLI High 5 Teams training. This course is required by BOLI for all students in the program.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**

IMT100: Introduction to Trades

This course introduces the student to trade careers and culturally competent communication. Throughout the course, we will examine the role(s) of the Bureau of Labor and Industries and the Joint Apprenticeship Training Committee. In addition to this, the course will layout a framework for culturally competent communication using the BOLI High 5 Teams training. This course is required by BOLI for all students in the program.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**
Lec/Lab Hrs per Wk	**0**

IMT 105: Industrial Safety/OSHA 10 (GeneralIndustry)

Provides an introduction to the essential skills needed to maintain safety in industrial workplaces. Includes information regarding general accident prevention. Applies OSHA and OR-OSHA rules and laws to develop safe operational processes and procedures for common situations that occur in general manufacturing industries.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**

IMT105: Industrial Safety/OSHA 10 (GeneralIndustry)

Provides an introduction to the essential skills needed to maintain safety in industrial workplaces. Includes information regarding general accident prevention. Applies OSHA and OR-OSHA rules and laws to develop safe operational processes and procedures for common situations that occur in general manufacturing industries.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**

IMT 106: Hand Tool Safety

Develops understanding of the hand tools and power tools used in the construction trades. Identifies commonly used hand/power tools, selecting the correct tool to complete assigned projects and working in a safe and competent manner. Emphasizes safety and care of tools.

Credits	**1**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**0**

IMT106: Hand Tool Safety

Develops understanding of the hand tools and power tools used in the construction trades. Identifies commonly used hand/power tools, selecting the correct tool to complete assigned projects and working in a safe and competent manner. Emphasizes safety and care of tools.

Credits	**1**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**1**
Lec/Lab Hrs per Wk	**0**

IMT 108: Rigging, Lifting, and Safety Inspection

Provides instruction in fundamental rigging skills, including industrial knots, rigging calculations, rigging and hand signals, gear selection, overhead crane operation, and lift operation. Inspection, safety, and practical applications are stressed. Prerequisite MTH 20 or higher placement.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**2**
Prerequisites	**MTH020**

IMT108: Rigging, Lifting, and Safety Inspection

Provides instruction in fundamental rigging skills, including industrial knots, rigging calculations, rigging and hand signals, gear selection, overhead crane operation, and lift operation. Inspection, safety, and practical applications are stressed. Prerequisite MTH 20 or higher placement.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**2**
Lec/Lab Hrs per Wk	**2**
Prerequisites	**MTH020**

IMT 109: Hydraulics I

Provides instruction in reading and developing an understanding of hydraulic theory, analysis of fundamental hydraulic schematics, troubleshooting common hydraulic problems and maintaining hydraulic systems used in a variety of production applications. Prerequisite MTH 20 or higher placement. Additional supply fee may be required.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**2**

IMT109: Hydraulics I

Provides instruction in reading and developing an understanding of hydraulic theory, analysis of fundamental hydraulic schematics, troubleshooting common hydraulic problems and maintaining hydraulic systems used in a variety of production applications. Prerequisite MTH 20 or higher placement. Additional supply fee may be required.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**2**
Lec/Lab Hrs per Wk	**2**

IMT 118: Bearings, Seals and Lubrication

Provides an introduction to bearings, seals, and lubrication types and techniques used in industry to develop skills in diagnosis, inspection, and repair of moving parts. Additional supply fee may be required.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**2**

IMT118: Bearings, Seals and Lubrication

Provides an introduction to bearings, seals, and lubrication types and techniques used in industry to develop skills in diagnosis, inspection, and repair of moving parts. Additional supply fee may be required.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**2**
Lec/Lab Hrs per Wk	**2**

IMT 130: Applied Industrial Technology Mathematics

Provides exposure to practical math most commonly encountered in industrial settings. Concepts covered will include: fractions, decimals, units, conversions, measurements, using equations to calculate area and volume, basic algebra and trigonometry. Utilizes real-world scenarios that require application of gained math skills in order to find a solution. Prerequisites: None

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**

IMT130: Applied Industrial Technology Mathematics

Provides exposure to practical math most commonly encountered in industrial settings. Concepts covered will include: fractions, decimals, units, conversions, measurements, using equations to calculate area and volume, basic algebra and trigonometry. Utilizes real-world scenarios that require application of gained math skills in order to find a solution. Prerequisites: None

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**

IMT 140: Small Engine Repair

A hands on course where the various systems of a small internal combustion engine are examined. Over the term, participants will complete a tear down and rebuild of a small engine.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**2**

IMT140: Small Engine Repair

A hands on course where the various systems of a small internal combustion engine are examined. Over the term, participants will complete a tear down and rebuild of a small engine.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**2**
Lec/Lab Hrs per Wk	**2**

IMT 150: Advanced Woods TechnologyWoodtech II

An introduction to the woodworking process. Shop safety is stresses along with proper tool usage. Techniques of advanced joinery will be addressed. Coursework will be project based. Emphasis will be given to construction math, vocabulary, and technique.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**2**

IMT150: Advanced Woods TechnologyWoodtech II

An introduction to the woodworking process. Shop safety is stresses along with proper tool usage. Techniques of advanced joinery will be addressed. Coursework will be project based. Emphasis will be given to construction math, vocabulary, and technique.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**2**
Lec/Lab Hrs per Wk	**2**

IMT 151: Advanced Construction

This is a group project class providing applied instruction for a customer based project. The class will focus on a construction project involving components of the entire construction process. Considerations will be made for layout, cost, process, tooling, fixtures, and time to complete. Class will conclude with the delivery of the product to the customer. Additional supply fee required. Prerequisite: IMT 150

Credits	**4**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**1**
Prerequisites	**IMT150**

IMT151: Advanced Construction

This is a group project class providing applied instruction for a customer based project. The class will focus on a construction project involving components of the entire construction process. Considerations will be made for layout, cost, process, tooling, fixtures, and time to complete. Class will conclude with the delivery of the product to the customer. Additional supply fee required. Prerequisite: IMT 150

Credits	**4**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**1**
Lec/Lab Hrs per Wk	**4**
Prerequisites	**IMT150**

IMT 170: Industry Logistics

Industry Logistics introduced students to the core principles related to material handling and supply chain logistics. Topics include Dispatch, shipping, receiving, inventory control, and life cycle. Successful completion of this class will result in the MSSC Certified Logistics Technician CLA and CLT certifications. Associated Program: Manufacturing and Industrial Tech

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**2**

IMT170: Industry Logistics

Industry Logistics introduced students to the core principles related to material handling and supply chain logistics. Topics include Dispatch, shipping, receiving, inventory control, and life cycle. Successful completion of this class will result in the MSSC Certified Logistics Technician CLA and CLT certifications. Associated Program: Manufacturing and Industrial Tech

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**2**
Lec/Lab Hrs per Wk	**2**

IMT 200: Hydraulics II

Provides instruction in how to troubleshoot and maintain industrial pumping systems. Content includes alignment procedures, rebuild methods, installation of packing and seals for pumps and valves and selecting pumps for specific applications. Prerequisite: IMT 105. Additional supply fee may be required.

Credits	**3**
Prerequisites	**IMT109**

IMT200: Hydraulics II

Provides instruction in how to troubleshoot and maintain industrial pumping systems. Content includes alignment procedures, rebuild methods, installation of packing and seals for pumps and valves and selecting pumps for specific applications. Prerequisite: IMT 105. Additional supply fee may be required.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**2**
Lec/Lab Hrs per Wk	**2**
Prerequisites	**IMT109**

IMT 205: Introduction to Pneumatics

Provides an introduction to operating a pneumatic system, including maintenance, and rebuilding procedures. Analysis of pneumatic schematics is included. Additional supply fee may be required.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**2**

IMT205: Introduction to Pneumatics

Provides an introduction to operating a pneumatic system, including maintenance, and rebuilding procedures. Analysis of pneumatic schematics is included. Additional supply fee may be required.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**2**
Lec/Lab Hrs per Wk	**2**

IMT 210: Hydraulics III

Examines the industrial applications of proportional hydraulics theory, application, troubleshooting, and repair of these advanced hydraulic applications. Additional supply fee may be required.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**2**

IMT210: Hydraulics III

Examines the industrial applications of proportional hydraulics theory, application, troubleshooting, and repair of these advanced hydraulic applications. Additional supply fee may be required.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**2**
Lec/Lab Hrs per Wk	**2**

IMT 211: Structural Maintenance

The course takes a look at the components of structural maintenance, including new construction and repair. Emphasis will be placed on safety, cost estimation, material lists, and building process. Additionally, principles of structural repair and maintenance will be covered. Recommended MTH 20/105, RD/WR 115.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**1**

IMT211: Structural Maintenance

The course takes a look at the components of structural maintenance, including new construction and repair. Emphasis will be placed on safety, cost estimation, material lists, and building process. Additionally, principles of structural repair and maintenance will be covered. Recommended MTH 20/105, RD/WR 115.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**1**
Lec/Lab Hrs per Wk	**4**

IMT 222: Lean Manufacturing and Process Control

Provides instruction in concepts of quality, value, industrial standards, and “lean manufacturing” methods involving the improvement of industrial efficiency and production. Also covers the use of statistical process control to improve maintenance and production processes. This class is part of the of the MSSC CPT Certification.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**2**

IMT222: Lean Manufacturing and Process Control

Provides instruction in concepts of quality, value, industrial standards, and “lean manufacturing” methods involving the improvement of industrial efficiency and production. Also covers the use of statistical process control to improve maintenance and production processes. This class is part of the of the MSSC CPT Certification.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**2**
Lec/Lab Hrs per Wk	**2**

IMT 229: Techniques of Preventative Maintenance

Examines the development and implementation of a preventative maintenance program using proven actions and procedures and common computer software. This course also part of the MSSC Certified Production Technician Certification.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**

IMT229: Techniques of Preventative Maintenance

Examines the development and implementation of a preventative maintenance program using proven actions and procedures and common computer software. This course also part of the MSSC Certified Production Technician Certification.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**
Lec/Lab Hrs per Wk	**0**

IMT 251: Advanced Construction IIConstruction Trades B

This is a project based building on the skills in Advanced Construction I class building or finishing a dry structure with an interior, window and lighting options. The project is customer based and built to order as permitted by class space and transportation. It will include interior and exterior work including lighting options. Emphasis will be placed on weatherproofing, insulation, and finish work. Additional supply fee required. Prerequisite: IMT 151

Credits	**4**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**1**
Prerequisites	**IMT151**

IMT251: Advanced Construction IIConstruction Trades B

This is a project based building on the skills in Advanced Construction I class building or finishing a dry structure with an interior, window and lighting options. The project is customer based and built to order as permitted by class space and transportation. It will include interior and exterior work including lighting options. Emphasis will be placed on weatherproofing, insulation, and finish work. Additional supply fee required. Prerequisite: IMT 151

Credits	**4**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**1**
Lec/Lab Hrs per Wk	**4**
Prerequisites	**IMT151**

IMT 270: Industrial Design & Drafting I

Introduces 3 D parametric modeling software as a design tool for manufacturing. This course covers navigating the 3D workspace, creating, editing models, coordinate systems, and making mechanical drawings from models.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**2**

IMT270: Industrial Design & Drafting I

Introduces 3 D parametric modeling software as a design tool for manufacturing. This course covers navigating the 3D workspace, creating, editing models, coordinate systems, and making mechanical drawings from models.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**2**
Lec/Lab Hrs per Wk	**2**

IMT 271: Industrial Design & Drafting II

Using 3 D parametric modeling software as a design tool for manufacturing. This course covers software settings, collaboration, and making smart models. Prerequisites: IMT 270 - Industrial Design & Drafting I or equivalent Introduction to Solidworks Credit coursework

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**2**

IMT271: Industrial Design & Drafting II

Using 3 D parametric modeling software as a design tool for manufacturing. This course covers software settings, collaboration, and making smart models. Prerequisites: IMT 270 - Industrial Design & Drafting I or equivalent Introduction to Solidworks Credit coursework

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**2**
Lec/Lab Hrs per Wk	**2**

IMT 272: Industrial Design & Drafting III

Using 3 D parametric modeling software as a design tool for manufacturing. This course covers creating photorealistic renderings of designs, checking designs for function, preparing designs for CAM Prerequisites: IMT 271 - Industrial Design & Drafting ll or equivalent Introduction to Solidworks Credit coursework

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**2**

IMT272: Industrial Design & Drafting III

Using 3 D parametric modeling software as a design tool for manufacturing. This course covers creating photorealistic renderings of designs, checking designs for function, preparing designs for CAM Prerequisites: IMT 271 - Industrial Design & Drafting ll or equivalent Introduction to Solidworks Credit coursework

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**2**
Lec/Lab Hrs per Wk	**2**

IMT 280: Cooperative Education

Students earn credit for learning from practical experience at a worksite related to their major or career goal. Appropriate work experiences provide opportunities for new learning and skill development. Recommended: RDWR 115 and MTH 105 Or Department Approval. Associated program: AAS in Manufacturing and Industrial Technology

Credits	**3**
Lab Hrs per Wk	**9**
Lecture Hrs per Wk	**0**

IMT280: Cooperative Education

Students earn credit for learning from practical experience at a worksite related to their major or career goal. Appropriate work experiences provide opportunities for new learning and skill development. Recommended: RDWR 115 and MTH 105 Or Department Approval. Associated program: AAS in Manufacturing and Industrial Technology

Credits	**3**
Lab Hrs per Wk	**9**
Lecture Hrs per Wk	**0**
Lec/Lab Hrs per Wk	**0**

Leadership Program

LEAD 110: Leadership & Ethics in the HelpingProfessions

This course covers personal and professional ethics within Helping Professions (Human Services, Criminal Justice, Psychology, Social Work, and Education). Examines self-awareness and cultural intelligence as a foundation for ethical leadership. Students will apply ethical practices to case studies associated with work in these fields. Recommended: RDWR 115

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**

LEAD110: Leadership & Ethics in the HelpingProfessions

This course covers personal and professional ethics within Helping Professions (Human Services, Criminal Justice, Psychology, Social Work, and Education). Examines self-awareness and cultural intelligence as a foundation for ethical leadership. Students will apply ethical practices to case studies associated with work in these fields. Recommended: RDWR 115

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**

LEAD 242: Personal Leadership Development

A foundational course for leadership development. In this course you will become familiar with foundational leadership ideas including relevant leadership theories, styles, approaches, traits, ethics, conflict management, and change. For each topic we will build upon theories to help you apply the concepts to your everyday life and leadership.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**

LEAD242: Personal Leadership Development

A foundational course for leadership development. In this course you will become familiar with foundational leadership ideas including relevant leadership theories, styles, approaches, traits, ethics, conflict management, and change. For each topic we will build upon theories to help you apply the concepts to your everyday life and leadership.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**
Lec/Lab Hrs per Wk	**0**

Library Program

LIB 101: Navigating the Sea of Information

Introduces the research process and essential research skills to find, select, and cite the best information. Teaches identification of research topics, planning and carrying out the research process, and how to identify and cite preferred sources of credible information. Prerequisites: Placement into RDWR 115. Audit available.

Credits	**1**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**1**

LIB101: Navigating the Sea of Information

Introduces the research process and essential research skills to find, select, and cite the best information. Teaches identification of research topics, planning and carrying out the research process, and how to identify and cite preferred sources of credible information. Prerequisites: Placement into RDWR 115. Audit available.

Credits	**1**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**1**
Lec/Lab Hrs per Wk	**0**

LIB 102: Peer Tutoring

In this class students will work as peer tutors in the Learning Lounge providing providing academic tutoring & writing assistance; teaching study skills strategies on an individual basis; facilitating skills development workshops & presentations; giving presentations & workshops; Leading review sessions for courses as needed; introducing students to academic support services; guiding students through short- and long-term planning; publicizing ASC programs. Students will gain interpersonal relationship skills and mentor other students. May be repeated for up to 4 credits. Prerequisites: Application, one recommendation from subject specific faculty, minimum GPA of 3.0 and a willingness to develop a rapport with faculty in the academic specialization/s in which they tutor.

Credits	**1-4**
Lab Hrs per Wk	**4**
Lecture Hrs per Wk	**0**

LIB102: Peer Tutoring

In this class students will work as peer tutors in the Learning Lounge providing providing academic tutoring & writing assistance; teaching study skills strategies on an individual basis; facilitating skills development workshops & presentations; giving presentations & workshops; Leading review sessions for courses as needed; introducing students to academic support services; guiding students through short- and long-term planning; publicizing ASC programs. Students will gain interpersonal relationship skills and mentor other students. May be repeated for up to 4 credits. Prerequisites: Application, one recommendation from subject specific faculty, minimum GPA of 3.0 and a willingness to develop a rapport with faculty in the academic specialization/s in which they tutor.

Credits	**1**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**0**
Lec/Lab Hrs per Wk	**0**

Linguistics Program

LING 214: Introduction to Linguistics

An introduction to the study of linguistic structure/function (phonetics, phonology, morphology, syntax, semantics and pragmatics) focused on educational contexts, including first and second language acquisition, phonological awareness, bilingualism, dialect diversity, literacy and classroom discourse. Prerequisites: Placement into WR 121

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Prerequisites	**RDWR115**

LING214: Introduction to Linguistics

An introduction to the study of linguistic structure/function (phonetics, phonology, morphology, syntax, semantics and pragmatics) focused on educational contexts, including first and second language acquisition, phonological awareness, bilingualism, dialect diversity, literacy and classroom discourse. Prerequisites: Placement into WR 121

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**RDWR115**

Machine Manufacturing Technology Program

MCH 102: Introduction to Manufacturing

This course includes an orientation to the process flow of manufacturing; introduction to problem solving and laboratory procedures, a survey of common manufacturing processes, including a history of manufacturing technology; economic considerations associated with manufacturing; the influence of product design on process selection on manufacturing taxonomy, surface finish, tolerances, and functional specifications. The completion of the class and assessment will result in an MSSC certificate in Manufacturing Processes and Production.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**

MCH 134: Machining I

A technical elective course in the Associate of Applied Science Degree in the Machine Manufacturing Technology program. An introductory course in material removal operations emphasizing drilling, milling and lathe processes with emphasis on production speeds and feeds. Prerequisite: None. Audit available.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**2**

MCH134: Machining I

A technical elective course in the Associate of Applied Science Degree in the Machine Manufacturing Technology program. An introductory course in material removal operations emphasizing drilling, milling and lathe processes with emphasis on production speeds and feeds. Prerequisite: None. Audit available.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**2**
Lec/Lab Hrs per Wk	**2**

MCH 234: Machining II

This course will provide the student with an introduction to the concepts and technologies from a designer's viewpoint of the principal manufacturing processes utilized by industry. Discussion subjects include the manufacturing system and its operating principles, casting, forming, material removal, welding, quality control, and advanced manufacturing processes, in a lecture/lab environment. Advanced Machining practices will be stressed. Prerequisite: MCH 134.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**2**
Prerequisites	**MCH134**

MCH234: Machining II

This course will provide the student with an introduction to the concepts and technologies from a designer's viewpoint of the principal manufacturing processes utilized by industry. Discussion subjects include the manufacturing system and its operating principles, casting, forming, material removal, welding, quality control, and advanced manufacturing processes, in a lecture/lab environment. Advanced Machining practices will be stressed. Prerequisite: MCH 134.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**2**
Lec/Lab Hrs per Wk	**2**
Prerequisites	**MCH134**

MCH 259: CNC Programming Fundamentals

This course will provide the student with an introduction to the concepts and technologies from a designer's viewpoint of the principal manufacturing processes utilized by industry. Discussion subjects include the programming, tooling and running of CNC milling machines and CNC lathes, in a lecture/lab environment. Advanced Machining practices will be stressed. Prerequisite: MCH 234

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**2**
Prerequisites	**MCH134**

MCH259: CNC Programming Fundamentals

This course will provide the student with an introduction to the concepts and technologies from a designer's viewpoint of the principal manufacturing processes utilized by industry. Discussion subjects include the programming, tooling and running of CNC milling machines and CNC lathes, in a lecture/lab environment. Advanced Machining practices will be stressed. Prerequisite: MCH 234

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**2**
Lec/Lab Hrs per Wk	**2**
Prerequisites	**MCH134**

Mathematics Program

MTH 95: Intermediate Algebra

Introduces algebraic concepts and processes with a focus on exponents, polynomials, rational expressions, radicals, and complex numbers. Real life application problems are solved using systems of equations. Graphs, formulas and proper mathematical languag

- **Max Credits** 4

Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**

MTH 99: Math with ALEKS

In this computer-based course students have the opportunity to move through more than one developmental math level in one term (saving time and money). It is designed for students who need to take several math courses before entering a program and who hav

- **Max Credits** 4

Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**

MTH 105Q: Corequisite for Math in Society

This support course focuses on the foundational skills and concepts needed to be persistent and successful in MTH 105. Students will receive appropriate support as needed in arithmetic, algebra, problem solving, geometry, technology, and study skills. Prerequisite: none. Co-Requisite: MTH 105.

Credits	**1**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**0**

MTH105Q: Corequisite for Math in Society

This support course focuses on the foundational skills and concepts needed to be persistent and successful in MTH 105. Students will receive appropriate support as needed in arithmetic, algebra, problem solving, geometry, technology, and study skills. Prerequisite: none. Co-Requisite: MTH 105.

Credits	**1**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**0**
Lec/Lab Hrs per Wk	**0**

MTH 105Z: Math in Society

An exploration of present-day applications of mathematics focused on developing numeracy. Major topics include quantitative reasoning and problem-solving strategies, probability and statistics, and financial mathematics; these topics are to be weighted approximately equally. This course emphasizes mathematical literacy and communication, relevant everyday applications, and the appropriate use of current technology. Prerequisites: MTH 20 or placement into a course for which MTH 20 is a prerequisite or Corequisite: MTH 105Q can be taken simultaneously with MTH 105.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**

MTH105Z: Math in Society

An exploration of present-day applications of mathematics focused on developing numeracy. Major topics include quantitative reasoning and problem-solving strategies, probability and statistics, and financial mathematics; these topics are to be weighted approximately equally. This course emphasizes mathematical literacy and communication, relevant everyday applications, and the appropriate use of current technology. Prerequisites: MTH 20 or placement into a course for which MTH 20 is a prerequisite or Corequisite: MTH 105Q can be taken simultaneously with MTH 105.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**

MTH 111Q: Corequisite for Precalculs I: Functions

This co-requisite course focuses on the foundational mathematical skills and concepts needed to be successful in MTH 111Z: Precalculus I Functions. Students will be able to review basic functions with factoring, square roots, exponents, fractions, and graphing on a coordinate plane along with simplifying expressions and solving equations as they relate to those found in algebra. This course also informs students of ways they can receive support in the areas of technology, time management, and study skills. Prerequisite: None. Co-Requisite: MTH 111Z

Credits	**1**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**0**

MTH111Q: Corequisite for Precalculs I: Functions

This co-requisite course focuses on the foundational mathematical skills and concepts needed to be successful in MTH 111Z: Precalculus I Functions. Students will be able to review basic functions with factoring, square roots, exponents, fractions, and graphing on a coordinate plane along with simplifying expressions and solving equations as they relate to those found in algebra. This course also informs students of ways they can receive support in the areas of technology, time management, and study skills. Prerequisite: None. Co-Requisite: MTH 111Z

Credits	**1**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**0**
Lec/Lab Hrs per Wk	**2**

MTH 111Z: Precalculus I: Functions

A course primarily designed for students preparing for trigonometry or calculus. This course focuses on functions and their properties, including polynomial, rational, exponential, logarithmic, piecewise-defined, and inverse functions. These topics will be explored symbolically, numerically, and graphically in real-life applications and interpreted in context. This course emphasizes skill building, problem solving, modeling, reasoning, communication, connections with other disciplines, and the appropriate use of present-day technology.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Prerequisites	**MTH095, RDWR115**

MTH111Z: Precalculus I: Functions

A course primarily designed for students preparing for trigonometry or calculus. This course focuses on functions and their properties, including polynomial, rational, exponential, logarithmic, piecewise-defined, and inverse functions. These topics will be explored symbolically, numerically, and graphically in real-life applications and interpreted in context. This course emphasizes skill building, problem solving, modeling, reasoning, communication, connections with other disciplines, and the appropriate use of present-day technology.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**MTH095, RDWR115**

MTH 112Z: Precalculus II: Trigonometry

A course primarily designed for students preparing for calculus and related disciplines. This course explores trigonometric functions and their applications as well as the language and measurement of angles, triangles, circles, and vectors. These topics will be explored symbolically, numerically, and graphically in real-life applications and interpreted in context. This course emphasizes skill building, problem solving, modeling, reasoning, communication, connections with other disciplines, and the appropriate use of present-day technology.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Prerequisites	**MTH11Z, RDWR115**

MTH112Z: Precalculus II: Trigonometry

A course primarily designed for students preparing for calculus and related disciplines. This course explores trigonometric functions and their applications as well as the language and measurement of angles, triangles, circles, and vectors. These topics will be explored symbolically, numerically, and graphically in real-life applications and interpreted in context. This course emphasizes skill building, problem solving, modeling, reasoning, communication, connections with other disciplines, and the appropriate use of present-day technology.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**MTH11Z, RDWR115**

MTH 211: Foundations of Elementary Math I

Surveys mathematical topics for those interested in the presentation of mathematics at the K-9 levels. Topics emphasized are problem solving, patterns, sequences, set theory, logic, numeration systems, number bases, arithmetic operations, and number theory. Various manipulative and problem solving strategies are used. Prerequisite: MTH 95 or higher, and WR 115 and RD 115 or equivalent placement test scores. Audit available.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Prerequisites	**MTH095, RDWR115**

MTH211: Foundations of Elementary Math I

Surveys mathematical topics for those interested in the presentation of mathematics at the K-9 levels. Topics emphasized are problem solving, patterns, sequences, set theory, logic, numeration systems, number bases, arithmetic operations, and number theory. Various manipulative and problem solving strategies are used. Prerequisite: MTH 95 or higher, and WR 115 and RD 115 or equivalent placement test scores. Audit available.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**MTH095, RDWR115**

MTH 212: Foundations of Elementary Math II

Surveys mathematical topics for those interested in the presentation of mathematics at the K-9 levels. Various manipulatives and problem solving approaches are used to explore rational numbers (fractions, decimals, percents), integers, the set of irrational numbers, the set of real numbers, and simple probability and statistics. Prerequisite: MTH 211 and its prerequisite requirements. Audit available.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Prerequisites	**MTH211**

MTH212: Foundations of Elementary Math II

Surveys mathematical topics for those interested in the presentation of mathematics at the K-9 levels. Various manipulatives and problem solving approaches are used to explore rational numbers (fractions, decimals, percents), integers, the set of irrational numbers, the set of real numbers, and simple probability and statistics. Prerequisite: MTH 211 and its prerequisite requirements. Audit available.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**MTH211**

MTH 213: Foundations of Elementary Math III

Surveys mathematical topics for those interested in the presentation of mathematics at the K-9 levels. Various manipulatives and problem solving approaches are used to explore informal geometry, transformational geometry, and measurement systems. Prerequisite: MTH 211 and its prerequisite requirements. Audit available.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Prerequisites	**MTH212**

MTH213: Foundations of Elementary Math III

Surveys mathematical topics for those interested in the presentation of mathematics at the K-9 levels. Various manipulatives and problem solving approaches are used to explore informal geometry, transformational geometry, and measurement systems. Prerequisite: MTH 211 and its prerequisite requirements. Audit available.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**MTH212**

MTH 231: Discrete Mathematics

Introduces elementary logic and set theory, functions, proof techniques, contradiction and contraposition, mathematical induction and recursion, elementary combinatorics, basic graph theory and minimal spanning trees. Prerequisites: MTH 111.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**

MTH231: Discrete Mathematics

Introduces elementary logic and set theory, functions, proof techniques, contradiction and contraposition, mathematical induction and recursion, elementary combinatorics, basic graph theory and minimal spanning trees. Prerequisites: MTH 111.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**

MTH 241: Calculus for Management, Life and Social Science

Includes limits, continuity, derivatives, and integrals. Investigates applications from science, business, and social science perspectives. Prerequisites: MTH 111.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Prerequisites	**MTH111Z**

MTH241: Calculus for Management, Life and Social Science

Includes limits, continuity, derivatives, and integrals. Investigates applications from science, business, and social science perspectives. Prerequisites: MTH 111.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**MTH111Z**

MTH 251Z: Differential Calculus

This course explores limits, continuity, derivatives, and their applications for real-valued functions of a single variable. These topics will be explored graphically, numerically, and symbolically in real-life applications. This course emphasizes abstraction, problem-solving, modeling, reasoning, communication, connections with other disciplines, and the appropriate use of technology. Prerequisite: MTH 112 or equivalent.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Prerequisites	**MTH112Z**

MTH251Z: Differential Calculus

This course explores limits, continuity, derivatives, and their applications for real-valued functions of a single variable. These topics will be explored graphically, numerically, and symbolically in real-life applications. This course emphasizes abstraction, problem-solving, modeling, reasoning, communication, connections with other disciplines, and the appropriate use of technology. Prerequisite: MTH 112 or equivalent.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**MTH112Z**

MTH 252Z: Integral Calculus

This course explores Riemann sums, definite integrals, and indefinite integrals for real-valued functions of a single variable. These topics will be explored graphically, numerically, and symbolically in real-life applications. This course emphasizes abstraction, problem-solving, modeling, reasoning, communication, connections with other disciplines, and the appropriate use of technology. Prerequisite: MTH 251 or equivalent. ADDENDUM TO COURSE DESCRIPTION: This is the second course of four courses in the Calculus sequence.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Prerequisites	**MTH251Z**

MTH252Z: Integral Calculus

This course explores Riemann sums, definite integrals, and indefinite integrals for real-valued functions of a single variable. These topics will be explored graphically, numerically, and symbolically in real-life applications. This course emphasizes abstraction, problem-solving, modeling, reasoning, communication, connections with other disciplines, and the appropriate use of technology. Prerequisite: MTH 251 or equivalent. ADDENDUM TO COURSE DESCRIPTION: This is the second course of four courses in the Calculus sequence.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**MTH251Z**

MTH 253Z: Calculus: Sequence and Series

This course explores real-valued sequences and series, including power and Taylor series. Topics include convergence and divergence tests and applications. These topics will be explored graphically, numerically, and symbolically. This course emphasizes abstraction, problem-solving, reasoning, communication, connections with other disciplines, and the appropriate use of technology. Prerequisites: MTH 252 or equivalent. ADDENDUM TO COURSE DESCRIPTION: This is the third course of four courses in the Calculus sequence.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Prerequisites	**MTH252Z**

MTH253Z: Calculus: Sequence and Series

This course explores real-valued sequences and series, including power and Taylor series. Topics include convergence and divergence tests and applications. These topics will be explored graphically, numerically, and symbolically. This course emphasizes abstraction, problem-solving, reasoning, communication, connections with other disciplines, and the appropriate use of technology. Prerequisites: MTH 252 or equivalent. ADDENDUM TO COURSE DESCRIPTION: This is the third course of four courses in the Calculus sequence.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**MTH252Z**

STAT 243Q: Corequisite for Statistics I

This support course focuses on the foundational skills, concepts and communication needed to be persistent and successful in STAT 243Z. Students will receive appropriate support as needed in quantitative and reasoning skills, reading comprehension, problem solving, technology, and study skills. Prerequisite: None. Co-Requisite: STAT 243Z.

Credits	**1**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**0**

STAT243Q: Corequisite for Statistics I

This support course focuses on the foundational skills, concepts and communication needed to be persistent and successful in STAT 243Z. Students will receive appropriate support as needed in quantitative and reasoning skills, reading comprehension, problem solving, technology, and study skills. Prerequisite: None. Co-Requisite: STAT 243Z.

Credits	**1**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**0**
Lec/Lab Hrs per Wk	**0**

STAT 243Z: Elementary Statistics I

A first course in statistics focusing on the interpretation and communication of statistical concepts. Introduces exploratory data analysis, descriptive statistics, sampling methods and distributions, point and interval estimates, hypothesis tests for means and proportions, and elements of probability and correlation. Technology will be used when appropriate Recommend: College-level writing skills and completion of MTH 105Z before enrolling in STAT 243Z are both highly recommended.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**

STAT243Z: Elementary Statistics I

A first course in statistics focusing on the interpretation and communication of statistical concepts. Introduces exploratory data analysis, descriptive statistics, sampling methods and distributions, point and interval estimates, hypothesis tests for means and proportions, and elements of probability and correlation. Technology will be used when appropriate Recommend: College-level writing skills and completion of MTH 105Z before enrolling in STAT 243Z are both highly recommended.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**

STAT 244: Elementary Statistics II

Explores hypothesis testing, including z-tests, t-tests, ANOVA, and chi-square. Examines linear regression and correlation. Investigates applications from science, business, and social science perspectives. Technology will be used when appropriate. Prerequisite: STAT 243Z. ADDENDUM TO COURSE DESCRIPTION: This is the second term of a two-term sequence (STAT 243Z and 244). This course is intended to provide an introduction to statistics in a data-based setting.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Prerequisites	**STAT243Z**

STAT244: Elementary Statistics II

Explores hypothesis testing, including z-tests, t-tests, ANOVA, and chi-square. Examines linear regression and correlation. Investigates applications from science, business, and social science perspectives. Technology will be used when appropriate. Prerequisite: STAT 243Z. ADDENDUM TO COURSE DESCRIPTION: This is the second term of a two-term sequence (STAT 243Z and 244). This course is intended to provide an introduction to statistics in a data-based setting.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**STAT243Z**

Music Program

MUS 105: Music Appreciation

Provides an introduction to understanding symphonic music in the vocal and instrumental genres from the ancient period through the contemporary music of our time. Class will be presented using a multi-media format. Prerequisite: RDWR 115 equivalent or placement above this level.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**
Prerequisites	**RDWR115**

MUS105: Music Appreciation

Provides an introduction to understanding symphonic music in the vocal and instrumental genres from the ancient period through the contemporary music of our time. Class will be presented using a multi-media format. Prerequisite: RDWR 115 equivalent or placement above this level.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**RDWR115**

MUS 108: Music Cultures of the World

Examines musical cultures throughout the world with attention to cultural contexts and musical styles, including but not limited to Africa, the Americas, Asia, Near East, Europe, and the South Pacific.?? Prerequisite: RDWR 115 equivalent or placement above this level.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**
Prerequisites	**RDWR115**

MUS108: Music Cultures of the World

Examines musical cultures throughout the world with attention to cultural contexts and musical styles, including but not limited to Africa, the Americas, Asia, Near East, Europe, and the South Pacific.?? Prerequisite: RDWR 115 equivalent or placement above this level.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**RDWR115**

MUS 110: Fundamentals of Music

Covers the basic concepts of music: pitch, rhythm, meter, intervals, modes, scales, harmony and music notation. Introduces the science of sound and music theory terminology. Begins development of musical performance skills through singing, clapping and performance on the piano keyboard. Also includes basic aural skills. Prerequisite: RDWR 115 equivalent or placement above this level

Credits	**3**
Prerequisites	**RDWR115**

MUS110: Fundamentals of Music

Covers the basic concepts of music: pitch, rhythm, meter, intervals, modes, scales, harmony and music notation. Introduces the science of sound and music theory terminology. Begins development of musical performance skills through singing, clapping and performance on the piano keyboard. Also includes basic aural skills. Prerequisite: RDWR 115 equivalent or placement above this level

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**RDWR115**

MUS 205: Introduction to Jazz History

Covers the 90-year history of jazz, a truly American art form. Examines and analyzes eras, styles, and significant artists. Prerequisite: RDWR 115 equivalent or placement above this level.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**
Prerequisites	**RDWR115**

MUS205: Introduction to Jazz History

Covers the 90-year history of jazz, a truly American art form. Examines and analyzes eras, styles, and significant artists. Prerequisite: RDWR 115 equivalent or placement above this level.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**RDWR115**

MUS 206: Introduction to the History of Rock Music

Introduces the history of rock music. Examines rock music's roots and development, its innovators and significant events through a cultural as well as musical perspective. Prerequisite: RDWR 115 equivalent or placement above this level

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**
Prerequisites	**RDWR115**

MUS206: Introduction to the History of Rock Music

Introduces the history of rock music. Examines rock music's roots and development, its innovators and significant events through a cultural as well as musical perspective. Prerequisite: RDWR 115 equivalent or placement above this level

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**RDWR115**

Natural Resources Program

NAT 201: Managing Natural Resources for theFuture

You'll learn about major natural resource issues of the region and develop critical thinking skills useful in seeking solutions to those issues. Through an overview of the complexities involved in managing natural resources of the Pacific Northwest, this class will model how resource specialists work together to solve real-world problems. You will be encouraged to express and examine the values you hold about natural resources, while learning how to work in an interdisciplinary manner to examine current natural resources issues.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**

NAT201: Managing Natural Resources for theFuture

You'll learn about major natural resource issues of the region and develop critical thinking skills useful in seeking solutions to those issues. Through an overview of the complexities involved in managing natural resources of the Pacific Northwest, this class will model how resource specialists work together to solve real-world problems. You will be encouraged to express and examine the values you hold about natural resources, while learning how to work in an interdisciplinary manner to examine current natural resources issues.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**
Lec/Lab Hrs per Wk	**0**

Nursing Assistant Program

NA 100: Nursing Assistant I

A Certified Nursing Assistant (CNA) is an integral part of the interdisciplinary healthcare system and the nursing team. A CNA works under the supervision of a licensed nurse to provide patient care in a variety of clinical settings. This course provides 37 hours of classroom instruction, 28 hours of skills lab practice and 40 hours of clinical practicum in the roles and responsibilities of a CNA. An additional 2 hours of lecture/lab is required for exam preparation. Upon successful completion of the course, students are eligible to take the Oregon State Board of Nursing certification exam to be licensed as a CNA I.

Credits	**6**
Lab Hrs per Wk	**4**
Lecture Hrs per Wk	**4**

NA100: Nursing Assistant I

A Certified Nursing Assistant (CNA) is an integral part of the interdisciplinary healthcare system and the nursing team. A CNA works under the supervision of a licensed nurse to provide patient care in a variety of clinical settings. This course provides 37 hours of classroom instruction, 28 hours of skills lab practice and 40 hours of clinical practicum in the roles and responsibilities of a CNA. An additional 2 hours of lecture/lab is required for exam preparation. Upon successful completion of the course, students are eligible to take the Oregon State Board of Nursing certification exam to be licensed as a CNA I.

Credits	**6**
Lab Hrs per Wk	**4**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**3**

Nursing Program

NURS 101: Fundamentals of Nursing Practice

This course introduces the foundational concepts and skills essential to professional nursing practice. Emphasis is placed on the nursing process, patient-centered care, safety, communication, evidence-based practice, and clinical judgment. Students develop beginning competency in basic nursing skills, therapeutic communication, documentation, and critical thinking in a variety of healthcare settings. The course also explores the roles and responsibilities of the professional nurse, legal and ethical principles, cultural competence, and interdisciplinary collaboration. Laboratory and clinical experiences provide opportunities for hands-on application of theoretical concepts with a focus on health promotion, hygiene, mobility, and vital signs across the lifespan. Prerequisites: successful completion of AAS nursing program prerequisites

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Prerequisites	**Nursing Prereqs**

NURS101: Fundamentals of Nursing Practice

This course introduces the foundational concepts and skills essential to professional nursing practice. Emphasis is placed on the nursing process, patient-centered care, safety, communication, evidence-based practice, and clinical judgment. Students develop beginning competency in basic nursing skills, therapeutic communication, documentation, and critical thinking in a variety of healthcare settings. The course also explores the roles and responsibilities of the professional nurse, legal and ethical principles, cultural competence, and interdisciplinary collaboration. Laboratory and clinical experiences provide opportunities for hands-on application of theoretical concepts with a focus on health promotion, hygiene, mobility, and vital signs across the lifespan. Prerequisites: successful completion of AAS nursing program prerequisites

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**Nursing Prereqs**

NURS 101C: Fundamentals of Nursing Practice: Application

NURS 101D: Pathophysiology

A didactic course that builds upon knowledge gained in Anatomy and Physiology courses to introduce and discuss pathophysiology in relation to the nursing process throughout the lifespan. This course content will enable the nursing student to utilize the n

- **Max Credits** 3

Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**
Prerequisites	**Nursing Prereqs**

NURS101D: Pathophysiology

A didactic course that builds upon knowledge gained in Anatomy and Physiology courses to introduce and discuss pathophysiology in relation to the nursing process throughout the lifespan. This course content will enable the nursing student to utilize the n

Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**Nursing Prereqs**

NURS 102: Introduction to Nursing Care in Non

This course introduces students to the scope and practice of nursing care in non-acute medical settings. Emphasis is placed on foundational nursing skills, communication techniques, and care coordination in environments such as long-term care facilities, skilled nursing facilities, outpatient clinics, home health agencies, hospice organizations, and ambulatory surgical centers. Students will explore the unique roles, responsibilities, and interdisciplinary collaboration involved in providing patient-centered care outside the hospital setting. Topics include chronic disease management, health promotion, functional assessment, safety, documentation, and regulatory considerations relevant to non-acute care. This course supports the development of clinical reasoning, empathy, and adaptability in diverse community-based healthcare environments. Prerequisites: NURS 101, NURS 101 C, NURS101D

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**
Prerequisites	**NURS101, 101L**

NURS102: Introduction to Nursing Care in Non

This course introduces students to the scope and practice of nursing care in non-acute medical settings. Emphasis is placed on foundational nursing skills, communication techniques, and care coordination in environments such as long-term care facilities, skilled nursing facilities, outpatient clinics, home health agencies, hospice organizations, and ambulatory surgical centers. Students will explore the unique roles, responsibilities, and interdisciplinary collaboration involved in providing patient-centered care outside the hospital setting. Topics include chronic disease management, health promotion, functional assessment, safety, documentation, and regulatory considerations relevant to non-acute care. This course supports the development of clinical reasoning, empathy, and adaptability in diverse community-based healthcare environments. Prerequisites: NURS 101, NURS 101 C, NURS101D

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**NURS101, 101L**

NURS 102C: Introduction to Nursing Care in Non

Provides students with hands-on instruction and practice with nursing skills utilized in non-acute medical settings, including, but not limited to: long-term care facilities, skilled nursing facilities, medical clinics, home health agencies, hospice agenc

- **Max Credits** 6

Lab Hrs per Wk	**180**
Lecture Hrs per Wk	**0**
Prerequisites	**NURS101, 101L**

NURS102C: Introduction to Nursing Care in Non

Provides students with hands-on instruction and practice with nursing skills utilized in non-acute medical settings, including, but not limited to: long-term care facilities, skilled nursing facilities, medical clinics, home health agencies, hospice agenc

Lab Hrs per Wk	**18**
Lecture Hrs per Wk	**0**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**NURS101, 101L**

NURS 102D: Pharmacology

Allows students to draw on knowledge from Anatomy, Physiology, and Pathophysiology in order to build a foundation of knowledge in the pharmacodynamics of medications from a variety of drug classifications for treatment of illness, and promotion and mainte

- **Max Credits** 3

Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**
Prerequisites	**NURS101D**

NURS102D: Pharmacology

Allows students to draw on knowledge from Anatomy, Physiology, and Pathophysiology in order to build a foundation of knowledge in the pharmacodynamics of medications from a variety of drug classifications for treatment of illness, and promotion and mainte

Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**NURS101D**

NURS 103: Advanced Nursing Care in Non-AcuteSettings

This course builds upon foundational nursing knowledge to deepen students' understanding of complex nursing care in non-acute medical environments. Emphasizing clinical reasoning, critical thinking, and advanced nursing skills, students will explore the management of chronic illnesses, complex patient needs, and multidisciplinary care coordination in settings such as long-term care facilities, skilled nursing centers, outpatient clinics, home health, hospice, and ambulatory surgical centers. Students will examine evidence-based approaches to assessment, treatment planning, medication management, symptom control, and psychosocial support tailored to non-acute care populations. The course also highlights ethical considerations, regulatory requirements, and leadership roles in promoting quality care and patient safety. Clinical experiences or simulations provide practical application of advanced nursing concepts to support safe, compassionate, and holistic care. Prerequisites: NURS 101, NURS 101 C, NURS101D, NURS 102, NURS 102 C, NURS 102 D

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Prerequisites	**NURS102, 102C**

NURS103: Advanced Nursing Care in Non-AcuteSettings

This course builds upon foundational nursing knowledge to deepen students' understanding of complex nursing care in non-acute medical environments. Emphasizing clinical reasoning, critical thinking, and advanced nursing skills, students will explore the management of chronic illnesses, complex patient needs, and multidisciplinary care coordination in settings such as long-term care facilities, skilled nursing centers, outpatient clinics, home health, hospice, and ambulatory surgical centers. Students will examine evidence-based approaches to assessment, treatment planning, medication management, symptom control, and psychosocial support tailored to non-acute care populations. The course also highlights ethical considerations, regulatory requirements, and leadership roles in promoting quality care and patient safety. Clinical experiences or simulations provide practical application of advanced nursing concepts to support safe, compassionate, and holistic care. Prerequisites: NURS 101, NURS 101 C, NURS101D, NURS 102, NURS 102 C, NURS 102 D

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**NURS102, 102C**

NURS 103C: Advanced Nursing Care in Non-AcuteSettings: Application

Provides students with additional hands-on practice with nursing skills utilized in non-acute medical settings, including, but not limited to: long-term care facilities, skilled nursing facilities, medical clinics, home health agencies, hospice agencies,

- **Max Credits** 6

Lab Hrs per Wk	**18**
Lecture Hrs per Wk	**0**
Prerequisites	**NURS102, 102C**

NURS103C: Advanced Nursing Care in Non-AcuteSettings: Application

Provides students with additional hands-on practice with nursing skills utilized in non-acute medical settings, including, but not limited to: long-term care facilities, skilled nursing facilities, medical clinics, home health agencies, hospice agencies,

Lab Hrs per Wk	**18**
Lecture Hrs per Wk	**0**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**NURS102, 102C**

NURS 103N: NCLEX-RN Readiness I

NURS 201: Introduction to Nursing Care in Acute Care Settings

This course introduces students to the principles and practices of nursing care in acute medical settings, with a focus on developing foundational skills for safe, entry-level generalist nursing practice. Students will learn to assess, plan, implement, and evaluate patient-centered care while prioritizing safety, critical thinking, and effective communication. Core content includes infection prevention, vital signs, mobility, hygiene, basic pharmacology, documentation, and collaboration within the interprofessional healthcare team. The course provides an overview of various areas of acute care nursing, including but not limited to medical-surgical (med-surg), orthopedics, intensive care (ICU), emergency department (ED), and outpatient services. Through lecture, laboratory, and clinical practicum, students will gain exposure to the types of nursing roles that reflect the scope of care offered in local healthcare communities. Emphasis is placed on preparing students to function competently and compassionately within diverse acute care environments. Prerequisites: NURS 101, NURS 101 C, NURS101D, NURS 102, NURS 102 C, NURS 102 D, NURS 103, NURS 103C, NURS 103D

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Prerequisites	**NURS103, 103C**

NURS201: Introduction to Nursing Care in Acute Care Settings

This course introduces students to the principles and practices of nursing care in acute medical settings, with a focus on developing foundational skills for safe, entry-level generalist nursing practice. Students will learn to assess, plan, implement, and evaluate patient-centered care while prioritizing safety, critical thinking, and effective communication. Core content includes infection prevention, vital signs, mobility, hygiene, basic pharmacology, documentation, and collaboration within the interprofessional healthcare team. The course provides an overview of various areas of acute care nursing, including but not limited to medical-surgical (med-surg), orthopedics, intensive care (ICU), emergency department (ED), and outpatient services. Through lecture, laboratory, and clinical practicum, students will gain exposure to the types of nursing roles that reflect the scope of care offered in local healthcare communities. Emphasis is placed on preparing students to function competently and compassionately within diverse acute care environments. Prerequisites: NURS 101, NURS 101 C, NURS101D, NURS 102, NURS 102 C, NURS 102 D, NURS 103, NURS 103C, NURS 103D

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**NURS103, 103C**

NURS 201C: Introduction to Nursing Care in Acute Care Settings: Application

Provides students with hands-on instruction and practice with nursing skills utilized in various types of nursing found in an acute medical setting, including, but not limited to: Medsurg, orthopedics, ICU, ED, Oncology. The focus is on developing student

- **Max Credits** 6

Lab Hrs per Wk	**18**
Lecture Hrs per Wk	**0**
Prerequisites	**NURS103, 103C**

NURS201C: Introduction to Nursing Care in Acute Care Settings: Application

Provides students with hands-on instruction and practice with nursing skills utilized in various types of nursing found in an acute medical setting, including, but not limited to: Medsurg, orthopedics, ICU, ED, Oncology. The focus is on developing student

Lab Hrs per Wk	**18**
Lecture Hrs per Wk	**0**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**NURS103, 103C**

NURS 201N: NCLEX-RN Readiness II

Second course in a series of four that implements a test preparation plan from Kaplan to prepare students for successful completion of the National Council Licensure Examination for Registered Nurses (NCLEX-RN). Students will gain a beginner level of unde

- **Max Credits** 3

Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**
Prerequisites	**NURS103N**

NURS201N: NCLEX-RN Readiness II

Second course in a series of four that implements a test preparation plan from Kaplan to prepare students for successful completion of the National Council Licensure Examination for Registered Nurses (NCLEX-RN). Students will gain a beginner level of unde

Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**NURS103N**

NURS 202: Advanced Nursing Care in Acute Care Settings

This course builds upon the foundational knowledge and skills acquired in NURS 201 and prepares students to care for patients experiencing advanced disease processes and complex health conditions in acute care environments. Emphasis is placed on applying clinical reasoning, prioritization, and evidence-based nursing interventions across diverse acute care specialties, including medical-surgical, orthopedics, intensive care (ICU), emergency department (ED), and outpatient. Students will deepen their understanding of acute pathophysiology, advanced assessment techniques, pharmacologic management, and collaborative care planning. The course focuses on refining the student's ability to deliver safe, patient-centered care as an entry-level generalist nurse, capable of responding to the evolving needs of individuals in high-acuity and fast-paced hospital settings. Clinical and simulation experiences provide opportunities for students to integrate knowledge, manage multiple patients, and function effectively within interdisciplinary teams. This course supports the development of workforce-ready nurses prepared to complement the scope and complexity of medical services in the local healthcare community. Prerequisites: NURS 101, NURS 101 C, NURS101D, NURS 102, NURS 102 C, NURS 102 D, NURS 103, NURS 103C, NURS 103D, NURS 201, NURS 201C, NURS 201N

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Prerequisites	**NURS201, 201C**

NURS202: Advanced Nursing Care in Acute Care Settings

This course builds upon the foundational knowledge and skills acquired in NURS 201 and prepares students to care for patients experiencing advanced disease processes and complex health conditions in acute care environments. Emphasis is placed on applying clinical reasoning, prioritization, and evidence-based nursing interventions across diverse acute care specialties, including medical-surgical, orthopedics, intensive care (ICU), emergency department (ED), and outpatient. Students will deepen their understanding of acute pathophysiology, advanced assessment techniques, pharmacologic management, and collaborative care planning. The course focuses on refining the student's ability to deliver safe, patient-centered care as an entry-level generalist nurse, capable of responding to the evolving needs of individuals in high-acuity and fast-paced hospital settings. Clinical and simulation experiences provide opportunities for students to integrate knowledge, manage multiple patients, and function effectively within interdisciplinary teams. This course supports the development of workforce-ready nurses prepared to complement the scope and complexity of medical services in the local healthcare community. Prerequisites: NURS 101, NURS 101 C, NURS101D, NURS 102, NURS 102 C, NURS 102 D, NURS 103, NURS 103C, NURS 103D, NURS 201, NURS 201C, NURS 201N

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**NURS201, 201C**

NURS 202C: Advanced Nursing care in Acute Care Settings: Application

rovides students with hands-on practice with nursing skills utilized in various types of nursing found in an acute medical setting, including, but not limited to: Medsurg, orthopedics, ICU, ED, Oncology. The focus is on developing students to build the sk

- **Max Credits** 6

Lab Hrs per Wk	**18**
Lecture Hrs per Wk	**0**
Prerequisites	**NURS201, 201C**

NURS202C: Advanced Nursing care in Acute Care Settings: Application

rovides students with hands-on practice with nursing skills utilized in various types of nursing found in an acute medical setting, including, but not limited to: Medsurg, orthopedics, ICU, ED, Oncology. The focus is on developing students to build the sk

Lab Hrs per Wk	**18**
Lecture Hrs per Wk	**0**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**NURS201, 201C**

NURS 202N: NCLEX-RN Readiness III

Third course in a series of four that implements a test preparation plan from Kaplan to prepare students for successful completion of the National Council Licensure Examination for Registered Nurses (NCLEX-RN). Students will gain an intermediate level of

- **Max Credits** 3

Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**
Prerequisites	**NURS201N**

NURS202N: NCLEX-RN Readiness III

Third course in a series of four that implements a test preparation plan from Kaplan to prepare students for successful completion of the National Council Licensure Examination for Registered Nurses (NCLEX-RN). Students will gain an intermediate level of

Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**NURS201N**

NURS 203: Nursing Care of Specialized Populations

This course prepares nursing students to transition confidently into professional entry-level Registered Nurse roles within the healthcare workforce. Emphasizing the development of leadership and management skills, students will explore key concepts including nursing management principles, collaboration with interdisciplinary healthcare teams, and strategies for promoting high-quality patient outcomes. The course addresses contemporary nursing issues in professional settings, focusing on effective communication, conflict resolution, ethical decision-making, and professional accountability. Critical distinctions between assigning and delegating nursing tasks will be discussed to ensure safe and legal delegation practices. Through interactive discussions and case-based learning, students will develop the knowledge and skills necessary to function as competent nursing professionals and emerging leaders in diverse healthcare environments. Prerequisites: NURS 101, NURS 101 C, NURS101D, NURS 102, NURS 102 C, NURS 102 D, NURS 103, NURS 103C, NURS 103D, NURS 201, NURS 201C, NURS 201N, NURS 202, NURS 202C, NURS 202N

Credits	**2**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**2**
Prerequisites	**NURS202, 202C**

NURS203: Nursing Care of Specialized Populations

This course prepares nursing students to transition confidently into professional entry-level Registered Nurse roles within the healthcare workforce. Emphasizing the development of leadership and management skills, students will explore key concepts including nursing management principles, collaboration with interdisciplinary healthcare teams, and strategies for promoting high-quality patient outcomes. The course addresses contemporary nursing issues in professional settings, focusing on effective communication, conflict resolution, ethical decision-making, and professional accountability. Critical distinctions between assigning and delegating nursing tasks will be discussed to ensure safe and legal delegation practices. Through interactive discussions and case-based learning, students will develop the knowledge and skills necessary to function as competent nursing professionals and emerging leaders in diverse healthcare environments. Prerequisites: NURS 101, NURS 101 C, NURS101D, NURS 102, NURS 102 C, NURS 102 D, NURS 103, NURS 103C, NURS 103D, NURS 201, NURS 201C, NURS 201N, NURS 202, NURS 202C, NURS 202N

Credits	**2**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**2**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**NURS202, 202C**

NURS 203C: Nursing Care of Specialized Populations: Application

Provides students with hands-on instruction and practice with nursing skills utilized in various types of nursing found in an acute medical setting, including, but not limited to: obstetrics, pediatrics, mental health, drug treatment, and the elderly. All

- **Max Credits** 6

Lab Hrs per Wk	**18**
Lecture Hrs per Wk	**0**
Prerequisites	**NURS202, 202C**

NURS203C: Nursing Care of Specialized Populations: Application

Provides students with hands-on instruction and practice with nursing skills utilized in various types of nursing found in an acute medical setting, including, but not limited to: obstetrics, pediatrics, mental health, drug treatment, and the elderly. All

Lab Hrs per Wk	**18**
Lecture Hrs per Wk	**0**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**NURS202, 202C**

NURS 203D: Professionalism and Interprofessionalism Teams in Healthcare

NURS 203N: NCLEX-RN Readiness IV

Fourth course in a series of four that implements a test preparation plan from Kaplan to prepare students for successful completion of the National Council Licensure Examination for Registered Nurses (NCLEX-RN). Students will gain an advanced level of und

- **Max Credits** 4

Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Prerequisites	**NURS202N**

NURS203N: NCLEX-RN Readiness IV

Fourth course in a series of four that implements a test preparation plan from Kaplan to prepare students for successful completion of the National Council Licensure Examination for Registered Nurses (NCLEX-RN). Students will gain an advanced level of und

Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**NURS202N**

Nutrition Program

NUTR 240: Human Nutrition

An introductory nutrition course for nutrition, food science, exercise science, and health science majors. Concepts of nutrient metabolism and utilization, nutrient deficiencies and toxicities, and their relationship to disease prevention and treatment.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**

NUTR240: Human Nutrition

An introductory nutrition course for nutrition, food science, exercise science, and health science majors. Concepts of nutrient metabolism and utilization, nutrient deficiencies and toxicities, and their relationship to disease prevention and treatment.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**
Lec/Lab Hrs per Wk	**0**

Occupational Skills Training Program

OST 101: Work Ethics

This is the first course in the work ethic series common to the Occupational Skills Training program. This course is recommended for all students hoping to quickly transition into the job force. It includes the basics of work ethics including reliability, productivity, problem solving, decision making, interpersonal teamwork, communication, maturity, commitment, and professionalism in the work force.
Associated Program: Occupational Skills Training

Credits	**2**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**2**

OST101: Work Ethics

This is the first course in the work ethic series common to the Occupational Skills Training program. This course is recommended for all students hoping to quickly transition into the job force. It includes the basics of work ethics including reliability, productivity, problem solving, decision making, interpersonal teamwork, communication, maturity, commitment, and professionalism in the work force.
Associated Program: Occupational Skills Training

Credits	**2**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**2**
Lec/Lab Hrs per Wk	**0**

OST 103: Ready, Set, Work!

This job is designed to help students with job seeking skills including resume writing, interview techniques, and the ins and outs of obtaining employment and selling yourself.
Associated Program: Occupational Skills Training

Credits	**1**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**1**

OST103: Ready, Set, Work!

This job is designed to help students with job seeking skills including resume writing, interview techniques, and the ins and outs of obtaining employment and selling yourself.
Associated Program: Occupational Skills Training

Credits	**1**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**1**
Lec/Lab Hrs per Wk	**0**

OST 201: Advanced Work Ethics

This is the second course in the work ethic series common to the Occupational Skills Training program. This course is recommended for all students hoping to quickly transition into the job force. It includes advanced work ethics including big picture thinking, leaderships skills, initiative, problem solving, and an understanding of employer needs and how they fit into this vision. Associated Program: Occupational Skills Training

Credits	**2**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**2**

OST201: Advanced Work Ethics

This is the second course in the work ethic series common to the Occupational Skills Training program. This course is recommended for all students hoping to quickly transition into the job force. It includes advanced work ethics including big picture thinking, leaderships skills, initiative, problem solving, and an understanding of employer needs and how they fit into this vision. Associated Program: Occupational Skills Training

Credits	**2**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**2**
Lec/Lab Hrs per Wk	**0**

Philosophy Program

PHL 201: Being and Knowing

Introduces metaphysics and the theory of knowledge via the works of important figures in the history of philosophy. Prerequisites: RDWR 115 equivalent or placement above these levels.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Prerequisites	**RDWR115**

PHL201: Being and Knowing

Introduces metaphysics and the theory of knowledge via the works of important figures in the history of philosophy. Prerequisites: RDWR 115 equivalent or placement above these levels.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**RDWR115**

PHL 202: Ethics

Studies attempts by philosophers to account for the difference between right and wrong, for the notion of moral obligation and to answer the question: How should we lead our lives? Prerequisites: RDWR 115 equivalent or placement above these levels.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Prerequisites	**RDWR115**

PHL202: Ethics

Studies attempts by philosophers to account for the difference between right and wrong, for the notion of moral obligation and to answer the question: How should we lead our lives? Prerequisites: RDWR 115 equivalent or placement above these levels.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**RDWR115**

Phlebotomy Program

PHET 930F: Phlebotomy I

This course includes 40 hours of classroom instruction in anatomy and physiology of the circulatory system, specimen collection, specimen processing and handling, and laboratory operations (e.g., safety, quality, control, etc.). This course also includes

- **Max Credits** 0

Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**0**

PHET930F: Phlebotomy I

This course includes 40 hours of classroom instruction in anatomy and physiology of the circulatory system, specimen collection, specimen processing and handling, and laboratory operations (e.g., safety, quality, control, etc.). This course also includes

Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**0**
Lec/Lab Hrs per Wk	**0**

PHET 930L: Phlebotomy II

Clinical practicum that includes 100 clock hours of clinical training and orientation in a CLIA-regulated, accredited laboratory with a minimum performance of 100 successful unaided blood collections including venipunctures and skin punctures. Successful

- **Max Credits** 0

Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**0**

PHET930L: Phlebotomy II

Clinical practicum that includes 100 clock hours of clinical training and orientation in a CLIA-regulated, accredited laboratory with a minimum performance of 100 successful unaided blood collections including venipunctures and skin punctures. Successful

Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**0**
Lec/Lab Hrs per Wk	**0**

Physical Education Program

PE 142: Zumba Fitness

Introduces Zumba Fitness to improve health and overall wellness through structured group exercise. Promotes maintenance or improvement of fitness, health, and overall wellness through structured group fitness classes. Emphasizing improved cardiorespiratory conditioning, endurance, flexibility, body composition, and skill-related fitness (balance, speed, agility, reaction time, coordination).This course may be taken up to three times for credit. Audit available.

Credits	**1**

PE142: Zumba Fitness

Introduces Zumba Fitness to improve health and overall wellness through structured group exercise. Promotes maintenance or improvement of fitness, health, and overall wellness through structured group fitness classes. Emphasizing improved cardiorespiratory conditioning, endurance, flexibility, body composition, and skill-related fitness (balance, speed, agility, reaction time, coordination).This course may be taken up to three times for credit. Audit available.

Credits	**1**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**0**
Lec/Lab Hrs per Wk	**0**

PE 142A: Zumba Fitness

Introduces Zumba Fitness to improve health and overall wellness through structured group exercise. Promotes maintenance or improvement of fitness, health, and overall wellness through structured group fitness classes. Emphasizing improved cardiorespiratory conditioning, endurance, flexibility, body composition, and skill-related fitness (balance, speed, agility, reaction time, coordination).This course may be taken up to three times for credit. Audit available.

Credits	**1**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**0**

PE142A: Zumba Fitness

Introduces Zumba Fitness to improve health and overall wellness through structured group exercise. Promotes maintenance or improvement of fitness, health, and overall wellness through structured group fitness classes. Emphasizing improved cardiorespiratory conditioning, endurance, flexibility, body composition, and skill-related fitness (balance, speed, agility, reaction time, coordination).This course may be taken up to three times for credit. Audit available.

Credits	**1**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**0**
Lec/Lab Hrs per Wk	**0**

PE 182: Group Fitness

Promotes maintenance or improvement of fitness, health, and overall wellness through structured group fitness classes. Covers knowledge and skills for performing more advanced group fitness exercises safely. The focus of the course and skills learned will vary by campus, term, and/or instructor. Emphasizing improved cardiorespiratory conditioning, muscle strength and endurance, flexibility, body composition, and skill-related fitness (balance, speed, agility, reaction time, coordination).This course may be taken up to three times for credit.

Credits	**1**

PE182: Group Fitness

Promotes maintenance or improvement of fitness, health, and overall wellness through structured group fitness classes. Covers knowledge and skills for performing more advanced group fitness exercises safely. The focus of the course and skills learned will vary by campus, term, and/or instructor. Emphasizing improved cardiorespiratory conditioning, muscle strength and endurance, flexibility, body composition, and skill-related fitness (balance, speed, agility, reaction time, coordination).This course may be taken up to three times for credit.

Credits	**1**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**0**
Lec/Lab Hrs per Wk	**0**

PE 182A: Group Fitness

Promotes maintenance or improvement of fitness, health, and overall wellness through structured group fitness classes. Covers knowledge and skills for performing more advanced group fitness exercises safely. The focus of the course and skills learned will vary by campus, term, and/or instructor. Emphasizing improved cardiorespiratory conditioning, muscle strength and endurance, flexibility, body composition, and skill-related fitness (balance, speed, agility, reaction time, coordination).This course may be taken up to three times for credit.

Credits	**1**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**0**

PE182A: Group Fitness

Promotes maintenance or improvement of fitness, health, and overall wellness through structured group fitness classes. Covers knowledge and skills for performing more advanced group fitness exercises safely. The focus of the course and skills learned will vary by campus, term, and/or instructor. Emphasizing improved cardiorespiratory conditioning, muscle strength and endurance, flexibility, body composition, and skill-related fitness (balance, speed, agility, reaction time, coordination).This course may be taken up to three times for credit.

Credits	**1**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**0**
Lec/Lab Hrs per Wk	**0**

PE 295: Health and Fitness for Life Lab

Explores the interrelationship of the five components of physical fitness, basic nutrition concepts, and stress management activities to increase individual health and wellness through lab sessions, fitness assessments, and fitness program development. Corequisites: HE 295. Audit available.

Credits	**1**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**0**

PE295: Health and Fitness for Life Lab

Explores the interrelationship of the five components of physical fitness, basic nutrition concepts, and stress management activities to increase individual health and wellness through lab sessions, fitness assessments, and fitness program development. Corequisites: HE 295. Audit available.

Credits	**1**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**0**
Lec/Lab Hrs per Wk	**0**

Physics Program

PHY 201: General Physics I

First term of algebra based physics for science majors, pre-medical, pre-dental, pre-chiropractic and pre-physical therapy students. Topics include kinematics, mechanics, linear motion with constant acceleration, uniform circular motion, forces, energy, momentum, and collisions. Prerequisites/concurrent: MTH 111 and its prerequisite requirements. Audit available.

Credits	**5**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**4**
Prerequisites	**MTH111Z**

PHY201: General Physics I

First term of algebra based physics for science majors, pre-medical, pre-dental, pre-chiropractic and pre-physical therapy students. Topics include kinematics, mechanics, linear motion with constant acceleration, uniform circular motion, forces, energy, momentum, and collisions. Prerequisites/concurrent: MTH 111 and its prerequisite requirements. Audit available.

Credits	**5**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**MTH111Z**

PHY 202: General Physics II

Second term of algebra based physics for science majors, pre-medical, pre-dental, pre-chiropractic and pre-physical therapy students. Topics include rotational mechanics, thermodynamics, fluid statics and dynamics, and oscillations and waves. Prerequisites: PHY 201 and its required prerequisites. Audit available.

Credits	**5**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**4**
Prerequisites	**PHY201**

PHY202: General Physics II

Second term of algebra based physics for science majors, pre-medical, pre-dental, pre-chiropractic and pre-physical therapy students. Topics include rotational mechanics, thermodynamics, fluid statics and dynamics, and oscillations and waves. Prerequisites: PHY 201 and its required prerequisites. Audit available.

Credits	**5**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**PHY201**

PHY 203: General Physics III

Third term of algebra based physics for science majors, pre-medical, pre-dental, pre-chiropractic and pre-physical therapy students. Topics include oscillations and waves, optics, electricity, and magnetism. Prerequisites: PHY 202 and its required prerequisites. Audit available.

Credits	**5**
Prerequisites	**PHY202**

PHY203: General Physics III

Third term of algebra based physics for science majors, pre-medical, pre-dental, pre-chiropractic and pre-physical therapy students. Topics include oscillations and waves, optics, electricity, and magnetism. Prerequisites: PHY 202 and its required prerequisites. Audit available.

Credits	**5**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**PHY202**

Political Science Program

PS 201: US Government: Foundations and Principles

An introduction to the institutions and processes of American national government, including the Constitution, civil liberties, elections, political partiess, Congress and the legislative process, the presidency and modern bureaucracy, and the Supreme Court and judicial branch. Prerequisites: WR 121.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Prerequisites	**RDWR115**

PS201: US Government: Foundations and Principles

An introduction to the institutions and processes of American national government, including the Constitution, civil liberties, elections, political partiess, Congress and the legislative process, the presidency and modern bureaucracy, and the Supreme Court and judicial branch. Prerequisites: WR 121.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**RDWR115**

PS 204: World Government

An introduction to regime types and the diverse domestic political systems around the world, including varieties of authoritarian and democratic systems, and different ways of arranging the institutions of government in different countries and cultures. Prerequisites: WR 121 and MTH 095.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Prerequisites	**MTH095, WR121Z**

PS204: World Government

An introduction to regime types and the diverse domestic political systems around the world, including varieties of authoritarian and democratic systems, and different ways of arranging the institutions of government in different countries and cultures. Prerequisites: WR 121 and MTH 095.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**MTH095, WR121Z**

PS 205: International Relations

An introduction to the international system and world politics, including both relations between countries and transnational issues, as well as interstate processes such as international law, diplomacy, and war. Prerequisites: WR 121.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Prerequisites	**WR121Z**

PS205: International Relations

An introduction to the international system and world politics, including both relations between countries and transnational issues, as well as interstate processes such as international law, diplomacy, and war. Prerequisites: WR 121.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**WR121Z**

PS 206: Political Philosophy

An introduction to global political philosophy through thinkers such as Plato, Locke, Rousseau, Mill, Confucius, Mencius, Zhu Xi, Wang Yangming, Mawardi, Ghazali, Qutb, Soroush, and others. Prerequisites: WR 121 and MTH 095.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Prerequisites	**MTH095, WR121Z**

PS206: Political Philosophy

An introduction to global political philosophy through thinkers such as Plato, Locke, Rousseau, Mill, Confucius, Mencius, Zhu Xi, Wang Yangming, Mawardi, Ghazali, Qutb, Soroush, and others. Prerequisites: WR 121 and MTH 095.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**MTH095, WR121Z**

PS 244: Global Health

An introduction to issues in international health and medicine, including transnational infectious disease, global health governance, comparative national health systems, chronic diseases and global nutrition, and international mental health. Prerequisites: WR121.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Prerequisites	**WR121Z**

PS244: Global Health

An introduction to issues in international health and medicine, including transnational infectious disease, global health governance, comparative national health systems, chronic diseases and global nutrition, and international mental health. Prerequisites: WR121.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**WR121Z**

Psychology Program

PSY 101: Psychology and Human Relations

Applies psychological principles to relationships in both personal and professional environments. Includes an overview of basic personality and social psychology concepts, as well as specific skill development in the areas of communication, listening, and conflict resolution. Prerequisite: RDWR 115 and MTH 20 or equivalent placement test scores. Audit available.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Prerequisites	**RDWR115**

PSY101: Psychology and Human Relations

Applies psychological principles to relationships in both personal and professional environments. Includes an overview of basic personality and social psychology concepts, as well as specific skill development in the areas of communication, listening, and conflict resolution. Prerequisite: RDWR 115 and MTH 20 or equivalent placement test scores. Audit available.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**RDWR115**

PSY 201Z: Introduction to Psychology I

Introduction to the science and application of psychology. Emphasis will be placed on psychological concepts, theories, and principles related to: Research Methods, Behavioral Neuroscience, Consciousness, Sensation/Perception, Learning, Memory, Thinking and Intelligence, and related topics. Prerequisite: RDWR 115 or placement above this level.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Prerequisites	**RDWR115**

PSY201Z: Introduction to Psychology I

Introduction to the science and application of psychology. Emphasis will be placed on psychological concepts, theories, and principles related to: Research Methods, Behavioral Neuroscience, Consciousness, Sensation/Perception, Learning, Memory, Thinking and Intelligence, and related topics. Prerequisite: RDWR 115 or placement above this level.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**RDWR115**

PSY 202Z: Introduction to Psychology II

Introduction to the science and application of psychology. Emphasis will be placed on psychological concepts, theories, and principles related to: Personality, Social Psychology, Health and Well-Being, Motivation and Emotion, Disorders, Therapies, Lifespa

- **Max Credits** 4

Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Prerequisites	**RDWR115**

PSY202Z: Introduction to Psychology II

Introduction to the science and application of psychology. Emphasis will be placed on psychological concepts, theories, and principles related to: Personality, Social Psychology, Health and Well-Being, Motivation and Emotion, Disorders, Therapies, Lifespa

Prerequisites	**RDWR115**

PSY 215: Human Development

Surveys major developmental theories and patterns of change and continuity from birth to death in human subjects. Emphasizes biological, cognitive, and emotional development through the lifespan. Examines cultural influences on development. Recommended: PSY 201 or 202. Prerequisites: RDWR 115 or placement above this level. Audit available.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Prerequisites	**RDWR115**

PSY215: Human Development

Surveys major developmental theories and patterns of change and continuity from birth to death in human subjects. Emphasizes biological, cognitive, and emotional development through the lifespan. Examines cultural influences on development. Recommended: PSY 201 or 202. Prerequisites: RDWR 115 or placement above this level. Audit available.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**RDWR115**

PSY 239: Introduction to Abnormal Psychology

Surveys the history, theories, etiology, assessment, diagnosis, and treatment of the major mental and psychological disorders. Prerequisites: RDWR 115 or placement above this level, and PSY 201 or PSY 202.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Prerequisites	**PSY201Z, PSY202Z, RDWR115**

PSY239: Introduction to Abnormal Psychology

Surveys the history, theories, etiology, assessment, diagnosis, and treatment of the major mental and psychological disorders. Prerequisites: RDWR 115 or placement above this level, and PSY 201 or PSY 202.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**PSY201Z, PSY202Z, RDWR115**

Religion Program

REL 101: World Religions

An introduction to a variety of the religious traditions of the world, including but not limited to Hinduism, Buddhism, Confucianism, Taoism, Judaism, Christianity, Islam, and Primal Traditions. Prerequisites: RDWR 115 equivalent or placement above these levels.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Prerequisites	**RDWR115**

REL101: World Religions

An introduction to a variety of the religious traditions of the world, including but not limited to Hinduism, Buddhism, Confucianism, Taoism, Judaism, Christianity, Islam, and Primal Traditions. Prerequisites: RDWR 115 equivalent or placement above these levels.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**RDWR115**

Sociology Program

SOC 204Z: Introduction to Sociology

Introduces the central concepts, theories, and methods that define the sociological approach to investigating the social forces that shape our lives. Topics may include social structure, culture, socialization, race, class, gender, sexuality, and inequality Prerequisites: RDWR 115 or equivalent placement test scores. Audit available.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Prerequisites	**RDWR115**

SOC204Z: Introduction to Sociology

Introduces the central concepts, theories, and methods that define the sociological approach to investigating the social forces that shape our lives. Topics may include social structure, culture, socialization, race, class, gender, sexuality, and inequality Prerequisites: RDWR 115 or equivalent placement test scores. Audit available.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**RDWR115**

SOC 206Z: Social Problems

Applies the sociological perspective to the study of social problems, including their social construction, causes, and consequences. Explores the complexities surrounding their solutions, such as how solutions are socially constructed and policy proposals from sociologists and social movements. Topics may include poverty, discrimination, interpersonal violence, crime, addiction, ecological crises, war/global conflict, and health inequality Prerequisites: RDWR 115 or placement above this level.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Prerequisites	**RDWR115**

SOC206Z: Social Problems

Applies the sociological perspective to the study of social problems, including their social construction, causes, and consequences. Explores the complexities surrounding their solutions, such as how solutions are socially constructed and policy proposals from sociologists and social movements. Topics may include poverty, discrimination, interpersonal violence, crime, addiction, ecological crises, war/global conflict, and health inequality Prerequisites: RDWR 115 or placement above this level.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**RDWR115**

SOC 228: Introduction to Environmental Sociology

Introduces core sociological concepts and theories, as a social science, to examine the relationship between humans and the environment. Explores central questions, research, and theoretical debates about the structural and cultural causes and consequences of various social and environmental problems and how to respond to these issues through policies and actions. Fosters the development of the skills needed to think critically about social and environmental changes and the tools needed to address them. Prerequisites: WR 121 or higher or concurrent enrollment in WR 121 and WR 121 C. Audit available.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**

SOC228: Introduction to Environmental Sociology

Introduces core sociological concepts and theories, as a social science, to examine the relationship between humans and the environment. Explores central questions, research, and theoretical debates about the structural and cultural causes and consequences of various social and environmental problems and how to respond to these issues through policies and actions. Fosters the development of the skills needed to think critically about social and environmental changes and the tools needed to address them. Prerequisites: WR 121 or higher or concurrent enrollment in WR 121 and WR 121 C. Audit available.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**

Soil Science Program

SOIL 205: Soil Science

In thiscoursestudents will learn about the chemical, physical, and biological nature of soils. Students will learn about the factors controlling soil development, what a soil name can tell a person about the environment, and how land management decisions affect soil quality and its sustainability. Topics willinclude:the importance of soils, what soil is, how soil forms, how soils are described, physical properties of soils, soil water, soil chemistry, soil biology, and soil sustainability.

Credits	**4**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**3**

SOIL205: Soil Science

In thiscoursestudents will learn about the chemical, physical, and biological nature of soils. Students will learn about the factors controlling soil development, what a soil name can tell a person about the environment, and how land management decisions affect soil quality and its sustainability. Topics willinclude:the importance of soils, what soil is, how soil forms, how soils are described, physical properties of soils, soil water, soil chemistry, soil biology, and soil sustainability.

Credits	**4**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**3**
Lec/Lab Hrs per Wk	**0**

Spanish Program

SPA 101: First Year Spanish - First Term

This class emphasizes active communication in beginning Spanish. Includes listening, speaking, reading, writing, pronunciation, grammar, vocabulary and culture. Prerequisites: RDWR 115 equivalent or placement above these levels. Audit Available.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Prerequisites	**RDWR115**

SPA101: First Year Spanish - First Term

This class emphasizes active communication in beginning Spanish. Includes listening, speaking, reading, writing, pronunciation, grammar, vocabulary and culture. Prerequisites: RDWR 115 equivalent or placement above these levels. Audit Available.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**RDWR115**

SPA 102: First Year Spanish - Second Term

Continues the work of SPA 101. Emphasizes active communication in Spanish. Includes listening, speaking, reading, writing, pronunciation, structure, vocabulary, and culture. Prerequisites: RDWR 115 equivalent or placement above these levels. Completion of SPA 101 or instructor permission. Audit available.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Prerequisites	**SPA101**

SPA102: First Year Spanish - Second Term

Continues the work of SPA 101. Emphasizes active communication in Spanish. Includes listening, speaking, reading, writing, pronunciation, structure, vocabulary, and culture. Prerequisites: RDWR 115 equivalent or placement above these levels. Completion of SPA 101 or instructor permission. Audit available.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**SPA101**

SPA 103: First Year Spanish - Third Term

Continues the work of SPA 102. Emphasizes active communication in Spanish. Includes listening, speaking, reading, writing, pronunciation, grammar, vocabulary, and culture. Prerequisites: RDWR 115 equivalent or placement above these levels. Completion of SPA 102 or instructor permission. Audit available.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Prerequisites	**SPA102**

SPA103: First Year Spanish - Third Term

Continues the work of SPA 102. Emphasizes active communication in Spanish. Includes listening, speaking, reading, writing, pronunciation, grammar, vocabulary, and culture. Prerequisites: RDWR 115 equivalent or placement above these levels. Completion of SPA 102 or instructor permission. Audit available.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**SPA102**

SPA 201: Second Year Spanish - First Term

Continues the work of first year Spanish, reviewing, expanding, and perfecting pronunciation, structure, and vocabulary for the purpose of active communication. Includes practice in reading and writing. Prerequisites: RDWR 115 equivalent or placement above these levels. Completion of SPA 103 or instructor permission. Audit available.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Prerequisites	**SPA103**

SPA201: Second Year Spanish - First Term

Continues the work of first year Spanish, reviewing, expanding, and perfecting pronunciation, structure, and vocabulary for the purpose of active communication. Includes practice in reading and writing. Prerequisites: RDWR 115 equivalent or placement above these levels. Completion of SPA 103 or instructor permission. Audit available.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**SPA103**

SPA 202: Second Year Spanish - Second Term

Continues to expand structure and vocabulary for the purpose of active communication. Includes practice in reading and writing. Prerequisites: RDWR 115 equivalent or placement above these levels. Completion of SPA 201 or instructor permission. Audit available.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Prerequisites	**SPA201**

SPA202: Second Year Spanish - Second Term

Continues to expand structure and vocabulary for the purpose of active communication. Includes practice in reading and writing. Prerequisites: RDWR 115 equivalent or placement above these levels. Completion of SPA 201 or instructor permission. Audit available.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**SPA201**

SPA 203: Second Year Spanish - Third Term

Continues to expand structure and vocabulary for the purpose of active communication. Includes practice in reading and writing. Prerequisites: RDWR 115 equivalent or placement above these levels. Recommended: Completion of SPA 202 or instructor permission. Audit available.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Prerequisites	**SPA202**

SPA203: Second Year Spanish - Third Term

Continues to expand structure and vocabulary for the purpose of active communication. Includes practice in reading and writing. Prerequisites: RDWR 115 equivalent or placement above these levels. Recommended: Completion of SPA 202 or instructor permission. Audit available.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**SPA202**

Welding Technology Program

WLD 105: Introduction to Welding Technologies

This foundational class instructs students in the basic operating principles of a welding shop. Focus topics include basic welding techniques, safety, torch cutting, weld setup, and the principles of metallurgy. Associated program: welding technology

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**2**

WLD105: Introduction to Welding Technologies

This foundational class instructs students in the basic operating principles of a welding shop. Focus topics include basic welding techniques, safety, torch cutting, weld setup, and the principles of metallurgy. Associated program: welding technology

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**2**
Lec/Lab Hrs per Wk	**2**

WLD 111: SMAW & Oxy-Acetylene Cutting

Covers uses, safety, nomenclature, equipment operation, set-up and shutdown procedures and welding-related math and science for Shielded Metal Arc Welding and Oxy-acetylene Cutting. Additional supply fee may be required. Recommended Placement: RD/WR 115, MTH 105. ADDENDUM TO COURSE DESCRIPTION: This course is the equivalent of AG221 Metals and Welding

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**2**

WLD111: SMAW & Oxy-Acetylene Cutting

Covers uses, safety, nomenclature, equipment operation, set-up and shutdown procedures and welding-related math and science for Shielded Metal Arc Welding and Oxy-acetylene Cutting. Additional supply fee may be required. Recommended Placement: RD/WR 115, MTH 105. ADDENDUM TO COURSE DESCRIPTION: This course is the equivalent of AG221 Metals and Welding

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**2**
Lec/Lab Hrs per Wk	**2**

WLD 112: SMAW II

Develops knowledge and manipulative skills in the use of mild steel electrodes when performing various welds in positions 3G and 3F. Advanced welding metals including sheet metal, pipe and nontraditional angles. Introduction to welding non-ferrous metals. Welding-applied math and science included. Additional supply fee may be required. Prerequisite WLD 111 or instructor approval.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**2**
Prerequisites	**WLD111**

WLD112: SMAW II

Develops knowledge and manipulative skills in the use of mild steel electrodes when performing various welds in positions 3G and 3F. Advanced welding metals including sheet metal, pipe and nontraditional angles. Introduction to welding non-ferrous metals. Welding-applied math and science included. Additional supply fee may be required. Prerequisite WLD 111 or instructor approval.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**2**
Lec/Lab Hrs per Wk	**2**
Prerequisites	**WLD111**

WLD 113: SMAW III

Advanced welding course covering the use of the 7018 and 6011 electrode in the 3G and 4G positions including backing. Fill and penetration will be stressed as related to structural strength and weld certification. SMAW of stainless steel will be emphasized including pipe. Prerequisite WLD 112 or instructor approval.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**2**
Prerequisites	**WLD112**

WLD113: SMAW III

Advanced welding course covering the use of the 7018 and 6011 electrode in the 3G and 4G positions including backing. Fill and penetration will be stressed as related to structural strength and weld certification. SMAW of stainless steel will be emphasized including pipe. Prerequisite WLD 112 or instructor approval.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**2**
Lec/Lab Hrs per Wk	**2**
Prerequisites	**WLD112**

WLD 120: Welding Lab

Welding lab is required component of the welding technologies program. Students will continue to work on welding techniques learned in current and past welding classes. The lab is open to students who have prior welding experience.

Credits	**2**
Lab Hrs per Wk	**6**
Lecture Hrs per Wk	**0**
Prerequisites	**WLD111**

WLD120: Welding Lab

Welding lab is required component of the welding technologies program. Students will continue to work on welding techniques learned in current and past welding classes. The lab is open to students who have prior welding experience.

Credits	**2**
Lab Hrs per Wk	**6**
Lecture Hrs per Wk	**0**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**WLD111**

WLD 129: Blueprint Reading

Covers the language of blueprints including lines, views, dimensioning, print organization, welding symbols and structural shapes. Additional supply fee may be required.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**

WLD129: Blueprint Reading

Covers the language of blueprints including lines, views, dimensioning, print organization, welding symbols and structural shapes. Additional supply fee may be required.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**

WLD 170: GMAW I

Develops a foundation for Metal Inert Gas (MIG) welding. Course will include machine set up, use, and maintenance. Gas types, wire types, and welding techniques will be introduced. Welds will be performed in the flat, horizontal, and down positions using Standard and Short Arc techniques. Recommended Placement: RD/WR 115, MTH 105.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**2**

WLD170: GMAW I

Develops a foundation for Metal Inert Gas (MIG) welding. Course will include machine set up, use, and maintenance. Gas types, wire types, and welding techniques will be introduced. Welds will be performed in the flat, horizontal, and down positions using Standard and Short Arc techniques. Recommended Placement: RD/WR 115, MTH 105.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**2**
Lec/Lab Hrs per Wk	**2**

WLD 171: GMAW II

Develops skills learned in GMAW I with the addition of Vertical and Overhead MIG welding. Expanded wire use to include Flux, Inner and Dual Shield. The course will introduce the student to the Spray Arc welding technique. Welding of non-ferrous metals will be introduced. Prerequisite WLD 170 or instructor approval

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**2**
Prerequisites	**WLD170**

WLD171: GMAW II

Develops skills learned in GMAW I with the addition of Vertical and Overhead MIG welding. Expanded wire use to include Flux, Inner and Dual Shield. The course will introduce the student to the Spray Arc welding technique. Welding of non-ferrous metals will be introduced. Prerequisite WLD 170 or instructor approval

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**2**
Lec/Lab Hrs per Wk	**2**
Prerequisites	**WLD170**

WLD 172: GMAW III

GMAWIII expands on the wire Welding classes adding additional metals and positions. Students will weld in 1, 2, 3 and 4 G and 1, 2, 3 and 4 F positions with both Inner and Dual Shielded Wire. Non-ferrous metals including Stainless Steel welding will be added. Welding precision and standards will be emphasized for consideration of certification. Prerequisite WLD 171 or instructor approval.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**2**
Prerequisites	**WLD171**

WLD172: GMAW III

GMAWIII expands on the wire Welding classes adding additional metals and positions. Students will weld in 1, 2, 3 and 4 G and 1, 2, 3 and 4 F positions with both Inner and Dual Shielded Wire. Non-ferrous metals including Stainless Steel welding will be added. Welding precision and standards will be emphasized for consideration of certification. Prerequisite WLD 171 or instructor approval.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**2**
Lec/Lab Hrs per Wk	**2**
Prerequisites	**WLD171**

WLD 201: GTAW I

Students will be introduced to equipment and techniques of Gas Tungsten Arc Welding/Tungsten Inert Gas (GTAW/TIG) welding process. Aluminum and stainless steel metals will be the primary focus including preparation, welder settings, and welding of various base metals. The course will follow AWS specifications. Recommended Placement: RD/WR 115, MTH 105

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**2**

WLD201: GTAW I

Students will be introduced to equipment and techniques of Gas Tungsten Arc Welding/Tungsten Inert Gas (GTAW/TIG) welding process. Aluminum and stainless steel metals will be the primary focus including preparation, welder settings, and welding of various base metals. The course will follow AWS specifications. Recommended Placement: RD/WR 115, MTH 105

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**2**
Lec/Lab Hrs per Wk	**2**

WLD 202: GTAW II

This class will develop existing skills in TIG welding. The focus will be on weld preparation and techniques. In addition to flat surfaces, horizontal, and vertical will be added. The course curriculum follows the AWS specifications for qualification and certification. Completion of WLD 201 or instructor approval.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**2**
Prerequisites	**WLD201**

WLD202: GTAW II

This class will develop existing skills in TIG welding. The focus will be on weld preparation and techniques. In addition to flat surfaces, horizontal, and vertical will be added. The course curriculum follows the AWS specifications for qualification and certification. Completion of WLD 201 or instructor approval.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**2**
Lec/Lab Hrs per Wk	**2**
Prerequisites	**WLD201**

WLD 203: GTAW III

Course will focus on stainless steel TIG welding including Pipe Purge Welding. Emphasis will be on industrial standards including corrosion abatement. Coursework will work on prepping the student for employment.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**2**
Prerequisites	**WLD202**

WLD203: GTAW III

Course will focus on stainless steel TIG welding including Pipe Purge Welding. Emphasis will be on industrial standards including corrosion abatement. Coursework will work on prepping the student for employment.

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**2**
Lec/Lab Hrs per Wk	**2**
Prerequisites	**WLD202**

WLD 261: Fabrication I

Develops fabrication knowledge and skills in selection and use of layout tools and equipment, to assemble a fabrication project from given specifications. The fabrication class gives the student the opportunity to design and fabricate a structure in a timely and efficient manner. This course allows the student to experience challenges that arise during the fabrication process, and develop necessary fabricating techniques that can be applied to multiple fabrication applications. Students follow detailed written & oral instructions, and use theoretical concepts. Layout and fabrication will also be covered with emphasis on, welding and Oxy-acetylene cutting, safety and environmental awareness, tool & equipment maintenance and communication. Department permission required.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**0**

WLD261: Fabrication I

Develops fabrication knowledge and skills in selection and use of layout tools and equipment, to assemble a fabrication project from given specifications. The fabrication class gives the student the opportunity to design and fabricate a structure in a timely and efficient manner. This course allows the student to experience challenges that arise during the fabrication process, and develop necessary fabricating techniques that can be applied to multiple fabrication applications. Students follow detailed written & oral instructions, and use theoretical concepts. Layout and fabrication will also be covered with emphasis on, welding and Oxy-acetylene cutting, safety and environmental awareness, tool & equipment maintenance and communication. Department permission required.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**0**
Lec/Lab Hrs per Wk	**8**

WLD 262: Fabrication II

Second in a series of Fabrication Classes to develop complete projects external stakeholders. Students will design, develop and build a product. Product will use all the available equipment and may require advanced welding techniques. Design and Quality and Budget will be stressed. Prerequisite: WLD 261 or instructor permission required.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**0**
Prerequisites	**WLD261**

WLD262: Fabrication II

Second in a series of Fabrication Classes to develop complete projects external stakeholders. Students will design, develop and build a product. Product will use all the available equipment and may require advanced welding techniques. Design and Quality and Budget will be stressed. Prerequisite: WLD 261 or instructor permission required.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**0**
Lec/Lab Hrs per Wk	**8**
Prerequisites	**WLD261**

WLD 275: Welding for Certification

Class provides an opportunity to practice welding in preparation for AWS Certification Tests. Certification testing fee will apply and will vary depending on the type of test. Instructor approval required.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**0**

WLD275: Welding for Certification

Class provides an opportunity to practice welding in preparation for AWS Certification Tests. Certification testing fee will apply and will vary depending on the type of test. Instructor approval required.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**0**
Lec/Lab Hrs per Wk	**8**

WLD 280: Cooperative Education

Students earn credit for learning from practical experience at a worksite related to their major or career goal. Appropriate work experiences provide opportunities for new learning and skill development. Recommended: RDWR 115 and MTH 105 Or Department Approval.

Credits	**3**
Lab Hrs per Wk	**9**
Lecture Hrs per Wk	**0**

WLD280: Cooperative Education

Students earn credit for learning from practical experience at a worksite related to their major or career goal. Appropriate work experiences provide opportunities for new learning and skill development. Recommended: RDWR 115 and MTH 105 Or Department Approval.

Credits	**3**
Lab Hrs per Wk	**9**
Lecture Hrs per Wk	**0**
Lec/Lab Hrs per Wk	**0**

Writing Program

WR 121Q: English Composition I Co-requisite

This support course focuses on the foundational skills needed to succeed in WR 121Z. Students will expand and improve reading rate, vocabulary, and comprehension of complex college-level texts. Emphasis on critical thinking skills, information literacy, and college-level skills in preparation for essay writing in WR 121Z. Required: Students will be concurrently enrolled in WR 121Z unless approved by the department chair or Vice President of Student Services.

Credits	**1**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**0**

WR121Q: English Composition I Co-requisite

This support course focuses on the foundational skills needed to succeed in WR 121Z. Students will expand and improve reading rate, vocabulary, and comprehension of complex college-level texts. Emphasis on critical thinking skills, information literacy, and college-level skills in preparation for essay writing in WR 121Z. Required: Students will be concurrently enrolled in WR 121Z unless approved by the department chair or Vice President of Student Services.

Credits	**1**
Lab Hrs per Wk	**3**
Lecture Hrs per Wk	**0**
Lec/Lab Hrs per Wk	**0**

WR 121Z: Composition I

WR 121Z engages students in the study and practice of critical thinking, reading, and writing. The course focuses on analyzing and composing across varied rhetorical situations and in multiple genres. Students will apply key rhetorical concepts flexibly and collaboratively throughout their writing and inquiry processes. Prerequisites: Placement into WR 121 or successful completion of RDWR 115 or its equivalent. Audit available.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Prerequisites	**RDWR115**

WR121Z: Composition I

WR 121Z engages students in the study and practice of critical thinking, reading, and writing. The course focuses on analyzing and composing across varied rhetorical situations and in multiple genres. Students will apply key rhetorical concepts flexibly and collaboratively throughout their writing and inquiry processes. Prerequisites: Placement into WR 121 or successful completion of RDWR 115 or its equivalent. Audit available.

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**RDWR115**

WR 122Z: Composition II

WR 122Z builds on concepts and processes emphasized in WR 121Z, engaging with inquiry, research, and argumentation in support of students' development as writers. The course focuses on composing and revising in research-based genres through the intentional use of rhetorical strategies. Students will find, evaluate, and interpret complex material, including lived experience; use this to frame and pursue their own research questions; and integrate material purposefully into their own compositions. Prerequisite: Successful completion of WR 121 or its equivelent

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Prerequisites	**WR121Z**

WR122Z: Composition II

WR 122Z builds on concepts and processes emphasized in WR 121Z, engaging with inquiry, research, and argumentation in support of students' development as writers. The course focuses on composing and revising in research-based genres through the intentional use of rhetorical strategies. Students will find, evaluate, and interpret complex material, including lived experience; use this to frame and pursue their own research questions; and integrate material purposefully into their own compositions. Prerequisite: Successful completion of WR 121 or its equivelent

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**WR121Z**

WR 127: Intro to Professional Writing

This course emphasizes forms of writing demanded in the workplace. Students will practice professional correspondence, informal reports, instructions, and proposals. Students will also analyze audience and purpose to make decisions about writing form, style, ethics, and content. Prerequisite: WR 115

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**
Prerequisites	**RDWR115**

WR127: Intro to Professional Writing

This course emphasizes forms of writing demanded in the workplace. Students will practice professional correspondence, informal reports, instructions, and proposals. Students will also analyze audience and purpose to make decisions about writing form, style, ethics, and content. Prerequisite: WR 115

Credits	**3**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**3**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**RDWR115**

WR 227Z: Technical Writing

WR 227Z introduces students to producing instructive, informative, and persuasive technical/professional documents aimed at well-defined and achievable outcomes. The course focuses on presenting information using rhetorically appropriate style, design, vocabulary, structure, and visuals. Students can expect to gather, read, and analyze information and to learn a variety of strategies for producing accessible, usable, reader-centered deliverable documents that are clear, concise, and ethical. Prerequisite: Successful completion of WR 121 Recommended: WR 122

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Prerequisites	**WR121Z**

WR227Z: Technical Writing

WR 227Z introduces students to producing instructive, informative, and persuasive technical/professional documents aimed at well-defined and achievable outcomes. The course focuses on presenting information using rhetorically appropriate style, design, vocabulary, structure, and visuals. Students can expect to gather, read, and analyze information and to learn a variety of strategies for producing accessible, usable, reader-centered deliverable documents that are clear, concise, and ethical. Prerequisite: Successful completion of WR 121 Recommended: WR 122

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**WR121Z**

WR 252: Creative Writing I (Introduction toFiction)

This course is designed to introduce students to the art and craft of writing as an artistic medium. By studying the basic elements of craft in fiction, reading and analyzing the work of professional writers, and completing your own creative projects, you will explore the fundamentals of creative writing, from character and setting to narrative voice and structure. Prerequisite: WR 121

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Prerequisites	**WR121Z**

WR252: Creative Writing I (Introduction toFiction)

This course is designed to introduce students to the art and craft of writing as an artistic medium. By studying the basic elements of craft in fiction, reading and analyzing the work of professional writers, and completing your own creative projects, you will explore the fundamentals of creative writing, from character and setting to narrative voice and structure. Prerequisite: WR 121

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**WR121Z**

WR 253: Creative Writing II (Creative Nonfiiction)

This course is designed to introduce students to the genre of Creative Nonfiction. They will learn the conventions and techniques of the genre through guided creative writing projects. Students will learn how to implement narrative, backstory, pacing, and characterization by reading the work of other students and published authors, whose work will serve as models for the students. The readings will include the various modes of the genre, such as autobiography/ memoir, personal essay, nature and/or science writing, and literary journalism. Students will produce, workshop, and present their own works of creative nonfiction in class.?? Prerequisite: Successful completion of WR 121

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Prerequisites	**WR121Z**

WR253: Creative Writing II (Creative Nonfiiction)

This course is designed to introduce students to the genre of Creative Nonfiction. They will learn the conventions and techniques of the genre through guided creative writing projects. Students will learn how to implement narrative, backstory, pacing, and characterization by reading the work of other students and published authors, whose work will serve as models for the students. The readings will include the various modes of the genre, such as autobiography/ memoir, personal essay, nature and/or science writing, and literary journalism. Students will produce, workshop, and present their own works of creative nonfiction in class.?? Prerequisite: Successful completion of WR 121

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**WR121Z**

WR 254: Creative Writing III (Poetry)

This course is designed to introduce students to the genre of poetry. They will learn the conventions and techniques of the genre through guided creative writing projects. Reading professional poets, students will write poems that show an understanding of what choices are available to writers while exploring the fundamentals of craft such as meter, rhyme, conceit, and metaphor. Prerequisite: Successful completion of WR 121

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Prerequisites	**WR121Z**

WR254: Creative Writing III (Poetry)

This course is designed to introduce students to the genre of poetry. They will learn the conventions and techniques of the genre through guided creative writing projects. Reading professional poets, students will write poems that show an understanding of what choices are available to writers while exploring the fundamentals of craft such as meter, rhyme, conceit, and metaphor. Prerequisite: Successful completion of WR 121

Credits	**4**
Lab Hrs per Wk	**0**
Lecture Hrs per Wk	**4**
Lec/Lab Hrs per Wk	**0**
Prerequisites	**WR121Z**

Personnel

Faculty

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DNP, Walden University
MSN, Western Governor's University
BSN, Western Governor's University
ADN, Palm Beach State College
CCRN, American Association of Critical Care Nurses (AACN)

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M.S. Botany/Plant Biology, Oregon State University
B.S. Marine Environment, University of Massachusetts Dartmouth

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B.A. English Literature, California State University Northridge

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B.A. History, Colorado State University
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