

TRANSFER EDUCATION

Descriptions/outlines begin on page 31.

Associate of Arts Oregon Transfer (AAOT)

The Associate of Arts Oregon Transfer (AA/OT) degree is designed for students who intend on transferring to an Oregon Public University. The AA/OT degree meets all of the lower division (freshman and sophomore) general education requirements at all of the Oregon Public Universities.

Focus Content Areas

- Applied Science and Technology
- Business Administration and Management
- Health Science
- Humanities
- Public Safety
- Performing and Visual Arts
- Science and Mathematics
- Social and Behavioral Sciences

Associate of Science (AS)

The Associate of Science (AS) degree is specific to receiving institutions and meet the receiving institution requirements as described by articulation agreements.

This degree provides students with a good start before transferring to a four-year school. At UCC, students can complete all lower-division requirements. Students will need to work closely with an advisor to choose classes based on their major.

Focus Content Areas

- Agricultural Business Management
- Business Administration
- Computer Science
- Criminal Justice
- Early Childhood Development
- Engineering
- Forest Engineering
- Forestry
- Forest Management
- Human Services
- Music
- Natural Resources Landscape Monitoring
- Renewable Materials
- Surveying and Geomatics

Associate of General Studies (AGS)

The Associate of General Studies (AGS) degree is designed for students wishing to acquire a broad education, rather than pursue a specific major or career using a variety of collegiate level courses. Because of this degree's flexibility, it may not fulfill requirements for transfer to a four-year school.

Core Transfer Module (CTM)

The Core Transfer Maps (CTM) are broad descriptions of course requirements for students at any Oregon community college or public university. It is designed to partially meet at least 30 credits of the General Education requirements for a bachelor's degree at any Oregon Public Universities.

Oregon Transfer Module (OTM)

The Oregon Transfer Module (OTM) is a subset of courses which all "count" as a transferable block. It is designed to partially meet the General Education assignment of the Oregon Public Universities, totaling a minimum of 45 credits.

CAREER AND TECHNICAL EDUCATION

Descriptions/outlines begin on page 43.

Associate of Applied Science (AAS)

The Associate of Applied Science (AAS) degree prepares students for entry into the workforce in specific areas. Below is a list of UCC's AAS degrees:

- Agricultural Business Management
- Automotive Technology
- Automotive Technology - T-TEN
- Civil Engineering & Surveying
 - Fabricator Welder
 - Applied Surveying Option
 - Water Quality Option
- Computer Information Systems
- Criminal Justice
- Cybersecurity
- Early Childhood Education
- Electrician Apprenticeship Technologies
- Paramedicine
- Engineering
- Entry Management
- Executive Business Assistant
- Fire Science
- Human Services
- Industrial Mechanics & Maint. Tech Apprenticeship
- Marketing
- Medical Office Administration
- Registered Nursing
- Paralegal Studies
- Viticulture & Enology
- Welding

Certificate

Certificates in the following technical areas are designed to prepare students with the skills and knowledge needed to enter a field.

- Addiction Studies
- Automotive Basic Technician
- Computer Information Systems
- Dental Assisting
- Early Childhood Education
- Electrician Apprenticeship Technologies
- Electrician Apprenticeship Technologies Limited
- Engineering and Drafting Technician
- Financial Services
- Front Office Medical Assistant
- Industrial Mechanics & Maint. Tech. Apprenticeship
- Juvenile Corrections
- Legal Assistant
- Medical Billing & Collections Clerk
- Occupational Skills Training
- Office Assistant
- Public Relations Specialist
- Supervision
- Truck Driving
- Viticulture
- WAFAC Retail Management
- Welding

Career Pathway Certificate

Career Pathways are short-term certificates designed to prepare students for employment and advancement in targeted occupations. There are also short-term pathway certificates available in many CTE programs. More information and links to Career Pathways roadmaps are located at www.umpqua.edu/career-pathways.

- Addiction Treatment
- Automotive Advanced Technician
- Automotive Basic Technician T-TEN
- Automotive Advanced Technician T-TEN
- Case Aide
- CISCO Networking Security Support Tech
- Communication Specialist in Organizations
- Drafting
- Emergency Medical Services
- Entrepreneurship
- Geographic Information Systems
- Infant/Toddler
- Junior Database Administrator
- Junior Programmer
- Junior Web Developer
- Microsoft Networking Support Technician
- Microsoft Office Technology
- Pre-school
- Public Relations Communication Assistant
- Server Administrator
- Surveying
- Water Quality
- Wine Marketing Assistant





TRANSFER DEGREES AND OPTIONS OVERVIEW

One of the best places to begin a bachelor's degree is at a community college. UCC offers many of the freshman and sophomore courses students will find at universities, allowing them to stay close to home and complete courses at a fraction of the cost. UCC offers a number of options for building programs that allow a student to transfer to another college or university, including the Oregon Transfer Compass/Core Transfer Map, Oregon Transfer Module (OTM), Associate of Arts-Oregon Transfer (AA/OT), Associate of Science (AS), or Associate of General Studies (AGS). Agreements are in place for all Oregon public colleges and universities, some Oregon private colleges and universities, and even some out-of-state schools.

Students will want to work closely with their academic and faculty advisors to develop a program of study that takes full advantage of UCC's offerings and transfers smoothly to the four-year institution of their choice. Advisors will help students refine their goals and identify courses that meet their interests and transfer appropriately. Students should begin by reviewing the existing transfer degree programs to see if any meet their needs. If a student is undecided, work with an advisor to build a custom program beginning with the general education core.

Note that completing any of these programs does not guarantee acceptance to a target institution. Students will still be required to meet all admissions requirements, such as SAT/ACT testing and completion of an acceptable second language.

Core Transfer Module

Core Transfer Maps are broad descriptions of course requirements for students at any Oregon community college or public university. Students who have not yet declared a major and plan to transfer may take classes that fit these categories at any Oregon community college and expect all classes to transfer and meet at least 30 credits of general education requirements for a bachelor's degree at any Oregon public university. Note that many majors have specific course requirements for categories within the Core Transfer Maps. The Core Transfer Maps are intended as starting points for students who plan to transfer to a university but are unsure of their intended major or transfer destination. Students who are certain of their major, but not their transfer destination, should determine if there is a developed Major Transfer Map for their chosen discipline, and follow that as a guide. Students who are certain of both their major and their intended transfer destination should consult an advisor for information on an existing specific articulation agreement, Major Transfer Map, or degree map that will prescribe their course requirements.

Oregon Transfer Module

The Oregon Transfer Module (OTM) is an approved 45-unit subset of general education courses (foundational skills and introduction to discipline courses) that are common among Oregon's colleges and universities. Courses are selected from

an approved list of 100- and 200 level general education requirements as determined by each Oregon community college, public university, or participating Oregon independent college or university. It is designed to improve student access to a college degree by enhancing opportunities for the transfer of credits earned at one institution to another. Any student holding an Oregon Transfer Module that conforms to the guidelines will have met the requirements for the Transfer Module at any Oregon community college or public university. Upon transfer, the receiving institution may specify additional course work that is required for a major or for degree requirements or to make up the difference between the Transfer Module and the institution's total General Education requirements.

Associate of Arts – Oregon Transfer

An Associate of Arts-Oregon Transfer degree that conforms to the established guidelines will transfer as a block to any institution in the Oregon University System and will meet the lower division general education requirements for that institution's baccalaureate degree programs. Students transferring under this agreement will have junior standing for registration purposes, however course, class standing, or GPA requirements for specific majors, department, or schools may not necessarily be satisfied by an Associate of Arts Oregon Transfer degree. Upon transfer, the receiving institution may specify additional course work that is required for a particular major or degree. Students are strongly encouraged to consult their UCC academic and/or faculty advisor and the intended transfer institution to determine appropriate course choices.

Associate of Science

The Associate of Science (AS) degree is designed for students planning to transfer credits to a baccalaureate degree program. The degree requirements allow students more flexibility in course selection, allowing them to focus on their major requirements. Unless directly articulated with another college/university the degree does not guarantee that students will be accepted as having completed all lower division comprehensive and General Education requirements for a baccalaureate degree (i.e., this is not a block transfer degree as is the AA/OT). There are no majors within this degree.

Students are strongly encouraged to consult their UCC academic and/or faculty advisor, the specific transfer curriculum pages in this catalog, and the intended transfer institution to determine appropriate course choices.

Associate of General Studies

This flexible degree option enables a student to complete an Associate degree that is tailored to the general education requirements of the transfer school. Students must exercise caution in using the AGS option, as the degree does not guarantee transferability of courses completed. Educational planning for the AGS should be done with the help of a UCC advisor.

Transfer Education Areas of Focus

Students can begin a bachelor's degree at UCC by completing many of the freshman and sophomore courses in the areas listed below. All transfer students should work closely with UCC advisors and faculty, as well as representatives of the school(s) to which they may transfer. There may be special requirements for specific programs or schools.

Department of Humanities

- English
- History
- Spanish
- Writing
- Communication Studies

Department of Performing and Visual Arts

- Music
- Theater Arts
- Visual Arts

Department of Science and Mathematics

- Biological Sciences
- Physical Sciences (physics, chemistry, and geology)
- Natural Resources
- Mathematics

Department of Social and Behavioral Sciences

- Early Childhood Education
- Education (K-12)
- Human Services
- Psychology
- Social Sciences

Department of Applied Science and Technology

- Computer Information System
- Engineering
- Forestry

Department of Business Administration

- Agriculture Management
- Business Administration

Department of Health Sciences

- Nursing

Department of Public Safety

- Criminal Justice

Student Learning Outcomes for AA/OT Degrees

The AA/OT/ASOT transfer degrees are designed to prepare students to succeed after transferring to public universities and to attain GPAs comparable to students who begin their education at those institutions. Students who attain these degrees will possess a wide range of knowledge and skills, as described in the categories below. As a result of completing the AA/OT/ASOT, students should be able to:

ARTS AND LETTERS

- 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.

MATHEMATICS

- Use appropriate mathematics to solve problems; and
- 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.

SCIENCE OR COMPUTER SCIENCES

- Gather, comprehend, and communicate scientific and technical information in order to explore ideas, models, and solutions and generate further questions; and
- 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.

SOCIAL SCIENCES

- 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

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

WRITING

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

CULTURAL LITERACY

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

GENERAL EDUCATION CORE

Oregon Transfer Compass, Core Transfer Map

PROGRAM DESCRIPTION

The General Education Core is designed to provide at least 30 credits of general education requirements for transfer to a bachelor's degree at any Oregon public university. It is intended as a starting point for students who plan to transfer to a university but are unsure of their intended major or transfer destination.

PROGRAM OUTCOMES

Students who successfully complete the General Education Core will be able to:

1. Communicate clearly and purposefully with awareness of the needs of different audiences and situations
2. Analyze data quantitatively as the basis for valid and reliable inferences to draw reasonable and appropriate conclusions
3. Identify and analyze complex cultural and artistic perspectives, practices, and products and their roles in society
4. Apply principles of scientific inquiry to natural and social systems
5. Analyze issues of identity and difference, power and privilege, to promote diversity, inclusion, and equity

PROGRAM COURSE REQUIREMENTS

Year One

WR 121 Academic Composition	4
Arts and Letters from AA/OT listing 2 courses	6-8
Social Sciences from AA/OT listing 2 courses	6-8
Sciences from AA/OT listing 2 courses	6-8
Mathematics from AA/OT listing 1 course	4-5

Additional Requirements

- At least one course must also meet Cultural Literacy outcomes.
- At least one Science course must include a lab.
- If the credit total for the required courses is less than 30 credits, select a course of choice from the AA/OT outcome courses

PROGRAM ENTRANCE REQUIREMENTS

Academic Entrance Requirement

Recommended:

- High school diploma or GED
- Minimum placement scores resulting in WR 121 Academic Composition placement or completion of WR 095 Basic Writing II ("C" or better)
- Minimum placement scores resulting in MTH 065 Algebra II placement or completion of MTH 060 Algebra I ("C" or better)

OREGON TRANSFER MODULE

OTM

PROGRAM DESCRIPTION

The Oregon Transfer Module (OTM) is an approved 45-unit subset of general education courses (foundational skills and introduction to discipline courses) that are common among Oregon's colleges and universities. It is designed to improve student access to a college degree by enhancing opportunities for the transfer of credits earned at one institution to another.

PROGRAM OUTCOMES

Students who successfully complete the OTM will:

1. Meet the General Education outcomes
2. Have a block of credits that transfer to Oregon public colleges and universities

PROGRAM COURSE REQUIREMENTS

Complete the General Education Core (see page 33) 30-33

ORAL COMMUNICATION Choose one from:

SP 105	Listening	3
SP 111	Fundamentals of Public Speaking	4
SP 112	Persuasive Speech	3
SP 218	Interpersonal Communication	3
SP 219	Small Group Discussion	3

WRITING Choose one from:

WR 122	Argument, Research, and Multimodal Composition	4
WR 227	Technical Writing	4

One additional course from the approved list in each of the following:

Arts and Letters	3-5
Sciences or Math or Computer Science	4-5
Social Sciences	3-5

Additional Requirements

- No course substitutions are allowed.
- No course may be used to satisfy requirements in more than one area

PROGRAM ENTRANCE REQUIREMENTS

Academic Entrance Requirement

Recommended:

- High school diploma or GED
- Minimum placement scores resulting in WR 121 Academic Composition placement or completion of WR 095 Basic Writing II ("C" or better)
- Minimum placement scores resulting in MTH 065 Algebra II placement or completion of MTH 060 Algebra I ("C" or better)

ASSOCIATE OF GENERAL STUDIES

AGS

PROGRAM DESCRIPTION

The Associate of General Studies (AGS) degree is intended to meet individual student needs using a variety of lower division college level courses to meet degree requirements. The AGS degree must include 90 quarter credits or equivalent proficiency, a recognizable core of general education courses, and an established standard of academic achievement. Electives may include any combination of lower division collegiate transfer and/or collegiate level career and technical education courses chosen from the approved list. Although it is not required, students are encouraged to complete the General Education Core and OTM as part of their AGS.

PROGRAM OUTCOMES

Students who successfully complete the AGS will complete a recognized degree while compiling credits to transfer to another college and university.

PROGRAM COURSE REQUIREMENTS

General Requirements

PSY 101	Psychology of Human Relations	3
WR 121	Academic Composition	4

MATHEMATICS Choose one from:

BA 180	Business Mathematics I	3
MTH 105	Math in Society	4
MTH 111 or above		4-5

Discipline Studies Requirements

At least one additional course from the approved list in each of the following:

Arts and Letters	3-5
Sciences or Math or Computer Science	4-5
Social Sciences	3-5

Additional Requirements

- No course substitutions are allowed.
- No course may be used to satisfy requirements in more than one area.
- All courses must be at least three credits each.

ADDITIONAL PROGRAM INFORMATION

1. Students should work closely with UCC advisors and faculty to select appropriate courses.
2. "Associate of General Studies" appears on the student's transcript. Specific program designation or focus does not appear on the student's transcript or degree.

3. To complete an AGS at Umpqua Community College, a minimum of 25% of the program credits required must be earned through UCC, two terms of attendance must have occurred at UCC, and a student must have a cumulative GPA of 2.0 or higher.
4. Courses used to satisfy AGS degree requirements must be on the approved list on pages 40-41.

ASSOCIATE OF SCIENCE

AS

PROGRAM DESCRIPTION

The Associate of Science (AS) degree is designed for students planning to transfer credits to a baccalaureate degree program. The degree requirements allow students more flexibility in course selection, allowing them to focus on their major requirements. Unless directly articulated with another college/ university the degree does not guarantee that students will be accepted as having completed all lower division comprehensive and General Education requirements for a baccalaureate degree (i.e., this is not a block transfer degree as is the AA/OT). There are no majors within this degree.

Students are strongly encouraged to consult their UCC academic and/or faculty advisor, the specific transfer curriculum pages in this catalog, and the intended transfer institution to determine appropriate course choices.

PROGRAM OUTCOMES

Please see specific outcomes on the individual AS degree pages. Listed below are the General Education requirements included in Associate of Science programs; additional courses are listed starting on pages 40-41 under the specific degree program.

PROGRAM COURSE REQUIREMENTS

General Requirements (23-26 credits)

MATHEMATICS:		
MTH 105	Math in Society or higher	4

ORAL COMMUNICATIONS: Choose one from:		
SP 105	Listening	3
SP 111	Fundamentals of Public Speaking	4
SP 112	Persuasive Speech	3
SP 218	Interpersonal Communication	3
SP 219	Small Group Discussion	3

WRITING		
WR 121	Academic Composition	4
Choose one from:		
WR 122	Argument, Research, and Multimodal Composition	4
WR 227	Technical Writing	4

Discipline Studies Requirements

At least one additional course from the approved list in each of the following:

Arts and Letters	3-5
Social Sciences	3-5
Sciences or Math or Computer Science	4-5

CULTURAL LITERACY:
3 credits from a course defined as meeting Cultural Literacy. This course may also be used to satisfy one of the requirements listed above.

Additional Requirements

- No course substitutions are allowed.
- No course may be used to satisfy requirements in more than one area.

ADDITIONAL PROGRAM INFORMATION

1. "Associate of Science" appears on the student's transcript. Specific program designation or focus does not appear on the student's transcript or degree.
2. To complete an AS at UCC, a minimum of 25% of the program credits required must be earned through UCC, two terms of attendance must have occurred at UCC, and a student must have a cumulative GPA of 2.0 or higher.
3. All elective courses must be lower division collegiate courses (numbered 100 and above). Career and technical course credits are limited to 12 credits unless part of an articulated program.

ASSOCIATE OF ARTS/ OREGON TRANSFER

AA/OT

PROGRAM DESCRIPTION

The Associate of Arts Degree is conferred on students who complete a full lower division college transfer program meeting requirements set jointly by Oregon's community colleges and public universities. This degree provides for "block transfer" and all lower division general education requirements of the receiving institution are met. Students should work closely with UCC advisors and faculty, and with representatives of the institution(s) to which they may transfer for specific details. There may be special requirements for specific programs or schools, as well as requirements for admissions, foreign language, and cultural literacy.

PROGRAM COURSE REQUIREMENTS

Foundational Requirements

HEALTH/WELLNESS/FITNESS:		
HPE 295	Wellness & Health Assessment	3

MATHEMATICS:		
MTH 105 or higher	(from the approved MTH courses listed on page 40)	4-5

ORAL COMMUNICATIONS: Choose one from:		
SP 105	Listening	3
SP 111	Fundamentals of Public Speaking	4
SP 112	Persuasive Speech	3
SP 218	Interpersonal Communication	3
SP 219	Small Group Discussion	3

WRITING		
WR 121	Academic Composition	4
Choose one from:		
WR 122	Argument, Research, and Multimodal Composition	4
WR 227	Technical Writing	4

Discipline Studies Requirements

ARTS AND LETTERS

Must take at least three courses, chosen from at least two disciplines from the approved list on page 40.

Note: Second year world languages, are included in this category. First year world languages are counted as electives.

SCIENCE / MATH / COMPUTER SCIENCE

Must take at least four courses from at least two disciplines — including at least three biological or physical science courses with labs, from the approved list on page 40.

Note: Math credits used to meet this requirement are in addition to any used to meet the Foundational Requirement above.

SOCIAL SCIENCE

Must take at least four courses chosen from at least two disciplines from the approved list on page 41.

ELECTIVES

Any courses numbered 100 or above that would bring total credits up to 90.

Note: Electives may include up to 12 credits from the approved Career and Technical Education (CTE) list on page 41, and a maximum of 12 credits of PE activity courses.

CULTURAL LITERACY

At least one of the Discipline Studies courses above must be designated as meeting the criteria for Cultural Literacy. This course is not an additional course — it would also meet Foundational, Discipline or Elective requirements.

Additional Requirements

- No course substitutions are allowed.
- No course may be used to satisfy requirements in more than one area.
- All foundational requirement and discipline studies requirement courses used must be at least three credits.

ADDITIONAL PROGRAM INFORMATION

1. A minimum 90 credits with a grade of C or higher and a cumulative GPA of 2.0 or higher are needed to satisfy AA/OT requirements.
2. To complete an AA/OT at UCC, a minimum of 24 credits must be earned through UCC and two terms of attendance must have occurred at UCC.

APPROVED DISCIPLINE STUDIES LISTINGS

ARTS AND LETTERS

ART 101*	Introduction to Visual Arts (4)
ART 120*	Artists' Books (3)
ART 134	Illustrating Nature (3)
ART 204*, 205, 206	History of Western Art I, II, III (4,4,4)
ENG 104*, 105*, 106*	Intro to Literature (4, 4, 4)
ENG 107, 108	World Literature (4, 4)
ENG 109*	World Literature (4)
ENG 201, 202	Shakespeare (4,4)
ENG 204, 205, 206	Survey of English Literature (4, 4, 4)
ENG 230*	Environmental Literature (4)
ENG 250	Intro to Mythology (4)
ENG 253*, 254*, 255*	Survey of American Lit. (4, 4, 4)
ENG 260	Intro to Women's Literature (4)
ENG 288*	Cultural Diversity in Contemporary American Literature(4)
FA 256	American Film History (4)
FR 201*, 202*, 203*	Second-Year French (4, 4, 4)
GER 201, 202, 203	Second-Year German (4, 4, 4)
J 205	Introduction to Public Relations (3)
J 215	Journalism Production (3)
J 251	Writing for the Media (3)
MUS 105	History of Rock (3)
MUS 161	Jazz Improvisation (3)
MUS 201, 202, 203	Intro to Music & Its Literature (3, 3, 3)
MUS 204	Music of the World (3)
MUS 205	Intro to Jazz History (3)
SPAN 201*, 202*, 203*	Second-Year Spanish (4, 4, 4)
SP 105	Listening (3)
SP 111	Fundamentals-Public Speaking (4)
SP 112	Persuasive Speech (3)
SP 218*	Interpersonal Communication (3)
SP 219	Small Group Discussion (3)
SP 237*	Gender Communication (3)
TA 256	Musical Theatre Workshop (3)
TA 257	Musical Theatre Dance (3)
TA 261	Intro to Costume Design (3)
TA 271	Introduction to Theatre (4)
WR 241, 242, 243	Creative Writing (4, 4, 4)
WS 101*	Introduction to Women's Studies (4)

ART: One 3-credit course in studio arts numbered 100 or above. (ART 221*)

THEATRE: One 3-credit course in theatre arts numbered 100 or above.

* meets AA/OT Cultural Literacy Requirement

SCIENCE / MATH / COMPUTER SCIENCE

ATS 201	Climate Science (4)
BI 101,102,103	General Biology (4, 4, 4)
BI 211, 212, 213	Principles of Biology (5, 5, 5)
BI 222	Genetics (3)
BI 231, 232, 233	Anatomy & Physiology (4, 4, 4)
BI 234	Introductory Microbiology (4)
BOT 203	General (Field) Botany (4)
BOT 204	Flowering Plants of So. Oregon-Northern California
CH 104,105,106	Introduction to Chemistry (4, 4, 4)

CH 112	Fundamentals of Chemistry (5)
CH 221, 222, 223	General Chemistry (5, 5, 5)
CH 241, 242, 243	Organic Chemistry (4, 4, 4)
CS XXX	Computer Science
ENGR 111	Engineering Orientation (3)
ENGR 112A	Problem Solving and Technology (3)
ENGR 112B	Problem Solving and Technology (3)
ENGR 201	Electrical Fundamentals (4)
ENGR 202	Electrical Fundamentals II (4)
ENGR 203	Electrical Fundamentals - Signals and Controls (4)
ENGR 211	Statics (4)
ENGR 212	Dynamics (4)
ENGR 213	Strength of Materials (4)
FN 225	Human Nutrition (4)
FOR 111	Introduction to Forestry (3)
FOR 234	GIS I Intro to Geographic Information Systems (3)
FOR 240	Forest Biology (4)
G 140	Volcanoes, Earthquakes and other Geologic Disasters (3)

G 180	Regional Field Geology (4)
G 201, 202, 203	General Geology (4, 4, 4)
G 221	Environmental Geology (4)
GIS 203	Digital Earth and Geospatial Concepts (4)
GIS 234	GIS I Intro to Geographic Information Systems (3)
GIS 235	GIS II Data Analysis and Application
GS 104, 105, 106	Physical Science (4, 4, 4)
GS 107	Beginning Astronomy (4)
GS 112	Making Sense of Science (4)
MTH 105	Math in Society (4)
MTH 111	College Algebra (5)
MTH 112	Elementary Functions (4)
MTH 211, 212, 213	Fundamentals of Elementary Math I, II, III (4, 4, 4)
MTH 231	Elements of Discrete Math I (4)
MTH 241, 242	Calculus for Management & Social Science I, II (4, 4)

MTH 243	Introduction to Probability & Statistics (5)
MTH 251, 252, 253	Calculus I, II, III (5, 4, 4)
MTH 254	Vector Calculus I (4)
MTH 256	Differential Equations (4)
MTH 265	Statistics for Scientists and Engineers
NR 141	Tree and Shrub Identification (4)
NR 201	Introduction to Natural Resources (3)
NR 221	Water Resource Science (4)
NR 240	Forest Biology (3)
NR 241	Dendrology (4)
NR 242	Ecosystems of SW OR/No CA (4)
NR 243	Historical Ecology of Pacific NW (3)
NR 251	Principles of Fish and Wildlife Conservation (3)
NR 255	Field Sampling of Fish and Wildlife (3)
NR 295	Environmental Dispute Resolution (3)
PH 201, 202, 203	General Physics (5, 5, 5)
PH 211, 212, 213	General Physics w/Calculus (5, 5, 5)
SOIL 205	Soil Science (3)
SOIL 206	Soil Science Lab (1)

APPROVED DISCIPLINE STUDIES LISTINGS

SOCIAL SCIENCES

ANTH 150	Intro to Archaeology (3)
ANTH 221*, 222*, 223*	Cultural Anthropology (3, 3, 3)
CJ 101	Introduction to Criminology (3)
CJ 110	Introduction to Law Enforcement (3)
CJ 114*	Cultural Diversity Issues in Criminal Justice (3)
CJ 130	Introduction to Corrections (3)
CJ 275	Comparative Criminal Justice Systems (3)
ECON 201	Microeconomics (4)
ECON 202	Macroeconomics (4)
GIS 203	Digital Earth and Geospatial Concepts (4)
GIS 234	GIS I Introduction to Geographic Information Systems
GIS 235	GIS II Data Analysis and Applications (4)
HD 208	Career/Life Planning (3)
HDFS 201	Individual & Family Development (3)
HDFS 225	Child Development (3)
HDFS 240	Contemporary American Family (3)
HS 100	Introduction to Human Services (3)
HS 154	Community Resources (3)
HST 104*, 105*, 106*	World History (3, 3, 3)
HST 201*, 202*, 203*	History of United States (3, 3, 3)
J 211*	Introduction to Mass Communication (3)
NR 295	Environmental Dispute Resolution (3)
PS 201*, 202*, 203	U.S. Government (3, 3, 3)
PS 205	International Relations (3)
PSY 101	Psychology of Human Relations (3)
PSY 201*, 202*, 203*	General Psychology (3, 3, 3)
PSY 239	Abnormal Psychology (3)
SOC 204*, 205*, 206	Introduction to Sociology (3, 3, 3)
SOC 207	Juvenile Delinquency (3)
SOC 213*	Race, Class, & Ethnicity (3)
SOC 225	Social Aspects of Addiction (3)
SOC 240	Sociology of Work and Leisure (3)

* meets AA/OT Cultural Literacy Requirement

CAREER & TECHNICAL

APR XXX	Apprenticeship
AUT XXX	Automotive
BA 116	Principles of Financial Services
BA 128	Accounting Applications I
BA 129	Accounting Applications II
BA 130	Accounting Applications III
BA 150	Developing a Small Business
BA 151	Practical Accounting I
BA 152	Practical Accounting II
BA 160	Accounting for Managers
BA 165	Customer Service
BA 177	Payroll Accounting
BA 180	Business Mathematics I
BA 181	Business Mathematics II
BA 215	Cost Accounting
BA 228	Computerized Accounting Systems I
BA 229	Computerized Accounting Systems II
BA 230	Computerized Accounting Systems III
BA 235	Intermediate Accounting I
BA 236	Intermediate Accounting II
BA 237	Intermediate Accounting III
BA 240	Introduction to Auditing
BA 256	Tax Accounting I
BA 257	Tax Accounting II
CIS XXX	Computer Information Systems(except CIS 120)
CWE XXX	Cooperative Work Experience
CJ 100X	Law Enforcement Skills Training
DA XXX	Dental Assisting
DRF XXX	Drafting Technology
ECE 104	ECE Seminar & Practicum IV
ECE 105	ECE Seminar & Practicum V
ECE 106	ECE Seminar & Practicum VI
EMS XXX	Emergency Medical Services
ES XXX	Emergency Services
FRP XXX	Fire Protection Technology
LA XXX	Paralegal Studies
MED XXX	Medical Office
MFG XXX	Machine Manufacturing Technology
NRS XXX	Registered Nursing
OA XXX	Office Assistant
PN XXX	Practical Nursing
SDP XXX	Supervision
TEN XXX	Automotive T-TEN
TTL XXX	Truck Driving
VC XXX	Visual Communications
VE XXX	Viticulture & Enology
WLD XXX	Welding
WQT XXX	Water Quality Treatment
XXX 280X	Cooperative Work Experience

NOTE: XXX refers to any course in a given category



CAREER & TECHNICAL EDUCATION

Career and technical programs provide instruction in the knowledge and skills from a wide variety of occupations that demand education beyond high school. Students prepare for employment by completing a two-year associate degree in applied sciences or by completing shorter term certificate programs. In many fields, career and technical education may enhance employment opportunities by providing students with industry certifications desired by employers.

While career-technical programs are designed primarily to prepare the student for immediate employment, many also offer opportunities for transfer to another college or university. Students are encouraged to speak with an academic advisor about these possibilities.

Certificates of Completion

Certificates of completion are awarded for occupational content only. They must be state approved, have a defined job entry point, represent collegiate level work, and meet State Board of Education criteria. Certificates of completion programs must be comprised of 12 to 108 credits.

A cumulative grade point of 2.00 minimum and attendance at UCC are required. Satisfactory completion of a course or series of courses may be recognized by the award of a certificate of completion. Specific awards are dependent upon the nature of the program.

Related Instruction requirement for one-year certificate programs (45 or more credits) are as follows. Complete a recognizable core of general education courses, including:

1. Satisfactory placement scores in mathematics, and/or writing, which meet or exceed the competencies established for each individual program by the program's Advisory Board
Required learning outcome competency may be provided by:
 - a. Embedded Learning
 - b. Completion of required specified content area class(es)
 - c. Competency Testing
2. WR 115 Introduction to Expository Writing or above
3. Three credits of mathematics numbered 52 or above
4. Human Relations Component

Associate of Applied Science

The Associate of Applied Science (AAS) degree is intended to prepare graduates for direct entry into the workforce. The AAS degree may also help to prepare students for career advancement, occupational licensure, or study at the baccalaureate level. As a minimum, the AAS must include 90 quarter credits or equivalent proficiency; a recognizable core of or demonstrated competencies in specific general education courses; and an established standard of academic achievement. Curricula focuses on the application of knowledge and skills related to the occupations and careers identified by the program. Electives may include a combination of

lower division collegiate transfer and/or collegiate-level career and technical education courses.

General requirements for the Associate of Applied Science are:

The Associate of Applied Science will be conferred on students who complete a two-year program in Career-Technical Education.

The Related Instruction component is also required for AAS degree (see above information under Certificates of Completion).

The Associate of Applied Science Degree will be awarded to students who:

1. Satisfactorily complete all required courses in a specified occupational curriculum.
2. Complete a minimum of 90 credit hours or equivalent proficiency.
3. Maintain a cumulative grade point average of 2.00.
4. Complete a recognizable core of related instruction courses, including:
 - a. Demonstrated competency in mathematics and/or writing which meets or exceeds the competencies established for each individual program by the program's Advisory Board. Required learning outcome competency may be provided by:
 - i. Embedded Learning
 - ii. Successful completion of required specified content area class(es)
 - iii. Competency Testing
 - b. Four (4) credit hours of Mathematics numbered 52 or above or demonstrated competency.
 - c. Four (4) credit hours in WR 115 English Composition or above or demonstrated competency.
 - d. Three (3) credit hours of Human Relations as specified by program.
5. Attend UCC for at least two terms, including the term prior to completion.
6. Complete a minimum of 25% credit hours at UCC, 15 of which must be in a career and technical discipline (see page 41 for a list of approved courses). A maximum of 24 credits of CWE will count towards the Associate of Applied Science Degree.

Human Relations includes:

1. The ways people interact with each other, either individually or in groups;
2. Basic communication skills such as speaking, listening, and writing; and
3. Interpersonal and intercultural sensitivity.

Approved Human Relations Courses

HD 136	Strategies for Success	(3)
PSY 101	Psychology of Human Relations	(3)
SDP 113	Human Relations for Supervisors	(3)
SP 105	Listening	(3)
SP 218	Interpersonal Communication	(3)
SP 219	Small Group Discussion	(3)

CAREER & TECHNICAL AREAS INDEX

Program	Certificate Pg.	AAS Pg.	Program	Certificate Pg.	AAS Pg.
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Umpqua Healthcare Careers	45		Emergency Medical Services Paramedicine	93	94
APPRENTICESHIP TECHNOLOGIES			ENGINEERING TECHNOLOGY		
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Automotive Advanced Technician - T-TEN	58		Surveying	96	
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Automotive Basic Technician - T-TEN	57		Water Quality Technician	97	
Automotive Service Technology		56	FIRE SCIENCE		
Automotive Technology - T-TEN		59	Fire Science		105
BUSINESS ADMINISTRATION			HUMAN SERVICES		
Agricultural Business Management		60	Addiction Studies	110	
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Retail Management	64		Executive Business Assistant		122
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Public Relations Specialist	69		Microsoft Office Technologist	120	
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Early Childhood Education	88				
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ALLIED HEALTH

Umpqua Healthcare Careers Certificate

PROGRAM DESCRIPTION

This program is designed to give students the training and skills needed to secure employment in entry-level positions related to medical office administration.

PROGRAM OUTCOMES

Students who successfully complete the Umpqua Healthcare Career Certificate will:

1. Apply knowledge of medical terminology, anatomy and physiology, and medical office procedures in various healthcare settings
2. Incorporate knowledge of the healthcare field into career goals
3. Model professionalism as it relates to health care

CAREER CONSIDERATIONS

The courses in the certificate can also be used as electives for a number of degrees. Additionally, it opens paths and options to a variety of other medical career paths.

PROGRAM COURSE REQUIREMENTS

Year One

MED100	Intro to Healthcare Careers*	2
MED111	Medical Terminology I	3
MED112	Medical Terminology II	3
MED115	Anatomy & Physiology for Medical Assistants	3
MED220	Medical Office Procedures I	3
Choose One:		
CWE161	CWE Seminar I	1
OA280C	CWE: Administrative Medical Assistant	3

Total Credits 18

*Course offered in dual credit only.

Scheduling requirements may prevent all courses from being offered every term. Consultation with an advisor is critical to a student's selection of courses.

PROGRAM ENTRANCE REQUIREMENTS

Academic Entrance Requirement

Recommended:

- Although there is no application process for this program, please be advised that most area medical offices and clinics do thorough background history checks and drug screens prior to employment, including cooperative work experience placement. Felony records can cause difficulty in getting hired in a medical field.

APPRENTICESHIP TECHNOLOGIES

Electrician Apprenticeship Technologies Certificate

PROGRAM DESCRIPTION

Oregon Bureau of Labor and Industries – Apprenticeship Training Division (BOLI-ATD) and local Joint Apprenticeship Training Committee (JATC) trade-specific standards of apprenticeship control the training. This program is restricted to BOLI-ATD registered apprentices. The Inside Electrical Apprenticeship is an open apprenticeship with a competitive ranked list. The Manufacturing Plant Electrician apprenticeship is a closed enrollment program and not available to the general student population.

Apprenticeship training is an earn-while-you learn program. The apprentice is an employee and earns a wage while receiving on-the-job training and attending related training classes.

An approved training agent selects apprentices through a competitive bid process from current employees. The apprentice connects to the JATC after selection through the indenture (registration) process. Local JATCs representing labor and management work with the College to implement the apprenticeship programs. Every six months the JATC reviews and evaluates each apprentice's progress.

The apprenticeship model provides statewide transfer opportunities, ladder-type Certificates of Completion, Associate of Applied Science degrees and an optional transfer path into a Bachelor of Applied Science degree in Operations Management at Oregon Institute of Technology.

The BOLI-ATD website www.oregon.gov/boli/atd provides more information about apprenticeship and statewide opportunities.

Umpqua Community College offers two 8,000-hour BOLI-ATD registered apprenticeships in partnership with Roseburg Industrial Electrical JATC, Area IV (Roseburg) Inside Electrical JATC and BOLI-ATD.

- Manufacturing Plant Electrician
- Inside Electrician

PROGRAM OUTCOMES

This apprenticeship program provides specialized training for apprentices who are registered with BOLI-ATD as Manufacturing Plant Electricians or General Journey Inside Electricians. The Oregon State Standard for each trade aligns the course of study.

Successful completion of required courses must be with at least a "C" grade. Successful apprentice students earn a trade-specific Oregon State License Journeyman Card upon successful completion of the Building Codes Division electrical journeyman test.

Students who successfully complete the Manufacturing Plant Electrician or Inside Electrician program will:

1. Demonstrate knowledge of electrical fundamentals and safety

2. Demonstrate accurate measurements, calculations and use of equipment
3. Assess and troubleshoot various electrical situations
4. Electrical Code and Exam Prep

CAREER CONSIDERATIONS

The Electrical Apprenticeship Technology program prepares students for advanced-level jobs and journeyman careers in the following areas:

- General Licensed Journeyman Electrician
- PJ Limited Licensed Journeyman Manufacturing Plant Electrician

PROGRAM COURSE REQUIREMENTS

Year One

APR 140	Welding for Apprentices * MPE only	1
APR 151	Basic Electronics and Electricity	4
APR 153	Electrical Applications and Techniques	3
APR 155	Electrical Best Practices	2
APR 157	Introduction to the NEC	2
APR 159	Electrical Blueprint Reading	2

Year Two

APR 160	Residential Wiring *Inside Electrician Only	3
APR 163	Commercial Wiring	3
APR 165	AC Electronics and Electricity	4
APR 167	Electric Motors and Transformers	3
APR 169	Electrical Code Study 2	2

Year Three

APR 251	Electrical Sensors and Controls	3
APR 253	Electrical Code Study 3	2
APR 255	Motor Controls 1	2
APR 257	High Voltage Applications	2
APR 259	Solid State and Digital Applications	4
APR 261	Electrical Code Study 4	2

Year Four

APR 263	Communications Alarms and Controls	2
APR 265	Motor Controls 2	2
APR 267	Advance Code Study	3
APR 269	Journeyman's Exam Prep	3
APR 269	Journeyman's Exam Prep	3

Total Credits 41

NOTE: A state-issued Journeyman card is equal to 22 credits – INDU 93

www.umpqua.edu

APPRENTICESHIP TECHNOLOGIES, continued

Electrician Apprenticeship Technologies Certificate

Approved Electives –

Choose enough electives to reach a minimum of 63 overall degree credits

APR 112	Machine Shop Practices 2	3
APR 113	Machine Shop Practices 3	3
APR 122	Hydraulics 2	3
APR 123	Hydraulics 3	3
APR 142	Advanced Welding for Apprentices	1
APR 151	Basic Electronics & Electricity	4
APR 153	Electrical Applications & Techniques	3
APR 165	AC Electronics & Electricity	4
APR 259	Solid State and Digital Applications	4
BA 101	Introduction to Business	4
CIS 120	Intro to Computer Information Systems	4
CIS 125D	Microcomputer Applications – Database	3
CIS 125S	Computer Applications Spreadsheets	3
DRF 245	Engineering Graphics	?
HPE 295	Wellness & Health Assessment	3
SDP 109	Elements of Supervision	3
SDP 113	Human Relations for Supervisors	3

Additional Related Instruction – 6 credits

MTH 95 or higher	4
WR 122 or higher	4

Human Relations Course

PSY 101	Psychology of Human Relations	3
SDP 112	Communicating Effectively in the Workplace	3
SDP 113	Human Relations/Supervisors	3
SP 105	Listening	3
SP 218	Interpersonal Communication	3
SP 219	Small Group Discussion	3

Total Credits 91

PROGRAM ENTRANCE REQUIREMENTS

Academic Entrance Requirement

- JATC Approval

www.umpqua.edu

APPRENTICESHIP TECHNOLOGIES

Electrician Apprenticeship Technologies Associate of Applied Science

PROGRAM DESCRIPTION

Oregon Bureau of Labor and Industries – Apprenticeship Training Division (BOLI-ATD) and local Joint Apprenticeship Training Committee (JATC) trade-specific standards of apprenticeship control the training. This program is restricted to BOLI-ATD registered apprentices. Therefore, this is a closed enrollment program and not available to the general student population. Apprenticeship training is an earn-while-you learn program. The apprentice is an employee and earns a wage while receiving on-the-job training and attending related training classes. An approved training agent selects apprentices through a competitive bid process from current employees. The apprentice connects to the JATC after selection through the indenture (registration) process. Local JATCs representing labor and management work with the College to implement the apprenticeship programs. Every six months the JATC reviews and evaluates each apprentice's progress.

The apprenticeship model provides statewide transfer opportunities, ladder-type Certificates of Completion, Associate of Applied Science degrees and an optional transfer path into a Bachelor of Applied Science degree in Operations Management at Oregon Institute of Technology.

The BOLI-ATD website www.oregon.gov/boli/atd provides more information about apprenticeship and statewide opportunities. Umpqua Community College offers two 8,000-hour BOLI-ATD registered apprenticeships in partnership with Roseburg Industrial Electrical JATC, Area IV (Roseburg) Electrical JATC and BOLI-ATD.

- Inside Electrician
- Manufacturing Plant Electrician

PROGRAM OUTCOMES

This apprenticeship program provides specialized training for apprentices who are registered with BOLI-ATD as Manufacturing Plant Electrician or Inside Electrical Electrician. The Oregon State Standard for each trade aligns the course of study.

All required courses must be completed with at least a "C" grade. Successful apprentice students earn a trade-specific Oregon State License Journeyman Card upon successful completion of the Building Codes Division limited maintenance electrician journeyman test.

Students who successfully complete the Electrician program will:

1. Demonstrate knowledge of electrical fundamentals and safety
2. Demonstrate accurate measurements, calculations and use of equipment
3. Assess and troubleshoot various electrical situations
4. Electrical Code and Exam Prep

CAREER CONSIDERATIONS

The Electrical Apprenticeship Technology program prepares students for advanced-level jobs and journeyman careers in the following areas:

- General Licensed Journeyman Electrician
- PJ Limited Licensed Journeyman Manufacturing Plant Electrician

PROGRAM COURSE REQUIREMENTS

Year One

APR 140	Welding for Apprentices * MPE only	1
APR 151	Basic Electronics and Electricity	4
APR 153	Electrical Applications and Techniques	3
APR 155	Electrical Best Practices	2
APR 157	Introduction to the NEC	2
APR 159	Electrical Blueprint Reading	2

Year Two

APR 160	Residential Wiring *Inside Electrician Only	3
APR 163	Commercial Wiring	3
APR 165	AC Electronics and Electricity	4
APR 167	Electric Motors and Transformers	3
APR 169	Electrical Code Study 2	2

Year Three

APR 251	Electrical Sensors and Controls	3
APR 253	Electrical Code Study 3	2
APR 255	Motor Controls 1	2
APR 257	High Voltage Applications	2
APR 259	Solid State and Digital Applications	4
APR 261	Electrical Code Study 4	2

Year Four

APR 263	Communications Alarms and Controls	2
APR 265	Motor Controls 2	2
APR 267	Advance Code Study	3

Additional Related Instruction – 37 credits

HUMAN RELATIONS COURSE		3
PSY 101	Psychology of Human Relations	3
SDP 112	Communicating Effectively in the Workplace	3
SDP 113	Human Relations/Supervisors	3
SP 105	Listening	3
SP 218	Interpersonal Communication	3
SP 219	Small Group Discussion	3
WR 115	or higher	4

APPRENTICESHIP TECHNOLOGIES, continued

Electrician Apprenticeship Technologies Associate of Applied Science

Approved Electives –

Choose enough electives to reach a minimum of 48 overall degree credits

APR 112	Machine Shop Practices 2	3
APR 113	Machine Shop Practices 3	3
APR 122	Hydraulics 2	3
APR 123	Hydraulics 3	3
APR 142	Advanced Welding for Apprentices	1
APR 151	Basic Electronics & Electricity	4
APR 153	Electrical Applications & Techniques	3
APR 165	AC Electronics & Electricity	4
APR 259	Solid State and Digital Applications	3
BA 101	Introduction to Business	4
CIS 120	Introduction to Computer Information Systems	4
CIS 125D	Microcomputer Applications - Database	4
CIS 125S	Computer Applications Spreadsheets	3
DRF 245	Engineering Graphics	3
HPE 295	Wellness & Health Assessment	3
SDP 109	Elements of Supervision	3
SDP 113	Human Relations for Supervisors	3

Total Credits 92

PROGRAM ENTRANCE REQUIREMENTS

Academic Entrance Requirement

- JATC Approval

APPRENTICESHIP TECHNOLOGIES

Industrial Mechanics and Maintenance Technology Apprenticeship Certificate

PROGRAM DESCRIPTION

Oregon Bureau of Labor and Industries – Apprenticeship Training Division (BOLI-ATD) and local Trade Apprenticeship Training Committee (TATC) trade-specific standards of apprenticeship control the training. This program is restricted to BOLI-ATD registered apprentices. Therefore, this is a closed enrollment program and not available to the general student population.

Apprenticeship training is an earn-while-you learn program. The apprentice is an employee and earns a wage while receiving on-the-job training and attending related training classes. An approved training agent selects apprentices through a competitive bid process from current employees. The apprentice connects to the TATC after selection through the indenture (registration) process. Local TATCs representing labor and management work with the College to implement the apprenticeship programs. Every six months the TATC reviews and evaluates each apprentice's progress.

The apprenticeship model provides statewide transfer opportunities, ladder-type Certificates of Completion, Associate of Applied Science degrees and an optional transfer path into a Bachelor of Applied Science degree in Technology and Management at Oregon Institute of Technology.

The BOLI-ATD website www.oregon.gov/boli/atd provides more information about apprenticeship and statewide opportunities. Umpqua Community College offers three 8,000-hour BOLI-ATD registered apprenticeships in partnership with Douglas Coos Curry TATC and BOLI-ATD.

- Industrial Fabricator/Welder
- Industrial Maintenance Machinist
- Industrial Maintenance Millwright

PROGRAM OUTCOMES

This apprenticeship program provides specialized training for apprentices registered with BOLI-ATD as Industrial Fabricator/Welder, Industrial Maintenance Machinist, or Industrial Maintenance Millwright apprentices. The Oregon State Standard for each trade aligns the course of study.

Successful completion of required courses must be with at least a "C" grade. Each apprentice student earns a trade-specific Oregon State Journeyman Card upon successful completion. Students will:

1. Demonstrate knowledge of machinery operation and maintenance
2. Demonstrate fabrication techniques
3. Demonstrate mathematics of the trade
4. Demonstrate safe working practices in accordance with state and federal regulations

CAREER CONSIDERATIONS

The Industrial Maintenance program prepares students for advanced-level jobs and journeyman careers in the following areas:

- Journeyman Fabricator/Welder
- Journeyman Industrial Maintenance Machinist
- Journeyman Industrial Maintenance Millwright

PROGRAM COURSE REQUIREMENTS

Industrial Apprenticeship Core Curriculum

APR 111 Machine Shop 1	3
APR 115 Computer Aided Drafting 1 (CAD)	3
APR 120 Industrial Safety	3
APR 121 Hydraulics 1	3
APR 131 Basic Metallurgy	3
APR 140 Beginning Welding	1
APR 141 Intermediate Welding	1
APR 145 Blueprint Reading and Sketching	3
APR 228 Rigging Fundamentals	3
MTH 075 Applied Geometry	3

Additional Curriculum for Fabricator/Welders

APR 112 Machine Shop 2	3
APR 122 Hydraulics 2	3
APR 130 Mechanical Principles and Drive Design	3
APR 229 Basic Pneumatics	3
MTH 052 Intro to Algebra for the Trades or MTH 075 Applied Geometry	3

Industrial Apprenticeship for Millwrights

APR 112 Machine Shop 2	3
APR 122 Hydraulics 2	3
APR 123 Hydraulics 3	3
APR 130 Mechanical Principles and Drive Design	3
APR 229 Basic Pneumatics	3

Additional Curriculum for Machinists

APR 112 Machine Shop 2	3
APR 113 Machine Shop 3	3
APR 130 Mechanical Principles and Drive Design	3
CIS 120 Intro to Computer Information Systems	4

APPRENTICESHIP TECHNOLOGIES, continued

Industrial Mechanics and Maintenance Technology Apprenticeship Certificate

Additional Related Instruction

WR 115 or higher	3
HUMAN RELATIONS COURSE:	
PSY 101 Psychology of Human Relations	3
SDP 112 Communicating Effectively in the Workplace	3
SDP 113 Human Relations/Supervisors	3
SP 105 Listening	3
SP 218 Interpersonal Communication	3
SP 219 Small Group Discussion	3
Total Credits 37	

Approved Electives

Choose enough electives to reach a minimum of 48 overall degree credits

APR 112 Machine Shop Practices 2	3
APR 113 Machine Shop Practices 3	3
APR 122 Hydraulics 2	3
APR 123 Hydraulics 3	3
APR 142 Advanced Welding for Apprentices	1
APR 151 Basic Electronics & Electricity	4
APR 153 Electrical Applications & Techniques	3
APR 165 AC Electronics & Electricity	4
APR 259 Solid State and Digital Applications	3
BA 101 Introduction to Business	4
CIS 120 Introduction to Computer Information Systems	4
CIS 125D Microcomputer Applications - Database	4
CIS 125S Computer Applications Spreadsheets	3
DRF 245 Engineering Graphics	3
HPE 295 Wellness & Health Assessment	3
SDP 109 Elements of Supervision	3
SDP 113 Human Relations for Supervisors	3
Total Credits 49	

PROGRAM ENTRANCE REQUIREMENTS

Academic Entrance Requirement

- TATC Approval
- CPR/First Aid certification is required for entry.

APPRENTICESHIP TECHNOLOGIES

Industrial Mechanics and Maintenance Technology Apprenticeship Associate of Applied Science

PROGRAM DESCRIPTION

Oregon Bureau of Labor and Industries – Apprenticeship Training Division (BOLI-ATD) and local Trade Apprenticeship Training Committee (TATC) trade-specific standards of apprenticeship control the training. This program is restricted to BOLI-ATD registered apprentices. Therefore, this is a closed enrollment program and not available to the general student population.

Apprenticeship training is an earn-while-you learn program. The apprentice is an employee and earns a wage while receiving on-the-job training and attending related training classes. An approved training agent selects apprentices through a competitive bid process from current employees. The apprentice connects to the TATC after selection through the indenture (registration) process. Local TATCs representing labor and management work with the College to implement the apprenticeship programs. Every six months the TATC reviews and evaluates each apprentice's progress.

The apprenticeship model provides statewide transfer opportunities, ladder-type Certificates of Completion, Associate of Applied Science degrees and an optional transfer path into a Bachelor of Applied Science degree in Technology and Management at Oregon Institute of Technology.

The BOLI-ATD website www.oregon.gov/boli/atd provides more information about apprenticeship and statewide opportunities. Umpqua Community College offers three 8,000-hour BOLI-ATD registered apprenticeships in partnership with Douglas Coos Curry TATC and BOLI-ATD.

- Industrial Fabricator/Welder
- Industrial Maintenance Machinist
- Industrial Maintenance Millwright

PROGRAM OUTCOMES

This apprenticeship program provides specialized training for apprentices registered with BOLI-ATD as Industrial Fabricator/Welder, Industrial Maintenance Machinist, or Industrial Maintenance Millwright apprentices. The Oregon State Standard for each trade aligns the course of study.

Successful completion of required courses must be with at least a "C" grade. Each apprentice student earns a trade-specific Oregon State Journeyman Card upon successful completion. Students will:

1. Demonstrate knowledge of machinery operation and maintenance
2. Demonstrate fabrication techniques
3. Demonstrate mathematics of the trade
4. Demonstrate safe working practices in accordance with state and federal regulations

CAREER CONSIDERATIONS

The Industrial Maintenance program prepares students for advanced-level jobs and journeyman careers in the following areas:

- Journeyman Fabricator/Welder
- Journeyman Industrial Maintenance Machinist
- Journeyman Industrial Maintenance Millwright

PROGRAM COURSE REQUIREMENTS

Industrial Apprenticeship Core Curriculum

APR 111	Machine Shop 1	3
APR 115	Computer Aided Drafting 1 (CAD)	3
APR 120	Industrial Safety	3
APR 121	Hydraulics 1	3
APR 131	Basic Metallurgy	3
APR 140	Beginning Welding	1
APR 141	Intermediate Welding	1
APR 145	Blueprint Reading and Sketching	3
APR 228	Rigging Fundamentals	3
MTH 075	Applied Geometry	3

Additional Curriculum for Fabricator/Welders

APR 112	Machine Shop 2	3
APR 122	Hydraulics 2	3
APR 130	Mechanical Principles and Drive Design	3
APR 229	Basic Pneumatics	3
MTH 052	Intro to Algebra for the Trades	3
or MTH 075	Applied Geometry	3

Industrial Apprenticeship for Millwrights

APR 112	Machine Shop 2	3
APR 122	Hydraulics 2	3
APR 123	Hydraulics 3	3
APR 130	Mechanical Principles and Drive Design	3
APR 229	Basic Pneumatics	3

Additional Curriculum for Machinists

APR 112	Machine Shop 2	3
APR 113	Machine Shop 3	3
APR 130	Mechanical Principles and Drive Design	3
CIS 120	Intro to Computer Information Systems	4

Total Credits 41

NOTE: A state-issued Journeyman card is equal to 22 credits – INDU 93

APPRENTICESHIP TECHNOLOGIES, continued

Industrial Mechanics and Maintenance Technology Apprenticeship Associate of Applied Science

Additional Related Instruction

HUMAN RELATIONS COURSE:

PSY 101	Psychology of Human Relations	3
SDP 112	Communicating Effectively in the Workplace	3
SDP 113	Human Relations/Supervisors	3
SP 105	Listening	3
SP 218	Interpersonal Communication	3
SP 219	Small Group Discussion	3
WR 115 or higher		3
WR 121 or higher		3

Approved Electives

Choose enough electives to reach a minimum of 91 overall degree credits

APR 112	Machine Shop Practices 2	3
APR 113	Machine Shop Practices 3	3
APR 122	Hydraulics 2	3
APR 123	Hydraulics 3	3
APR 142	Advanced Welding for Apprentices	1
APR 151	Basic Electronics & Electricity	4
APR 153	Electrical Applications & Techniques	3
APR 165	AC Electronics & Electricity	4
APR 259	Solid State and Digital Applications	3
BA 101	Introduction to Business	4
CIS 120	Introduction to Computer Information Systems	4
CIS 125D	Microcomputer Applications - Database	4
CIS 125S	Computer Applications Spreadsheets	3
DRF 245	Engineering Graphics	3
HPE 295	Wellness & Health Assessment	3
SDP 109	Elements of Supervision	3
SDP 113	Human Relations for Supervisors	3

Total Credits 91

PROGRAM ENTRANCE REQUIREMENTS

Academic Entrance Requirement

- TATC Approval
- CPR/First Aid certification is required for entry

APPRENTICESHIP TECHNOLOGIES

Limited Electrician Apprenticeship Technologies Certificate

PROGRAM DESCRIPTION

Oregon Bureau of Labor and Industries – Apprenticeship Training Division (BOLI-ATD) and local Trade Apprenticeship Training Committee (TATC) trade-specific standards of apprenticeship control the training. This program is restricted to BOLI-ATD registered apprentices. Therefore, this is a closed enrollment program and not available to the general student population.

Apprenticeship training is an earn-while-you learn program. The apprentice is an employee and earns a wage while receiving on-the-job training and attending related training classes. An approved training agent selects apprentices through a competitive bid process from current employees. The apprentice connects to the JATC after selection through the indenture (registration) process. Local JATCs representing labor and management work with the College to implement the apprenticeship programs. Every six months the TATC reviews and evaluates each apprentice's progress.

The apprenticeship model provides statewide transfer opportunities, ladder-type Certificates of Completion, Associate of Applied Science degrees and an optional transfer path into a Bachelor of Applied Science degree in Technology and Management at Oregon Institute of Technology.

The BOLI-ATD website www.oregon.gov/boli/atd provides more information about apprenticeship and statewide opportunities. Umpqua Community College offers one 4,000-hour BOLI-ATD registered apprenticeships in partnership with Roseburg Industrial Electrical JATC and BOLI-ATD.

- Limited Maintenance Electrician

PROGRAM OUTCOMES

Students who successfully complete the Limited Maintenance Electrician Technologies Certificate will:

1. Demonstrate knowledge of electrical fundamentals and safety
2. Demonstrate accurate measurements, calculations and use of equipment
3. Assess and troubleshoot various electrical situations
4. Electrical Code and Exam Prep

CAREER CONSIDERATIONS

The Limited Maintenance Electrician Technologies Certificate program prepares students for entry level jobs and future careers in the following areas:

- Limited Maintenance Journeyman Electrician

PROGRAM COURSE REQUIREMENTS

Year One

APR 151	Basic Electronics and Electricity	4
APR 153	Electrical Applications and Techniques	3
APR 157	Introduction to the NEC	2
APR 159	Electrical Blueprint Reading	2

Year Two

APR 165	AC Electronics and Electricity	4
APR 169	Electrical Code Study 2	2
APR 253	Electrical Code Study 3	2
APR 255	Motor Controls 1	2

PROGRAM ENTRANCE REQUIREMENTS

Academic Entrance Requirement

- JATC Approval

AUTOMOTIVE TECHNOLOGY

Automotive Basic Technician Pathway Certificate

PROGRAM DESCRIPTION

The Automotive Basic Technician Certificate program is committed to providing students with a wide range of knowledge and skills applicable to entry-level jobs as an automotive technician not requiring all certification areas.

The mission of the UCC Automotive department is to provide quality education and hands-on training to prepare students for a successful career in Automotive Technology as certified technicians.

PROGRAM OUTCOMES

Students who successfully complete the Automotive Basic Technician Pathway Certificate will:

1. Apply fundamentals of automotive service training, including the basics of automotive diagnostics and repair, pre-delivery inspection and warranty repair procedures
2. Identify, inspect, disassemble and assemble basic components of automotive power plants
3. Apply knowledge of the function, construction, operation, troubleshooting and service of disc, drum and ABS brake systems
4. Apply knowledge of electrical principles, semi-conductors, microprocessors and wiring diagrams to diagnose and repair malfunctions of automotive electrical systems
5. Apply knowledge of the function, construction, operation, troubleshooting and service of front and rear wheel drive manual and automatic transmissions and transaxles

PROGRAM COURSE REQUIREMENTS

Year One

AUT 100	Orientation to Automotive Technology	1
AUT 151	Internal Combustion Engines	6
AUT 155	Automotive Brakes	6
AUT 161	Power Trains	5
AUT 168	Automotive Electricity I	5
AUT 169	Automotive Electricity II	5
AUT 170	Automotive Electricity III	5

Total Credits 33

Consult a T-TEN program advisor for course schedules and course pre-requirements.

Automotive courses are offered in four to six week modules.

PROGRAM ENTRANCE REQUIREMENTS

Academic Entrance Requirement

- Accepted application for the Automotive program
- Minimum GPA in automotive courses shall be 2.0.
- A basic tool set is required of all entering students. The list of tool requirements is available thru the automotive department.

AUTOMOTIVE TECHNOLOGY

Automotive Advanced Technician Pathway Certificate

PROGRAM DESCRIPTION

The Automotive Advanced Technician Certificate program is committed to providing students with a wide range of knowledge and skills applicable to entry-level jobs as an automotive technician not requiring an associate degree.

The mission of the UCC Automotive department is to provide quality education and hands-on training to prepare students for a successful career in Automotive Technology as certified technicians.

PROGRAM OUTCOMES

Students who successfully complete the Automotive Advanced Technician Pathway Certificate will:

1. Apply knowledge of the function, construction, operation, troubleshooting and service of steering, suspension, and wheel alignment
2. Use electronic engine analyzers and scanners to test and tune ignition, fuel injection, and emission systems
3. Apply fundamentals of automotive service training, including the basics of automotive diagnostics and repair, pre-delivery inspection and warranty repair procedures
4. Identify, inspect, disassemble and assemble basic components of automotive power plants
5. Apply knowledge of the function, construction, operation, troubleshooting and service of front and rear wheel drive automatic transmissions and transaxles
6. Test, service, and repair automotive HVAC systems

PROGRAM COURSE REQUIREMENTS

Year One

AUT 250	Suspension and Alignment	5
AUT 259	Electronic Engine Controls I	5
AUT 260	Electronic Engine Controls II	5
AUT 263	Automatic Transmissions	6
AUT 286 ¹	Climate Control Systems	5
AUT 289	Electronic Engine Controls III	5

Total Credits 31

Consult an automotive program advisor for course schedules and course pre-requirements.

¹ Prior to taking AUT 286 (Climate Control systems) an Air Conditioning Certificate is required from one of the following organizations:

- ASE (Refrigerant recovery and recycling certification test)
- Mobile Air Conditioning Society International Mobile Air Conditioning Association

Automotive courses are offered in four to six week modules.

PROGRAM ENTRANCE REQUIREMENTS

Academic Entrance Requirement

- Minimum GPA in automotive courses shall be 2.0.
- Successful completion of Automotive Basic Technician Certificate
- A basic tool set is required of all entering students. The list of tool requirements is available thru the automotive department.

AUTOMOTIVE TECHNOLOGY

Automotive Service Technology Associate of Applied Science Degree

PROGRAM DESCRIPTION

The Automotive Service Technology Associate of Applied Science Degree program is committed to providing students with a wide range of knowledge and skills applicable to entry-level jobs as an automotive technician.

The mission of the UCC Automotive department is to provide quality education and hands-on training to prepare students for a successful career in Automotive Technology as certified technicians.

The UCC Automotive program is accredited by the National Automotive Technical Education Foundation.

PROGRAM OUTCOMES

Students who successfully complete the Associate of Applied Science degree in Automotive Service Technology will:

1. Apply fundamentals of automotive service training, including the basics of automotive diagnostics and repair, pre-delivery inspection and warranty repair procedure
2. Identify, inspect, disassemble and assemble basic components of automotive power plants
3. Apply knowledge of the function, construction, operation, troubleshooting and service of disc, drum and ABS brake systems, steering, suspension and wheel alignment
4. Use electronic engine analyzers and scanners to test and tune ignition, fuel injection, and emission systems
5. Apply knowledge of electrical principles, semi-conductors, microprocessors and wiring diagrams to diagnose and repair malfunctions of automotive electrical systems
6. Apply knowledge of the function, construction, operation, troubleshooting and service of front and rear wheel drive manual and automatic transmissions and transaxles
7. Test, service and repair heating and air-conditioning systems

PROGRAM COURSE REQUIREMENTS

Year One

AUT 100	Orientation to Automotive Technology	1
AUT 151	Internal Combustion Engines	6
AUT 155	Automotive Brakes	6
AUT 161	Power Trains	5
AUT 168	Automotive Electricity I	5
AUT 169	Automotive Electricity II	5
AUT 170	Automotive Electricity III	5
CIS 100	Introduction to Windows and PC's	3
MTH 052	Intro to Algebra for the Trades (or higher)	4
WR 115	English Composition: Intro to Expository Writing (or higher)	4

AUTOMOTIVE TECHNOLOGY T-TEN

Automotive Basic Technician Pathway Certificate

PROGRAM DESCRIPTION

The T-TEN program is designed to provide the training for individuals to become certified technicians at a Toyota dealership. The students must be accepted into the program as well as meet the requirements of the sponsoring Toyota dealership. The program rotates approximately quarterly between training at Umpqua Community College and the sponsoring dealerships. Certification requires either both the T-TEN Basic Certificate and the T-TEN Advanced Certificate or the T-TEN Associate of Applied Science degree.

The mission of the UCC Automotive department is to provide quality education and hands-on training to prepare students for a successful career in Automotive Technology as certified technicians.

PROGRAM OUTCOMES

Students who successfully complete the Automotive Basic Technician – T-TEN Certificate will:

1. Apply fundamentals of automotive service training, including the basics of automotive diagnostics and repair, pre-delivery inspection and warranty repair procedures
2. Identify, inspect, disassemble and assemble basic components of automotive power plants
3. Apply knowledge of the function, construction, operation, troubleshooting and service of disc, drum and ABS brake systems, steering, suspension and wheel alignment
4. Apply knowledge of electrical principles, semi-conductors, microprocessors and wiring diagrams to diagnose and repair malfunctions of automotive electrical systems

Year Two

AUT 250	Suspension and Alignment	5
AUT 259	Electronic Engine Controls I	5
AUT 260	Electronic Engine Controls II	5
AUT 263	Automatic Transmissions	6
AUT 286 ¹	Climate Control Systems	5
AUT 289	Electronic Engine Controls III	5
HE 252	First Aid	3
	-OR-	
HPE 295	Wellness & Health Assessment	3
PSY 101	Psychology of Human Relations	3
WLD 101	Welding Processes and Applications	4

Approved Electives

Choose enough electives to reach a minimum of 93 overall degree credits.

AUT 280	CWE – Automotive	varies
	100 level courses or higher	varies

Total Credits 93

Consult an automotive program advisor for course schedules and course pre-requirements.

1. Prior to taking AUT 286 (Climate Control systems) an Air Conditioning Certificate is required from one of the following organizations:
 - ASE (Refrigerant recovery and recycling certification test)
 - Mobile Air Conditioning Society International Mobile Air Conditioning Association

Automotive courses are offered in four to six week modules.

PROGRAM ENTRANCE REQUIREMENTS

Academic Entrance Requirement

- Accepted application for the Automotive program
- Minimum GPA in automotive courses shall be 2.0.
- A basic tool set is required of all entering students. The list of tool requirements is available thru the automotive department.

PROGRAM COURSE REQUIREMENTS

Year One

TTEN 100	Intro to Toyota	5
TTEN 150	Suspension and Alignment - Toyota	5
TTEN 151	Internal Combustion Engines - Toyota	6
TTEN 155	Automotive Brakes - Toyota	6
TTEN 168	Automotive Electricity I - Toyota	6
TTEN 169	Automotive Electricity II - Toyota	6
TTEN 280	CWE – Toyota	6

Total Credits 40

Consult an automotive program advisor for course schedules and course pre-requirements.

T-TEN course schedule does not match conventional academic calendar.

PROGRAM ENTRANCE REQUIREMENTS

Academic Entrance Requirement

- Accepted application packet for the T-TEN program
- Acceptance into the T-TEN program by Umpqua Community College's T-TEN Coordinator
- Minimum GPA in automotive courses shall be 2.0.
- A basic tool set is required of all entering students. The list of tool requirements is available thru the T-TEN department.

AUTOMOTIVE TECHNOLOGY T-TEN

Automotive Advanced Technician Pathway Certificate

PROGRAM DESCRIPTION

The T-TEN program is designed to provide the training for individuals to become certified technicians at a Toyota dealership. The students must be accepted into the program as well as meet the requirements of the sponsoring Toyota dealership. The program rotates approximately quarterly between training at Umpqua Community College and the sponsoring dealerships. Certification requires either both the T-TEN Basic Certificate and the T-TEN Advanced Certificate or the T-TEN Associate of Applied Science degree.

The mission of the UCC Automotive department is to provide quality education and hands-on training to prepare students for a successful career in Automotive Technology as certified technicians.

PROGRAM OUTCOMES

Students who successfully complete the Automotive Advanced Technician – T-TEN Certificate will:

1. Apply fundamentals of automotive service training, including the basics of automotive diagnostics and repair, pre-delivery inspection and warranty repair procedures
2. Identify, inspect, disassemble and assemble basic components of automotive power plants
3. Apply knowledge of the function, construction, operation, troubleshooting and service of disc, drum, and ABS brake systems, steering, suspension and wheel alignment
4. Apply knowledge of electrical principles, semi-conductors, microprocessors and wiring diagrams to diagnose and repair malfunctions of automotive electrical systems

PROGRAM COURSE REQUIREMENTS

Year One

TTEN 259	Electronic Engine Controls I - Toyota	6 T
TEN 260	Electronic Engine Controls II - Toyota	6 T
TEN 261	Power Trains – Toyota	5 T
TEN 263	Automatic Transmissions - Toyota	6
TTEN 280	CWE - Toyota	6
TTEN 286	Climate Control - Toyota	5

Total Credits 34

Consult an automotive program advisor for course schedules and course pre-requirements.

- ¹ Prior to taking AUT 286 (Climate Control systems) an Air Conditioning Certificate is required from one of the following organizations:
- ASE (Refrigerant recovery and recycling certification test)
 - Mobile Air Conditioning Society International Mobile Air Conditioning Association

T-TEN course schedule does not match conventional academic calendar.

PROGRAM ENTRANCE REQUIREMENTS

Academic Entrance Requirement

- Successful completion of the Automotive Basic Technician – T-TEN Certificate
- Acceptance into the T-TEN program by Umpqua Community College's T-TEN Coordinator
- Minimum GPA in automotive courses shall be 2.0.
- A basic tool set is required of all entering students. The list of tool requirements is available thru the T-TEN department.

AUTOMOTIVE TECHNOLOGY T-TEN

Automotive Technology – T-TEN Associate of Applied Science

PROGRAM DESCRIPTION

The T-TEN program is designed to provide the training for individuals to become certified technicians at a Toyota dealership. The students must be accepted into the program as well as meet the requirements of the sponsoring Toyota dealership. The program rotates approximately quarterly between training at Umpqua Community College and the sponsoring dealerships. Certification requires either both the T-TEN Basic Certificate and the T-TEN Advanced Certificate or the T-TEN Associate of Applied Science degree.

The mission of the UCC Automotive department is to provide quality education and hands-on training to prepare students for a successful career in Automotive Technology as certified technicians.

The UCC Automotive program is accredited by the National Automotive Technical Education Foundation.

PROGRAM OUTCOMES

Students who successfully complete the Associate of Applied Science in Automotive Technology – T-TEN degree will:

1. Apply fundamentals of automotive service training, including the basics of automotive diagnostics and repair, pre-delivery inspection and warranty repair procedures
2. Identify, inspect, disassemble and assemble basic components of automotive power plants
3. Apply knowledge of the function, construction, operation, troubleshooting and service of disc, drum and ABS brake systems, steering, suspension and wheel alignment
4. Use electronic engine analyzers and scanners to test and tune ignition, fuel injection, and emission systems
5. Apply knowledge of electrical principles, semi-conductors, microprocessors and wiring diagrams to diagnose and repair malfunctions of automotive electrical systems
6. Apply knowledge of the function, construction, operation, troubleshooting and service of front and rear wheel drive manual and automatic transmissions and transaxles
7. Test, service and repair heating and air-conditioning systems

PROGRAM COURSE REQUIREMENTS

Year One

CIS 100	Introduction to windows and PCs	3
MTH 052	Intro to Algebra for the Trades (or higher)	4
TTEN 100	Intro to Toyota	5
TTEN 150	Suspension and Alignment - Toyota	5
TTEN 151	Internal Combustion Engines - Toyota	6
TTEN 155	Automotive Brakes - Toyota	6
TTEN 168	Automotive Electricity I - Toyota	6
TTEN 169	Automotive Electricity II - Toyota	6
TTEN 280	CWE – Toyota	6
WR 115	English Composition: Intro to Expository Writing (or higher)	4

Year Two

HE 252	First Aid	3
or HPE 295	Wellness & Health Assessment	3
PSY 101	Psychology of Human Relations	3
TTEN 259	Electronic Engine Controls I - Toyota	6
TTEN 260	Electronic Engine Controls II - Toyota	6
TTEN 261	Power Trains – Toyota	5
TTEN 263	Automatic Transmissions - Toyota	6
TTEN 280	CWE - Toyota	6
TTEN 286 ¹	Climate Control - Toyota	5

Total Credits 91

Consult a T-TEN program advisor for course schedules and course pre-requirements.

- ¹ Prior to taking AUT 286 (Climate Control systems) an Air Conditioning Certificate is required from one of the following organizations:
- ASE (Refrigerant recovery and recycling certification test)
 - Mobile Air Conditioning Society International Mobile Air Conditioning Association

T-TEN course schedule does not match conventional academic calendar.

PROGRAM ENTRANCE REQUIREMENTS

Academic Entrance Requirement

- Accepted application packet for the T-TEN program
- Acceptance into the T-TEN program by Umpqua Community College's T-TEN Coordinator
- Minimum GPA in automotive courses shall be 2.0.
- A basic tool set is required of all entering students. The list of tool requirements is available thru the T-TEN department.

BUSINESS ADMINISTRATION

Agricultural Business Management Associate of Science

PROGRAM DESCRIPTION

The agricultural business management degree is designed to help a farm or ranch manager succeed in today's complex business environment where sound business management skills are as important as agriculture production knowledge.

PROGRAM OUTCOMES

Learning outcomes are based on the acquisition of skills and abilities, achievement of knowledge, and refinement of attitudes and values. Students who successfully complete an Associate of Science degree with an emphasis in Agricultural Business Management will:

1. Communicate effectively using oral and written skills
2. Use appropriate current technology such as computers and the internet
3. Understand basic business terminology
4. Exhibit critical thinking and decision-making skills
5. Explain microeconomic theory at the basic level
6. Explain macroeconomic theory at the basic level
7. Perform basic algebra and calculus calculations
8. Analyze and evaluate agribusiness problems and management decisions on a basic level

Students who complete a four-year degree at OSU are expected to:

1. Explain microeconomic theory at the intermediate level
2. Analyze and evaluate agribusiness problems and management decisions using business software
3. Utilize and apply statistical methods to analyze commodity markets and economic data
4. Formulate marketing plans and strategies for both generic commodities and specialized products
5. Explain how external forces such as law, environmental regulations, and government policies impact agribusiness decision making

PROGRAM COURSE REQUIREMENTS

Year One

AEC 121	Discovering Agriculture & Resource Economics*	1
AG 111	Computer Applications in Agriculture*	3
BA 101	Introduction to Business*	4
MTH 111	College Algebra*	5
PSY 201	General Psychology	3
WR 121	Academic Composition*	4
WR 122	Argument, Research, and Multimodal Comp*	4
**Approved Elective		3
Biological Science (Choose 1 with lab, BI101, BI102, BI103)		4
Literature and the Arts (Choose 1 from ART, ENG, MUS)		3

Physical Science (Choose 1 with lab, BI or CH) 4-5

Choose One:

SP 111	Public Speaking	4
SP 112	Persuasive Speech	3

Year Two

AEC 211	Management in Agriculture*	4
AEC 221	Marketing in Agriculture*	3
BA 211	Principles of Accounting I*	3
BA 212	Principles of Accounting II*	3
BA 213	Principles of Accounting III	3
BA 226	Business Law	4
CH 221	General Chemistry with Lab	5
ECON 201	Microeconomics*	4
ECON 202	Microeconomics*	4
HPE 295	Wellness and Health Assessment	3
MTH 241	Calculus for Management*	4
Perspectives (Choose 1 from ANTH221, HST104, HST105, HST106, HST201, HST202, HST203)		3
Perspectives (Choose 1 from ART204, ART205, ART206, ENG253, ENG254, HST104, HST105, HST106, HST201, HST202, HST203)		3
Western Culture (Choose 1 HST201, HST202, HST203)		3

* A grade of C or better must be attained in the courses indicated.

**Please see an academic advisor or program website for the full list of approved electives or course options.

Total Credits 90

Scheduling requirements may prevent all courses from being offered every term. Consultation with an advisor is critical to a student's selection of courses.

PROGRAM ENTRANCE REQUIREMENTS

Academic Entrance Requirement

- Students are required to take the college placement test to determine skill level and readiness indicated by test scores. As part of the program, students must begin with the courses within their skill level as determined by the placement scores. In addition, students may also be required to enroll in classes that would increase their employability and success.
- Coursework from accredited colleges and universities will be accepted in accordance with college policies and the Business Technology Department Chair's approval.
- In order to ensure coursework is current, program courses over 10 years old must be reviewed and approved by the appropriate department chair before being accepted towards course requirements.

BUSINESS ADMINISTRATION

Business Administration Associate of Science

PROGRAM DESCRIPTION

The Business Administration degree is designed to prepare students to transfer directly as juniors with no loss of credit in order to pursue a bachelor's degree in business. The degree is fully articulated with SOU's Business program. OSU requires one additional math class not offered at UCC.

This degree aligns with SOU and OSU Undergraduate Business Majors. Contact the UCC program for additional information.

PROGRAM OUTCOMES

Students who complete the Business Administration Association of Science will have the knowledge, skills, and abilities to:

1. Apply and synthesize the functional areas of business to make sound business decisions
2. Access, use, and evaluate information in business decision making
3. Use quantitative and qualitative analytical and critical thinking skills to evaluate information, solve problems, and make sound decisions.
4. Communicate effectively in various forms.
5. Demonstrate knowledge and application of prescribed ethical codes and behaviors in the workplace

PROGRAM COURSE REQUIREMENTS

Year One

BA 101	Introduction to Business	4
BA 226	Business Law	4
MTH 243	Introduction to Probability and Statistics	5
WR 121	Academic Composition	4

Choose One:

MTH 105	Math in Society	4
MTH 111	College Algebra	4

Choose One:

SP 111	Public Speaking	4
SP 218	Interpersonal Communication	3
SP 219	Small Group Discussion	3

Choose One:

WR 122	Argument, Research, and Multimodal Comp*	4
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*Approved Elective

*Humanities 9

Year Two

BA 211	Principles of Accounting I	3
BA 212	Principles of Accounting II	3
BA 213	Principles of Accounting III	3
ECON 201	Microeconomics	4
ECON 202	Microeconomics	4
*Approved Elective		20
*Science with Lab		8
*Science with or without Lab		3-4

*Please see an academic advisor or program website for the full list of approved electives or course options.
Please see an advisor for a degree planning worksheet for this program.

Total Credits 90

Scheduling requirements may prevent all courses from being offered every term. Consultation with an advisor is critical to a student's selection of courses.

NOTES

- See Southern Oregon University transfer: www.sou.edu Additional courses may be needed.
- See Oregon State University transfer: www.oregonstate.edu Additional courses may be needed.

PROGRAM ENTRANCE REQUIREMENTS

Academic Entrance Requirement

Recommended:

- Although there is not a formal application or acceptance process for this program, students should be advised that many businesses do thorough background checks and drug screens prior to employment, including cooperative work experience placements. If starting the program outside of fall term, students should work closely with the advisor when planning their schedule.

BUSINESS TECHNOLOGY

**Entrepreneurship
Pathways Certificate**

PROGRAM DESCRIPTION

The Entrepreneurship Career Pathway provides basic training and knowledge needed to start and effectively operate a small business.

PROGRAM OUTCOMES

Students who successfully complete the Entrepreneurship Pathway Certificate will:

1. Illustrate basic management functions and principles
2. Communicate effectively using oral and written skills
3. Exhibit critical thinking and decision-making skills
4. Apply appropriate ethical choices on both a professional and personal basis
5. Function effectively as a member of a team
6. Utilize appropriate technology relevant to the profession
7. Explain business vocabulary
8. Interpret financial reports
9. Demonstrate effective personal presentation skills

PROGRAM COURSE REQUIREMENTS

Year One

BA101	Introduction to Business	4
BA150	Developing a Small Business	4
BA180	Business Math I	3
BA206	Management Fundamentals	3
BA223	Principle of Marketing	3
BA226	Business Law	4
BA250	Managing a Small Business	3
BA280C	Cooperative Work Experience: Management	3
*Approved Elective		
Choose One:		
BA211	Principles of Accounting I	3
BA233	Accounting for Managers	4

Total Credits 42

*Please see an academic advisor or program website for the full list of approved electives.

Scheduling requirements may prevent all courses from being offered every term. Consultation with an advisor is critical to a student's selection of courses.

Entry Management degree can be connected to this certificate with careful course selection. Students should choose BA211.

BUSINESS TECHNOLOGY

**Financial Services
Certificate**

PROGRAM DESCRIPTION

This program is designed to prepare students for entry-level teller positions in banks or credit unions. Students will gain the theoretical knowledge and will learn practical skills necessary for success in this field.

PROGRAM OUTCOMES

Students who successfully complete the Financial Services Certificate will:

1. Demonstrate professional skills in the financial services industry that will ensure workplace success
2. Communicate effectively using oral and written skills
3. Exhibit critical thinking and decision-making skills
4. Apply appropriate ethical choices on both a professional and personal basis
5. Function effectively as a member of a team
6. Utilize appropriate technology relevant to the profession

CAREER CONSIDERATIONS

When finished with the Front Office Medical Assistant certificate, students will also have completed the entire first year of the AAS degree program Medical Office Administration allowing easy transition for those students wanting to further their education.

When finished with the Medical Billing and Collections Clerk Certificate, students will have completed a significant portion of the AAS degree in Medical Office Administration. Students wishing to continue their education should have an easy transition to the AAS and beyond.

PROGRAM COURSE REQUIREMENTS

Year One

BA 101	Introduction to Business	4
BA 116	Principles of Financial Services	4
BA 165	Customer Service	3
BA 214	Business Communications	3
BA 218	Personal Finance	3
CIS 120	Intro to Computer Information Systems	4
CWE 161	CWE Seminar I	1
OA 131	Ten-Key Calculator	1
Choose One:		
SP 105	Listening	3
SP 218	Interpersonal Communication	3

Total Credits 26

Scheduling requirements may prevent all courses from being offered every term. Consultation with an advisor is critical to a student's selection of courses.

PROGRAM ENTRANCE REQUIREMENTS

Academic Entrance Requirement

- Minimum exit-level keyboarding speed and accuracy: 30 net wpm with 95% or better accuracy. Students should seek placement keyboarding test from the Business Department. If skills are not adequate, then the student should plan to take OA 110 and OA 124 to meet the exit level keyboarding requirement. See an academic advisor for occupational requirements.

BUSINESS TECHNOLOGY

Retail Management Certificate

PROGRAM DESCRIPTION

The Retail Management Certificate* (RMC) is an exciting program that will help prepare students to take on entry-level management positions in the retail industry. The program builds skills in many areas critical to the success of retail management. Courses of study will include management, marketing, supervision, human resources, communications, and more.

*This 8-course program of study is sponsored by the Western Association of Food Chains (WAFC).

PROGRAM OUTCOMES

Students who successfully complete the Retail Management Certificate will:

1. Communicate effectively using verbal and written skills
2. Identify and examine human relations skills within the retail organization
3. Understand business vocabulary
4. Understand and properly interpret financial reports
5. Understand basic management, supervision, and human resource functions and principles
6. Apply appropriate ethical choices
7. Exhibit critical thinking and decision-making skills

CAREER CONSIDERATIONS

Retail is a rapidly growing industry with an increasing need for an educated workforce to fill opportunities in: management and operations, sales and marketing, customer service, human resources, accounting, logistics and supply chain management, merchandising, design, information technology, legal, just to name a few!

The Retail Management Certificate is an accredited community college program that will equip students with valuable skills to start or advance their career in the retail industry. Students will gain a greater understanding of the "why principles," enabling them to confidently find their niche within the broad spectrum of retail careers.

PROGRAM COURSE REQUIREMENTS

Courses must be taken in the order shown

Year One

BA 206	Management Fundamentals	3
BA 214	Business Communications	4
BA 231	Computers in Business	4
SDP 113	Human Relations for Supervisors	3

Year Two

BA 223	Marketing	3
BA 233	Accounting for Managers	4
BA 249	Retailing	3
SDP 208	Human Resources for Supervisors	3

*Please see an academic advisor or the program website to view the required sequencing of courses.

Total Credits 26

*This 8-course program of study is sponsored by the Western Association of Food Chains (WAFC).

PROGRAM ENTRANCE REQUIREMENTS

Academic Entrance Requirement

- UCC students pursuing certificates and degrees may complete the certificate by completing the specified classes as part of their program.
- Retail WAFC National Students may enroll if they are employed by a retail organization.
- The national RMC program is offered in conjunction with the WAFC and is taught fully online.
- National students must have a personal computer and access to high speed internet connections



BUSINESS TECHNOLOGY

Supervision Certificate

PROGRAM DESCRIPTION

This certificate program is designed to give students flexibility in course selection while specializing in topics relevant to supervisors.

PROGRAM OUTCOMES

Students who successfully complete the Supervision Certificate will:

1. Illustrate basic management functions and principles
2. Communicate effectively using oral and written skills
3. Exhibit critical thinking and decision-making skills
4. Apply appropriate ethical choices on both a professional and personal basis
5. Function effectively as a member of a team
6. Utilize appropriate technology relevant to the profession
7. Explain business vocabulary
8. Interpret financial reports
9. Demonstrate effective personal presentation skills
10. Use effective personal presentation skills
11. Exhibit critical thinking and decision-making skills

CAREER CONSIDERATIONS

This certificate is a pathway to Executive Business Assistant AAS.

PROGRAM COURSE REQUIREMENTS

Year One

BA 101	Introduction to Business	4
CIS 120	Intro to Computer Information Systems	4
SDP 109	Elements of Supervision	3
SDP 201	Coaching in the Workplace	3
SDP 205	Management and Leadership Dynamics	3
SDP 208	Human Resources for Supervisors	3
WR 121	Academic Composition	4
HUMAN RESOURCES COURSE		3
*Select 6 credits from other SDP courses		6
*Approved Electives		10

Choose One:

BA 180	Business Math I	3
MTH 060	Introduction to Algebra	4

Total Credits 46

*Please see an academic advisor or program website for the full list of approved electives.

Scheduling requirements may prevent all courses from being offered every term. Consultation with an advisor is critical to a student's selection of courses.

Entry Management degree can be connected to this certificate with careful course selection.

PROGRAM ENTRANCE REQUIREMENTS

Academic Entrance Requirement

Recommended:

- Students entering the program are expected to have basic keyboarding and computer skills with business application software such as Word and Excel. If these skills are needed, students should take Intro to Computer Information Systems (CIS 120) during the first term at UCC.

BUSINESS TECHNOLOGY

Entry Management
Associate of Applied Science

PROGRAM DESCRIPTION

The two-year Entry Management degree prepares students to become an effective business leader in today's rapidly changing competitive business environment. The program develops skills in accounting, motivating and managing employees, communication, marketing, public speaking, business software, community service, and financial management. Whether new to the business world or are seeking to upgrade skills, the program will provide the training needed to succeed.

PROGRAM OUTCOMES

Students who successfully complete the Associate of Applied Science degree in Entry Management will:

1. Illustrate basic management functions and principles
2. Communicate effectively using oral and written skills
3. Exhibit critical thinking and decision-making skills
4. Apply appropriate ethical choices on both a professional and personal basis
5. Function effectively as a member of a team
6. Utilize appropriate technology relevant to the profession
7. Explain business vocabulary
8. Interpret financial reports
9. Demonstrate effective personal presentation skills

PROGRAM COURSE REQUIREMENTS

Year One

BA 101	Introduction to Business*	4
BA 106A	Business Leadership I	1
BA 106B	Business Leadership II	1
BA 106C	Business Leadership III	1
BA 180	Business Math I	3
BA 181	Business Math II	3
BA 214	Business Communications*	3
BA 223	Principles of Marketing*	3
BA 226	Business Law*	4
SDP 205	Management and Leadership Dynamics	3
SP 111	Fundamentals of Public Speaking	4
WR 121	Academic Composition*	4
WR 122	Argument, Research, and Multimodal Comp*	4
WR 227	Technical Writing*	4
HUMAN RESOURCES COURSE		3
Choose One:		
BA 249	Retailing	3
SDP 208	Human Resources for Supervisors	3

Year Two

BA 128	Accounting Applications I*	2
BA 129	Accounting Applications II*	2
BA 206	Management Fundamentals*	3
BA 211	Principles of Accounting I*	3
BA 212	Principles of Accounting II*	3
BA 213	Principles of Accounting III*	3
BA 222	Financial Management	3
BA 231	Computers in Business*	4
BA 232	Introduction to Business Statistics	3
BA280C	Cooperative Work Experience: Management*	6
CWE 161	CWE Seminar I	1
CWE 162	CWE Seminar II	1
ECON 115	Microeconomics	3
**Approved Elective		3

Choose One:

BA 250	Managing a Small Business	3
SDP 109	Elements of Supervision	3

*A grade of C or better must be attained in the courses indicated.

**Please see an academic advisor or program website for the full list of approved electives or course options.

Total Credits 91

Scheduling requirements may prevent all courses from being offered every term. Consultation with an advisor is critical to a student's selection of courses.

¹ SDP 205 will be only be offered every other year. Choice of Human Relations is from a list of approved Human Relations courses not already required by the program. (See page 43)

PROGRAM ENTRANCE REQUIREMENTS

Academic Entrance Requirement

Recommended:

- Students entering the program are expected to have basic keyboarding and computer skills with business application software such as Word and Excel. If these skills are needed, students should take Intro to Computer Information Systems (CIS120) during their first term at UCC.

BUSINESS TECHNOLOGY

Marketing
Associate of Applied Science

PROGRAM DESCRIPTION

The two-year Marketing degree provides training for many solid well-paid opportunities in the exciting field of marketing. The program is designed to prepare students for a career and leadership role in business by developing the of the student skills in building customer value and satisfaction, working with teams, supervising employees, communicating effectively both orally and in writing, understanding business terminology, presenting information, and using business software. Whether seeking to upgrade skills or are new to the business, this program will help students become successful in a competitive, rapidly changing business environment. The curriculum combines "leading edge" instruction with on-the-job training (Cooperative Work Experience).

PROGRAM OUTCOMES

Students who successfully complete the Associate of Applied Science degree in Marketing will:

1. Demonstrate professional skills in marketing that will assure workplace success
2. Communicate effectively using oral and written skills
3. Exhibit critical thinking and decision-making skills
4. Apply appropriate ethical choices on both a professional and personal basis
5. Function efficiently as a member of a team
6. Utilize appropriate technology relevant to the profession

PROGRAM COURSE REQUIREMENTS

Year One

BA 101	Introduction to Business*	4
BA 106A	Business Leadership I	1
BA 106B	Business Leadership II	1
BA 106C	Business Leadership III	1
BA 165	Customer Service	3
BA 180	Business Math I	3
BA 181	Business Math II	3
BA 214	Business Communications*	3
BA 223	Principles of Marketing*	3
BA 226	Business Law*	4
CWE 161	CWE Seminar I	1
SDP 113	Human Relations for Supervisors	3
SP 111	Fundamentals of Public Speaking*	4
WR 121	Academic Composition*	4
WR 122	Argument, Research, and Multimodal Comp*	4
**Approved Elective		

Year Two

BA 207	Introduction to e-Commerce	3
BA 231	Computers in Business	4
BA 238	Professional Selling*	3
BA 249	Retailing*	3
BA 253	Social Media Marketing	3
BA 239	Advertising*	3
BA 280B	Cooperative Work Experience: Marketing*	6
CWE 162	CWE Seminar II	1
CWE 163	CWE Seminar III	1
ECON 115	Introduction to Economics	3
SDP 208	Human Resources for Supervisors	3
WR 227	Technical Writing*	4
**Approved Elective		1-2

Choose One:

BA 206	Management Fundamentals	3
SDP 109	Elements of Supervision	3

Choose One:

BA 211	Principles of Accounting I*	3
BA 233	Accounting for Managers	4

*A grade of C or better must be attained in the courses indicated.

**Please see an academic advisor or program website for the full list of approved electives.

Total Credits 90

Scheduling requirements may prevent all courses from being offered every term. Consultation with an advisor is critical to a student's selection of courses.

PROGRAM ENTRANCE REQUIREMENTS

Academic Entrance Requirement

- Retail Management students must take BA206 and BA233.

Recommended:

- Students entering the program are expected to have basic keyboarding and computer skills with business application software such as Word and Excel. If these skills are needed, they should take Intro to Computer Information Systems (CIS120) during their first term at UCC.
- BA 101, Introduction to Business, should be taken during the first term or as soon as possible.

COMMUNICATIONS STUDIES

Communications Specialist
in Organizations
Pathways Certificate

PROGRAM DESCRIPTION

The 16-credit Communications Specialist in Organizations: Pathway Certificate is designed to provide targeted study in the area of communications and to prepare students for employment in customer service positions, as well as in other communications-related jobs, including marketing and sales.

This certificate will represent coursework completed in the Communication Studies area that applies to positions such as customer service or other communication-related jobs including marketing and sales. Students who complete this certificate will have demonstrated skill in listening, developing persuasive messages, problem solving, team work, decision making, clearly communicating information, developing rapport, and technical writing.

PROGRAM OUTCOMES

Students who successfully complete the Communications Specialist in Organizations: Pathway Certificate will:

1. Apply ethical principles to communication tasks, including decision-making and the crafting of public messages
2. Practice systemic critical thinking processes related to communication issues, developing tactical strategies, and implementing creative solutions
3. Critically analyze and evaluate written, verbal, and nonverbal messages
4. Communicate effectively and appropriately with diverse and multicultural audiences using appropriate speaking, listening, and writing skills
5. Take responsibility for establishing collaborative work settings; conceptualize, organize, participate in and actualize teams in a creative, flexible, and collegial manner
6. Use information technology effectively and efficiently to conduct research and to create and deliver messages

CAREER CONSIDERATIONS

Opportunities in the communication field are growing at a faster-than-average rate. Students who earn four-year degrees in communication may choose to work in such fields as media or broadcasting, journalism, public relations, marketing, education, or business leadership, among others. Degrees can be earned in any of these specializations at four-year colleges and universities.

PROGRAM COURSE REQUIREMENTS

Year One

BA 165	Customer Service	3
or BA 214	Business Communications	
SP 105	Listening	3
SP 112	Persuasive Speech	3
SP 219	Small Group Discussion	3
WR 227	Technical Writing	4

Total Credits 16

COMMUNICATIONS STUDIES

Public Relations
Communications Assistant
Pathways Certificate

PROGRAM DESCRIPTION

The 18-credit Public Relations Communication Assistant: Pathway Certificate is designed to provide targeted study in the area of communications and to prepare students for employment in customer service positions, as well as in other communications-related jobs, including marketing and sales.

This certificate will represent coursework completed in the Communication Studies area that applies to positions such as public relations specialists or other communication-related jobs such as marketing, sales, journalism and advertising.

Students who complete this certificate will have demonstrated skill in analyzing needs of different publics, listening, developing persuasive messages, understanding the history and influence of mass media, writing for the media, problem solving, team work, decision-making, and applying relevant theories to work and public situations.

PROGRAM OUTCOMES

Students who successfully complete the Public Relations Communication Assistant: Pathway Certificate will:

1. Apply ethical principles to communication tasks, including decision-making and the crafting of public messages
2. Practice systemic critical thinking processes related to communication issues, developing tactical strategies, and implementing creative solutions
3. Critically analyze and evaluate written, verbal, and nonverbal messages
4. Communicate effectively and appropriately with diverse and multicultural audiences using appropriate speaking, listening, and writing skills
5. Take responsibility for establishing collaborative work settings; conceptualize, organize, participate in and actualize teams in a creative, flexible, and collegial manner
6. Use information technology effectively and efficiently to conduct research and to create and deliver messages

CAREER CONSIDERATIONS

Opportunities in the communication field are growing at a faster-than-average rate. Students who earn four-year degrees in communication may choose to work in such fields as media or broadcasting, journalism, public relations, marketing, education, or business leadership, among others. Degrees can be earned in any of these specializations at four-year colleges and universities.

PROGRAM COURSE REQUIREMENTS

Year One

CIS 125H	Writing Web Pages	2
or J 215	Journalism Production	1-3
or VC 130	Introduction to Photoshop	3
J 211	Intro to Mass Communication	3
J 251	Writing for the Media	3
J 205	Intro to Public Relations	3
SP 105	Listening	3
SP 112	Persuasive Speech	3

Total Credits 18

COMMUNICATIONS STUDIES

Public Relations Specialist One-Year Certificate

PROGRAM DESCRIPTION

The Public Relations Specialist One-Year Certificate at UCC prepares students for career applications and transfer into four-year degree programs. Students may choose from one of three program areas of concentration: Journalism, Public Relations/General Communication, or Speech.

Though individuals who work in the public relations field as specialists generally have a bachelor's degree, this certificate may lead to some entry-level public relations positions (e.g., assisting with event coordination or meeting planning, developing marketing tools and press releases, etc.) or related areas in marketing and sales.

PROGRAM OUTCOMES

Students who successfully complete the Public Relations Specialist Certificate will:

1. Apply ethical principles to communication tasks, including decision-making and the crafting of public messages
2. Practice systemic critical thinking processes related to communication issues, developing tactical strategies, and implementing creative solutions
3. Critically analyze and evaluate written, verbal, and nonverbal messages
4. Communicate effectively and appropriately with diverse and multicultural audiences using appropriate speaking, listening, and writing skills
5. Take responsibility for establishing collaborative work settings; conceptualize, organize, participate in and actualize teams in a creative, flexible, and collegial manner
6. Demonstrate an understanding of and act in the mediating role of the professional communicator within organizations, between organizations, and between the organization and the general public
7. Develop, maintain and nurture relationships in professional contexts
8. Project a professional and personable image (includes utilizing appropriate language, attire, nonverbal signals, technology, and document presentation)
9. Demonstrate a clear ability to interview, research, plan, secure resources for, initiate, complete and evaluate projects and events
10. Use information technology effectively and efficiently to conduct research and to create and deliver messages

CAREER CONSIDERATIONS

Opportunities in the communication field are growing at a faster-than-average rate. Students who earn four-year degrees in communication may choose to work in such fields as media or broadcasting, journalism, public relations, marketing, education, or business leadership, among others. Degrees can be earned in any of these specializations at four-year colleges and universities.

PROGRAM COURSE REQUIREMENTS

Year One

BA 101	Intro to Business	4
BA 238	Professional Selling	3
CIS 125H	Writing Web Pages	2
J 215	Journalism Production	2
J 251	Writing for the Media	3
MTH 105	Math in Society (or higher)	4
SP 105	Listening	3
SP 111	Fundamentals of Public Speaking	3
VC 130	Introduction to Photoshop	3
WR 121	Academic Composition**	4
Approved Elective***		3
BA 223	Principles of Marketing*	3
J 205	Intro to Public Relations	3
J 211	Intro to Mass Communications	3
SP 112	Persuasive Speech	3
Approved Elective***		3

Total Credits 50

* For BA223, students must pass BA101 with a C or better.

** For WR121, students must pass writing placement exam with at least a minimum score of 78 OR must pass WR115 with a C or better.

*** Two electives required from the list of Approved Electives on this page.

Approved Electives:

BA 165	Customer Service	3
BA 214	Business Communication	3
SP 218	Interpersonal Communication	3
SP 219	Small Group Discussion	3
WR 227	Technical Writing	4

* For WR 227, students must pass a WR 121 course or equivalent with C or better.

COMPUTER INFORMATION SYSTEMS

PROGRAM DESCRIPTION

The Computer Information Systems (CIS) program is a two-year sequence of classes designed to prepare students for employment in the computer area as an entry-level network administrator, computer support person, web designer, or computer programmer, while developing general problem-solving and troubleshooting skills that can be applied to networking, server, computer, web, and business programming environments. The CIS program has multiple educational and career pathways and includes the following degrees and certificates:

Pathway Certificate (12 credit minimum)

- Cisco Networking Security Support Technician
- Microsoft Networking Support Technician
- Server Administrator
- Junior Database Administrator
- Junior Web Developer
- Junior Programmer

One-Year Certificate (51 credit minimum)

- Computer Information Systems

AAS Degree (95 credit minimum)

- Computer Information Systems
- Cybersecurity

COMPUTER INFORMATION SYSTEMS

Cisco Networking Security Support Technician Pathway Certificate

PROGRAM DESCRIPTION

The Cisco Networking Security Support Technician is designed to prepare students with analyzing, designing, and implementing network systems, general problem-solving, and troubleshooting skills necessary to obtain entry-level work, or continue towards their AAS in Computer Information Systems.

PROGRAM OUTCOMES

Students who successfully complete the Certificate will:

1. Analyze, design, implement and support basic network systems such as Cisco routers and switches
2. Exhibit problem-solving and critical thinking skills in an individual and/or team environment

CAREER CONSIDERATIONS

Students completing the courses necessary to earn the Cisco Networking Security Support Technician certificate will possess the skills needed to analyze, design, implement, and support Cisco routers and switches in a small- to medium-sized standalone or domain-based environment; and exhibit problem-solving and critical thinking skills in an individual and/or team environment.

PROGRAM COURSE REQUIREMENTS

Year One

CIS 140M	Introduction to Microsoft Operating Systems	4
or CIS 140L	Introduction to Linux Operating System	4
CIS 151C	Networking Essentials	4
CIS 152C	Introduction to Basic Switching and Routers	4
CIS 240M	Installing and Configuring Microsoft Windows Server	4
CIS 285B	Advanced Network Device Security (CCNA Security)	4

Total Credits 20

COMPUTER INFORMATION SYSTEMS

Computer Information Systems Certificate

PROGRAM DESCRIPTION

The Computer Information Systems One-Year Certificate is designed to prepare students with network administration, computer support, web design, computer programming, general problem-solving, and troubleshooting skills necessary to obtain entry-level work, or continue towards their AAS in Computer Information Systems.

PROGRAM OUTCOMES

Students who successfully complete the one-year certificate will:

1. Develop problem-solving skills for working with software, hardware, and networks through programming logic and hands-on lab simulations
2. Use common Microsoft Office applications
3. Demonstrate practical experience with a variety of operating systems
4. Work with typical hardware configurations
5. Demonstrate the skills necessary for entry- or mid-level employment in the Computer Information Systems field

CAREER CONSIDERATIONS

This one-year certificate program prepares students for employment in entry-level information technology (IT) employment. The certificate builds skills in many areas critical to the success of employment in IT. Course emphasis is placed on current concepts of computer programming, server administration, database, Cisco networking, and general business-required education. Students should complete the classes in the order listed. If the classes do not fit within their personal schedule, please see a faculty advisor for help. The certificate entails 47-48 Credit Hours, depending on the accounting course selected by the student. The CIS One-Year Certificate is also a completion certificate. All courses in the certificate are found in the CIS AAS Degree.

PROGRAM COURSE REQUIREMENTS

Year One

CIS 111	Computer Systems Configuration	4
CIS 120	Introduction to Computer Information Systems	4
CIS 122	Orientation to Programming	4
CIS 133	Introduction to Programming I	4
CIS 140M	Introduction to Microsoft Operating Systems	4
or CIS 140L	Introduction to Linux Operating System	4
CIS 151C	Networking Essentials	4
CIS 233	Introduction to Programming II	4
CIS 240M	Installing & Configuring Microsoft Windows Server	4
CIS 275	Introduction to Database Management Systems I	4
CIS 279M	Microsoft Windows Server Administration I	4
MTH 095	Intermediate Algebra (or higher)	4
PSY 101	Psychology of Human Relations	3
WR 121	Academic Composition*	4

Total Credits 51

* A grade of C or better must be attained in the courses indicated.

COMPUTER INFORMATION SYSTEMS

Junior Database Administrator Pathway Certificate

PROGRAM DESCRIPTION

The Junior Database Administrator Pathway Certificate is designed to prepare students with database administration, database programming, general problem-solving, and troubleshooting skills necessary to obtain entry-level work, or continue towards their AAS in Computer Information Systems.

PROGRAM OUTCOMES

Students who successfully complete the Certificate will:

1. Demonstrate the skills necessary for entry-level jobs in database administration
2. Develop database programming and administration skills

CAREER CONSIDERATIONS

This Pathway Certificate is a short-term educational goal aimed towards specific areas in Computer Information Systems. This certificate will address the need for a logical pathway of success for students. A student will be able to earn the certification and then continue seamlessly on to the existing CIS program. Those who are already employed in the profession that want to upgrade their job skills in a specific area may also benefit from this certification. This certificate may lead to entry-level database programming and administrator jobs.

PROGRAM COURSE REQUIREMENTS

Year One

CIS 233	Introduction to Programming II	4
CIS 275	Introduction to Database Management Systems I	4
CIS 276	Introduction to Database Management Systems II	4

Total Credits 12

COMPUTER INFORMATION SYSTEMS

Junior Programmer Pathway Certificate

PROGRAM DESCRIPTION

The Junior Programmer Pathway Certificate is designed to prepare students with computer programming, general problem-solving, and troubleshooting skills necessary to obtain entry-level work, or continue towards their AAS in Computer Information Systems.

PROGRAM OUTCOMES

Students who successfully complete the Certificate will:

1. Demonstrate the skills necessary for entry-level jobs in computer programming
2. Develop programming skills

CAREER CONSIDERATIONS

This Pathway Certificate is a short-term educational goal aimed towards specific areas in Computer Information Systems. This certificate will address the need for a logical pathway of success for students. A student will be able to earn the certification and then continue seamlessly on to the existing CIS program. Those who are already employed in the profession that want to upgrade their job skills in a specific area may also benefit from this certification. This certificate may lead to entry-level programmer jobs.

PROGRAM COURSE REQUIREMENTS

Year One

CIS 240M	Installing and Configuring Microsoft Windows Server	4
CIS 279M	Microsoft Windows Server Administration I	4
CIS 288M	Microsoft Windows Server Administration II	4

Total Credits 12

COMPUTER INFORMATION SYSTEMS

Junior Web Developer Pathway Certificate

PROGRAM DESCRIPTION

The Junior Web Developer Pathway Certificate is designed to prepare students with web programming, web development, general problem-solving, and troubleshooting skills necessary to obtain entry-level work, or continue towards their AAS in Computer Information Systems.

PROGRAM OUTCOMES

- Students who successfully complete the Certificate will:
1. Demonstrate the skill necessary for entry-level jobs in web development
 2. Develop web development skills

CAREER CONSIDERATIONS

This Pathway Certificate is a short-term educational goal aimed towards specific areas in Computer Information Systems. This certificate will address the need for a logical pathway of success for students. A student will be able to earn the certification and then continue seamlessly on to the existing CIS program. Those who are already employed in the profession that want to upgrade their job skills in a specific area may also benefit from this certification. This certificate may lead to entry-level web developer jobs.

PROGRAM COURSE REQUIREMENTS

Year One

CIS195	Authoring for the World Wide Web I	4
CIS295	Authoring for the World Wide Web II	4
CIS275	Introduction to Database Management Systems I	4

Total Credits 12

COMPUTER INFORMATION SYSTEMS

Microsoft Networking Support Technician Pathway Certificate

PROGRAM DESCRIPTION

The Microsoft Networking Support Technician Pathway Certificate is designed to prepare students with analyzing, designing, implementing, and supporting Windows Server computer skills, general problem-solving, and troubleshooting skills necessary to obtain entry-level work, or continue towards their AAS in Computer Information Systems.

PROGRAM OUTCOMES

- Students who successfully complete the Certificate will:
1. Provide traditional technical support to users in a Microsoft desktop and server environment
 2. Exhibit problem-solving and critical-thinking skills in an individual and/or team environment

CAREER CONSIDERATIONS

Students completing the courses necessary to earn the Microsoft Networking Support Technician Support certificate will possess the skills needed to analyze, design, implement, and support computers running the Windows Server in a small- to medium-sized standalone or domain-based environment; and exhibit problem-solving and critical thinking skills in an individual and/or team environment.

PROGRAM COURSE REQUIREMENTS

Year One

CIS 140M	Introduction to Microsoft Operating Systems	4
CIS 240M	Installing and Configuring Microsoft Windows Server	4
CIS 279M	Microsoft Windows Server Administration I	4
CIS 284	Network Security Fundamentals	4

Total Credits 16

COMPUTER INFORMATION SYSTEMS

Server Administrator Pathway Certificate

PROGRAM DESCRIPTION

The Server Administrator Pathway Certificate is designed to prepare students with developing, updating, and administering Windows Server skills, general problem-solving, and troubleshooting skills necessary to obtain entry-level work, or continue towards their AAS in Computer Information Systems.

PROGRAM OUTCOMES

- Students who successfully complete the Certificate will:
1. Be prepared for entry- or mid-level employment in Microsoft Windows Server administration
 2. Develop new or upgrade existing server administration skills

CAREER CONSIDERATIONS

This Pathway Certificate is a short-term educational goal aimed towards specific areas in Computer Information Systems. This certificate will address the need for a logical pathway of success for students. A student will be able to earn the certification and then continue seamlessly on to existing CIS courses. Those who are already employed in the profession that want to upgrade their server administration skills may also benefit from this certificate. This certificate may also lead to employment in server administration.

PROGRAM COURSE REQUIREMENTS

Year One

CIS 240M	Installing and Configuring Microsoft Windows Server	4
CIS 279M	Microsoft Windows Server Administration I	4
CIS 288M	Microsoft Windows Server Administration II	4

Total Credits 12

COMPUTER INFORMATION SYSTEMS

Computer Information Systems Associate of Applied Science

PROGRAM DESCRIPTION

The Computer Information Systems (CIS) program is designed to prepare students for employment in the computer area as an entry-level network administrator, computer support person, web designer, or computer programmer, while developing general problem-solving and troubleshooting skills that can be applied to networking, server, computer, web, and business programming environments.

PROGRAM OUTCOMES

Students who successfully complete the Associate of Applied Science in Computer Information Systems will:

1. Develop problem-solving skills for working with software, hardware, and networks through programming logic and hands-on lab simulations
2. Use common Microsoft Office applications
3. Demonstrate practical experience with a variety of operating systems
4. Work with typical hardware configurations
5. Demonstrate the skills necessary for entry- or mid-level employment in the Computer Information Systems field

CAREER CONSIDERATIONS

This curriculum is designed to train students in a variety of modern Internet and business-oriented computer skills. Students will initially develop software and hardware problem-solving skills using programming logic and hands-on lab situations. Students will learn to efficiently use common office applications, receive practical experience with current mainstream operating systems (OS), and work with typical hardware configurations. Advanced databases (DBMS), Internet resource design (web pages & database use) project management, Microsoft Server management, Cisco Networking and networking security are focal areas in the second year. Students will also be trained in basic business procedures, accounting and communication skills. Several of the Computer Information System (CIS) program's classes map directly to leading industry certifications such as the Microsoft Certified Systems Administrator (MCSA) and the Cisco Certified Network Administrator (CCNA) credential. The CIS program is designed to prepare students for employment in (or for a job path leading to) any one of several career opportunities as listed by the Oregon Department of Labor. The Network and Computer Systems Administrators, Computer Support Specialist, Computer Operator, Computer and Information Systems Manager, Computer Programmer, Network Administrator, Network Systems and Communications Analyst, Internet Service Technician, and Database Administrator are among those targeted job paths or

job market careers. To qualify for the AAS degree a student must satisfactorily complete all required courses. If planning on entering other than fall term or desire to transfer to a four-year CIS degree program, consult with a CS/CIS faculty advisor as soon as possible.

PROGRAM COURSE REQUIREMENTS

Year One

CIS 111	Computer Systems Configuration	4
CIS 120	Introduction to Computer Information Systems	4
CIS 122	Orientation to Programming	4
CIS 133	Introduction to Programming I	4
CIS 140M	Introduction to Microsoft Operating Systems	4
or CIS 140L	Introduction to Linux Operating System	4
CIS 151C	Networking Essentials	4
CIS 233	Introduction to Programming II	4
CIS 240M	Installing & Configuring Microsoft Windows Server	4
CIS 275	Introduction to Database Management Systems I	4
CIS 279M	Microsoft Windows Server Administration I	4
MTH 095	Intermediate Algebra (or higher)	4
PSY 101	Psychology of Human Relations	3
WR 121	Academic Composition*	4

Year One Credits 51

Year Two

CIS125D	Computer Applications – Database Software	3
CIS125S	Computer Applications – Spreadsheets	3
CIS152C	Switching and Routers	4
CIS195	Authoring for the World Wide Web I	4
CIS245	Project Management	4
CIS276	Introduction to Data Management Systems II	4
CIS280	Cooperative Work Experience: CIS	2
CIS284	Network Security Fundamentals	4
CIS285B	Advanced Network Device Security (CCNA Security)	4
CIS288M	Microsoft Windows Server Administration II	4
CIS295	Authoring for the World Wide Web II	4
SP111	Fundamentals of Public Speaking	4

Year Two Credits 44

* A grade of C or better must be attained in the courses indicated.

COMPUTER INFORMATION SYSTEMS

Cybersecurity Associate of Applied Science

PROGRAM DESCRIPTION

The Computer Information Systems: Cybersecurity program is a two-year sequence of classes designed to prepare the student, via hands-on training, for employment in the computer area as an entry-level network administrator, computer support person, web designer, or computer programmer, while developing general problem-solving and troubleshooting skills that can be applied to networking, server, computer, web, and business programming environments. Further, this degree adds hands-on cybersecurity training in ethical hacking, computer hardware, computer forensics, cloud services, virtualization, switches, routers, and Adaptive Security Appliance (ASA) devices. At UCC, students will learn to program in a high-level programming language and to apply programming concepts in a variety of environments. Students will become proficient as a user and manager of server and desktop operating systems, switches, routers and ASAs. Students will also learn how to configure and modify the hardware components of server and desktop systems. In addition, the CIS program provides a strong foundation in basic business and project management principles and practices. Finally, the program develops verbal and written communication skills.

PROGRAM OUTCOMES

Students who successfully complete the Associate of Applied Science in Cybersecurity will:

1. Become proficient in a variety of modern internet and business-oriented computer skills
2. Develop software and hardware problem-solving skills using programming logic and hands-on lab situations
3. Learn to efficiently use common office applications, receive practical experience with a variety of operating systems, and work with typical hardware configurations
4. Demonstrate proficiency in information technology related to computer programming; device initiation, configuration, and management, project management, and webpage design
5. Employ common cybersecurity practices to eliminate or mitigate threats that originate

CAREER CONSIDERATIONS

The Computer Information Systems: Cybersecurity program is a two-year sequence of classes designed to prepare the student, via hands-on training, for employment in the computer area as an entry-level network administrator, computer support person, web designer, or computer programmer, while developing general problem-solving and troubleshooting skills that can be applied to networking, server, computer, web, and business programming environments. Further, this degree adds hands-on cybersecurity training in ethical hacking, computer hardware, computer forensics, cloud services, virtualization, switches, routers, and Adaptive Security Appliance (ASA) devices. At UCC, students will learn to program in a high-level programming language and to apply programming concepts in a variety of environments.

Students will become proficient as a user and manager of server and desktop operating systems, switches, routers and ASAs. Students will also learn how to configure and modify the hardware components of server and desktop systems. In addition, the CIS program provides a strong foundation in basic business and project management principles and practices. Finally, the program develops verbal and written communication skills.

PROGRAM COURSE REQUIREMENTS

Year One

CIS 111	Computer Systems Configuration	4
CIS 120	Introduction to Computer Information Systems	4
CIS 122	Orientation to Programming	4
CIS 133	Introduction to Programming I	4
CIS 140M	Introduction to Microsoft Operating Systems	4
or CIS 140L	Introduction to Linux Operating System	4
CIS 151C	Networking Essentials	4
CIS 233	Introduction to Programming II	4
CIS 240M	Installing & Configuring Microsoft Windows Server	4
CIS 275	Introduction to Database Management Systems I	4
CIS 279M	Microsoft Windows Server Administration I	4
MTH 095	Intermediate Algebra (or higher)	4
PSY 101	Psychology of Human Relations	3
WR 121	Academic Composition*	4

Year One Credits 51

Year Two

CIS 125S	Computer Applications – Spreadsheets	3
CIS 145	Computer Forensics for Ethical Hackers	4
CIS 152C	Switching and Routers	4
CIS 195	Authoring for the World Wide Web I	4
CIS 245	Project Management	4
CIS 276	Introduction to Data Management Systems II	4
CIS 280	Cooperative Work Experience: CIS	2
CIS 284	Network Security Fundamentals	4
CIS 285A	Ethical Hacking	4
CIS 285B	Advanced Network Device Security (CCNA Security)	4
CIS 285C	Cloud Services Technologies	3
CIS 286A	Virtualization Technologies	3
CIS 288M	Microsoft Windows Server Administration II	4
CIS 295	Authoring for the World Wide Web II	4
SP 111	Fundamentals of Public Speaking	4

Year Two Credits 55

* A grade of C or better must be attained in the courses indicated.

COMPUTER SCIENCE

University Specific AS-CS Degree

PROGRAM DESCRIPTION

Computer Science (CS) is the study of programs, data, computing machinery, and how these interact. The CS Associate of Science (AS) degree is designed for students planning to transfer credits to a baccalaureate degree program. The CS degree is computer science-focused, lower-division, general education requirements accepted by public universities in Oregon with electives tailored for requirements at each intended transfer institution.

PROGRAM OUTCOMES

Students who complete the Engineering Associate of Science will have the knowledge, skills, and abilities to:

1. Acquire new information and adapt to changes in the computer technology field
2. Apply a logical and systematic approach to solve problems
3. Use written, oral, and visual interpersonal skills to communicate with individuals or small groups
4. Design and implement computer software applications
5. Develop an application for an N-tiered environment
6. Evaluate and compare different algorithms applicable to a given task
7. Apply theoretical foundations learned when developing software
8. Use current database technologies to create and build database objects

CAREER CONSIDERATIONS

Computer science is a foundation that allows graduates to explore a wide range of career possibilities. Popular computer science careers include programming and software development, computer hardware innovation and development, testing mathematical algorithms, managing the technological infrastructure of an organization, and digital security.

NOTES:

Majors in computer science are offered at OSU, PSU, SOU, UO, and WOU in Oregon. Please be aware that the core CS curriculum and major options vary at the above-listed schools.

For students who are sure which university they will transfer to, please see following pages for the courses specific to a university. If the university a student is interested in transferring to is not listed, please consult with a UCC faculty advisor to customize an educational planner for the specific university.

Note that each CS core course must be completed with a grade of "C" or better. Many CS programs have competitive admission. Minimum GPA and grades will not generally be high enough to guarantee admission into any transfer institution.

COMPUTER SCIENCE

Computer Science

Associate of Science OSU Applied Option

PROGRAM COURSE REQUIREMENTS

Year One

CS 160	Orientation to Computer Science	4
CS 161	Computer Science I	4
CS 162	Computer Science II	4
CIS 275	Introduction to Database Management Systems I***	4
HPE 295	Wellness & Health Assessment	3
MTH 251	Calculus I	5
MTH 252	Calculus II	4
WR 121	Academic Composition*	4
WR 122	Argument, Research, and Multimodal Comp*	4
Arts & Letters Elective**		3
Biological Science with Lab		4
Social Sciences Elective**		3
Social Sciences Elective*		3

Year One Credits 49

Year Two

CIS 195	Authoring for the Web I	4
CS 260	Data Structures	4
CS 271	Computer Architecture & Assembly Language	4
CIS 295	Authoring for the Web II	4
MTH 231	Elements of Discrete Mathematics I	4
MTH 265	Statistics for Scientists and Engineers	4
SP 111	Fundamentals of Public Speaking	4
WR 227	Technical Writing*	4
Arts & Letters Elective**		3
Biological Science with Lab or Physical Science with Lab		4
Physical Science with Lab		5
Social Sciences Elective**		3

Year Two Credits 47-48

* A grade of C or better must be attained in the courses indicated.

** One Arts & Letters Elective or Social Sciences Elective must meet Cultural Literacy requirement.

*** Prerequisites of required courses

Many of these courses are offered only once each year at UCC (and are Prerequisites for subsequent courses), and students should meet with a UCC Faculty or Advisor to develop a customized educational planner prior to beginning the program. Consult with a UCC faculty advisor before beginning first term at UCC as a CS transfer major.

COMPUTER SCIENCE

Computer Science

Associate of Science OSU Systems Option

PROGRAM COURSE REQUIREMENTS

Year One

CS 160	Orientation to Computer Science	4
CS 161	Computer Science I	4
CS 162	Computer Science II	4
HPE 295	Wellness & Health Assessment	3
MTH 251	Calculus I	5
MTH 252	Calculus II	4
MTH 253	Calculus III	4
MTH 261	Linear Algebra	2
WR 121	Academic Composition*	4
WR 122	Argument, Research, and Multimodal Comp*	4
Arts & Letters Elective**		3
Biological Science with Lab		4
Social Sciences Elective**		3
Social Sciences Elective*		3

Year One Credits 51

Year Two

CIS 195	Authoring for the Web I	4
CIS 295	Authoring for the Web II	4
CS 260	Data Structures	4
ENGR 271	Digital Logic Design	3
ENGR 272	Digital Logic Design Lab	1
MTH 231	Elements of Discrete Mathematics I	4
MTH 254	Vector Calculus I	4
MTH 265	Statistics for Scientists and Engineers	4
PH 211	General Physics w/Calculus	5
PH 212	General Physics w/Calculus	5
PH 213	General Physics w/Calculus	5
SP 111	Fundamentals of Public Speaking	4
Arts & Letters Elective**		3

Year Two Credits 50

* A grade of C or better must be attained in the courses indicated.

** One Arts & Letters Elective or Social Sciences Elective must meet Cultural Literacy requirement.

Many of these courses are offered only once each year at UCC (and are Prerequisites for subsequent courses), and students should meet with a UCC Faculty or Advisor to develop a customized educational planner prior to beginning the program. Consult with a UCC faculty advisor before beginning the first term at UCC as a CS transfer major.

COMPUTER SCIENCE General ASOT-CS Degree

Computer Science Associate of Science Oregon Transfer

PROGRAM DESCRIPTION

Computer Science (CS) is the study of programs, data, computing machinery, and how these interact. The CS Associate of Science (AS) degree is designed for students planning to transfer credits to a baccalaureate degree program. The CS degree is computer science-focused, lower-division, general education requirements accepted by public universities in Oregon with electives tailored for requirements at each intended transfer institution.

PROGRAM OUTCOMES

Students who complete the Engineering Associate of Science will have the knowledge, skills, and abilities to:

1. Acquire new information and adapt to changes in the computer technology field
2. Apply a logical and systematic approach to solve problems
3. Use written, oral, and visual interpersonal skills to communicate with individuals or small groups
4. Design and implement computer software applications
5. Develop an application for an N-tiered environment
6. Evaluate and compare different algorithms applicable to a given task
7. Apply theoretical foundations learned when developing software
8. Use current database technologies to create and build database objects

CAREER CONSIDERATIONS

Computer science is a foundation that allows graduates to explore a wide range of career possibilities. Popular computer science careers include programming and software development, computer hardware innovation and development, testing mathematical algorithms, managing the technological infrastructure of an organization, and digital security.

PROGRAM COURSE REQUIREMENTS

Year One

CS 160	Orientation to Computer Science	4
CS 161	Computer Science I	4
CS 162	Computer Science II	4
CIS 275	Introduction to Database Management Systems I***	4
MTH 251	Calculus I	5
MTH 252	Calculus II	4
WR 121	Academic Composition*	4
WR 122 or WR 227	Argument, Research, and Multimodal Comp*	4
	Technical Writing*	4

Approved Elective	4
Arts & Letters Elective**	3
Social Sciences Elective**	3
Social Sciences Elective**	3

Year One Credits 46

Year Two

Arts & Letters Elective**	3	
Arts & Letters Elective**	3	
CIS 151C	Network Essentials***	4
CS 260	Data Structures	4
CS 271	Computer Architecture & Assembly Language***	4
HPE 295	Wellness & Health Assessment	3
PE 102 or higher	Physical Education*** Exclude PE199 or PE299	1-4
PH 211	General Physics w/Calculus	5
PH 212	General Physics w/Calculus	5
PH 213	General Physics w/Calculus	5
Social Sciences Elective**	3	
Social Sciences Elective**	3	
SP 111	Fundamentals of Public Speaking	4

Year Two Credits 47- 50

* A grade of C or better must be attained in the courses indicated.

** One Arts & Letters Elective or Social Sciences Elective must meet Cultural Literacy requirement.

*** Recommended Computer Science Elective

Many of these courses are offered only once each year at UCC (and are Prerequisites for subsequent courses), and students should meet with a UCC Faculty or Advisor to develop a customized educational planner prior to beginning the program. Consult with a UCC faculty advisor before beginning first term at UCC as a CS transfer major.

NOTES:

Majors in computer science are offered at OSU, PSU, SOU, UO, and WOU in Oregon. Please be aware that the core CS curriculum and major options vary at the above-listed schools.

Students who are unsure which university they will transfer to can start with the General ASOT-CS option. The ASOT-CS degree does not guarantee admission to Oregon universities, admission to a competitive computer science major, or junior standing in a major. Students should select a university early to ensure electives are tailored for requirements at the intended transfer institution.

Note that each CS core course must be completed with a grade of "C" or better. Many CS programs have competitive admission. Minimum GPA and grades will not generally be high enough to guarantee admission into any transfer institution.

COMPUTER SCIENCE, continued General ASOT-CS Degree

Computer Science Associate of Science Oregon Transfer

Approved Electives

CIS 125D	Computer Applications – Database	3
CIS 125S	Computer Applications – Spreadsheet Software	3
CIS 151C	Networking Essentials	4
CIS 195	Authoring for the Web I	4
CIS 240M	Installing & Configuring Microsoft Windows Server	4
CIS 275	Introduction to Database Management Systems I	4
CIS 276	Introduction to Database Management Systems II	4
CIS 295	Authoring for the Web II	4
CS 271	Computer Architecture & Assembly Language	4
ENGR 201	Electrical Fundamentals I	4
ENGR 271	Digital Logic Design	3
ENGR 272	Digital Logic Design Lab	1
MTH 112	Elementary Functions	4
MTH 231	Elements of Discrete Mathematics I	4
MTH 253	Calculus III	4
MTH 254	Vector Calculus I	4
MTH 261	Linear Algebra	2
PE 102	Physical Education or higher (exclude PE 199 or PE 299)	1-4
WR 122	Argument, Research, & Multimodal Composition	4
WR 227	Technical Writing	4

CRIMINAL JUSTICE

Juvenile Corrections One-Year Certificate

PROGRAM DESCRIPTION

The Juvenile Corrections one-year certificate program is specifically designed for individuals who want to work directly with juvenile offenders in various settings. These settings may include Oregon Youth Authority (OYA) as well as other public, private, and non-profit agencies/programs. As a statewide cooperative effort among several Oregon community colleges, this program is transferable among the participating schools. In addition, required courses may be applied to an AAS, AS or other 2-year degrees either as required, technical option, or elective courses.

PROGRAM OUTCOMES

Juvenile corrections workers provide supervision, facilitate in the treatment process and crisis intervention, provide social and life skills training, maintain records and documentation, engage in support services, monitor and ensure a secure environment. The occupational outlook for juvenile corrections workers is better than average. While the certificate prepares individuals for entry-level employment, advancement in salary and responsibility may require additional education. Agencies employing certificate holders are likely to have additional job specific requirements such as age, physical abilities, drug screening, and background history checks. Beginning wage for an OYA Youth Corrections Unit Coordinator is approximately \$2,800 per month; however, salary and benefit packages vary greatly depending upon the employing agency and geographical location.

CAREER CONSIDERATIONS

Juvenile corrections workers provide supervision, facilitate in the treatment process and crisis intervention, provide social and life skills training, maintain records and documentation, engage in support services, monitor and ensure a secure environment. The occupational outlook for juvenile corrections workers is better than average. While the certificate prepares individuals for entry-level employment, advancement in salary and responsibility may require additional education. Agencies employing certificate holders are likely to have additional job specific requirements such as age, physical abilities, drug screening, and background history checks.

PROGRAM COURSE REQUIREMENTS

Year One

CIS 120	Intro to Computer Information Systems	4
CJ 101	Intro to Criminology	3
CJ 230	Intro to Juvenile Justice Systems	3
CJ 232	Intro to Corrections Casework	3
CJ 280	Coop. Work Experience	2
CJ 280	Coop. Work Experience	2
HDFS 201	Individual & Family Development	3
HS 154	Community Resources	3
HS 227	Understanding Dysfunctional Families	3
MTH 052	Intro to Algebra for the Trades	4
PSY 201	General Psychology	3
SOC 206	Social Problems and Issues	3
SOC 207	Juvenile Delinquency	3
SOC 225	Social Aspects of Addiction	3
SP 218	Interpersonal Communication	3
WR 121	Academic Composition	4

Total Credits 49

CRIMINAL JUSTICE

Police Reserve Academy

PROGRAM DESCRIPTION

The Public Safety Department offers several programs related to a career in criminal justice. For students interested in becoming a law enforcement officer, the Police Reserve Academy provides a 320-hour program designed to train police reserve officers to enter a career in law enforcement. This nine-month Academy is instructed on Saturdays from 7:00 a.m. to 5:30 p.m. between early September and mid-May of each year.

Classes are taught by personnel from throughout the criminal justice system in Douglas County, and participating law enforcement agencies in Douglas County may select candidates for their Reserve Officer Program or full-time positions from the class at any time.

PROGRAM OUTCOMES

Students who successfully complete the Criminal Justice Police Reserve Academy will:

1. Communicate effectively in the criminal justice culture: verbally, no-verbally, and in writing.
2. Balance the unique responsibilities of criminal justice work with competing family and other personal needs.
3. Work effectively on both independent assignments and team efforts within the criminal justice system.
4. Exhibit a commanding presence that is appropriate to specific criminal justice situations.
5. Locate and interpret current case law and statutes, pertaining to specific criminal justice roles; take action that is supported by current law and statutes.
6. Recognize symptoms of mental health and substance abuse issues; take appropriate action.
7. Work effectively with persons of different cultural heritage, gender, and age.
8. Acquire an understanding of cultural norms and their impact on criminal justice interactions.
9. Discuss the relationship between the criminal justice system, cultural and other diversity, and police/community dynamics.
10. Demonstrate cognitive knowledge focusing on positive criminal justice professional/citizen contacts, with the principle emphasis on the importance of a continuing dialogue between the criminal justice system and all segments of the community.

PROGRAM COURSE REQUIREMENTS

Fall

CJ J00A	Law Enforcement Skills Training	2
CJ 105	Concepts of Criminal Law	3
CJ 110	Introduction to Law Enforcement	3

Winter

CJ J00B	Law Enforcement	2
CJ 120	Introduction to Judicial Processes	3
CJ 203	Crisis Intervention Seminar (PRA only)	1
CJ 212	Report Writing for Criminal Justice	3

Spring

CJ 100C	Law Enforcement Skills Training*	2
CJ 109	Contemporary Issues in Criminal Justice*	3
CJ 112	Field Operations and Patrol Procedures*	3

Total Credits 25

PROGRAM ENTRANCE REQUIREMENTS

Academic Entrance Requirement

- All program participants must meet all of the following criteria.
- Not have been convicted by any state or by the federal government of a crime; the punishment for which could have been imprisonment in a federal penitentiary or state prison.
 - Be a high school graduate or have passed the General Education Development test.
 - Possess a valid Oregon driver's license with an acceptable driving record.

PROGRAM AND COURSE FEES

Students are required to provide their own uniforms, equipment, and supplies.

CRIMINAL JUSTICE

Criminal Justice
Associate of Applied Science

PROGRAM DESCRIPTION

An Associate of Applied Science degree is awarded upon successful completion of the 90 credit hours. Criminal Justice related majors are offered at SOU (Criminology and Criminal Justice) PSU (Administration of Justice) and WOU (Corrections and Law Enforcement). Note: Students expecting to continue on to attain a B.A. or B.S. should consider the AA/OT or AS-Criminal Justice Program- see the transfer section for more details.

The Public Safety Department offers several programs related to a career in criminal justice.

PROGRAM OUTCOMES

Students who successfully complete an Associate of Applied Science degree in Criminal Justice will:

1. Communicate effectively in the criminal justice culture: verbally, non-verbally, and in writing
2. Balance the unique responsibilities of criminal justice work with competing family and other personal needs
3. Work effectively on both independent assignments and team efforts within the criminal justice system
4. Exhibit a commanding presence that is appropriate to specific criminal justice situations
5. Locate and interpret current case law and statutes pertaining to specific criminal justice roles; take action that is supported by current law and statutes
6. Recognize symptoms of mental health and substance abuse issues; take appropriate action
7. Work effectively with persons of different cultural heritage, gender, and age
8. Acquire an understanding of cultural norms and their impact on criminal justice interactions
9. Discuss the relationship between the criminal justice system, cultural and other diversity, and police/community dynamics
10. Demonstrate cognitive knowledge focusing on positive criminal justice professional/citizen contacts, with the principle emphasis on the importance of a continuing dialogue between the criminal justice system and all segments of the community

CAREER CONSIDERATIONS

The Criminal Justice program prepares students for entry level jobs and future careers in the following areas: law enforcement, corrections, and parole and probation.v

PROGRAM COURSE REQUIREMENTS

Year One

CJ 110	Intro to Law Enforcement	3
CJ 261	Intro to Parole & Probation	3
WR 121*	Academic Composition	4
Approved Elective		2-4
CJ 120	Intro to Judicial Process	3
PSY 101**	Psychology of Human Relations	3
or SP 218**	Interpersonal Communication	
SOC 204	Intro to Sociology	3
Two Approved Electives		6
CJ 101	Intro to Criminology	3
CJ 114	Cultural Diversity Issues in LE	3
CJ 130	Intro to Corrections	3
WR 227	Technical Writing	4
Approved Elective		3

Year Two

CJ 105	Concepts of Criminal Law	3
CJ 203	Crisis Intervention	1
MTH 052	Industrial Applications of Math	4
PSY 201	General Psychology	3
PS 203	US Government	3
SP 111	fundamentals of Public Speaking	4
Approved Elective		3
Approved Elective		3
Approved Elective		4
Approved Elective		3
Approved Elective		3
Social Sciences Elective		3
Social Sciences Elective		3
Social Sciences Elective		3

Total Credits 90

Approved Electives

CIS 120	Intro to Computer Information Systems ¹	4
CJ 100A	Law Enforcement Skills Training ^{2,5}	2
CJ 100B	Law Enforcement Skills Training ⁵	2
CJ 100C	Law Enforcement Skills Training ⁵	2
CJ 105	Concepts of Criminal Law	3
CJ 109	Contemporary Issues in Criminal Justice	3
CJ 112	Field Operations and Patrol Procedures ⁵	3

CRIMINAL JUSTICE, continued

Criminal Justice
Associate of Applied Science

CJ 140	Introduction to Criminalistics	3
CJ 169	Terrorism & Homeland Security	3
CJ 210	Criminal Investigations	3
CJ 211	Ethics in Criminal Justice	3
CJ 212	Report Writing for Criminal Justice ⁵	3
CJ 216	Law Enforcement Supervision and Management	3
CJ 226	Intro to Constitutional Law	3
CJ 230	Intro to Juvenile Justice Systems	3
CJ 232	Intro to Corrections Casework	3
CJ 240	Criminalistics II	3
CJ 243	Narcotics and Dangerous Drugs	3
CJ 275	Comparative Criminal Justice Systems	3
CJ 280	Cooperative Work Experience: Criminal Justice/Corrections ²	1-4
CJ 280	Cooperative Work Experience: Criminal Justice/Corrections ²	1-4
CJ 280	Cooperative Work Experience: Criminal Justice/Corrections ²	1-4
CJ 280	Cooperative Work Experience: Criminal Justice/Corrections ²	1-4
CJ 298	Criminal Justice Independent Study ²	1-3
CJ 298	Criminal Justice Independent Study ²	1-3
CJ 298	Criminal Justice Independent Study ²	1-3
CJ 298	Criminal Justice Independent Study ²	1-3
HS 227	Understanding Dysfunctional Families ^{1,3}	3
SOC 207	Juvenile Delinquency	3
SOC 225	Social Aspects of Addiction	3
SPAN 122***	Spanish for Safety & Emergency Personnel	4

* A grade of C or better must be attained in these courses

** Meets Human Relations class requirement

*** seldom offered

⁺ Any unlisted CJ classes may be applied as approved electives.

¹ Available in another term

² Three (3) credits of CJ 298 or four (4) credits of CJ 280 can be applied to AAS degree.

³ Prerequisite: CJ 230 or CJ 261 or Instructor Approval

⁴ Prerequisite: CJ 140 or instructor approval.

⁵ PRA Police Reserve Academy only

DENTAL ASSISTING

Dental Assisting One-Year Certificate

PROGRAM DESCRIPTION

This one-year certificate program prepares graduates for employment in the dental setting with emphasis on current concepts of clinical chairside assisting. A dental assistant may serve as a clinical chairside assistant, receptionist, bookkeeper, office manager or laboratory technician.

For entry into Dental Assisting program, Orientation Seminar is required. Seminar will include information about the program, and paperwork that will need to be completed prior to attending classes. Questions and concerns will also be discussed.

PROGRAM OUTCOMES

UCC's Dental Assisting program is accredited by the Commission of Dental Accreditation, in association with the US Department of Education and the Dental Assisting National Board. The one-year certificate program is designed to prepare graduates for an exciting career in the dental profession. The program prepares the assistant for licensing exams including the Radiation Health and Safety Exam and the Certified Dental Assistant exam. After completion of the program and upon receipt of the Radiology Proficiency Certificate students will be eligible to receive their EFDA and EFODA certifications.

Students who successfully complete the Dental Assisting certificate will:

1. Demonstrate knowledge and skills required to perform a variety of chairside skills during comprehensive patient care and treatment
2. Apply infection control procedures
3. Recognize and respond to medical emergencies in the dental setting
4. Practice appropriate communication skills to establish professional working relationships in a team-centered dental office environment
5. Demonstrate safe working habits with the knowledge in Occupational Safety and Health Administration Hazard Communication Standard
6. Demonstrate ethical conduct, moral attitudes and principles essential for maintaining trust of professional associates, the support of the community, and the confidence of the patient.
7. Be prepared to sit for the required state and national licensure exams.

PROGRAM COURSE REQUIREMENTS

Students are eligible to be considered for admission to the Dental Assisting program after completing the Required Prerequisite Courses listed below. These courses must be completed with a grade of C or better prior to beginning the Dental Assisting program.

Required Prerequisite Courses

CIS 120	Intro to computer Information Systems	4
MTH 060	Introduction to Algebra or higher	4
PSY 101	Psychology of Human Relations	3
WR 115 (or higher)	English Composition: Intro to Expository Writing	4

Required Prerequisite Credits 15

Year One

Required Prerequisite Courses

DA 102	Advanced Clinical Experiences	4
DA 103	Dentistry Law & Ethics	1
DA 107	Dental Health Education I	1
DA 108	Dental Health Education II	1
DA 110	Health Sciences	3
DA 111	Dental terminology	2
DA 115	Dental Anatomy	3
DA 135	Oral Pathology	2
DA 139	Medical Emergencies in the Dental Office	2
DA 192	Dental Materials I	3
DA 195	Chairside Procedures I	4
DA 196	Chairside Procedures II	4
DA 198	Dental Materials II	2
DA 199	Dental Office Procedures	3
DA 210	Dental Radiology I	4
DA 211	Dental Radiology II	3
DA 280	Coop. Work Experience: Dental Assisting	1
DA 280	Coop. Work Experience: Dental Assisting	9

Total Credits 67

DENTAL ASSISTING, continued

Dental Assisting One-Year Certificate

PROGRAM ENTRANCE REQUIREMENTS

Academic Entrance Requirement

Program admission occurs once a year in fall term. The application process begins in January of each calendar year.

Drug Screening

All dental students must successfully pass a drug screening test at the time of admission into the Dental Program and are subject to random drug screening throughout the program. Failure to submit to a random drug screen or having a positive drug screen will result in sanctions per the UCC Student Code of Conduct (721.3). The cost is not covered by the student fees.

Background Check

All accepted dental assisting students will be required to undergo a background check prior to entering the program. Individuals with a criminal record may not be allowed into a healthcare facility as a student. Information pertaining to background checks and disqualifying crimes can be found online through The Department of Human Services (DHS) website <http://www.oregon.gov/dhs/business-services/chc/Pages/index.aspx>

The program is required to deny admission or continuation in the Dental Assisting program to any student whose background poses a threat to an individual, the college, or the dental professional, or the community.

Graduation Requirements

Students must complete all courses on this advising guide with a grade of C or better to continue in and complete the program, receive their certificates, and meet the educational requirements to apply to take the national licensure exams through DANB (Dental Assisting National Board).

PROGRAM AND COURSE FEES

Packet information will be turned in prior to starting classes.

This includes:

1. Physical
2. Vaccination records, including updates
3. Background history check
4. Drug screening
5. Current HealthOcc CPR with AED

*The cost to student is not included in program fees.

EARLY CHILDHOOD EDUCATION

EARLY CHILDHOOD EDUCATION

One-Year Certificate

PROGRAM DESCRIPTION

The Early Childhood Education program is designed to prepare students for employment in early childhood education environments. Course work and practical work experience emphasize knowledge of normal growth and development of young children, guidance skills, and the planning and directing of activities for children which foster positive intellectual, social, emotional and physical development. Many of the courses are also excellent for parents or others who work with young children.

PROGRAM OUTCOMES

Students who successfully complete the Associate of Applied Science degree in Early Childhood Development will be able to:

1. Create healthy, respectful, supportive and challenging learning environments for young children based on knowledge of child development
2. Create respectful, reciprocal relationships that support and empower families and involve all families in their student's development and learning
3. Develop and use effective and responsible assessment including observation, documentation and other appropriate tools in partnership with families and professional colleagues to promote positive outcomes for each child
4. Use a whole array of developmentally appropriate approaches, instructional strategies, and tools to connect with children and families and positively influence each child's development and learning
5. Design, implement and evaluate meaningful, challenging curriculum that promotes comprehensive developmental and learning outcomes for every young child
6. Demonstrate behavior reflective of ethical guidelines and professional practices associated with early childhood careers

CAREER CONSIDERATIONS

Early Childhood Education program prepares students for entry level jobs and future careers in the following areas: Child Care Assistants and teachers; nanny and private kindergartens.

PROGRAM COURSE REQUIREMENTS

Year One

ECE 101	Seminar/Practicum I	4
ECE 102	Seminar/Practicum II	4
ECE 103	Seminar/Practicum III	4
ECE 140	Intro to ECE	2
ECE 150	Creative Activities	3
ECE 178	Observing and Guiding Behavior	3
ED 154	Lit and Lang for Children	3
FN 230	Personal Nutrition	3
HDFS 225	Child Development	3
HDFS 226	Infant/Todd Development	3
HDFS 228	The Exceptional Child	3
HDFS 240	Cont. American Families	3
PSY 130	Understanding Child Behavior	2
MTH 60	Intro to Algebra (or higher)	4
WR 121	Academic Composition	4

Total Credits 48

PROGRAM ENTRANCE REQUIREMENTS

Academic Entrance Requirement

- Enrollment in Oregon Central Background Registry
- Verification of MMR vaccinations
- Food Handler's Certificate

EARLY CHILDHOOD EDUCATION

Infant Toddler Certificate

PROGRAM DESCRIPTION

The Early Childhood Education program is designed to prepare students for employment in early childhood education environments. Course work and practical work experience emphasize knowledge of normal growth and development of young children, guidance skills, and the planning and directing of activities for children which foster positive intellectual, social, emotional and physical development. Many of the courses are also excellent for parents or others who work with young children.

PROGRAM OUTCOMES

Students who successfully complete the Associate of Applied Science degree in Early Childhood Development will be able to:

1. Create healthy, respectful, supportive and challenging learning environments for young children based on knowledge of child development
2. Create respectful, reciprocal relationships that support and empower families and involve all families in their student's development and learning
3. Develop and use effective and responsible assessment including observation, documentation and other appropriate tools in partnership with families and professional colleagues to promote positive outcomes for each child
4. Use a whole array of developmentally appropriate approaches, instructional strategies, and tools to connect with children and families and positively influence each child's development and learning
5. Design, implement and evaluate meaningful, challenging curriculum that promotes comprehensive developmental and learning outcomes for every young child
6. Demonstrate behavior reflective of ethical guidelines and professional practices associated with early childhood careers

CAREER CONSIDERATIONS

The Early Childhood Education program Infant/Toddler certificate prepares students for entry level jobs and future careers in the following areas: Child Care Assistants, nanny. The State of Oregon requires individuals working in a licensed child care facility to have at least 14 college credits of Early Childhood Education.

PROGRAM COURSE REQUIREMENTS

Year One

ECE 101	Seminar/Practicum I	4
ECE 102	Seminar/Practicum II	4
ECE 178	Observing and Guiding Behavior	3
ED 154	Lit and Lang for Children	3
HDFS 226	Infant/Todd Development	3
HDFS 240	Cont. American Families	3

Total Credits 20

PROGRAM ENTRANCE REQUIREMENTS

Academic Entrance Requirement

- Enrollment in Oregon Central Background Registry
- Verification of MMR vaccinations
- Food Handler's Certificate

EARLY CHILDHOOD EDUCATION

Preschool Certificate

PROGRAM DESCRIPTION

The Early Childhood Education program is designed to prepare students for employment in early childhood education environments. Course work and practical work experience emphasize knowledge of normal growth and development of young children, guidance skills, and the planning and directing of activities for children which foster positive intellectual, social, emotional and physical development. Many of the courses are also excellent for parents or others who work with young children.

PROGRAM OUTCOMES

Students who successfully complete the Associate of Applied Science degree in Early Childhood Development will be able to:

1. Create healthy, respectful, supportive and challenging learning environments for young children based on knowledge of child development
2. Create respectful, reciprocal relationships that support and empower families and involve all families in their student's development and learning
3. Develop and use effective and responsible assessment including observation, documentation and other appropriate tools in partnership with families and professional colleagues to promote positive outcomes for each child
4. Use a whole array of developmentally appropriate approaches, instructional strategies, and tools to connect with children and families and positively influence each child's development and learning
5. Design, implement and evaluate meaningful, challenging curriculum that promotes comprehensive developmental and learning outcomes for every young child
6. Demonstrate behavior reflective of ethical guidelines and professional practices associated with early childhood careers

CAREER CONSIDERATIONS

The Early Childhood Education program pre-school certificate prepares students for entry level jobs and future careers in the following areas: Child Care Assistants, Pre-School Assistants; nanny.

PROGRAM COURSE REQUIREMENTS

Year One

ECE 101	Seminar/Practicum I	4
ECE 102	Seminar/Practicum II	4
ECE 178	Observing and Guiding Behavior	3
ECE 244	Individ Learn for PreSchoolers	3
ED 154	Lit and Lang for Children	3
HDFS 225	Child Development	3
HDFS 240	Cont. American Families	3

Total Credits 23

PROGRAM ENTRANCE REQUIREMENTS

Academic Entrance Requirement

- Enrollment in Oregon Central Background Registry
- Verification of MMR vaccinations
- Food Handler's Certificate

EARLY CHILDHOOD EDUCATION

EARLY CHILDHOOD DEVELOPMENT

Associate of Science

PROGRAM DESCRIPTION

The Early Childhood Development program is designed to prepare students for employment in early childhood education environments with transfer options to colleges and universities offering Bachelor's degrees in Early Childhood Education. The UCC AS degree articulates directly to the Southern Oregon University Bachelor's Degree.

PROGRAM OUTCOMES

Students who successfully complete the Associate of Science degree in Early Childhood Development will be able to:

1. Create healthy, respectful, supportive and challenging learning environments for young children based on knowledge of child development
2. Create respectful, reciprocal relationships that support and empower families and involve all families in their student's development and learning
3. Develop and use effective and responsible assessment including observation, documentation and other appropriate tools in partnership with families and professional colleagues to promote positive outcomes for each child
4. Use a whole array of developmentally appropriate approaches, instructional strategies, and tools to connect with children and families and positively influence each child's development and learning
5. Design, implement and evaluate meaningful, challenging curriculum that promotes comprehensive developmental and learning outcomes for every young child
6. Demonstrate behavior reflective of ethical guidelines and professional practices associated with early childhood careers

CAREER CONSIDERATIONS

The Early Childhood Development program prepares students for entry level jobs and future careers in the following areas: Day Care assistants and teachers and Pre-School Assistants and teachers.

PROGRAM COURSE REQUIREMENTS

Year One

ECE 101	Seminar/Practicum I	4
ECE 102	Seminar/Practicum II	4
ECE 103	Seminar/Practicum III	4
ECE 140	Intro to ECE	2
ECE 150	Creative Activities	3
ECE 240	Lesson and Curriculum Planning	3
ED 154	Lit and Lang for Children	3
HDFS 225	Child Development	3
HDFS 226	Infant/Todd Development	3
WR 121	Academic Composition	4
WR 122	Argument, Research, and Multimodal Comp	4
Other General Education Requirements for University Transfer		12-16

Year Two

ECE 104	Seminar/Practicum IV	4
ECE 105	Seminar/Practicum V	4
ECE 106	Seminar/Practicum VI	4
ECE 178	Observing and Guiding Behavior	3
ECE 244	Individual Learning/PreSchool	3
ECE 247	Admin of Childcare Centers	4
HDFS 240	Cont. American Families	3
HDFS 228	The Exceptional Child	3
MTH 211	Fund of Elem Math I	4
MTH 212	Fund of Elem Math II	4
Other General Education Requirements for University Transfer		18-24

Total Credits 104

PROGRAM ENTRANCE REQUIREMENTS

Academic Entrance Requirement

- Enrollment in Oregon Central Background Registry
- Verification of MMR vaccinations
- Food Handler's Certificate

Contact the intended university of transfer to determine appropriate general education requirements for transfer. The UCC Associates Degree is designed to transfer seamlessly to Southern Oregon University.

EARLY CHILDHOOD EDUCATION

EARLY CHILDHOOD DEVELOPMENT

Associate of Applied Science

PROGRAM DESCRIPTION

The Early Childhood Education program is designed to prepare students for employment in early childhood education environments. Course work and practical work experience emphasize knowledge of normal growth and development of young children, guidance skills, and the planning and directing of activities for children which foster positive intellectual, social, emotional and physical development. Many of the courses are also excellent for parents or others who work with young children.

PROGRAM OUTCOMES

- Students who successfully complete the Associate of Applied Science degree in Early Childhood Development will be able to:
1. Create healthy, respectful, supportive and challenging learning environments for young children based on knowledge of child development
 2. Create respectful, reciprocal relationships that support and empower families and involve all families in their student's development and learning
 3. Develop and use effective and responsible assessment including observation, documentation and other appropriate tools in partnership with families and professional colleagues to promote positive outcomes for each child
 4. Use a whole array of developmentally appropriate approaches, instructional strategies, and tools to connect with children and families and positively influence each child's development and learning
 5. Design, implement and evaluate meaningful, challenging curriculum that promotes comprehensive developmental and learning outcomes for every young child
 6. Demonstrate behavior reflective of ethical guidelines and professional practices associated with early childhood careers

CAREER CONSIDERATIONS

The Early Childhood Education program prepares students for entry level jobs and future careers in the following areas: Child Care assistants and teachers and Pre-School Assistants and teachers; nanny and private kindergartens.

PROGRAM COURSE REQUIREMENTS

Year One

ECE 101	Seminar/Practicum I	4
ECE 102	Seminar/Practicum II	4
ECE 103	Seminar/Practicum III	4
ECE 140	Intro to ECE	2
ECE 150	Creative Activities	3
ECE 178	Observing and Guiding Behavior	3
ECE 240	Lesson and Curriculum Planning	3
ED 154	Lit and Lang for Children	3
HDFS 225	Child Development	3
HDFS 226	Infant/Todd Development	3
PSY 101	Psychology of Human Relations	3
PSY 130	Understanding Child Behavior	2
WR 121	Academic Composition	4
Electives		6

Year Two

ECE 104	Seminar/Practicum IV	4
ECE 105	Seminar/Practicum V	4
ECE 106	Seminar/Practicum VI	4
ECE 244	Individual Learning/PreSchool	3
ECE 247	Admin of Childcare Centers	4
ED 258	Multicultural Education	3
FN 230	Personal Nutrition	3
HDFS 228	The Exceptional Child	3
HDFS 240	Cont. American Families	3
HPE 295	Wellness and Health	3
MTH 60	Intro to Algebra (0r higher)	4
MUS XXX		3
SOC 205	Institutions of Social Change	3
Electives		3

Total Credits 93

PROGRAM ENTRANCE REQUIREMENTS

Academic Entrance Requirement

- Enrollment in Oregon Central Background Registry
- Verification of MMR vaccinations
- Food Handler's Certificate

EMERGENCY MEDICAL SERVICES

Emergency Medical Services

Pathway Certificate

PROGRAM DESCRIPTION

The EMS Program strives to prepare competent, entry level EMT's and Paramedics with cognitive, psychomotor, and affective learning domains. Our program is committed to providing high quality initial and prehospital continuing education. We offer quality resources, effective teaching practices, and use advanced technology. We advocate respect, sound judgment, compassion, integrity, and teamwork as a foundation for customer service oriented patient care. We strive to instill these qualities in our students.

Emergency Medical Technicians (EMT) respond to emergency and non-emergency calls to provide efficient and appropriate care to the sick and injured. EMT's can provide care within their scope of practice under the direction of a medical director. EMT's work on ambulances, fire departments, emergency rooms, urgent cares, and jails.

The Umpqua Community College is accredited by the Commission on Accreditation of Allied Health Education Programs (www.caahep.org) upon the recommendation of the Committee on Accreditation of Educational Programs for the Emergency Medical Services Professions (CoAEMSP).

To contact CAAHEP:
Commission on Accreditation of Allied Health Education Programs
1361 Park Street
Clearwater, FL 33756
727-210-2350
www.caahep.org

To contact CoAEMSP:
8301 Lakeview Parkway, Suite 111-312
Rowlett TX 75088
(214) 703-8445
FAX (214) 703-8992
www.coaemsp.org

PROGRAM OUTCOMES

Students who successfully complete the Emergency Medical Services Pathway Certificate will:

1. Identify roles and responsibilities in performing emergency care an operational aspects of the job
2. Demonstrate skills for basic life saving techniques and other emergency treatment
3. Demonstrate the proper use and care of all required equipment
4. Consistently demonstrate professional behavior characteristics

PROGRAM COURSE REQUIREMENTS

Year One

EMS 151	EMT Part 1	5
EMS 152	EMT Part 2	5
ES 101	Principles of Emergency Services	3

Total Credits 13

Grade of C or better must be attained in all courses or courses must be retaken.

PROGRAM ENTRANCE REQUIREMENTS

Academic Entrance Requirement

- Must have documented results of immunizations
- Must successfully complete a fit for duty, physical agility test, and drug screen
- Must pass a background check
- Must be a minimum of 18 years of age
- Minimal requirement: Computer with broadband internet connectivity; Windows 7 or newer OR MACOS 10.6 or newer. Video viewing and Zoom conferencing may be held at the discretion of the faculty

EMERGENCY MEDICAL SERVICES

Paramedicine

Associate of Applied Science

PROGRAM DESCRIPTION

The EMS Program strives to prepare competent, entry level EMT's and Paramedics with cognitive, psychomotor, and affective learning domains. Our program is committed to providing high quality initial and prehospital continuing education. We offer quality resources, effective teaching practices, and use advanced technology. We advocate respect, sound judgment, compassion, integrity, and teamwork as a foundation for customer service oriented patient care. We strive to instill these qualities in our students.

The Umpqua Community College is accredited by the Commission on Accreditation of Allied Health Education Programs (www.caahep.org) upon the recommendation of the Committee on Accreditation of Educational Programs for the Emergency Medical Services Professions (CoAEMSP).

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FAX (214) 703-8992
www.coaemsp.org

PROGRAM OUTCOMES

Students who successfully complete the Associate of Applied Science degree in Paramedicine will:

1. Demonstrate the knowledge relevant to his or her role as an EMT or Paramedic
2. Demonstrate the psychomotor skills necessary to function in the role of EMT or Paramedic
3. Demonstrate the attitudes and personal behaviors consistent with the profession and necessary to function in the role of an EMT or Paramedic

CAREER CONSIDERATIONS

The EMS Paramedicine program prepares students for entry level jobs and future careers in the following areas: ambulance companies, fire departments, clinics, and various other industries requiring emergency medical services personnel.

PROGRAM COURSE REQUIREMENTS

Year One

BI 231, 232, 233	Anatomy & Physiology	12
EMS 151	EMT Part 1	5
EMS 152	EMT Part 2	5
EMS 170	Emergency Communications	2
EMS 171	Emergency Transport	2
EMS 180	Crisis Intervention	3
ES 101	Principles of Emergency Services	3
HPE 295	Health & Wellness	3
MED 111	Medical Terminology	3
MTH 95	Intermediate Algebra	4
SP 111	Fund Public Speaking	4
WR121	Academic Composition	4

Year Two

EMS 251	Paramedic Part 1	10
EMS 252	Paramedic Part 2	8
EMS 253	Paramedic Part 3	8
EMS 254	Paramedic Part 4	6
EMS 261	Paramedic Clinical Part 1	2
EMS 262	Paramedic Clinical Part 2	2
EMS 263	Paramedic Field Internship	4
ES 113	Emergency Services Rescue	3
PSY 101	Psych of Human Relations	3
*Approved Electives		3

*Please see an academic advisor or the program website to view the required sequencing of courses.

Grade of C or better must be attained in all courses or courses must be retaken.

Total Credits (minimum) 99

PROGRAM ENTRANCE REQUIREMENTS

Academic Entrance Requirement

- Must have documented results of immunizations
- Must successfully complete a fit for duty, physical agility test, and drug screen
- Must pass a background check
- Minimal requirement: Computer with broadband internet connectivity; Windows 7 or newer OR MACOS 10.6 or newer. Video viewing and Zoom conferencing may be held at the discretion of the faculty.

ENGINEERING

PROGRAM DESCRIPTION

The Engineering Program includes two tracks: 1) Engineering Transfer and 2) Engineering Technology. The focus of the Engineering Technology track is to be job ready after graduation, although there are options for transfer after a third year at UCC. The transfer track closely follows the first two years of study for engineering programs at most universities in Oregon. The Engineering program has multiple educational and career pathways, and includes the following degrees and certificates.

Pathway Certificate (12 credit minimum)

- Drafting
- GIS
- Surveying
- Water Quality

Completion Certificate (45 credit minimum)

Engineering & Drafting Technician

AAS Degree (90 credit minimum)

- Civil & Surveying Technology
- Applied Surveying Option, Civil & Surveying Technology
- Applied Water Quality Option, Civil & Surveying Technology

ENGINEERING

Drafting

Pathway Certificate

PROGRAM DESCRIPTION

The Drafting Pathway Certificate provides training for entry-level careers in Computer-Assisted Drafting (CAD). All courses in the certificate are found in the Civil Engineering & Surveying Technology, AAS degree.

PROGRAM OUTCOMES

Students who successfully complete the Pathway Certificate in Drafting will:

1. Be prepared for entry-level jobs in the area drafting
2. Gain new computer applications and skills

CAREER CONSIDERATIONS

The Drafting Pathway Certificate prepares students for entry level jobs in CAD and focuses on introductory drafting skills for architectural, civil, mechanical, and manufacturing design and construction.

PROGRAM COURSE REQUIREMENTS

Year One

DRF 112	Computer Aided Drafting (CAD) I	3
DRF 113	Computer Aided Drafting (CAD) II	3
ENGR 245	Engineering Graphics - SolidWorks	3
Approved Elective*		3-4

Total Credits (minimum) 12

* Approved Electives (Select one of following):

CIV 214	Virtual Design - CAD - Civil3D	3
CIV 280	Cooperative Work Experience	3
DRF 116	Structural Drafting	3
GIS 234	GIS I: Intro to GIS	4
VC 114	Intro to InDesign	3
WLD 140	Blueprint Reading & Sketching	3

ENGINEERING

Geographic Information Systems Pathway Certificate

PROGRAM DESCRIPTION

The Geographic Information Systems (GIS) Pathway Certificate provides GIS training in support of student's career and education goals in: science, business, engineering, surveying, and resource management, public safety, and urban and regional planning. The GIS courses transfer to many Oregon universities and support students and working professionals as they update their technical skills. The GIS classes in the certificate are found in the Civil Engineering & Surveying Technology, AAS degree and the AS degree with emphasis in Surveying and Geomatics.

PROGRAM OUTCOMES

Students who successfully complete the Pathway Certificate in GIS will:

1. Collect and input data into a GIS system using: GPS unit, digitizing, geocoding Gain new computer applications and skills
2. Design and generate various cartographic/map products for planning or presentations
3. Create, manage, and update spatial data
4. Manage information in a GIS database
5. Perform routine data analysis-buffer, query, union, intersect

CAREER CONSIDERATIONS

Geographic Information Systems (GIS) technology is utilized by virtually all public agencies and private companies involved in managing resources and assets. The GIS Pathway Certificate provides technical skills in support of multiple career and educational pathways.

PROGRAM COURSE REQUIREMENTS

Year One

GIS 203	Digital World & Geospatial Concepts	4
GIS 234	GIS: Intro to Geographic Systems	4
GIS 235	GIS II: Analysis and Applications	4

Total Credits 12

ENGINEERING

Surveying Pathway Certificate

PROGRAM DESCRIPTION

The purpose of the Surveying Pathway Certificate is to provide training in basic surveying skills for entry level positions on surveying field crews and/or to support architectural design, civil design and construction. The surveying classes in the certificate are found in the Civil Engineering & Surveying Technology, AAS degree and the AS degree with emphasis in Surveying and Geomatics.

PROGRAM OUTCOMES

Students who successfully complete the Pathway Certificate in Surveying will:

1. Be prepared for entry-level jobs on a survey field crew
2. Develop new surveying and drafting skills

CAREER CONSIDERATIONS

Surveying skills are in high demand as technology advances, the economy is expanding which drives demand for new development, and many experienced surveyors are reaching retirement age.

PROGRAM COURSE REQUIREMENTS

Year One

SUR 161	Surveying I	4
SUR 162	Plane Surveying II	4
SUR 163	Route Surveying	4
SUR 242	Land Description and Cadastre	3
MTH 112	Elementary Functiona	4

Total Credits 19

ENGINEERING

Water Quality Technician Pathway Certificate

PROGRAM DESCRIPTION

The Water Quality Pathway Certificate provides introductory coursework for entry level positions as water and wastewater operators, and to prepare for taking the Level I certification exam. The water quality technology classes in the certificate are found in the Civil Engineering & Surveying Technology, AAS degree.

PROGRAM OUTCOMES

Students who successfully complete the Pathway Certificate in Water Quality will:

1. Be prepared for entry-level jobs in water quality operations
2. Develop new surveying and drafting skills

CAREER CONSIDERATIONS

All community water and wastewater systems must be operated under the supervision of certified operators. There is a desirable career with low turnover. Many experienced operators are reaching retirement age.

PROGRAM COURSE REQUIREMENTS

Year One

Program Requirements

WQT 227	Wastewater Treatment	3
WQT 228	Plane Surveying II	4
WQT 260	Water Treatment	3
WQT 261	Water Distribution	3

Total Credits 13

ENGINEERING

Engineering & Drafting Technician Pathway Certificate

PROGRAM DESCRIPTION

The one-year certificate prepares graduates for entry-level positions as engineering or drafting technicians. All courses in the certificate are found in the Civil Engineering & Surveying Technology, AAS degree.

PROGRAM OUTCOMES

Students who successfully complete the Completion Certificate as an Engineering & Drafting Technician will:

1. Use AutoCAD, Civil3D, and SolidWorks CAD software, and ArcGIS software.
2. Interpret and prepare 2D and 3D drafting representation
3. Prepare and plot drawings to scale using drafting standards, templates, and layer management
4. Use Microsoft Office Products, including Word, Excel, PowerPoint, and Notepad, in engineering applications
5. Use of surveying equipment to perform basic field surveying and data collection
6. Work effectively on a team

CAREER CONSIDERATIONS

Engineering and drafting technicians work with and provide technical support to licensed architects, engineers and surveyors. Technicians prepare design drawings and assist with field work. Technicians utilize knowledge of building materials, engineering practices, and mathematics to complete detailed drawings and to collect or evaluate data in the field. Theory and principles of design and graphics are implemented under the direction of engineering or surveying staff.

PROGRAM COURSE REQUIREMENTS

Year One

Program Requirements

CIV 214	Virtual Design -CAD -Civil3D	3
DRF 112	Computer Aided Drafting (CAD) I	3
DRF 113	Computer Aided Drafting (CAD) II	3
ENGR 111	Engineering Orientation	3
ENGR 112A	Problem Solving & Technology	2
ENGR 112B	Problem Solving & Technology	1
ENGR 245	Engineering Graphics -SolidWorks	3
GIS 203	Digital World & Geospatial Concepts	4
GIS 234	GIS: Intro to Geographic Systems	4
GIS 235	GIS II: Analysis and Applications	4
SUR 161	Plane Surveying I	4

General Education Requirements

Human Relations Elective, from Approved List on page 43		3
MTH 111	College Algebra	5
MTH 112	Elementary Functions	4
WR 121	Academic Composition	4

Total Credits 50

ENGINEERING

Civil Engineering & Surveying Technology
Associate of Applied Science

PROGRAM DESCRIPTION

The Associate of Applied Science (AAS) degree prepares graduates to be job ready after graduation in two years. Some of the courses are application based and will not transfer. However, it is possible to transfer with the AAS degree and a third year of coursework at UCC. Two quarters of calculus are included in the second-year of classes for the AAS degree. Students that are sure they will not be continuing their education in the future should consider either the **Applied Surveying Option** or **Applied Water Quality Option** for the AAS degree. The Applied Options include 24 credits of Occupational Skills Training (approximately 5 months) during the second-year of course work.

PROGRAM OUTCOMES

In addition to the learning outcomes for the Completion Certificate as an Engineering & Drafting Technician, students that complete the AAS degree in Civil Engineering & Surveying Technology will also:

1. Communicate effectively
2. Think critically to solve engineering problems
3. Visualize and interpret real world situations and translate them into drawings and designs

CAREER CONSIDERATIONS

Civil engineering and surveying are some of the broadest fields of engineering, and are part of virtually all construction-related projects. Graduates have local, state-wide, and nation-wide employment opportunities. The field of civil engineering deals with planning, design, construction, and maintenance of private and public projects. Projects include highways, bridges, dams, subdivisions, water supply and wastewater systems. Land Surveyors perform a variety of important tasks such as boundary surveys, topographic mapping and construction staking. Civil Engineering and Surveying Technology graduates work with or in support of professional architects, engineers and land surveyors.

PROGRAM COURSE REQUIREMENTS

Year One

Program Requirements

CIV 214	Virtual Design -CAD -Civil3D	3
DRF 112	Computer Aided Drafting (CAD) I	3
DRF 113	Computer Aided Drafting (CAD) II	3
ENGR 111	Engineering Orientation	3
ENGR 112A	Problem Solving & Technology	2
ENGR 112B	Problem Solving & Technology	1
ENGR 245	Engineering Graphics -SolidWorks	3
GIS 203	Digital World & Geospatial Concepts	4

GIS 234	GIS: Intro to Geographic Systems	4
GIS 235	GIS II: Analysis and Applications	4
SUR 161	Plane Surveying I	4

General Education Requirements

Human Relations Elective, from Approved List on page 43	3	
MTH 111	College Algebra	5
MTH 112	Elementary Functions	4
WR 121	Academic Composition	4

Year One Credits 50

Year Two

Program Requirements

CIV 280	Cooperative Work Experience	3
CWE 161	CWE Seminar I	1
ENGR 211	Statics	4
ENGR 212	Dynamics	4
ENGR 213	Strength of Materials	4
SOIL 205/206	Soil Science & Lab	4
Approved Program Electives*	4	4

General Education Requirements

MTH 251	Calculus I	5
MTH 252	Calculus II	4
SP 112	Fundamentals of Public Speaking	4
WR 227	Technical Report Writing	4

Year Two Credits 48

*** Approved Program Electives (Select at least 3 of the following):**

SUR 162	Plane Surveying II	4
SUR 163	Route Surveying	4
SUR 242	Land Description & Cadastre	3
WQT 227	Wastewater Treatment	3
WQT 228	Plane Surveying II	4
WQT 260	Water Treatment	3
WQT 261	Water Distribution	3

ENGINEERING

Civil Engineering & Surveying Technology
Applied Surveying Option
Associate of Applied Science

PROGRAM DESCRIPTION

This degree option includes additional occupational skills training to prepare students with more on-the-job work experience. The option includes 24 credit hours of occupational skills training/cooperative work experience. This is the equivalent of approximately 5 months of fulltime work experience. UCC Engineering faculty advisors will assist with finding placement for occupational skills training/cooperative work experience.

PROGRAM OUTCOMES

Learning outcomes are the same as for AAS degree in Civil Engineering & Surveying Technology.

CAREER CONSIDERATIONS

The occupational skills training component of the degree option will provide students with on-the-job work experience with local employers.

PROGRAM COURSE REQUIREMENTS

Year One

Program Requirements

CIV 214	Virtual Design -CAD -Civil3D	3
DRF 112	Computer Aided Drafting (CAD) I	3
DRF 113	Computer Aided Drafting (CAD) II	3
ENGR 111	Engineering Orientation	3
ENGR 112A	Problem Solving & Technology	2
ENGR 112B	Problem Solving & Technology	1
ENGR 245	Engineering Graphics -SolidWorks	3
GIS 203	Digital World & Geospatial Concepts	4
GIS 234	GIS: Intro to Geographic Systems	4
GIS 235	GIS II: Analysis and Applications	4
SUR 161	Plane Surveying I	4

General Education Requirements

Human Relations Elective, from Approved List on page 43	3	
MTH 111	College Algebra	5
MTH 112	Elementary Functions	4
WR 121	Academic Composition	4

Year One Credits 50

Year Two

Program Requirements

CIV 280	Cooperative Work Experience*	24
CWE 161	CWE Seminar I	1
SUR 162	Plane Surveying II	4
SUR 163	Route Surveying	4
SUR 242	Land Description & Cadastre	3

General Education Requirements

MTH 251	Calculus I	5
MTH 252	Calculus II	4
SP 112	Fundamentals of Public Speaking	4
WR 227	Technical Writing	4

Year Two Credits 48

*Note: Each 1 credit hour of Cooperative Work Experience equals 33 hours of on-the-job training.

ENGINEERING

**Civil Engineering & Surveying Technology
Applied Water Quality Option**
Associate of Applied Science

PROGRAM DESCRIPTION

This option includes four introductory courses in water and wastewater operations and 24 credit hours of related cooperative work. The equivalent of approximately 5 months of full-time work experience will count towards the 12 months of work experience required for Level I Certification. The coursework will help prepare for the Level I Certification exams. UCC Engineering faculty advisors will assist with finding placement at water and wastewater facilities for cooperative work experience.

PROGRAM OUTCOMES

In addition to the learning outcomes for the AAS Degree in Civil Engineering & Surveying Technology, students that complete the AAS degree in Civil Engineering & Surveying Technology will also:

1. Describe water quality operations for wastewater collection and treatment and water distribution and treatment

CAREER CONSIDERATIONS

All community water and wastewater systems must be operated under the supervision of certified operators. There is a desirable career with low turnover. Many experienced operators are reaching retirement age.

PROGRAM COURSE REQUIREMENTS

Year One

Program Requirements

CIV 214	Virtual Design -CAD -Civil3D	3
DRF 112	Computer Aided Drafting (CAD) I	3
DRF 113	Computer Aided Drafting (CAD) II	3
ENGR 111	Engineering Orientation	3
ENGR 112A	Problem Solving & Technology	2
ENGR 112B	Problem Solving & Technology	1
ENGR 245	Engineering Graphics -SolidWorks	3
GIS 203	Digital World & Geospatial Concepts	4
GIS 234	GIS: Intro to Geographic Systems	4
GIS 235	GIS II: Analysis and Applications	4
SUR 161	Plane Surveying I	4

General Education Requirements

Human Relations Elective, from Approved List on page 43	3	
MTH 111	College Algebra	5
MTH 112	Elementary Functions	4
WR 121	Academic Composition	4

Year One Credits 50

Year Two

Program Requirements

CWE 161	CWE Seminar I	1
WQT 227	Wastewater Treatment	3
WQT 228	Plane Surveying II	4
WQT 260	Water Treatment	3
WQT 261	Water Distribution	3
WQT 280	Cooperative Work Experience*	24

***General Education Requirements**

SP 112	Fundamentals of Public Speaking	4
WR 227	Technical Writing	4

Year Two Credits 46

*Note: Each 1 credit hour of Cooperative Work Experience equals 33 hours of on-the-job training.

ENGINEERING

Engineering
Associate of Arts Oregon Transfer

PROGRAM DESCRIPTION

The Associate of Arts Degree is conferred on students who complete a full lower division college transfer program meeting requirements set jointly by Oregon's community colleges and public universities. This degree provides for "block transfer" and all lower division general education requirements of the receiving institution are met. Students should work closely with UCC advisors and faculty, and with representatives of the institution(s) to which they may transfer for specific details. There may be special requirements for specific programs or schools, as well as requirements for admissions, foreign language, and cultural literacy.

PROGRAM COURSE REQUIREMENTS

Year One

Foundational Requirements

WRITING

WR 121	Academic Composition	4
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Choose one from:

WR 122	Argument, Research, and Multimodal Comp	4
WR 227	Technical Writing	4

ORAL COMMUNICATION Choose one from:

SP 105	Listening	3
SP 111	Fundamentals of Public Speaking	4
SP 112	Persuasive Speech	3
SP 218	Interpersonal Communication	3
SP 219	Small Group Discussion	3

MATHEMATICS:

MTH 105 or higher	4-5
(from the approved MTH courses listed on page 43)	

HEALTH/WELLNESS/FITNESS:

HPE 295	Wellness & Health Assessment	3
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Discipline Studies Requirements

ARTS AND LETTERS

Must take at least three courses, chosen from at least two disciplines from the approved list on page 40.

Note: Second year world languages, are included in this category. First year world languages are counted as electives.

SCIENCE/ MATH / COMPUTER SCIENCE

Must take at least four courses from at least two disciplines — including at least three biological or physical science courses with labs, from the approved list on page 40.

Note: Math credits used to meet this requirement are in addition to any used to meet the Foundational Requirement above.

SOCIAL SCIENCE

Must take at least four courses chosen from at least two disciplines from the approved list on pp. page 41..

ELECTIVES

Any courses numbered 100 or above that would bring total credits up to 90.

Note: Electives may include up to 12 credits from the approved Career and Technical Education (CTE) list on pp. 41, and a maximum of 12 credits of PE activity courses.

CULTURAL LITERACY

At least one of the Discipline Studies courses above must be designated as meeting the criteria for Cultural Literacy.

PROGRAM ENTRANCE REQUIREMENTS

Academic Entrance Requirement

- No course substitutions are allowed.
- No course may be used to satisfy requirements in more than one area.
- All foundational requirement and discipline studies requirement courses used must be at least three credits.

ADDITIONAL PROGRAM INFORMATION

1. A minimum 90 credits with a grade of C or higher and a cumulative GPA of 2.0 or higher are needed to satisfy AA/OT requirements.
2. To complete an AA/OT at Umpqua Community College, a minimum of 24 credits must be earned through UCC and two terms of attendance must have occurred at UCC.

PROGRAMS

Umpqua Community College 2019-2020

ENGINEERING

Engineering Associate of Science

The AS transfer track closely follows the first two years of study for engineering programs at most universities in Oregon. Majors offered at OSU include Architectural Engineering, Electrical and Computer Engineering, Civil Engineering, Construction Engineering Management, Environmental Engineering, Mechanical, Industrial and Manufacturing, and Chemical Engineering, as well as BioMedical, Forest, Geological, Mining, Metallurgical, and Nuclear Engineering. PSU and OIT offer degrees in Civil and Environmental, Mechanical, Manufacturing, Electrical and Computer Engineering. OIT also offers majors in Geomatics (Surveying) and Renewable Energy. Many of the core classes taken during the first two years of study are the same for all engineering majors. However, it is important that students work closely with the UCC engineering faculty advisor and UCC Advising and Career Center to develop a custom educational planner for transfer to the university of choice.

PROGRAM OUTCOMES

Students who complete the Engineering Associate of Science will have the knowledge, skills, and abilities to:

1. Apply knowledge of mathematics to formulate and solve engineering problems
2. Use technology to solve engineering problems
3. Properly set up and follow a process to solve engineering problems

CAREER CONSIDERATIONS

Engineering is a broad field with more than 20 specialties. Engineering is widely considered as one of the most lucrative and in-demand career choices, with multiple options for engineering disciplines and job types.

PROGRAM COURSE REQUIREMENTS

General Education Requirements

CH 221	Chemistry I	5
MTH 251	Calculus I	5
SP 111	Public Speaking	4
WR 121	Academic Composition	4
WR 227	Technical Writing	4
Arts & Letters Approved Elective ¹		3
Social Science Approved Elective ¹		3

General Education Subtotal

28

Program Requirements ²

DRF 112 ³	CAD I	3
ENGR 111	Engineering Orientation I	3
ENGR 112A	Problem Solving & Tech	2

ENGR 112B	Problem Solving & Tech	1
MTH 252	Calculus II	4
PH 211	Physics I w/Calculus	5
PH 212	Physics II w/Calculus	5

Program Requirements Subtotal

23

Program Specific Electives ²

Arts & Letters ¹		9
Arts & Letters ¹		9
Social Science ¹		6
BA 211	Principles of Accounting I	3
BA 212	Principles of Accounting II	3
BA 226	Business Law	3
BI 211	Principles of Biology	5
BI 212	Principles of Biology	5
BI 213	Principles of Biology	5
BI 231	Human Anatomy & Physiology	4
BI 233	Human Anatomy & Physiology	4
BI 234	Microbiology	4
BI Elective ⁴	BI Elective w/Lab	4
CH 222	General Chemistry II	5
CH 223	General Chemistry III	5
CH 241	Organic Chemistry	4
CH 242	Organic Chemistry	4
CH 243	Organic Chemistry	4
CIV 214	CAD - Civil3D & Design	3
CS 161	Computer Science I	4
CS 162	Computer Science II	4
CS 260	Data Structures	4
G 221	Environmental Geology	4
ECON 201	Economics - Micro	3
ECON 202	Economics - Macro	3
ENGR 201	Electrical Fund I	4
ENGR 202	Electrical Fund II	4
ENGR 203	Electrical Fund III	4
ENGR 211	Statics	4
ENGR 212	Dynamics	4
ENGR 213	Strength of Materials	4
ENGR 245	Engineering Graphics	3
ENGR 271	Digital Logic - Lecture	3
ENGR 272	Digital Logic - Lab	1
GIS 203	Digital World	4
GIS 234	GIS I Intro to GIS	4
GIS 235	GIS II Data Anal & Apps	4

PROGRAMS

Umpqua Community College 2019-2020

ENGINEERING, continued

Engineering Associate of Science

HPE 295	Wellness & Health	3
MFG 111	Machine Shop Practice I	3
MFG 112	Machine Shop Practice II	3
MTH 253	Calculus III	4
MTH 254	Vector Calculus I	4
MTH 256	Differential Equations	4
MTH 261	Linear Algebra	2
MTH 265	Statistics for Scientists & Engineers	4
PH 213	Physics III w/Calculus	5
PHL 202	Ethics	3
SOIL 205	Soils Science Lecture	3
SOIL 206	Soils Science Lab	1
SUR 161	Plane Surveying I	4
SUR 162	Plane Surveying II	4
SUR 163	Route Surveying	4
SUR 242	Land Description & Cadastre	3
WLD 101	Welding Process & Applications	3
WLD 131	Basic Metallurgy	4
WR 122	Argument, Research, and Multimodal Comp	4

Program Electives, Minimum Subtotal

40

Following is a tentative listing of courses by year. Note that many of these courses are offered only once each year at UCC (and are prerequisites for subsequent courses), and students should meet with a UCC Advisor to develop a customized educational planner prior to beginning the program.

Year One

General Education Requirements

CH 221	General Chemistry I	5
MTH 251	Calculus I	5
SP 112	Fundamentals of Public Speaking	4
WR 121	Academic Composition	4

Core Program Requirements ²

DRF 112 ³	CAD I	3
ENGR 111	Engineering Orientation	3
ENGR 112A	Problem Solving & Technology	2
ENGR 112B	Problem Solving & Technology	1
MTH 252	Calculus II	4

Program Specific Electives ²

Program Elective 1	2-5
Program Elective 2	3-5
Program Elective 3	4-5
Program Elective 4	4-5

Year One Credits (minimum) 45

Year Two

General Education Requirements

Arts & Letters Approved Elective ¹	3	
Social Science Approved Elective ¹	3	
WR 227	Technical Writing	4

Core Program Requirements

PH 211	Physics w/Calculus I	5
PH 212	Physics w/Calculus II	5

Program Specific Electives ²

Program Elective 5	3-5
Program Elective 6	4-5
Program Elective 7	4-5
Program Elective 8	4-5
Program Elective 9	4-5
Program Elective 10	4-5
Program Elective 11	4-5

Year Two Credits (minimum) 45

NOTES:

- ¹ At least one Arts & Letters elective must be designated as Cultural Diversity. OSU General Ed requirements include 5 "Perspective" courses, see website info at OSU website. OIT General Ed requirements allow up to 9 cr of Humanities electives and 12 cr of Social Science Electives, see articulation agreements
- ² Program electives (and number of electives) are specific to both the transfer university and engineering major. See Advisor and UCC Advising Guides listed on UCC website at: <http://www.umpqua.edu/engineering> Advising guides can be developed for other majors and transfer universities.
- ³ DRF 112 can be substituted with CS 161, CH 223, ENGR 203 or ENGR 245. See Advisor and advising guide for selected major and transfer university OSU General Ed requirements include a Biological elective plus lab. For some majors the elective is a course requirement. See OSU website.
- ⁴ OSU General Ed requirements include a Biological elective plus lab. For some majors the elective is a course requirement. See OSU website.

ENGINEERING

Surveying & Geomatics
Associate of Science

PROGRAM DESCRIPTION

This degree prepares students for transfer to the bachelor's degree program Oregon Tech. Oregon Tech (OIT) is currently the only university in Oregon that offers either a Bachelor of Science in Geomatics, Surveying Option or a Bachelor of Science in Geomatics, Geographic Information Systems (GIS) Option. OIT also offers a minor in Geomatics for Civil Engineering majors. Students interested in a 2-year AAS degree with focus in Surveying & Geomatics may want to consider an AAS in Civil Engineering and Surveying Technology.

PROGRAM OUTCOMES

Students who complete the Surveying & Geomatics Associate of Science (AS) will have the knowledge, skills, and abilities to:

1. Apply knowledge of mathematics, science, and engineering
2. Design, collect, analyze, and interpret data
3. Identify, formulate, and solve surveying problems
4. Communicate effectively

CAREER CONSIDERATIONS

The surveying and geomatics professions work with private and public projects. Projects may include property surveys, road construction, topographical maps or building layout. Geographic information systems (GIS) is a systematic approach to management, analysis, and display of geographic information. Many public agencies now use GIS for most of their mapping. Surveying, geomatics, and GIS often overlap. There is a strong job market for these skills, and virtually 100% of graduates from OIT with a degree in Geomatics are employed at graduation.

PROGRAM COURSE REQUIREMENTS

Year One

General Education Requirements

Arts & Letter Elective ¹	3
MTH 251 Calculus I	5
WR 121 Academic Composition	4
WR 122 Argument, Research, and Multimodal Comp	4

Program Requirements

CIV 214 CAD – Civil3D	3
DRF 112 CAD I	3
ENGR 111 Orientation to Engineering	3
GIS 203 Digital World	4
GIS 234 GIS I Intro to GIS	4
GIS 235 GIS II Data Anal & Apps	4
SUR 161 Plane Surveying I	4

Year One Credits (minimum) 49

Year Two

General Education Requirements

SP 111 Fundamentals of Public Speaking	4
Social Sciences Elective	3
WR 227 Technical Writing	4

Program Requirements

MTH 243 ² Probability & Statistics	4
MTH 254 Vector Calculus	4
PH 211 Physics w/Calculus I	4
PH 212 Physics w/Calculus I	4
PH 213 Physics w/Calculus I	4
SUR 162 Plane Surveying II	4
SUR 163 Route Surveying	4
SUR 242 Land Descriptions & Cadastre	3

Year Two Credits (minimum) 45

NOTES:

- ¹ At least one Arts & Letters elective must be designated as Cultural Diversity. OSU General Ed requirements include 5 "Perspective" courses, see website info at OSU website. OIT General Ed requirements allow up to 9 cr of Humanities electives and 12 cr of Social Science Electives, see articulation agreements
- ² MTH 265 can be substituted for MTH 243

FIRE SCIENCE

Fire Science
Associate of Applied Science

PROGRAM DESCRIPTION

The Fire Science program is designed to prepare students with both a theoretical understanding of fire science and the practical skills necessary to succeed. This program is a combination of classroom and online study.

PROGRAM OUTCOMES

Students who successfully complete the Associate of Applied Science degree in Fire Science will:

1. Demonstrate a basic knowledge of core content for each course completed and demonstrate practical applications based on the requirements set forth by NFPA 1001 "Standard on Fire Fighter Professional Qualifications"
2. Communicate effectively using appropriate:
 - Active Listening Skills
 - Speaking Skills
 - Writing Skills
3. Demonstrate adequate problem solving and critical thinking skills

CAREER CONSIDERATIONS

The Fire Science program prepares students for entry level jobs and future careers in firefighting, fire prevention, and fire education.

PROGRAM COURSE REQUIREMENTS

Year One

EMS 151 EMT Basic, part A	5
EMS 152 EMT Basic, part B	5
FRP 121A Elementary Fire Science, Part A	4
FRP 121B Elementary Fire Science, Part B	4
FRP 123 Hazardous Materials	4
FRP 132 Fire Pump Construction	3
FRP 135 Hazardous Materials Chemistry	2
FRP 230 Fire Service Hydraulics	4
FRP 280 Cooperative Work Experience	2
MTH 95 Intermediate Algebra	4
SP 111 Fundamentals of Public Speaking	4
WR 121 Academic Composition	4
WR 227 Technical Writing	4
*Approved Electives	6

Year Two

ES 101 Principles of Emergency Services	3
ES 103 OSHA for Emergency Services	2
ES 107 Legal Aspects	2
ES 109 Principles of Fire & EMS	3
ES 113 Rescue Practices	3

FRP 101 Firefighter Safety and Survival	3
FRP 111 Building Construction	3
FRP 122 Fire Prevention	3
FRP 133 Natural Cover Fire Protection	3
FRP 159 Fire Behavior	3
FRP 202 Fire Protection Systems	3
FRP 212 Firefighting Investigation	3
FRP 213 Firefighting Tactics and Strategies	3
FRP 280 Cooperative Work Experience	4
PSY 101 Psychology of Human Relations	3
WR 227 Technical Writing	4
*Approved Electives	8

*Please see an academic advisor or program website for the full list of approved electives.

Grade of C or better must be attained in all courses or courses must be retaken.

Total Credits (minimum) 96

PROGRAM ENTRANCE REQUIREMENTS

Academic Entrance Requirement

- Minimal requirement: Computer with broadband internet connectivity; Windows 7 or newer OR MACOS 10.6 or newer. Video viewing and Zoom conferencing may be held at the discretion of the faculty.
 - Be a U.S. citizen
 - Pass a criminal background check. Students with a criminal record are strongly urged to research employability before entering the fire science program. Not have been convicted by any state or federal government of a crime, the punishment for which could have been imprisonment in a federal or state prison
 - Be of good moral character as determined by a thorough background investigation
 - Be capable of passing a series of basic physical agility tests
 - Demonstrate appropriate skills in: a. Hydraulics; b. Leadership; c. Candidate Physical Ability Training
 - Work effectively as a member of a firefighting team and lead in specific fire department related business, operations, and Public Information activities
 - Demonstrate skills necessary for continued lifelong learning for improving personal and professional skills
 - Demonstrate the cognitive and psychomotor skills to complete Oregon's Department of Public Safety Standards and Training, Firefighter 1 Task Book and approved Firefighter's 1 Skills Evaluation Sheets in addition to National Fire Protection Association, Standard on Fire Fighter Professional Qualification
- Recommended:
- Students with a criminal record are strongly urged to research employability before entering the fire science program.

FORESTRY

PROGRAM DESCRIPTION

The UCC Forestry Program offers the following AS degrees: 1) Forestry, AS and 2) Renewable Materials, AS. These degrees prepare students for transfer to the bachelor's degree programs at Oregon State University (OSU) College of Forestry. The curriculum is intended to meet the requirements for the first two years of course work necessary for application to the Forestry Professional Program at OSU.

Curriculum is listed on the following pages, including program requirements for each of the four options. Students should work closely with the UCC advisors and faculty and representatives of the OSU College of Forestry when developing term x term planners for the degree.

UCC students are encouraged to apply for dual enrollment at OSU through the Degree Partnership Program (DPP). Enrollment in DPP provides UCC students direct access to OSU advisors and other resources such as eligibility to apply for OSU scholarships.

The Forestry, AS degree includes the following four options:

1. **Forest Engineering**
2. **Forest Management**
3. **Forest Restoration & Fire**
4. **Forest Operations**

The **Forest Engineering** option integrates engineering and forestry skills to provide technical support for complex forest and natural resource operations. OSU also offers a dual degree in Forest Engineering and Civil Engineering with an additional year of school work.

The **Forest Management** option is a classical forestry program aimed at active land management from an industrial forest land management perspective.

The **Forest Restoration and Fire** option includes the same foundation as the Forest Management option, but goes on to provide more scientific focus on processes that operate in the forest regardless of management objectives.

The **Forest Operations** provides a foundation in classical forestry. It also includes business courses related to ownership and management of a forestry service business.

PROGRAM OUTCOMES

This UCC program aligns with the programs offered through the OSU College of Forestry Program. UCC students that complete the Forestry, AS degree will have the knowledge, skills, and abilities to:

1. Identify, formulate, and solve technical problems
2. Communicate effectively
3. Function as part of a team
4. Carry out simple surveying, mapping, and geographic location activities

CAREER CONSIDERATIONS

Oregon produces more softwood lumber than any other state in the US. The employment demand continues to grow for foresters to manage forest lands and forest products.

FORESTRY

Forest Engineering¹
Associate of Science

PROGRAM COURSE REQUIREMENTS

Year One

General Education Requirements

Arts & Letter Elective ⁶	3
CH 221 General Chemistry I	5
SP 112 Fundamentals of Public Speaking	4
WR 121 Academic Composition	4

Core Program Requirements

FOR 112 Problem Solving & Technology	3
FOR 111 ⁵ Intro to Forestry	3
FOR 161 Plane Surveying I	4
FOR 234 GIS I	4
FOR 241 Dendrology	4

Forest Engineering Option Requirements

DRF 112 Computer Aided Drafting (CAD) I	3
ENGR 111 Engineering Orientation	3
MTH 251 ² Calculus I	5
MTH 252 Calculus II	4
MTH 265 Statistics for Scientists & Engineers	4

Year One Credits 53

Year Two

General Education Requirements

ECON 201 MicroEconomics	4
WR 227 Technical Writing	4

Core Program Requirements

FOR 206 Soil Science Lab	1
FOR 240 Forest Biology	4
SOIL 205 Soil Science Lecture	3

Forest Engineering Option Requirements

ENGR 211 Statics	4
ENGR 212 Dynamics	4
ENGR 213 Strength of Materials	4
MTH 254 Vector Calculus	4
MTH 256 Differential Equations	4
PH 211 Physics w/Calculus I	5
PH 212 Physics w/Calculus II	5

Year Two Credits (minimum) 46

Transfer advising guides are listed on the UCC website:
<http://www.umpqua.edu/forestry>.

FORESTRY

Forest Management
Forest Operation
Forest Restoration & Fire
Associate of Science

PROGRAM COURSE REQUIREMENTS

Forest Management
Forest Restoration & Fire
Forest Operations

Year One (Same Courses for All Three Options)

General Education Requirements

Arts & Letter Elective ⁶	3
SP 112 Fundamentals of Public Speaking	4
WR 121 Academic Composition	4

Core Program Requirements

FOR 111 ⁵ Intro to Forestry	3
FOR 112 Problem Solving & Technology	3
FOR 161 Plane Surveying I	4
FOR 234 GIS I	4
FOR 241 Dendrology	4

Common Option Requirements

BI 212 Principles of Biology	4
MTH 1112 College Algebra	5
MTH 112 Elementary Functions	4
MTH 243 ⁴ Intro to Probability & Statistics	4

Year One Credits 47

Year Two

Forest Management
Forest Restoration & Fire
Forest Operations

General Education Requirements

CH 221 General Chemistry	5
ECON 201 MicroEconomics	4
WR 227 Technical Writing	4

Core Program Requirements

FOR 240 Forest Biology	4
SOIL 205 Soil Science Lecture	3
FOR 206 Soil Science Lab	1

Common Option Requirements

Arts & Letters or Social Sciences Elective ⁶	3
MTH 241 Calculus for Management or MTH 251 Calculus I	4
PH 201 ³ General Physics	4

Subtotal Credits 32

Forest Management
Forest Restoration & Fire

Requirements

Arts & Letters or Social Science Elective ⁶	3
ATS 201 Climate Science	4
FOR 261 Recreation Resource Management	4
HPE 295 Health & Wellness	3

Subtotal Credits 14

Forest Operations

Requirements

BA 211 Principles of Accounting I	3
BA 212 Principles of Accounting II	3
BA 213 Principles of Accounting II	3
BA 226 Business Law	3

Subtotal Credits 12

NOTES:

- ¹ Dual Civil Engineering/Forest Engineering Majors should also take MTH 253, MTH 261, and PH 213.
- ² General education requirement for AS degree
- ³ PH 211 can be substituted for PH 201.
- ⁴ MTH 265 can be substituted for MTH 243.
- ⁵ NR 201 can be substituted for FOR 111.
- ⁶ One Arts & Letters elective must be Cultural Diversity. See following link for OSU Perspective requirements for General Education <https://main.oregonstate.edu/baccalaureate-core/transfer-students>.

FORESTRY

Renewable Materials
Associate of Science

PROGRAM DESCRIPTION

The UCC Forestry Program offers the following AS degrees: 1) Forestry, AS and 2) Renewable Materials, AS. These degrees prepare students for transfer to the bachelor's degree programs at Oregon State University (OSU) College of Forestry. The curriculum is intended to meet the requirements for the first two years of course work necessary for application to the Forestry Professional Program at OSU.

For more information about the UCC Forestry Program see the link at: www.umpqua.edu/forestry.

The following link has additional information about the programs at OSU College of Forestry: www.forestry.oregonstate.edu

Transfer advising guides are listed on the UCC website: <http://www.umpqua.edu/forestry>

Curriculum is listed on the following pages, including program requirements for each of the four options. Students should work closely with the UCC advisors and faculty and representatives of the OSU College of Forestry when developing term x term planners for the degree.

UCC students are encouraged to apply for dual enrollment at OSU through the Degree Partnership Program (DPP). Enrollment in DPP provides UCC students direct access to OSU advisors and other resources such as eligibility to apply for OSU scholarships.

The Renewable Materials, AS degree includes the following four options:

1. **Advanced Wood Manufacturing**
2. **Management & Marketing**
3. **Science & Engineering**
4. **Art & Design**

The **Advanced Wood Manufacturing** option This option focuses on behavior of bio-based materials and adds a strong foundation in advanced manufacturing processes such as automation, scanning and optimization systems, computer numerically controlled (CNC) machining, robotics, and 3D printing.

The **Management & Marketing** option provides the skills to manage organizations to be competitive in the global renewable materials marketplace or develop innovative and effective marketing programs for green products.

The **Science & Engineering** option is a flexible, math- and science-intensive option that allows students to design a personalized curriculum that opens doors to jobs that solve complex problems, create efficiencies, and foster intelligent use of renewable materials.

The **Art & Design** option studies renewable materials on an aesthetic level, whether as interior designers, fine artists, or entrepreneurs. Students will develop a knowledge of renewable materials and how those materials can function visually within the human space. In addition to the aesthetic aspect, students will gain an understanding of green building materials and green architecture.

PROGRAM OUTCOMES

This UCC program aligns with the programs offered through the OSU College of Forestry Program. UCC students that complete the Forestry, AS degree will have the knowledge, skills, and abilities to:

1. Identify, formulate, and solve technical problems
2. Communicate effectively
3. Function as part of a team
4. Demonstrate knowledge of wood and similar renewable materials and utilizing as industrial and building materials.

CAREER CONSIDERATIONS

Wood is a renewable resource that is used to make many products that our society uses every day. Oregon is a leader in the manufacturing and utilization of wood products. There are exciting new technological advances in wood manufacturing that are rapidly expanding the opportunities to utilize wood as a building material. There is a strong job demand for these skills, and there are many scholarship opportunities for students and job opportunities for graduates with this degree.

PROGRAM COURSE REQUIREMENTS

Advanced Wood Manufacturing
Management & Marketing
Science & Engineering
Art & Design

Year One

General Education Requirements

CH 104	Introductory Chemistry	
or CH 221	General Chemistry	4
SP 112	Fundamentals of Public Speaking	4
WR 121	Academic Composition	4

Core Program Requirements

CH 105	Introductory Chemistry	
or CH 222	General Chemistry	4
ENGR 111	Engineering Orientation I	3
ENGR 245	Engineering Graphics: SolidWorks	3
FOR 111 ²	Intro to Forestry	3
FOR 112 ³	Problem Solving & Technology	3

Advanced Wood Manufacturing
Science & Engineering

Requirements

CH 106	Introductory Chemistry	
or CH 223	General Chemistry	4
MTH 251 ¹	Calculus I	5
MTH 252	Calculus II	4
MTH 265	Statistics for Scientists & Engineers	4

FORESTRY, continued

Renewable Materials
Associate of Science

Management & Marketing
Requirements

FOR 241	Dendrology	4
MTH 111 ^{1,4}	College Algebra	
or MTH 112 ⁴	Elementary Functions	5
MTH 241 ⁴	Calculus for Management	
or MTH 251 ⁴	Calculus I	4
MTH 243 ⁵	Intro to Probability & Statistics	4

Art & Design
Requirements

ART 115	Art & Design Foundations: 2D	4
MTH 111 ^{1,4}	College Algebra	5
or MTH 112 ⁴	Elementary Functions	5
MTH 241 ⁴	Calculus for Management	4
or MTH 251 ⁴	Calculus I	4
MTH 243 ⁵	Intro to Probability & Statistics	4

Year One Credits (minimum) 45

Year Two

Advanced Wood Manufacturing
Management & Marketing
Science & Engineering
Art & Design

General Education Requirements

Arts & Letter Elective ⁶		3
ECON 201	MicroEconomics	4
WR 227	Technical Writing	4

Core Program Requirements

FOR 240	Forest Biology	4
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Advanced Wood Manufacturing
Requirements

BA 211	Principles of Accounting I	3
BA 212	Principles of Accounting II	3
BA 213	Principles of Accounting III	3
ECON 202	MacroEconomics	4
HPE 295	Health & Wellness	3
PH 211	Physics w/Calculus I	5
PH 212	Physics w/Calculus II	5
PH 213	Physics w/Calculus III	5

Management & Marketing
Requirements

Arts & Letter of Social Science Elective ⁶		3
BA 150	Developing a Small Business	4
BA 211	Principles of Accounting I	3
BA 212	Principles of Accounting II	3
BA 213	Principles of Accounting III	3
BA 226	Business Law	4
ECON 202	MacroEconomics	4
HPE 295	Health & Wellness	3
VC 114	Intro to InDesign	3

Science & Engineering
Requirements

BA 226	Business Law	4
ECON 202	MacroEconomics	4
HPE 295	Health & Wellness	3
MTH 254	Vector Calculus	4
PH 211	Physics w/Calculus I	5
PH 212	Physics w/Calculus II	5
PH 213	Physics w/Calculus III	5

Art & Design
Requirements

Arts & Letter or Social Science Elective ⁶		3
ART 117	Art & Design Foundations: 3D	4
ART 131	Intro to Drawing: Line & Gesture	3
ART 234	Figure Drawing	3
ART 261	Digital Photography	3
ART 291	Sculpture	3
DRF 112	CAD I	3
DRF 113	CAD II	3
HPE 295	Health & Wellness	3
VC 114	Intro to InDesign	3

Year Two Credits (minimum) 45

NOTES:

- ¹ General education requirement for AS degree
- ² NR 201 can be substituted for FOR 111.
- ³ ENGR 112 can be substituted for FOR 112.
- ⁴ MTH 111 is pre-req for MTH241 and MTH 112 is pre-req for MTH 251.
- ⁵ MTH 265 can be substituted for MTH 243
- ⁶ One Arts & Letters elective must be Cultural Diversity. See following link for OSU Perspective requirements for General Education <https://main.oregonstate.edu/baccalaureate-core/transfer-students>.

HUMAN SERVICES

Addiction Studies Pathway Certificate

PROGRAM DESCRIPTION

This certificate is designed to provide additional academic and practical background to students working in the Alcohol/Drug/Tobacco counseling and/or individuals who wish to pursue training in the substance abuse disorder and addiction studies area.

PROGRAM OUTCOMES

Students who successfully complete this certificate in Addiction Studies will:

1. Communicate effectively and develop interpersonal skills needed to work with people from diverse backgrounds
2. Demonstrate professional interviewing and writing skills appropriate to clinical documentation
3. Assess and address needs of individuals, families and groups and develop a plan of action and link people to community resources
4. Identify drug use, misuse and etiology of addiction
5. Apply the prevention strategies, risk assessment protocols, harm reduction methods and treatment options in populations served by human service professionals

CAREER CONSIDERATIONS

The Addiction Studies certificate provides students the required and additional coursework in combination with the required 1,000 hours of supervised experience to take the Oregon Certified Alcohol and Drug Counselor (CADCI*) exam.

PROGRAM COURSE REQUIREMENTS

Year One

HS 100	Intro to Human Services	3
HS 102	Addiction Pharmacology	3
HS 150	Personal Effectiveness for HS	3
HS 154	Community Resources	3
HS 155	Counseling Skills I	3
HS 217	Group Counseling	3
HS 227	Understanding Dysfunctional Fam.	3
HS 211	HIV/AIDS & other Infect Diseases	2
HS 226	Ethics and Law	3
HS 266	Case Management for HS	3
MTH 052	Intro to Algebra for Trades	4
WR 121	Academic Composition	4
SOC 225	Social Aspects of Addiction	3
SOC 204	Intro to Sociology	3
PSY 101 or SP 218	Psychology of Human Relations Interpersonal Communications	3

Total Credits 46

*MHACBO (Mental Health & Addiction Certification Board of Oregon) proctors the CADCI exam and requirements.

PROGRAM ENTRANCE REQUIREMENTS

Academic Entrance Requirement

- Students must be able to verify a minimum of 2 years of sobriety time for those who are recovering from chemical dependence to take the CADCI exam.

Recommended:

- Students with a criminal record are strongly urged to research employability before entering the Human Service field. If students enter the program with a felony conviction, they should realize the impact on employment. Background checks are a requirement.

HUMAN SERVICES

Addiction Treatment Pathway Certificate

PROGRAM DESCRIPTION

This certificate is designed to prepare students working in the Alcohol/Drug/Tobacco counseling and/or individuals who wish to pursue training in the substance abuse disorder and addiction studies area.

PROGRAM OUTCOMES

Students who successfully complete this certificate in Addiction Treatment will:

1. Communicate effectively and develop interpersonal skills needed to work with people from diverse backgrounds
2. Assess and address needs of individuals, families and groups
3. Demonstrate an understanding of drug use, misuse and etiology of addiction
4. Demonstrate knowledge of the ethical and legal standards and regulations that apply to the field of human services and substance abuse disorder treatment
5. Identify the prevention strategies, risk assessment protocols, harm reduction methods and treatment options of infectious diseases in the population service by substance abuse disorder treatment

CAREER CONSIDERATIONS

The Addiction Treatment certificate provides students the required coursework in combination with the required 1,000 hours of supervised experience to take the Oregon Certified Alcohol and Drug Counselor (CADCI*) exam.

PROGRAM COURSE REQUIREMENTS

Year One (Winter & Spring Terms)

HS 102	Addiction Pharmacology	3
HS 155	Counseling Skills I	3
HS 266	Case Management for HS	3
HS 211	HIV/AIDS & other Infect Diseases	2
HS 217	Group counseling	3
HS 226	Ethics and Law	3

Total Credits 17

*MHACBO (Mental Health & Addiction Certification Board of Oregon) proctors the CADCI exam and requirements.

PROGRAM ENTRANCE REQUIREMENTS

Academic Entrance Requirement

- Students must be able to verify a minimum of 2 years of sobriety time for those who are recovering from chemical dependence to take the CADCI exam.

Recommended:

- Students with a criminal record are strongly urged to research employability before entering the Human Service field. If students enter the program with a felony conviction, they should realize the impact on employment. Background checks are a requirement.

HUMAN SERVICES

Case Aide Pathway Certificate

PROGRAM DESCRIPTION

This certificate is designed to introduce students to the field of Human Services. It provides an overview of topics essential to beginning a career in Human Services.

PROGRAM OUTCOMES

Students who successfully complete this certificate in Case Aide will:

1. Communicate effectively and develop interpersonal skills needed to work with people from diverse backgrounds
2. Expand general knowledge and skills in ways that enrich personal and professional lives
3. Develop the knowledge and skills necessary to improve personal effectiveness through improved communication skills, conflict resolution and problem-solving strategies
4. Obtain the theoretical knowledge and interview skills required of human services workers in a variety of work settings
5. Demonstrate an understanding of the concepts, ideas and skills necessary to effectively work as a case manager for any human services delivery program

CAREER CONSIDERATIONS

The Case Aide certificate provides students with the academic background for entry-level opportunities with a wide variety of human service agencies. This certificate is appropriate for students who are already working in the human service field or would like to test their interest in the field before committing to a degree Program.

PROGRAM COURSE REQUIREMENTS

Year One

HS 100	Intro to Human Services	3
HS 150	Personal Effectiveness for HS	3
HS 154	Community Resources	3
HS 155	Counseling Skills I	3
HS 266	Case Management for HS	3
SOC 204	Intro to Sociology	3

Total Credits 18

PROGRAM ENTRANCE REQUIREMENTS

Academic Entrance Requirement

- Students must be able to verify a minimum of 2 years of sobriety time for those who are recovering from chemical dependence to take the CADCI exam.

Recommended:

- Students with a criminal record are strongly urged to research employability before entering the Human Service field. If students enter the program with a felony conviction, they should realize the impact on employment. Background checks are a requirement.

HUMAN SERVICES

Human Services

Associate of Science Articulated with SOU

PROGRAM DESCRIPTION

The Human Service program provides academic coursework and the foundation necessary for a student interested in transferring to SOU for the interdisciplinary Bachelor of Arts or Science in Social Sciences that focuses on the needs of human service professionals.

PROGRAM OUTCOMES

This degree aligns with the Human Services program at Southern Oregon University. Students who complete the Human Services Associate of Science will have the knowledge, skills and abilities to:

1. Communicate effectively with others
2. Be comfortable and effective working with people from diverse backgrounds
3. Assess and address needs of individuals, families, and groups
4. Develop a plan of action and link people with community resources
5. Foster commitment to the field of human services based on the belief that all humans are capable of growth and have a fundamental right to dignity, respect, and self-determination
6. Expand general knowledge and skills in ways that enrich personal and professional lives
7. Use appropriate library and information resources to research professional issues and support lifelong learning
8. Formulate questions that can be addressed with data and collect, organize, and display relevant data to answer them

CAREER CONSIDERATIONS

The Associate of Science degree is based on a signed articulation agreement with Southern Oregon University (SOU). The SOU departments of psychology and sociology/anthropology offer an interdisciplinary bachelor's degree program focusing on the needs of human service professionals, a Bachelor of Arts or Science in Social Science. The UCC Associate of Science (AS) degree is fully articulated with SOU's Human Service program and allows students to transfer directly as juniors into the program at SOU with no loss of credits to pursue a bachelor's degree. Students should contact the SOU Human Services program early in the first year of the AS program to be advised about additional requirements and procedures for admission to the school or program. Students should be aware that if they transfer before completing this degree, their courses will be evaluated individually toward the general education requirements in effect at SOU.

PROGRAM COURSE REQUIREMENTS

Year One

HS 100	Intro to Human Services	3
HS 155 ²	Counseling Skills I*	3
HS 226	Ethics and Law	3
HS 229 ¹	Crisis Intervention & Prevention	3
HS 265 ²	Counseling Skills II*	3
MTH 105 or MTH 111	Math in Society College Algebra	4
PSY 201	General Psychology*	3
PSY 202	General Psychology*	3
PSY 203	General Psychology*	3
WR 121	Academic Composition	4
WR 122	Argument, Research, and Multimodal Comp	4
*Approved electives		9

Year Two

HDFS 201 ³	Indvid & Family Development*	3
HS 267	Cultural Competence in HS	3
Required Humanities		9
MTH 243	Intro to Prob & Stats*	5
Required Sciences		8
Required Sciences		3-4
SOC 2018	Intro to Sociology*	3
SP 211	Public Speaking	4
or SP 218	Interpersonal Communication	3
or SP 219	Small Group Discussion	3
*Approved Elective		

Total Credits 90

*Please see an academic advisor or program website for the full list of approved electives.

A grade of C or better must be attained in all Human Service courses or courses must be retaken.

PROGRAM ENTRANCE REQUIREMENTS

Academic Entrance Requirement

- Students with a criminal record are urged to research employability before entering the Human Service Program. If a student enters the program with a felony conviction, they should realize the impact on their Cooperative Work Experience (CWE) opportunities and employment. Most agencies have background check requirements.

HUMAN SERVICES, continued

Human Services

Associate of Science Articulated with SOU

NOTES:

- SOU Human Service Baccalaureate Graduation requirements: Minimum GPA of 2.5 is required for graduation, and no grade below C- allowed in all upper division HS major course work or lower division coursework directly applied to the SOU Human Services Program.
- ¹ HS 229 is accepted by SOU as an equivalent to PSY 475 Crisis Intervention Strategies; however, upper division credit for HS 229 is not given. In order for this equivalency to be valid, UCC transfer students must complete the Human Services Associate of Science Degree prior to transfer. Students receiving this equivalency must substitute an upper division psychology course for PSY 475 as suggested and approved by an advisor at SOU
- ² HS 155 and HS 265 are accepted by SOU as an equivalent to PSY 471 Introduction to Helping Skills; however, upper division credit for HS 165 and HS 265 is not given. In order for this equivalency to be valid, UCC transfer students must complete the Human Services Associate of Science Degree prior to transfer. Students receiving this equivalency must substitute an upper division psychology course for PSY 471 as suggested and approved by an advisor at SOU.
- ³ HDFS 201 is accepted as an equivalent to PSY 370 Lifespan Development; however, upper division credit for HDFS 201 is not given. Students who complete the Human Service Associate of Science Degree at UCC will not be required to take PSY 471 Introduction to Helping Skills or PSY 475 Crisis Intervention Strategies at SOU; however, substitute upper division level credits in psychology must be taken as suggested and approved by an advisor.

PROGRAMS

Umpqua Community College 2019-2020

HUMAN SERVICES

Human Services Associate of Applied Science

PROGRAM DESCRIPTION

The Human Service program combines academic coursework with supervised fieldwork to prepare students with the skill sets to succeed in the social services field.

PROGRAM OUTCOMES

Students who successfully complete the Associate of Applied Science degree in Human Services will:

1. Develop interpersonal skills needed to work with people with diverse backgrounds
2. Assess and address needs of individuals, families, and groups
3. Foster commitment to the field of human services based on the belief that all humans are capable of growth, and have a fundamental right to dignity, respect and self-determination
4. Expand general knowledge and skills in ways that enrich personal and professional lives

CAREER CONSIDERATIONS

The Human Service program prepares students for entry level jobs and future careers in the following areas: private human service agencies and organizations, government social service agencies, schools, and businesses.

PROGRAM COURSE REQUIREMENTS

Year One

HS 100	Intro to Human Services	3
HS 150	Personal Effectiveness for HS	3
HS 154	Community Resources	3
HS 155	Counseling Skills I	3
HS 226	Ethics and Law	3
HS 267	Cultural Competence in HS	3
SOC 204	Intro to Sociology	3
WR 121	Academic Composition	4
SP 218 or PSY 101	Interpersonal Communication Psychology of Human Relations	3
*Approved electives		12

Year Two

HS 227	Understanding Dysfunctional Fam.	3
HS 229	Crisis Intervention and Prevention	3
HS 266	Case Management for HS	3
PSY 201	General Psychology	3
PSY 202	General Psychology	3
PSY 203	General Psychology	3
WR 227	Technical Writing	3
MTH 052	Intro to Algebra for Trades	4
HS 280	Cooperative Work Experience	9
*Approved electives		15

Total Credits 90

A grade of C or better must be attained in all Human Service courses or courses must be retaken.

*Please see an academic advisor or program website for the full list of approved electives.

PROGRAM ENTRANCE REQUIREMENTS

Academic Entrance Requirement

- Working knowledge of MS Word
- Recommended:
- Students with a criminal record are urged to research employability before entering the Human Service Program. If a student enters the program with a felony conviction, they should realize the impact on their Cooperative Work Experience (CWE) opportunities and employment. Most agencies have background check requirements.

PROGRAMS

Umpqua Community College 2019-2020

MUSIC

MUSIC ARTICULATED WITH SOU Associate of Science

PROGRAM DESCRIPTION

The Music program is designed to provide study in the areas of music and performance to prepare students for employment and with transfer options to consider. Students should contact the SOU Music Department early in the first year of their AS program to be advised about additional requirements and procedures for admission to the school or program. Students should be aware that if they transfer before completing this degree, their courses will be evaluated individually toward the general education requirements in effect at SPI. All students must pass a New Student Hearing before begin accepted as a Music Major at SOU. The student's applied level of study (MUP courses) will be set based on the audition.

PROGRAM OUTCOMES

Students who successfully complete the Associate of Science degree in Music will:

1. Demonstrate technical proficiency at reading, writing, and performing music using standard music notation (junior entry level)
2. Achieve aural literacy, promote and model cultural awareness through identification, evaluation, and critical discussion of musical examples
3. Communicate effectively using appropriate listening speaking, and writing skills
4. Demonstrate adequate problem solving and critical thinking skills

CAREER CONSIDERATIONS

The music program prepares students for entry level jobs and future careers in the following areas: music composition, vocal performance, instrumental performance, ensemble performance, music instruction, music therapy, musical instrument repairs and sales, orchestra management, conducting, radio and broadcast work, recording technology and audio engineering, theatre and performing arts center management, artist representation, broadcast engineering, event and wedding planning and management.

PROGRAM COURSE REQUIREMENTS

Year One

MUP 101-292	Performance Studies***	1-6
Selected MUP/MUS Electives		3
MUS 111	Music Theory I	3
MUS 112	Music Theory I	3
MUS 113	Music Theory I	3
MUS 114	Aural Skills I	1

MUS 115	Aural Skills I	1
MUS 116	Aural Skills I	1
MUS 131	Class Piano*	2
MUS 132	Class Piano*	2
MUS 133	Class Piano*	2
MUS 201/202/203	Intro to Music and its Literature	6
WR 121	Academic Composition	4
WR 122	Argument, Research, and Multimodal Comp	4
Required Humanities Courses		9-12
Required Math Course		4-5

Year Two

HPE 295	Wellness and Health Assessment	3
MUP 101-292	Performance Studies***	1-6
MUS 211/212/213	Music Theory II	9
Selected MUP/MUS credits		3
MUS 224/224/226	Aural Skills II	3
MUS 214/215/216	Intermediate Piano	6
SP 111 or 218 or 219	Speech	3-4
Science with Lab		12
Social Science		6

Music Electives (Optional)

Choose enough electives to reach a minimum of 91 overall degree credits

AMUP 101-292	Performance Studies**	1-6
MUS 105	Intro to Rock Music***	3
MUS 204	Music of the World***	3
MUS 205	Intro to Jazz History***	3

Total Credits 91

Scheduling requirements may prevent all courses from being offered every term. Consultation with an advisor is critical to student's selection of courses. A Maximum of 124 lower division credits can be transferred from a community college to SOU.

* Note: MUP 101-292 can be substituted for piano credits if student demonstrates proficiency.

** MUP 101-292 can be substituted for piano credits if student demonstrates proficiency

*** Six credits from selected MUP/MUS courses required

**** May also be used for Humanities Exploration credit

NATURAL RESOURCES

Natural Resources
Associate of Science

PROGRAM DESCRIPTION

The Associate of Science degree in Natural Resources gives students a comprehensive educational foundation for careers related to natural resource science and technology.

Our Landscape Monitoring Option introduces the theory and practice of landscape monitoring, and offers broad laboratory and field training in measuring and analyzing ecological conditions at the microsite, community, and landscape levels.

The program is specifically designed for seamless transfer to the Oregon State University College of Forestry's Bachelor of Science degree in Natural Resources.

PROGRAM OUTCOMES

Students who complete the Natural Resources Associate of Science will have the knowledge, skills, and abilities to:

1. Recognize and classify common plant and animal species in the field, and use dichotomous keys to determine or verify their identity
2. Describe key ecological cycles, disturbance processes, and ecological succession in landscapes of the Pacific Northwest
3. Describe the ways in which utilization, management, and allocation of natural resources are affected
4. Recognize and describe the interrelationships between the ecological communities that produce natural resources and the social communities that consume and manage them
5. Discuss historic range of ecosystem variability, human impacts that influence ecosystem change, and the future sustainability of natural resources
6. Work safely and navigate efficiently in the field using map, compass, GPS and other orienteering and data gathering technologies
7. Demonstrate current protocols for gathering and recording data in the field and lab
8. Map and quantify a range of natural resources at multiple scales
9. Analyze numerical and spatial environmental data, and apply current theory to those findings to solve problems in natural resource management
10. Envision and plan desired future landscapes that will achieve a set of natural resource-related objectives, prescribe management actions needed to achieve those objectives, and evaluate the success of these actions
11. Communicate effectively orally, in writing, and through current presentation technologies with audiences of diverse backgrounds
12. Work collaboratively within and among professional interdisciplinary teams and diverse community groups to resolve management problems and achieve management objectives

13. Self-assess professional strengths and weaknesses, and be committed to lifelong learning and professional development

CAREER CONSIDERATIONS

This program prepares students for jobs in conservation science, wildlife biology, fisheries science, botany, forestry, ecosystem management, watershed management and other fields related to natural resource science and conservation.

PROGRAM COURSE REQUIREMENTS

Year One

BI 211	Principles of Biology	5
BI 212	Principles of Biology	5
BI 213	Principles of Biology	5
BOT 203	Field Botany	4
CH 112	Fundamentals of Chemistry	5
ENG 230	Environmental Literature	4
MTH 111	College Algebra	5
NR 201	Introduction to Natural Resources	3
NR 241	Dendrology	4
NR 251	Principles of Fish and Wildlife Cons	3
WR 121	Academic Composition	4

Year Two

BOT 204	Flowering Plants of SW OR & NCA	4
G 221	Environmental Geology	4
GIS 234	Introduction to GIS	4
MTH 243	Intro to Statistics	5
NR 221	Water Resource Science	4
NR 240	Forest Biology	4
NR 243	Historical Ecology of PNW	3
NR 255	Field Sampling of Fish and Wildlife	3
NR 261	Recreation Resource Mngmt	4
NR 295	Enviro Dispute Resolution	3
SOIL 205	Soil Science	4
SP 111	Public Speaking	4

Total Credits 97

PROGRAM ENTRANCE REQUIREMENTS

Academic Entrance Requirement

Coursework from accredited high schools, colleges and universities will be accepted in accordance with college policies and with the approval of the Science Department Chair.

OCCUPATIONAL SKILLS TRAINING

Occupational Skills Training
Certificate

PROGRAM DESCRIPTION

The Occupational Skills Training (OST) one-year certificate program provides a combination of academic study and hands-on training. Students earn approximately half of their program credits through training at local business/agency sites.

Almost any occupation can be addressed provided the following conditions are met: 1) There are jobs currently available in the selected field; 2) there is an appropriate training site available in the community; 3) the occupational goal is appropriate to the program length of one year; and 4) there is no overlap with existing UCC programs (trainings may overlap for students in special circumstances as approved by program personnel).

The UCC Career and Advising Center and UCC Faculty Advisors in the areas of interest will assist students in assessing possible occupations. Customized learning goals for hands-on training are developed for each student by advisors and faculty. These goals are chosen with care to ensure students' preparation for entry-level employment in the specific occupation of choice. Student progress is evaluated by UCC 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 also required to take elective coursework related to their chosen occupational goals. Credits earned in this program may be applied to AAS, AS, and AGS degree. The OST program by itself is not financial aid eligible

PROGRAM OUTCOMES

Students who successfully complete the Occupational Skills Training Certificate will:

1. Develop work ethic competencies to meet or exceed associated employer standards
2. Demonstrate competitive proficiency in the functional skills of their training occupation
3. Explore applicable licensing or certification required by industry
4. Achieve employment as appropriate in desired occupational field

PROGRAM COURSE REQUIREMENTS

Year One

General Education Requirements

MTH 052	Industrial Application of Math	4
WR 115	English Composition: Intro to Expository Writing (or higher)	4
Approved Human Relations Course (see page 43)		3

Occupational Related Courses

CWE 161	CWE Seminar 1	1
Elective Courses Related to Career Direction (100 Level or Above)		7-15
Occupational Skills Training (Related to Career Direction)		0-28

Total Credits 45-60

A certificate in Occupational Skills Training will be awarded to students who complete all courses in this program with a grade of C or better.

OFFICE TECHNOLOGY

Front Office Medical Certificate

PROGRAM DESCRIPTION

This program is designed primarily for the person with little or no previous experience. The focus is on developing the necessary skills to function as entry-level front office medical assistants or medical office support personnel. Specific duties will often vary from office to office due to office size, location, and specialty, but duties may include answering telephone calls, scheduling appointments, greeting incoming patients, preparing new and established patient records, and possibly posting charges, copays, and patient payments.

PROGRAM OUTCOMES

Students who successfully complete the Front Office Medical certificate will:

1. Demonstrate professional skills that will assure workplace success
2. Communicate effectively using oral and written skills
3. Exhibit critical thinking and decision-making skills
4. Utilize appropriate technology relevant to the profession

CAREER CONSIDERATIONS

When finished with the Front Office Medical Assistant certificate, students will also have completed the entire first year of the AAS degree program Medical Office Administration allowing easy transition for those students wanting to further their education.

When finished with the Medical Billing and Collections Clerk Certificate, students will have completed a significant portion of the AAS degree in Medical Office Administration. Students wishing to continue their education should have an easy transition to the AAS and beyond.

PROGRAM COURSE REQUIREMENTS

Year One

BA 165	Customer Service	3
CIS 120	Intro to Computer Information Systems	4
CWE 161	CWE Seminar I	1
MED 111	Medical Terminology I*	3
MED 112	Medical Terminology II*	3
MED 140	Electronic Health Records	3
MED 220	Medical Office Procedures I*	3
MED 221	Medical Office Procedures II*	3
MED 230	Health Insurance Concepts	3
OA 115	Administrative Office Professional	3
OA 116	Records Management	2
OA 124A	Keyboarding Skill Enhancement	3

OA 131	Ten-Key Calculator	1
SDP 109	Elements of Supervision*	3
WR 115	English Composition: Intro to Expository Writing* (or higher)	4
Choose One:		
BA180 ¹	Business Mathematics I	3
MED 060	Math for the Medical Assistant	3
MTH 060 ¹	Introduction to Algebra	4
Choose One:		
PSY 101	Psychology of Human Relations	3
SP 105	Listening	3
SP 218	Interpersonal Communication	3
SP 219	Small Group Discussion	3

Total Credits 48

¹A grade of C or better must be attained in the courses indicated.

**Please see an academic advisor or program website for the full list of approved electives.

Scheduling requirements may prevent all courses from being offered every term. Consultation with an advisor is critical to a student's selection of courses.

¹ MED060 is the best choice for students instead of MTH060 or BA180. MED060 helps the student to be best prepared for the career field

PROGRAM ENTRANCE REQUIREMENTS

Academic Entrance Requirement

Recommended:

- Students not knowing how to keyboard should take OA110 their first term.
- Although there is no application process for this program, please be advised that most area medical offices and clinics do thorough background history checks and drug screens prior to employment, including cooperative work experience placement. Felony records can cause difficulty in getting hired in a medical field.

OFFICE TECHNOLOGY

Medical Billing and Collections Clerk Certificate

PROGRAM DESCRIPTION

Students gain theoretical knowledge and practical skills that will help them to succeed as entry-level outpatient medical billing and collections clerks.

PROGRAM OUTCOMES

Students who successfully complete the Medical Billing and Collections Clerk certificate will:

1. Demonstrate professional skills that will assure workplace success
2. Communicate effectively using oral and written skills
3. Exhibit critical thinking and decision-making skills
4. Utilize appropriate technology relevant to the profession

CAREER CONSIDERATIONS

When finished with the Medical Billing and Collections Clerk Certificate, students will have completed a significant portion of the AAS degree in Medical Office Administration. Students wishing to continue their education should have an easy transition to the AAS and beyond.

PROGRAM COURSE REQUIREMENTS

Year One

CIS 120	Intro to Computer Information Systems	4
CWE 161	CWE Seminar I	1
MED 111	Medical Terminology I*	3
MED 112	Medical Terminology II*	3
MED 114	Medical Coding for the Physician's Office	3
MED 115	Anatomy and Physiology for Medical Assistants	3
MED 140	Electronic Health Records	3
MED 220	Medical Office Procedures I*	3
MED 221	Medical Office Procedures II*	3
MED 230	Health Insurance Concepts	3
MED 231	Health Care Reimbursement and Collections	3
OA 115	Administrative Office Professional	3
OA 116	Records Management	2
OA 131	Ten-Key Calculator	1
SDP 109	Elements of Supervision*	3
WR 115	English Composition: Intro to Expository Writing* (or higher)	4

Choose One:

BA 180 ¹	Business Mathematics I	3
MED 060	Math for the Medical Assistant	3
MTH 060 ¹	Introduction to Algebra	4

Choose One:

PSY 101	Psychology of Human Relations	3
SP 105	Listening	3
SP 218	Interpersonal Communication	3
SP 219	Small Group Discussion	3

Total Credits 51

¹A grade of C or better must be attained in the courses indicated.

**Please see an academic advisor or program website for the full list of approved electives.

Scheduling requirements may prevent all courses from being offered every term. Consultation with an advisor is critical to a student's selection of courses.

¹ MED060 is the best choice for students instead of MTH060 or BA180. MED060 helps the student to be best prepared for the career field

PROGRAM ENTRANCE REQUIREMENTS

Academic Entrance Requirement

Recommended:

- Prerequisite skills: Touch typing skills of at least 20 wpm at 95% accuracy
- Although there is no application process for this program, please be advised that most area medical offices and clinics do thorough background history checks and drug screens prior to employment, including cooperative work experience placement. Felony records can cause difficulty in getting hired in a medical field.

OFFICE TECHNOLOGY

Microsoft Office Technologist Pathway Certificate

PROGRAM DESCRIPTION

This certificate program is designed to provide students with advanced skills in Microsoft Office applications such as Access, Excel, Outlook, PowerPoint, and Word. Students completing each course in the series will be better prepared to sit for and pass the Microsoft certification exam applicable to each Office application.

PROGRAM OUTCOMES

Students who successfully complete the Microsoft Office Technologist Certificate will:

1. Develop advanced skills in applicable Microsoft Office applications
2. Demonstrate the skills to complete the Microsoft Certification Exam for each applicable Microsoft Office application

CAREER CONSIDERATIONS

This certificate is a pathway to Executive Business Assistant AAS.

PROGRAM COURSE REQUIREMENTS

Year One

CIS 125D	Computer Applications – Database	3
CIS 125E	Computer Applications – Email	2
CIS 125R	Computer Applications – Presentation Software	2
CIS 125S	Computer Applications – Spreadsheets	3
CIS 125W	Computer Applications – Word Processing	3

Total Credits 13

Scheduling requirements may prevent all courses from being offered every term. Consultation with an advisor is critical to a student's selection of courses.

PROGRAM ENTRANCE REQUIREMENTS

Academic Entrance Requirement

Recommended:

- Students entering the program are expected to have basic keyboarding and computer skills with business application software such as Word and Excel. If these skills are needed, students should take Intro to Computer Information Systems (CIS 120) during the first term at UCC.

OFFICE TECHNOLOGY

Office Assistant Certificate

PROGRAM DESCRIPTION

The Office Assistant certificate program is designed to provide basic training in office skills and business knowledge that is expected in the business world today. The curriculum prepares students for entry-level positions such as clerks, receptionists or office assistants.

PROGRAM OUTCOMES

Students who successfully complete the Office Assistant Certificate will:

1. Demonstrate professional skills that will assure workplace success
2. Communicate effectively using oral and written skills
3. Exhibit critical thinking and decision-making skills
4. Utilize appropriate technology relevant to the profession

CAREER CONSIDERATIONS

When finished with the Office Assistant Certificate, students will have completed a significant portion of the Executive Business Assistant AAS Degree. Students wishing to continue their education should have an easy transition to the AAS and beyond.

PROGRAM COURSE REQUIREMENTS

Year One

BA 151	Practical Accounting I	4
BA 165	Customer Service	3
BA 180	Business Math I	3
CIS 120	Intro to Computer Information Systems	4
CWE 161	CWE Seminar I	1
OA 115	Administrative Office Professional	3
OA 116	Records Management	2
OA 123	Formatting	4
OA 124A	Keyboarding Skill Enhancement	3
OA 128	Editing for Business	3
OA 131	Ten-Key Calculator	1
OA 250	General Office Procedures	3
WR 115	English Composition: Intro to Expository Writing* (or higher)	4

**Approved Elective 4

Choose One:

PSY 101	Psychology of Human Relations	3
SP 105	Listening	3
SP 218	Interpersonal Communication	3
SP 219	Small Group Discussion	3

Total Credits 45

*A grade of C or better must be attained in the courses indicated.

**Please see an academic advisor or program website for the full list of approved electives.

Scheduling requirements may prevent all courses from being offered every term. Consultation with an advisor is critical to a student's selection of courses.

PROGRAM ENTRANCE REQUIREMENTS

Academic Entrance Requirement

Recommended:

- Although there is not a formal application or acceptance process for this program, students should be advised that many businesses do thorough background checks and drug screens prior to employment, including cooperative work experience placements. If starting the program outside of the fall term, students should work closely with the advisor when planning their schedule.

OFFICE TECHNOLOGY

Executive Business Assistant
Associate of Applied Science

PROGRAM DESCRIPTION

This program is designed to prepare individuals for professional office positions. During the first year of preparation, emphasis is placed upon building basic office skills. The second year is primarily devoted to courses in this specialty area.

PROGRAM OUTCOMES

Students who successfully complete the Associate of Applied Science degree in Executive Business Assistant will:

1. Demonstrate professional skills that will assure workplace success
2. Communicate effectively using oral and written skills
3. Exhibit critical thinking and decision-making skills
4. Utilize appropriate technology relevant to the profession

PROGRAM COURSE REQUIREMENTS

Year One

BA 101	Introduction to Business	4
BA 116	Principles of Financial Services	4
BA 165	Customer Service	3
BA1 80	Business Math I	3
CIS 120	Intro to Computer Information Systems	4
CIS 125S	Computer Applications – Spreadsheets	3
CIS 125W	Computer Applications – Word Processing	3
OA 115	Administrative Office Professional	3
OA 116	Records Management	2
OA 123	Formatting	4
OA 124A	Keyboarding Skill Enhancement	3
OA 128	Editing for Business	3
OA 131	Ten-Key Calculator	1
WR 115	English Composition: Intro to Expository Writing (or higher)	4

Choose One:

BA 250	Managing a Small Business	3
SDP 109	Elements of Supervision	3

Year Two

BA 151 ¹	Practical Accounting I	4
BA 152 ¹	Practical Accounting II	3
BA 214	Business Communications*	3
BA 218	Personal Finance	3
BA 226	Business Law	4
BA 253	Social Media Marketing*	3
BA 280C	Cooperative Work Experience: Management	6

CIS 125D	Computer Applications – Database	3
CIS 125E	Computer Applications – Email	2
CIS 125R	Computer Applications – Presentation Software	2
CWE 161	CWE Seminar I	1
OA 225	Document Processing*	3
OA 245	Office Administration	1
OA 250	General Office Procedures*	3
OA 260	Principles of Office Management	3

*A grade of C or better must be attained in the courses indicated.

Total Credits 91

Scheduling requirements may prevent all courses from being offered every term. Consultation with an advisor is critical to a student's selection of courses.

¹ BA211 and BA212 can be taken and substituted for the BA151 and BA152. Please see the Department Chair for assistance.

With carefully planning, students may be able to earn other certificates: Office Assistant, Microsoft Technologist and Financial Services.

PROGRAM ENTRANCE REQUIREMENTS

Academic Entrance Requirement

Recommended:

- Although there is not a formal application or acceptance process for this program, students should be advised that many businesses do thorough background checks and drug screens prior to employment, including cooperative work experience placements. If starting the program outside of fall term, students should work closely with the advisor when planning their schedule.

OFFICE TECHNOLOGY

Medical Office Administration
Associate of Applied Science

PROGRAM DESCRIPTION

This program is for those who wish to work in the healthcare field but are not interested in direct patient care. An associate of applied science in Medical Office Administration can prepare students for administrative jobs in physician offices, medical clinics, or medical centers and hospitals. In these positions, they would be responsible for assisting doctors, physicians and surgeons with clerical work. Common duties might include scheduling, answering phones, deciphering insurance regulations, coding, billing, transcribing medical documents, handling payroll, managing patient records, writing reports and preparing professional correspondence.

PROGRAM OUTCOMES

Students who successfully complete the Medical Office Administration degree will:

1. Demonstrate professional skills that will assure workplace success
2. Communicate effectively using oral and written skills
3. Exhibit critical thinking and decision-making skills
4. Utilize appropriate technology relevant to the profession

CAREER CONSIDERATIONS

When students complete their course of study in Medical Office Administration, they will also have completed the two certificates – Front Office Medical Assistant and Medical Billing and Collections Clerk.

The Medical Office Administration AAS degree program articulates with the Bachelors of Applied Science in Management at Southern Oregon University (SOU).

Interested students should make contact with an advisor at SOU as early as possible.

PROGRAM COURSE REQUIREMENTS

Year One

BA 165	Customer Service	3
CIS 120	Intro to Computer Information Systems	4
CWE 161	CWE Seminar I	1
MED 111	Medical Terminology I*	3
MED 112	Medical Terminology II*	3
MED 140	Electronic Health Records	3
MED 220	Medical Office Procedures I*	3
MED 221	Medical Office Procedures II*	3
MED 230	Health Insurance Concepts	3
OA 115	Administrative Office Professional	3
OA 116	Records Management	2
OA 124A	Keyboarding Skill Enhancement	3
OA 131	Ten-Key Calculator	1
SDP 109	Elements of Supervision*	3
WR 115	English Composition: Intro to Expository Writing* (or higher)	4

Choose One:

MED 060	Math for the Medical Assistant	3
MTH 060 ¹	Introduction to Algebra	4
BA 180 ¹	Business Mathematics I	3

Choose One:

PSY 101	Psychology of Human Relations	3
SP 105	Listening	3
SP 218	Interpersonal Communication	3
SP 219	Small Group Discussion	3

Year Two

BA 101	Introduction to Business	4
BA 214	Business Communications	3
BA 226	Business Law	4
MED 114	Medical Coding for the Physician's Office	3
MED 115	Anatomy & Physiology for Medical Assistants	3
MED 231	Health Care Reimbursement and Collections	3
MED 260	Medical Document Processing	3
OA 123	Formatting	4
OA 128	Editing for Business	3
OA 245	Office Administration	1
OA 260	Principles of Office Management	3
OA 280C	CWE: Administrative Medical Assistant	3

Choose One:

BA 151	Practical Accounting I	4
BA 211	Principles of Accounting I	3

Choose One:

BA 152	Practical Accounting II	3
BA 212	Principles of Accounting II	3

Total Credits 91

*A grade of C or better must be attained in the courses indicated. Scheduling requirements may prevent all courses from being offered every term. Consultation with an advisor is critical to a student's selection of courses.

¹ MED060 is the best choice for students instead of MTH060 or BA180. MED060 helps the student to be best prepared for the career field

PROGRAM ENTRANCE REQUIREMENTS

Academic Entrance Requirement

Recommended:

- Although there is no application process for this program, please be advised that most area medical offices and clinics do thorough background history checks and drug screens prior to employment, including cooperative work experience placement. Felony records can cause difficulty in getting hired in a medical field.

PARALEGAL STUDIES

Legal Assistant Certificate

PROGRAM DESCRIPTION

The Legal Assistant one-year certificate is designed to prepare students with basic competencies and practical skills necessary to obtain entry-level work or continue towards their AAS in Paralegal Studies.

PROGRAM OUTCOMES

Students who successfully complete the Legal Assistant Certificate will:

1. Apply professional skills to assure workplace success
2. Communicate effectively
3. Demonstrate use of current technology and processes
4. Think critically and creatively to solve problems

CAREER CONSIDERATIONS

The legal assistant one-year certificate prepares students for entry-level jobs and future careers in the following areas: law firms, businesses, insurance companies, financial institutions, public agencies, title companies, and government offices.

PROGRAM COURSE REQUIREMENTS

Year One

BA 180	Business Math	3
LA 100	Legal Procedures I	4
LA 101	Intro to Paralegal Studies	3
LA 102	Legal Terminology	3
LA 105	Civil Procedures	3
LA 128	Legal Procedures II	4
LA 132	Ethics for Legal Professionals	3
LA 280	Cooperative Work Experience	2
OA 128	Editing for Business	3
WR 121	Academic Composition	4
1 course from approved Human Relations (see page 43)		3
*Approved electives		10

*Please see an academic advisor for the full list of approved electives.

A grade of C or better must be attained in all LA courses or courses must be retaken.

Total Credits 45

PARALEGAL STUDIES

Paralegal Studies Associate of Applied Science

PROGRAM DESCRIPTION

The Paralegal Studies program is designed to prepare students with both a theoretical understanding of the world of law and the practical skills necessary to succeed.

PROGRAM OUTCOMES

Students who successfully complete the Associate of Applied Science degree in Paralegal Studies will:

1. Demonstrate various skills and aspects of the paralegal profession.
2. Conduct and document online legal research with accurate methods of citation
3. Develop and edit legal documents using relevant legal terminology and current technology
4. Apply professional skills and ethical standards expected of a paralegal

CAREER CONSIDERATIONS

The Paralegal Studies program prepares students for entry level jobs and future careers in the following areas: law firms, businesses, insurance companies, financial institutions, public agencies, title companies, and government offices.

PROGRAM COURSE REQUIREMENTS

Year One

BA 180	Business Math	3
LA 100	Legal Procedures I	4
LA 101	Intro to Paralegal Studies	3
LA 102	Legal Terminology	3
LA 105	Civil Procedures	3
LA 128	Legal Procedures II	4
LA 132	Ethics for Legal Professionals	3
LA 280	Cooperative Work Experience	2
OA 128	Editing for Business	3
WR 121	Academic Composition	4
1 course from approved Human Relations (see page 43)		3
*Approved electives		10

Year Two

BA 101	Intro to Business	4
BA 226	Business Law	4
BA 231	Computers in Business	4
LA 204	Legal Research and Writing I	4
LA 205	Legal Research and Writing II	4
LA 208	Family Law	3
LA 210	Wills, Probate, and Estates	3
LA 217	Real Estate Law	3
LA 224	Torts, Pleading, and Estates	3
LA 226	Criminal Law	3
LA 280	Cooperative Work Experience	4
*Approved Electives		6

*Please see an academic advisor for the full list of approved electives.

A grade of C or better must be attained in all LA courses or courses must be retaken.

Total Credits (minimum) 90

PROGRAM ENTRANCE REQUIREMENTS

Academic Entrance Requirement

- Working knowledge of MS Word
- Recommended:
- Recommended Keyboarding speed of 45 WPM or take OA110 or OA124
 - Students with a criminal record are strongly urged to research employability before entering the paralegal program. If students enter the program with a felony conviction, they should disclose this information to their paralegal advisor and any Cooperative Work Experience (CWE) employer.

REGISTERED NURSING

Registered Nursing
Associate of Applied Science

PROGRAM DESCRIPTION

Nursing offers the satisfaction of making immediate differences in other people's lives. It is a dynamic, humanistic, and scientific discipline which diagnoses and treats actual or potential health problems. Nursing is a rigorous, intellectual discipline requiring people with critical and decision-making skills. A successful candidate for the nursing profession should have a genuine desire to help people, a strong commitment to career development, the ability to use scientific information and be a team player.

Program Accreditation: Oregon State Board of Nursing (OSBN) Approved to 2027 (next site survey).

PROGRAM OUTCOMES

Nursing care competencies recognize that a competent nurse provides safe care across the lifespan directed toward the goals of helping clients (individuals, families or communities), promote health, recover from acute illness and/or manage a chronic illness and support a peaceful and comfortable death. As a member of the Oregon Consortium for Nursing Education, UCC Nursing curriculum supports the following nursing competencies. A competent nurse:

1. Bases personal and professional actions on a set of shared core nursing values
2. Uses reflection, self-analysis, and self-care to develop insight
3. Engages in intentional learning
4. Demonstrates leadership in nursing and healthcare
5. Collaborates as part of a health care team
6. Practice within, utilizes, and contributes to all health care systems
7. Practices relationship-centered approach
8. Communicates effectively
9. Makes sound clinical judgements
10. Locates, evaluates, and uses the best available evidence

CAREER CONSIDERATIONS

The Nursing program prepares students for jobs and future careers in the following areas: Long Term Care, Hospital, Medical Offices, Home Health, Rehabilitation, and more.

PROGRAM COURSE REQUIREMENTS

Year One

NRS 110 ¹	Foundations of Nursing – Health Promotions	9
NRS 111	Foundations of Nursing in Chronic Illness	6
NRS 112	Foundations of Nursing Acute Care	6
NRS 221	Nursing Chronic Illness II & end of Life	9
NRS 222	Nursing in Acute Care II	9
NRS 224	Scope of Practice and Preceptorship	9

NRS 230	Clinical Pharmacology I	3
NRS 231	Clinical Pharmacology II	3
NRS 232	Pathophysiological Processes I	3

Total Credits 60

Year Two

Prerequisites*

BI 222	Intro to Genetics	3
BI 231	Human Anatomy & Physiology	4
BI 232	Human Anatomy & Physiology	4
BI 233	Human Anatomy & Physiology	4
BI 234	Microbiology	3
FN 225	Human Nutrition	4
HDFS 201	Individual and Family Development	3
MTH 095	Intermediate Algebra (or above)	4
WR 121	Academic Composition	4
WR 122	Argument, Research, and Multimodal Comp	4
or WR 227	Technical Writing	4

College level courses (numbered 100 and above) to include One Psychology and Two Social Sciences AND/OR Arts & Letters electives

Total Credits 47

*All Required Prerequisite courses must be completed with C or better and a minimum prerequisite GPA of 3.00 is required to apply.

¹ To be admitted into NRS 110, students must complete all required prerequisite and preparatory course and be accepted into the Nursing program.

For more information regarding the program, selection process, and points contact the Nursing program: 541 440-4614.

Students who plan to continue through to OHSU must be aware that to earn the bachelor's degree, they must have two years of the same high school-level World Language, or two terms of the same college-level language, or a language proficiency examination. College-level World Language (including American sign language) credits count toward degree requirement.

Students planning to earn a bachelor's degree are encouraged to continue on to MTH 243 Probability & Statistics soon after their prerequisite math course.

Human Anatomy & Physiology must be completed within last five (5) years.

Chemistry required prior to taking Human Anatomy & Physiology

REGISTERED NURSING, continued

Registered Nursing
Associate of Applied Science

PROGRAM ENTRANCE REQUIREMENTS

Academic Entrance Requirement

The application process begins in mid-November of each calendar year with the deadline for submission of applications around February 15. Students are eligible to be considered for admission to the nursing program after completing 30 credit hours of courses from the Required Prerequisite Courses listed below. The 30 credits must include BI 231 Anatomy and Physiology I and either MTH 095 (or higher) or placement into MTH 105 (or higher) by the application deadline.

Drug Screening:

All nursing students must successfully pass a drug screening test at the time of admission into the Nursing Program and are subject to random drug screening throughout the program. Failure to submit to a random drug screen or having a positive drug screen will result in sanctions per the UCC Student Code of Conduct (721.3).

Background Check:

All accepted nursing students will be required to undergo a background check prior to entering the program. Individuals with a criminal record may not be allowed into a healthcare facility as a student. Information pertaining to background checks and disqualifying crimes can be found at the OSBN web site: <https://www.oregon.gov/OSBN/Pages/index.aspx>. Because it is not possible to meet the objectives of the program without having clinical experience, anyone with a positive criminal or abuse history may not be eligible for acceptance into the Nursing program. The program may deny admission or continuation in the nursing program to any nursing student whose background poses a threat to an individual, the college, the nursing profession or the community.

Immunization Status and Completion of Health History:

All accepted students will be required to provide evidence of their current immunization status and a completed health history and physical exam, including specific lab tests and a hearing screening evaluation.

CPR-BLS:

Show proof of a current healthcare provider CPR card that includes adult, child and infant CPR & AED.

Graduation Requirements

These requirements apply only to nursing students admitted to the program during the current academic year. Students must complete all courses on this advising guide with a grade of C or better to continue in and complete the program, receive their degrees, and meet the educational requirements to apply to take the national licensure exam (NCLEX-RN). The OSBN screens all applicants for licensure and may deny licensure to or place on probation applicants with convictions for certain crimes. Licensure

applicants with a history of chemical dependence will be required to have a drug and alcohol counselor assessment. Contact the OSBN with any questions

OHSU Connection:

Students should understand that although co-admitted to the Oregon Health Sciences University School of Nursing, those who choose to transition from the UCC Nursing Program to OHSU will have to undergo a background check for OHSU at the time of transition and ability to enroll in OHSU courses may be negatively impacted by any background history in their background.

TRUCKING AND TRANSPORTATION LOGISTICS

Professional Truck Driver Certificate

PROGRAM DESCRIPTION

This statewide Professional Truck Driver Certificate program is designed to prepare students to take the Oregon State Commercial Driver's License test and meet the requirements of industry as well as a statewide community college certificate. The UCC Professional Truck Driver certificate includes classroom training covering log books, trip planning, and hours of service. This is followed by road/yard training covering; behind-the wheel driving, entry-level driver training, backing, chaining up, and completion of the CDL drive test. In order to obtain the Certificate, students also take the Transportation Customer Service course and complete a minimum of 100 hours of Cooperative Work Experience which includes a sixteen hour seminar.

PROGRAM OUTCOMES

Students who successfully complete the Professional Truck Driving Certificate will:

1. Demonstrate characteristics of a professional commercial truck driver
2. Perform tractor-trailer driving techniques
3. Demonstrate the basic techniques for coupling/uncoupling
4. Use visual search, speed and space management, and proper procedures for operating at night and driving in extreme weather
5. Inspect and maintain tractor and trailers
6. Demonstrate proper communication and reporting techniques
7. Apply knowledge of cargo documentation, hours of service regulations, accident reporting, trip planning, driver wellness, and safety documentation
8. Demonstrate technical skills necessary to pass the Commercial Drivers License (CDL) skills test and enter the Trucking Industry as an entry-level tractor-trailer driver

CAREER CONSIDERATIONS

The program utilizes a career-pathway model which allows for immediate employment after two classes and with additional coursework the opportunity to complete an industry endorsed career-technical certificate of completion.

PROGRAM COURSE REQUIREMENTS

Year One

TTL 101	*Introduction to Professional Truck Driving and Logistics	4
TTL 121	Practical Applications in Professional Truck Driving and Logistics	6
TTL 141	**Transportation and Logistics Customer Service Skills	1-3
TTL 281	**Cooperative Work Experience Transportation	6
Total Credits (minimum)		17

* Required for Oregon CDL and Certificate

** Required for Certificate

Students will be issued a certificate of completion when they have successfully completed all program requirements. Pre-registration is required.

PROGRAM ENTRANCE REQUIREMENTS

Academic Entrance Requirement

Applicants for the Truck Driver Training program must:

- Be 21 years of age unless employed or pre-approved by a trucking company
- Have a clear driving record for the past 5 years
- Complete an application packet
- Complete and pass a DOT physical and Drug Screen

VITICULTURE & ENOLOGY

Viticulture One-Year Certificate

PROGRAM DESCRIPTION

The one-year certificate program in Viticulture prepares students for entry into the industry and is the first year of the two year AAS degree. The certificate program includes an introduction to grape growing, basic principles of soil science, vineyard practices throughout all four seasons, and supervised practical work experience. Students must be at least 18 years of age.

PROGRAM OUTCOMES

Students who successfully complete the 1 year certificate in Viticulture will:

1. Recognize the basic properties of soils and manage organic matter in soils
2. Recognize vine plant diseases and insects
3. Demonstrate the ability to prune grapevines
4. Create and institute a plan to prepare the vineyard for each season
5. Identify and treat soil problems, toxicities and deficiencies
6. Conduct soil, water, and plant tissue laboratory analysis
7. Manage mineral nutrition of grapevines
8. Identify effects of fertilizer applications
9. Demonstrate knowledge of water relations in plants and soils
10. Control erosion and implement effective irrigation practices
11. Plan and complete a fruit sampling program to include: laboratory evaluation of fruit and measurement of fruit maturity for different vineyard blocks
12. Evaluate the ripening patterns of different grape varieties and variation due to vineyard site differences

CAREER CONSIDERATIONS

The Viticulture certificate program prepares students for entry level jobs and future careers in the following areas: Vineyard Technicians/Managers/Owners & Consultants.

PROGRAM COURSE REQUIREMENTS

Year One

CH 104	Introductory Chemistry	4
or CH 221	General Chemistry	5
MTH 095	Intermediate Algebra (or higher)	4
SPAN 121	Spanish in the Workplace for Viticulture	4
VE 101	Introduction to the Wine Industry	1
VE 102	Integrated Pest Control for Grapes	4
VE 103	Vineyard Soils, Plant Nutrition & Irrigation	4
VE 110	Vineyard Practices I	4
VE 111	Vineyard Practices II	4
VE 112	Vineyard Practices III	4
VE 201	Wine Making for Viticulturists	3
VE 280	Cooperative Work Experience	
	Viticulture & Enology	4
VITPSY 000	Viticulture Human Relations options*	3
WR 115	Introduction to Expository Writing (or higher)	4
*APPROVED HUMAN RELATIONS OPTIONS		
PSY 101	Psychology of Human Relations	3
SP 105	Listening	3
SP 218	Interpersonal Communication	3
SP 219	Small Group Discussion	3
Total Credits		47-48

Please see an advisor for a degree planning worksheet for this program. Scheduling requirements may prevent all courses from being offered every term. Consultation with an advisor is critical to student's selection of courses.

CWE can be taken in 1-4 credit increments. 33 hrs = 1 credit

PROGRAM AND COURSE FEES

The following courses have an Online/Hybrid fee of \$25 per class: VE 101, 102, 103, 110, 111, 112.

The following course has a \$75 lab fee: VE 201.

VITICULTURE & ENOLOGY

Wine Marketing Assistant One-Year Certificate

PROGRAM DESCRIPTION

The Wine Marketing Assistant Pathway Certificate includes parts both the full Viticulture and Enology one-year certificate and two-year degree that prepare students for entry level positions in wine sales and distribution. Students can continue with either the Viticulture/Enology program or augment business skills. Students completing the program will be able to demonstrate understanding of the role and function of marketing in the wine industry; familiarity with the basic chemistry of winemaking; ability to conduct sensory evaluations of wine; and knowledge of worldwide wine varieties, regions, and markets. Students must be over 18 years of age to participate in wine tastings.

PROGRAM OUTCOMES

Students who successfully complete the Wine Marketing Assistant 1 year certificate will:

1. Demonstrate knowledge of the role and function of marketing in the wine industry
2. Explain the basis chemistry of wine making
3. Conduct sensory evaluations of wine
4. Demonstrate knowledge of worldwide wine varieties, regions and markets

CAREER CONSIDERATIONS

The Wine Marketing Assistant certificate program prepares students for entry level jobs and future careers in the following areas: Retail Wine Sales, Tasting Room Management, Distributor Wine Sales.

PROGRAM COURSE REQUIREMENTS

Year One

VE 101	Introduction to the Wine Industry	1
VE 201	Wine Making for Viticulturists	3
VE 202	Sensory Evaluation of Wine	4
VE 203	Wines of Europe	3
VE 204	Wines of the Southern Hemisphere	3
VE 205	Wines of North America	3
VE 223	Wine Marketing	3
Total Credits		20

Please see an advisor for a degree planning worksheet for this program. Scheduling requirements may prevent all courses from being offered every term. Consultation with an advisor is critical to student's selection of courses.

CWE can be taken in 1-4 credit increments. 33 hrs = 1 credit

PROGRAM AND COURSE FEES

The following course has a \$25 online fee: VE 101.
The following course has a \$75 hybrid/lab fee: VE 201.
The following courses have a \$125 hybrid/lab fee: VE 203, 204, 205.
The following course has a \$150 hybrid/lab fee: VE 202.

VITICULTURE & ENOLOGY

Viticulture and Enology Associate of Science

PROGRAM DESCRIPTION

The Viticulture & Enology AAS program prepares students for entry into the industry in production and sales as winemaking technicians, vineyard and winery owners, and vintners. The Viticulture & Enology AAS degree program includes an introduction to grape growing, basic principles of soil science, vineyard and winery practices throughout all four seasons, chemistry of the winemaking process, principles of wine production, and supervised practical work experience. The curriculum builds on the one year certificate in viticulture and students receive the AAS degree as well as the viticulture and wine marketing assistant certificates. Students must be at least 18 years of age to participate in wine tasting.

PROGRAM OUTCOMES

Students who successfully complete the AAS degree in Viticulture and Enology will:

1. Apply basic principles and techniques of wine sensory evaluation
2. Conduct Statistical Analysis of sensory evaluation trials and preference test trials
3. Identify and compare wine traits, types, and styles.
4. Read and interpret results of analysis performed by commercial laboratories
5. Perform basic chemical analysis and calculations for testing wine during all stages of production and take appropriate steps to mitigate defects
6. Operate and maintain winery equipment
7. Demonstrate knowledge of marketing and distribution principles for wine cluster industries

CAREER CONSIDERATIONS

The Viticulture and Enology program prepares students for jobs and future careers in the following areas: Winemaking Technicians, Vineyard and Winery Managers/Owners, and Vintners.

PROGRAM COURSE REQUIREMENTS

Year One

MTH 095	Intermediate Algebra (or higher)	4
SPAN 121	Spanish in the Workplace for Viticulture	4
VE 101	Introduction to the Wine Industry	1
VE 102	Integrated Pest Control for Grapes	4
VE 103	Vineyard Soils, Plant Nutrition & Irrigation	4
VE 110	Vineyard Practices I	4
VE 111	Vineyard Practices II	4
VE 112	Vineyard Practices III	4

VE 201	Wine Making for Viticulturists	3
VE 280	Cooperative Work Experience Viticulture & Enology	6
VITPSY 000	Viticulture human relations options*	3
WR 115 (or higher)	Introduction to Expository Writing	4

Year Two

CH 104 or CH 221	Introductory Chemistry General Chemistry	4 5
CH 105 or CH 222	Introduction to Chemistry General Chemistry	4 5
CH 106	Introduction to Chemistry	4
Or CH 223	General Chemistry	5
VE 202	Sensory Evaluation of Wine	4
VE 203	Wines of Europe	3
VE 204	Wines of the Southern Hemisphere	3
VE 205	Wines of North America	3
VE 209	Laboratory Analysis of Musts & Wines	4
VE 210	Science of Wine Making I	5
VE 211	Science of Wine Making II	5
VE 212	Science of Wine Making III	5
VE 223	Wine Marketing	3
VE 280	Cooperative Work Experience	6
*APPROVED HUMAN RELATIONS OPTIONS		
PSY 101	Psychology of Human Relations	3
SP 105	Listening	3
SP 218	Interpersonal Communication	3
SP 219	Small Group Discussion	3

Total Credits 96

Please see an advisor for a degree planning worksheet for this program. Scheduling requirements may prevent all courses from being offered every term. Consultation with an advisor is critical to student's selection of courses.

CWE can be taken in 1-4 credit increments. 33 hrs = 1 credit

PROGRAM AND COURSE FEES

The following courses have an Online/Hybrid fee of \$25 per class: VE 101, 102, 103, 110, 111, 112, 223.

The following courses have a \$75 hybrid/lab fee: VE 201, 209, 210, 211, 212.

The following courses have a \$125 hybrid/lab fee: VE 203, 204, 205.
The following course has a \$150 hybrid/lab fee: VE 202.

WELDING

Aluminum Only Pathway Certificate

PROGRAM DESCRIPTION

Aluminum is the metal of the future. It is 1/3 the weight of steel, has an excellent strength to weight ratio, is virtually corrosion resistant, and is 100% recyclable. These material properties and many more are making Aluminum the choice metal for future engineering applications around the world. This material is not difficult to weld, it's just different, and should not be treated like steel. In this series of courses, the student will learn the differences in metallurgy, filler metal selection, process applications, fabrication techniques, and weld procedure development. Graduates will have the knowledge and skills that are required to achieve entry-level positions as aluminum welders and fabricators. Basic tools and PPE for fabrication and welding are required; a list of tools are available from the welding instructors. The Welding Department seeks to maximize the ability of its graduates to compete in the job market by offering relevant and up-to-date course in welding technology.

PROGRAM OUTCOMES

Students who successfully complete the Welding Certificate will:

1. Apply fundamentals of welding, including the basics of common joining processes, cutting and gouging, measurement, fabrication, repair, material identification, and visual acceptance criteria
2. Interpret and apply basic elements of blueprints such as line type identification, symbols, notes, 2D and 3D interpretation, dimensioning and measurement
3. Exhibit "soft skills" such as: timeframe awareness, follow-through and completion of work, positive interactions with fellow classmates, good communication, positive attitude, and good work ethics
4. Demonstrate a knowledge and understanding of safe working conditions, as well as, safety in handling materials, equipment, and personal protective equipment
5. Identify basic components of welding systems and welding processes, proper machine setup, and demonstrate troubleshooting when visual acceptance criteria of a weldment has not been met
6. Apply knowledge of Weld Procedure Specifications or WPS's as they relate to material identification, thermal and electrical properties, applications, as well as, understanding which materials will need special procedures for preheat and post heating, filler metal selection, process selection, and other essential variables involved in the fabrication of a weldment
7. Apply knowledge of national standards and guidelines set forth by AWS, ASME, API, OSHA, and other governing organizations that will affect their work

CAREER CONSIDERATIONS

The Welding program prepares students for entry level jobs and future careers in the following areas: welders, welder operators, and fabricators.

PROGRAM COURSE REQUIREMENTS

Year One

MTH 052	Intro Algebra for the Trades	4
WLD 101	Processes & Applications	4
WLD 140	Blueprint Reading	3
WLD 150	GTAW – I	3
WLD 160	Aluminum Arc Welding & Fab - I	3
WLD 261	Aluminum Arc Welding & Fab - II	3
WLD 262	Aluminum Arc Welding & Fab - III	3

Total Credits 23

PROGRAM ENTRANCE REQUIREMENTS

Academic Entrance Requirement

Recommended:

- A construction background or prior welding experience are helpful but not a requirement.
- Students with a criminal record are strongly urged to research employability before entering the Human Service field. If students enter the program with a felony conviction, they should realize the impact on employment. Background checks are a requirement.

WELDING

Welding One-Year Certificate

PROGRAM DESCRIPTION

The welding program focuses on skills sets required to meet or exceed industry standards and the American Welding Society (AWS). Basic tools and PPE for fabrication and welding are required, a list of tools are available from the welding instructors. The Welding Department seeks to maximize the ability of its students to compete in the job market by offering relevant and up to date courses in welding technology.

To achieve this goal, the department emphasizes current technology trends in both the welding shop and classroom environment. Welding courses are offered during the day and in the evening. In addition, courses are adapted to meet the diverse needs of the student, potential employers, and respond to changes and advancements in the welding industry.

The UCC Welding program is an Educational Institutional Member of the American Welding Society, and offers AWS - SENSE curriculum and certificates.

PROGRAM OUTCOMES

Students who successfully complete the Welding Certificate will:

1. Apply fundamentals of welding, including the basics of common joining processes, cutting and gouging, measurement, fabrication, repair, material identification, and visual acceptance criteria
2. Interpret and apply basic elements of blueprints such as line type identification, symbols, notes, 2D and 3D interpretation, dimensioning and measurement
3. Exhibit "soft skills" such as: timeframe awareness, follow-through and completion of work, positive interactions with fellow classmates, good communication, positive attitude, and good work ethics
4. Demonstrate a knowledge and understanding of safe working conditions, as well as, safety in handling materials, equipment, and personal protective equipment
5. processes, proper machine setup, and demonstrate troubleshooting when visual acceptance criteria of a weldment has not been met
6. Apply knowledge of Weld Procedure Specifications or WPS's as they relate to material identification, thermal and electrical properties, applications, as well as, understanding which materials will need special procedures for preheat and post heating, filler metal selection, process selection, and other essential variables involved in the fabrication of a weldment
7. Apply knowledge of national standards and guidelines set forth by AWS, ASME, API, OSHA, and other governing organizations that will affect their work

CAREER CONSIDERATIONS

The Welding program prepares students for entry level jobs and future careers in the following areas: welders, welder operators, and fabricators.

PROGRAM COURSE REQUIREMENTS

Year One

MFG 108	Starrett: PMI	2
MTH 052	Intro Algebra for the Trades	4
SP 105	Listening	3
WLD 101	Processes & Applications	4
WLD 111	SMAW	4
WLD 112	SMAW – I	3
WLD 113	SMAW – II	3
WLD 114	SMAW – III	3
WLD 121	GMAW	3
WLD 122	GMAW – Pulse	3
WLD 131	Basic Metallurgy	3
WLD 140	Blueprint Reading	3
WLD 141	FCAW – GS	3
WLD 142	FCAW – S	3
WLD 150	GTAW – I	3
WLD 160	Aluminum Arc Welding & Fab – I	3
WR 115	Intro Expository Writing	4

Total Credits 51

PROGRAM ENTRANCE REQUIREMENTS

Academic Entrance Requirement

Recommended:

- A construction background or prior welding experience are helpful but not a requirement.
- Students with a criminal record are strongly urged to research employability before entering the welding program. If students enter the program with a felony conviction, they should disclose this information to their welding advisor and any Cooperative Work Experience (CWE) employer.

WELDING

Welding
Associate of Applied Science

PROGRAM DESCRIPTION

The second year AAS degree in welding focuses on advanced skills sets required for the pressure piping and boiler fabrication. Industry standards set forth by AWS (American Welding Society), API (American Petroleum Institute), and ASME-Section IX (American Society of Mechanical Engineers) will be covered. Basic tools and PPE for fabrication and welding are required, a list of tools are available from the welding instructors. The Welding Department seeks to maximize the ability of its students to compete in the job market by offering relevant and up to date courses in welding technology.

To achieve this goal, the department emphasizes current technology trends in both the welding shop and classroom environment. Welding courses are offered during the day and in the evening. In addition, courses are adapted to meet the diverse needs of the student, potential employers, and respond to changes and advancements in the welding industry.

The UCC Welding program is an Educational Institutional Member of the American Welding Society, and offers AWS - SENSE curriculum and certificates.

PROGRAM OUTCOMES

Students who successfully complete the Welding Certificate will:

1. Apply fundamentals of welding, including the basics of common joining processes, cutting and gouging, measurement, fabrication, repair, material identification, and visual acceptance criteria
2. Interpret and apply basic elements of blueprints such as line type identification, symbols, notes, 2D and 3D interpretation, dimensioning and measurement
3. Exhibit "soft skills" such as: timeframe awareness, follow-through and completion of work, positive interactions with fellow classmates, good communication, positive attitude, and good work ethics
4. Demonstrate a knowledge and understanding of safe working conditions, as well as, safety in handling materials, equipment, and personal protective equipment
5. Identify basic components of welding systems and welding processes, proper machine setup, and demonstrate troubleshooting when visual acceptance criteria of a weldment has not been met
6. Apply knowledge of Weld Procedure Specifications or WPS's as they relate to material identification, thermal and electrical properties, applications, as well as, understanding which materials will need special procedures for preheat and post heating, filler metal selection, process selection, and other essential variables involved in the fabrication of a weldment.
7. Apply knowledge of national standards and guidelines set forth by AWS, ASME, API, OSHA, and other governing organizations that will affect their work

CAREER CONSIDERATIONS

The Welding program prepares students for entry level jobs as pipe fitters, pipe welders, and fabricators.

PROGRAM COURSE REQUIREMENTS

Year One

MFG 108	Starrett: PMI	3
MTH 052	Intro Algebra for the Trades	4
SP 105	Listening	3
WLD 101	Processes & Applications	4
WLD 111	SMAW	4
WLD 112	SMAW – I	3
WLD 113	SMAW – II	3
WLD 114	SMAW – III	3
WLD 121	GMAW	3
WLD 122	GMAW – Pulse	3
WLD 131	Basic Metallurgy	3
WLD 140	Blueprint Reading	3
WLD 141	FCAW – GS	3
WLD 142	FCAW – S	3
WLD 150	GTAW – I	3
WR 115	Intro Expository Writing	4

Year Two

DRF 112	Computer Aided Drafting – I	3
WLD 123	Advanced Welding – III	3
WLD 251	GTAW – II	3
Program Option		3-credit min.
MFG 111	Machine Shop Practices – I	4
WLD 124	Advanced Welding – IV	3
WLD 252	GTAW – III	3
WLD 222	Pipe Welding & Fitting – I	3
Program Option		3-credit min.
DRF 113	Computer Aided Drafting – II	3
MFG 112	Machine Shop Practices – II	3
WLD 161	Welding Problems	4
WLD 223	Pipe Welding & Fitting – II	3
WLD 240	Blueprint Reading – II	3
Program Option		3-credit min.

Total Credits (minimum) 97

WELDING, continued

Welding
Associate of Applied Science

Program Options

CWE:

This program option presents CWE or Cooperative Work Experience for the second year welding student. This traditional program option would allow the welding student to do on the job training with a local welding manufacturing facility. Qualified students will work at training sites that provide experience appropriate to their major. These experiences will provide the opportunity for students to gain knowledge of the various tasks performed in their career field. A student may take any number of CWE credits per term, not to exceed 13 credits per year. Prerequisite: Instructor approval and satisfactory completion of first year welding certificate program 1 credit = 33 hours of lab

Year Two (suggested)

FALL	WLD 280	CWE: Welding	3
WINTER	WLD 280	CWE: Welding	3
SPRING	WLD 280	CWE: Welding	3

ALUMINUM:

This program option was designed to develop a student's knowledge and manipulative skills in the use of Aluminum and Aluminum alloys. Course work related to this program option will focus on materials and processes related to aluminum and aluminum manufacturing industries. Students interested in this program option will concentrate on the understanding of traditional, nontraditional, and advanced welding and fabrication methods for aluminum only.

Year Two (suggested)

FALL	WLD 160	Aluminum Arc Welding I	3
WINTER	WLD 261	Aluminum Arc Welding II	3
SPRING	WLD 262	Aluminum Arc Welding III	3

ENGINEERING:

This program option will present an opportunity for welding students that may have the desire and skills to do more project planning and design related to the welding and manufacturing industries. Course work for to this program option will contain more Auto CAD courses in engineering such as; Structural and Civil 3D Auto CAD. This option will allow the welding students to take CAD courses in the place of some of their CWE credits.

Year Two (suggested)

FALL	WLD 280	CWE: Welding	3
WINTER	CIV 214	Computer Aided Drafting - Civil3D and Virtual Design	3
SPRING	DRF 116	Computer Aided Drafting - Design	3

PROGRAM ENTRANCE REQUIREMENTS

Academic Entrance Requirement

Recommended:

- A construction background or prior welding experience are helpful but not a requirement.
- Students with a criminal record are strongly urged to research employability before entering the welding program. If students enter the program with a felony conviction, they should disclose this information to their welding advisor and any Cooperative Work Experience (CWE) employer.