



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

*“Certificate of Completion” means a form of recognition awarded by a community college for meeting minimum occupational course, curriculum or proficiency requirements. Certificates of completion must be state-approved, have a defined job entry point, represent collegiate-level work, **be credit bearing**, and meet Higher*

Education Coordinating Commission (HECC) standards and criteria. OAR 589-006-0050 (12)

The term “certificate” may not be used for recognition/attendance awards and/or to imply equivalence to a Certificate of Completion.

Taxonomy/Requirements

Certificates range from 12-108 credits, and in clock hours from 180 -1,350. Certificates of Completion are identified in OAR 589-006-0100 (6) as:

- Less than one year,
- One year,
- Greater than one year, and
- Two years.

The taxonomy of Certificates of Completion includes:

1. Related to an AAS degree
2. Related to a larger Certificates of Completion program or an independent award
 - Related to an existing AAS degree
 - Related an existing Certificate of Completion
3. Independent new program

The HECC requirements for Certificates of Completion are set forth in OAR 589-006-0100 (8). Certificates of completion must:

- Include at least 12 credits; and

- Be no more than 108 credits; and
- Have a recognizable core of general education or related instruction courses for programs one-year or more in length; and
- Have an established standard of academic achievement; and
- Demonstrate occupational content leading to employment; and
- Meet or exceed the local community college board of education program approval standards; and
- Meet or exceed the Higher Education Coordinating Commission program approval standards and criteria.

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 Certificates of Completion on page 42).

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. Three (3) 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



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APPRENTICESHIP TECHNOLOGIES

Electrician Apprenticeship Technologies Certificate

PROGRAM MISSION

The Electrical Apprenticeship Technologies certificate prepares students for advanced-level job and journeyman careers.

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 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. Complete 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 National Electric Code	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

Total Credits 54

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
BA 101	Introduction to Business	4
CIS 120	Introduction to Digital Literacy	4
CIS 125D	Microcomputer Applications – Database	3
CIS 125S	Computer Applications Spreadsheets	3
HPE 295	Wellness & Health Assessment	3
SDP 109	Elements of Supervision	3

Additional Related Instruction – 6 credits

MTH 95 or higher	4
WR 122 or higher	4

Human Relations Course

HD 136	Strategies for Success	3
PSY 101	Psychology of Human Relations	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

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

APPRENTICESHIP TECHNOLOGIES

Electrician Apprenticeship Technologies Associate of Applied Science

PROGRAM MISSION

The Electronic Apprenticeship Technologies program prepares students for advanced-level jobs and journeyman careers.

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 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 accurate measurements, calculations and use of equipment

2. Demonstrate knowledge of electrical fundamentals and safety
3. Complete Electrical Code and Exam Prep
4. Earn a trade-specific Oregon State License Journeyman Card upon successful completion of the Building Codes Division electrical journeyman test

CAREER CONSIDERATIONS

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

- Licensed Journeyman Inside Electrician
- Licensed Manufacturing Plant Electrician

Electrical Apprenticeship Technology graduate may continue education at Oregon Institute of Technology for obtaining an Operations Management Bachelor of Science degree or Technology & Management Bachelor of Applied Science.

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 National Electric Code	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 Exam Prep	3

APPRENTICESHIP TECHNOLOGIES, continued

Electrician Apprenticeship Technologies Associate of Applied Science

Additional Related Instruction – 37 credits

HUMAN RELATIONS COURSE		3
HD 136	Strategies for Success	3
PSY 101	Psychology of Human Relations	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)	English Composition: Introduction to Expository Writing	4

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
BA 101	Introduction to Business	4
CIS 120	Introduction to Digital Literacy	4
CIS 125D	Microcomputer Applications - Database	3
CIS 125S	Computer Applications Spreadsheets	3
HPE 295	Wellness & Health Assessment	3
SDP 109	Elements of Supervision	3

PROGRAM ENTRANCE REQUIREMENTS

Academic Entrance Requirement

- JATC Approval

APPRENTICESHIP TECHNOLOGIES

Industrial Mechanics and Maintenance Technology Apprenticeship Certificate

PROGRAM MISSION

The Industrial Mechanics and Maintenance Technology Apprenticeship program prepares students for advanced-level jobs and journeyman careers.

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 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	Industrial Applications of Math	3
or MTH 075	Applied Geometry	3

APPRENTICESHIP TECHNOLOGIES, continued

Industrial Mechanics and Maintenance Technology Apprenticeship Certificate

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	Introduction to Digital Literacy	4

Additional Related Instruction

HUMAN RELATIONS COURSE:

HD 136	Strategies for Success	3
PSY 101	Psychology of Human Relations	3
SDP 113	Human Relations/Supervisors	3
SP 105	Listening	
SP 218	Interpersonal Communication	3
SP 219	Small Group Discussion	3
WR 115 (or higher)	English Composition: Introduction to Expository Writing	4

Approved Electives

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

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 Digital Literacy	4
CIS 125D	Microcomputer Applications - Database	3
CIS 125S	Computer Applications Spreadsheets	3
HPE 295	Wellness & Health Assessment	3
SDP 109	Elements of Supervision	3

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 MISSION

The Industrial Mechanics and Maintenance Technology Apprenticeship program prepares students for advanced-level jobs and journeyman careers.

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 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
5. Prepare for State Licensing Exam for Journeyman Status

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	Industrial Applications of Math	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

APPRENTICESHIP TECHNOLOGIES, continued

Industrial Mechanics and Maintenance Technology Apprenticeship Associate of Applied Science

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	Introduction to Digital Literacy	4

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

Additional Related Instruction

HUMAN RELATIONS COURSE:

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

Approved Electives

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

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 Digital Literacy	4
CIS 125D	Microcomputer Applications - Database	3
CIS 125S	Computer Applications Spreadsheets	3
HPE 295	Wellness & Health Assessment	3
SDP 109	Elements of Supervision	3

PROGRAM ENTRANCE REQUIREMENTS

Academic Entrance Requirement

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

APPRENTICESHIP TECHNOLOGIES

Limited Maintenance Electrician Apprenticeship Technologies Certificate

PROGRAM MISSION

The Limited Maintenance Electrician Apprenticeship Technologies Certificate program prepares students for entry-level jobs and future careers.

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 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. Complete 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 National Electric Code	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 Technology One-Year Certificate

*Pending approval from Higher Education
Coordinating Commission (HECC)

PROGRAM MISSION

The Automotive Technology program provides quality education and hands-on training to prepare students for successful entry into the Automotive Technology career field. The program prepares students to further their education for those wishing to obtain a higher degree.

PROGRAM DESCRIPTION

The Automotive Technology Certificate program is committed to providing students with a wide range of knowledge and skills applicable to entry-level jobs as a certified automotive technician.

PROGRAM OUTCOMES

Students who successfully complete the Automotive Technology Certificate will:

1. Apply fundamentals of automotive service training, including the basics of automotive diagnostics and repair, pre-delivery inspection, and warranty procedure.
2. Diagnose, service, and repair automotive internal combustion engines
3. Diagnose, service, and repair automotive brakes
4. Diagnose, service, and repair electronic engine controls and emission systems
5. Diagnose, service, and repair automotive electrical systems
6. Diagnose, service, and repair automotive drive trains
7. Diagnose, service, and repair automotive climate control systems

CAREER CONSIDERATIONS

The Automotive Technology Certificate will provide training in the skills needed for an entry-level position as a technician in most automotive dealerships and repair shops.

PROGRAM COURSE REQUIREMENTS

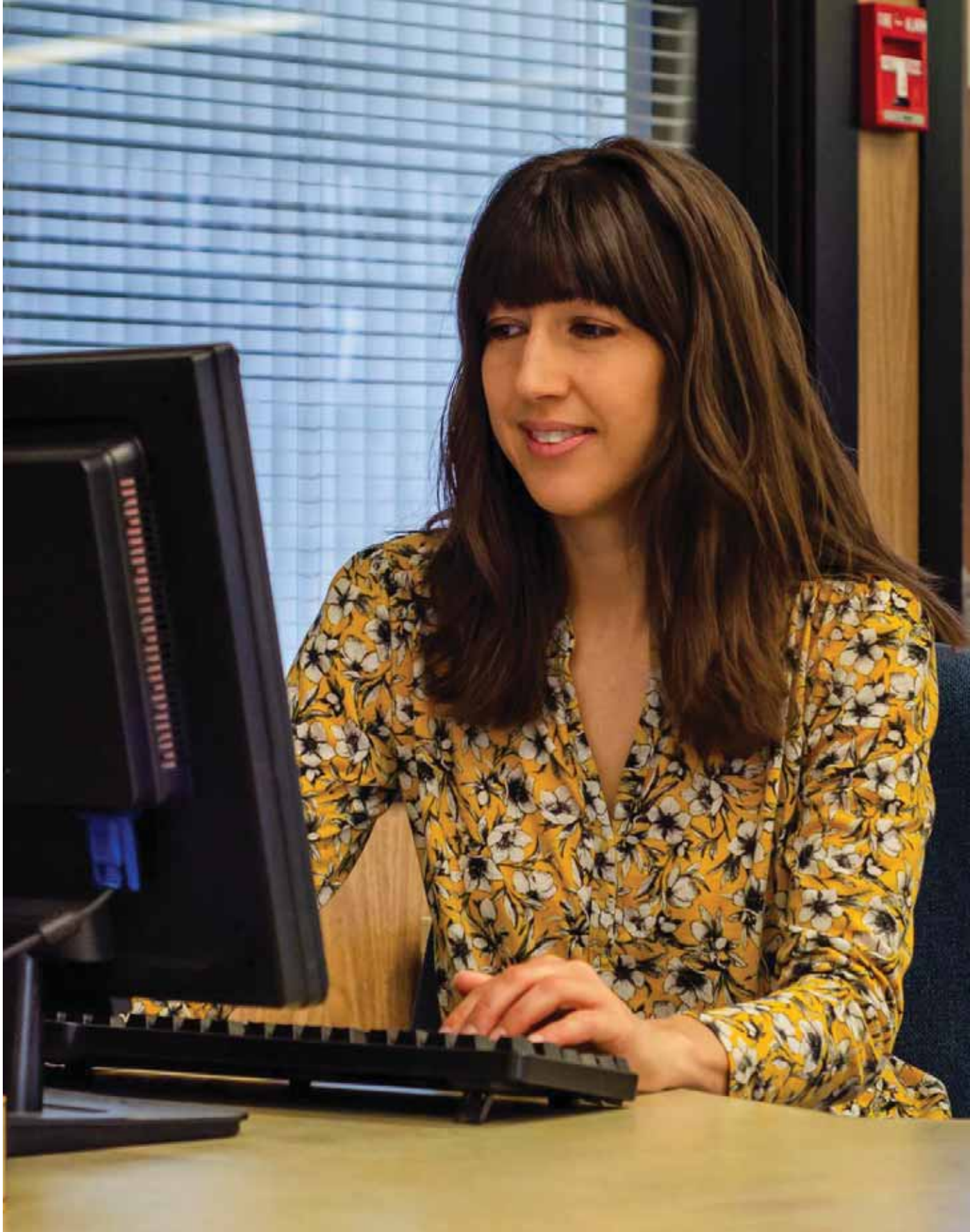
AUT 100	Orientation to Automotive Technology	2
AUT 111	Engine Repair & Maintenance	6
AUT 113	Drive Trains	6
AUT 114	Suspension and Steering	6
AUT 115	Braking Systems	6
AUT 116	Electrical/Electronic Systems	6
AUT 118	Engine Performance & Drivability	6
AUT 127	Climate Control & Advanced Electrical	6
AUT 129	Light Vehicle Diesel Engines	6
HD 136	Strategies for Success	3
MTH 052	Industrial Applications of Math (or higher)	4
WR 115 (or higher)	English Composition: Introduction to Expository Writing	4

Total Credits 61

PROGRAM ENTRANCE REQUIREMENTS

Admission Requirements

- Complete online response form upon entering/registering for the program.
- A basic tool set is required of all entering students. The list of tool requirements is available through the automotive department.



BUSINESS ADMINISTRATION

Business Administration Associate of Science

PROGRAM MISSION

The Business Administration degree prepares students by creating a foundation of knowledge and skills in the business administration environment.

PROGRAM DESCRIPTION

The Business Administration degree is designed to prepare students for a career that includes the business functions of accounting, management, motivating and managing employees, communication, marketing, a leadership role, and business terminology. This degree prepares students to transfer as juniors to SOU and OSU to obtain a bachelor's degree.

PROGRAM OUTCOMES

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

1. Explain basic business functions and their integration into the business environment
2. Demonstrate effective oral and written communication skills
3. Apply critical thinking and decision-making skills
4. Distinguish the importance of an ethical work environment
5. Apply information and technology tools relevant to the profession

CAREER CONSIDERATIONS

Business Administration AS degree prepares students for management positions, supervisor, office manager, business manager, customer service manager, social media marketing manager, public relations manager, and other business management focused careers.

PROGRAM COURSE REQUIREMENTS

Year One

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

Choose One:

MTH 105	Math in Society	4
MTH 111	College Algebra	4

Choose One:

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

Choose One:

WR 122	Argument, Research, and Multimodal Comp*	4
*Approved Elective		6
*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	Macroeconomics	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: sou.edu Additional courses may be needed.
- See Oregon State University transfer: 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 Pathway Certificate

PROGRAM MISSION

The Entrepreneurship Pathway Certificate prepares students by building a foundation for creating and managing a small business.

PROGRAM DESCRIPTION

The Entrepreneurship Pathway Certificate offers students the 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. Explain basic small business management functions and their integration into the business environment
2. Demonstrate effective oral and written communication skills
3. Apply critical thinking and decision-making skills
4. Distinguish the importance of an ethical work environment
5. Apply information and technology tools relevant to the profession

CAREER CONSIDERATIONS

Entrepreneurship careers can be starting a small business or managing a small business. The business can be for themselves or for other business owners. In addition, the skills learned can be used in a management or supervisory position.

PROGRAM COURSE REQUIREMENTS

Year One

BA 101	Introduction to Business	4
BA 150	Developing a Small Business	4
BA 180	Business Math I	3
BA 206	Management Fundamentals	3
BA 223	Principle of Marketing	3
BA 226	Business Law	4
BA 250	Managing a Small Business	3
BA 280C	Cooperative Work Experience: Management	3
*Approved Electives		12
Choose One:		
BA 211	Principles of Accounting I	3
BA 233	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.

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 Introduction to Digital Literacy (CIS 120) during the first term at UCC.

Approved Electives

BA 165, BA 207, BA 214, BA 222, BA 238, BA 239, BA 249, CIS 125D, CIS 195, SDP 104, SDP 208, SDP 223, WR 121, WR 227.

BUSINESS TECHNOLOGY

Financial Services Certificate

PROGRAM MISSION

The Financial Services Certificate is designed to prepare students with the training and skills needed for employment in an entry-level financial service position. Students will gain the theoretical knowledge and will learn practical skills necessary for success in this field.

PROGRAM DESCRIPTION

The Financial Services Certificate is designed to prepare students for entry-level teller positions in banks or credit unions.

PROGRAM OUTCOMES

Students who successfully complete the Financial Services Certificate will:

1. Explain basic entry-level financial services industry functions and their integration into the banking and credit union industry
2. Demonstrate effective oral and written communication skills
3. Apply critical thinking and decision-making skills
4. Distinguish the importance of an ethical work environment
5. Apply information and technology tools relevant to the profession

CAREER CONSIDERATIONS

Entry-level teller positions in banks or credit unions.

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	Introduction to Digital Literacy	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 MISSION

The Retail Management Certificate (RMC) is an accredited business program designed to help incumbent workers develop the skills necessary for career advancement.

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

Year One

BA 206	Management Fundamentals	3
BA 214	Business Communications	3
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

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 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 MISSION

The Supervision Certificate prepares students by creating a foundation of skills and knowledge in the business environment.

PROGRAM DESCRIPTION

The Supervision Certificate provides students with supervisory skills and business management fundamentals used in coaching, motivating and managing employees.

PROGRAM OUTCOMES

Students who successfully complete the Supervision Certificate will:

1. Explain basic supervisor functions and their integration into the business environment
2. Demonstrate effective oral and written communication skills
3. Apply critical thinking and decision-making skills
4. Distinguish the importance of an ethical work environment
5. Apply information and technology tools relevant to the profession

CAREER CONSIDERATIONS

Entry-level supervision positions, line supervisor, staff supervisor, business manager, customer service supervisor, and other supervision focused careers.

PROGRAM COURSE REQUIREMENTS

Year One

BA 101	Introduction to Business	4
CIS 120	Introduction to Digital Literacy	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 Introduction to Digital Literacy (CIS 120) during the first term at UCC.

Approved Electives

Courses from these areas:

BA, SDP, CIS, SP, PSY, MED, WR.

BUSINESS TECHNOLOGY

Business Management Associate of Applied Science

PROGRAM MISSION

The Business Management Program prepares students by creating a foundation of knowledge and skills in the business management environment.

PROGRAM DESCRIPTION

The two-year Business Management degree is designed to prepare students for career and leadership roles in accounting, management, motivating and managing employees, communication, and marketing.

PROGRAM OUTCOMES

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

1. Explain basic management functions and their integration into the business environment
2. Demonstrate effective oral and written communication skills
3. Apply critical thinking and decision-making skills
4. Distinguish the importance of an ethical work environment
5. Apply information and technology tools relevant to the profession

CAREER CONSIDERATIONS

Entry-level management positions, supervisor, office manager, business manager, customer service manager, social media marketing manager, public relations manager, and other business management focused careers.

PROGRAM COURSE REQUIREMENTS

Year One

BA 101	Introduction to Business*	4
BA 106	Business Leadership	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
SDP 109	Elements of Supervision	3
SDP 208	Human Resources for Supervisors	3
SP 111	Fundamentals of Public Speaking*	4
WR 121	Academic Composition*	4
WR 122	Argument, Research & Multimodal Comp*	4
WR 227	Technical Report Writing*	4

Year Two

BA 128	Accounting Applications I*	2
BA 150	Developing a Small Business	4
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 231	Computers in Business*	4
BA 233	Accounting for Managers	4
BA 238	Professional Selling*	3
BA 239	Advertising*	3
BA 249	Retailing	3
BA 250	Managing a Small Business	3
BA 253	Social Media Marketing	3
ECON 115	Introduction to Economics	3
SDP 113	Human Relations for Supervisors	3

*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.

Placement scores indicating MTH 020 or higher and WR 115 or higher are required for entry into the program.

Total Credits 92

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 Introduction to Computer Information Systems (CIS120) during their first term at UCC.

BUSINESS TECHNOLOGY

Marketing

Associate of Applied Science

PROGRAM MISSION

The Marketing Program prepares students by creating a foundation of knowledge and skills in the business marketing environment.

PROGRAM DESCRIPTION

The two-year Marketing degree is designed to prepare students for a career and leadership role in marketing by developing the student's skills in building customer value and satisfaction, supervising employees, communication, and business terminology.

PROGRAM OUTCOMES

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

1. Explain basic marketing functions and their integration into the business environment
2. Demonstrate effective oral and written communication skills
3. Apply critical thinking and decision-making skills
4. Distinguish the importance of an ethical work environment
5. Apply information and technology tools relevant to the profession

CAREER CONSIDERATIONS

Entry-level marketing positions, sales, customer service relations, social media marketing, public relations, advertising, and other marketing focus careers.

PROGRAM COURSE REQUIREMENTS

Year One

BA 101	Introduction to Business*	4
BA 106	Business Leadership**	3
BA 180	Business Math I	3
BA 181	Business Math II	3
BA 214	Business Communications*	3
BA 223	Principles of Marketing*	3
SDP 109	Elements of Supervision	3
SDP 208	Human Resources for Supervisors	3
SP 111	Fundamentals of Public Speaking*	4
WR 121	Academic Composition*	4
WR 122	Argument, Research & Multimodal Comp*	4

Year Two

BA 128	Accounting Applications I	2
BA 150	Developing a Small Business	4
BA 165	Customer Service	3
BA 206	Management Fundamentals	3
BA 207	Introduction to e-Commerce	3
BA 226	Business Law*	4
BA 231	Computers in Business	4
BA 233	Accounting for Managers	4
BA 238	Professional Selling*	3
BA 249	Retailing*	3
BA 250	Managing the Small Business	3
BA 253	Social Media Marketing	3
BA 239	Advertising*	3
ECON 201	Microeconomics*	4
SDP 113	Human Relations for Supervisors	3
WR 227	Technical Report Writing*	4

Placement scores indicating MTH 020 or higher and WR 115 or higher are required for entry into the program.

Retail Management Certificate students should meet their advisor for an adjusted term-by-term planner.

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

BA 101 Introduction to Business should be taken during the first term or as soon as possible.

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

Total Credits 90

PROGRAM ENTRANCE REQUIREMENTS

- 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, you should take Introduction to Computer Information Systems (CIS120) during your first term at UCC. Placement scores indicating MTH 020 or higher and WR 115 or higher are required for entry into the program.

COMMUNICATIONS STUDIES

Public Relations Specialist One-Year Certificate

PROGRAM MISSION

The mission of the Public Relations Specialist One-Year Certificate is to prepare students for employment in Public Relations and communication-related jobs by educating them in the fundamental concepts and knowledge needed to communicate effectively and collaboratively with stakeholders in public.

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	Introduction 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	4
VC 130	Introduction to Photoshop	3
WR 121	Academic Composition**	4
Approved Elective***		3
BA 223	Principles of Marketing*	3
J 205	Introduction to Public Relations	3
J 211	Introduction 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 designed to prepare students for employment in the computer area, while developing general problem-solving and troubleshooting skills that can be applied to networking, server, computer, web, and business programming environments.

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

- Computer Information Systems (90 credit minimum)
- Cybersecurity (92 credit minimum)

COMPUTER INFORMATION SYSTEMS

Cisco Networking Security Support Technician Pathway Certificate

*Pending approval from Higher Education Coordinating Commission (HECC)

PROGRAM MISSION

The Cisco Networking Security Support Technician certificate program provides students with a quality education that motivates them to reach their full potential through up-to-date Cisco Networking Academy course content, relevant lab experiences, and real-world course material.

PROGRAM DESCRIPTION

The Cisco Networking Security Support Technician is designed to equip students to analyze, design, and implement network systems, troubleshoot and solve problems, and demonstrate the skills necessary to obtain entry-level employment, or earn an AAS degree in a Computer Information Systems degree program.

PROGRAM OUTCOMES

Students who successfully complete the Cisco Networking Security Support Technician Pathway 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 140L	Introduction to Linux Operating System	4
or CIS 140M	Introduction to Microsoft Operating Systems	4
CIS 151C	Introduction to Networks	4
CIS 152C	Switching, Routing and Wireless Essentials	4
CIS 153C	Enterprise Networking, Security, & Automation	4
CIS 240M	Installing and Configuring Microsoft Windows Server	4

Total Credits 20

COMPUTER INFORMATION SYSTEMS

Computer Information Systems Certificate

PROGRAM MISSION

The Computer Information Systems program provides students with a quality education that motivates them to reach their full potential through up-to-date entry-level course content, relevant lab experiences, and real-world work experience.

PROGRAM DESCRIPTION

The Computer Information Systems (CIS) One-Year Certificate is designed to prepare students for entry-level employment in the computer area, 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 Computer Information Systems Pathway Certificate will:

1. Develop critical thinking and problem-solving skills by working with hardware, networks, and software through programming logic and hands-on lab assignments
2. Install and configure various operating systems
3. Use Microsoft Office applications to solve common business problems

CAREER CONSIDERATIONS

The one-year certificate program is designed to prepare students for employment in (or for a job path leading to) any one of several entry-level career opportunities as listed by the Oregon Department of Labor. The Network and Computer Systems Administrator, 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.

PROGRAM COURSE REQUIREMENTS

Year One

CIS 120	Introduction to Digital Literacy	4
CIS 122	Orientation to Programming	4
CIS 133	Introduction to Programming I	4
CIS 140M or CIS 140L	Introduction to Microsoft Operating Systems Introduction to Linux Operating System	4 4
CIS 151C	Introduction to Networks	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 47

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

COMPUTER INFORMATION SYSTEMS

Junior Database Administrator Pathway Certificate

PROGRAM MISSION

The Junior Database Administrator certificate is to provide students with a quality education that motivates students to reach their full potential through up-to-date database course content, and outstanding instruction.

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 Junior Database Administrator Pathway 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 233CS	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 MISSION

The Junior Programmer certificate is to provide students with a quality education that motivates students to reach their full potential through up-to-date programming course content, and outstanding instruction.

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 Junior Programmer Pathway 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 122	Orientation to Programming	4
CIS 133CS	Introduction to Programming I	4
CIS 233CS	Introduction to Programming II	4

Total Credits 12

COMPUTER INFORMATION SYSTEMS

Junior Web Developer Pathway Certificate

PROGRAM MISSION

The Junior Web Developer certificate is to provide students with a quality education that motivates students to reach their full potential through up-to-date web development course content, and outstanding instruction.

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 Junior Web Developer Pathway 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

CIS 195	Authoring for the World Wide Web I	4
CIS 295	Authoring for the World Wide Web II	4
CIS 275	Introduction to Database Management Systems I	4

Total Credits 12

COMPUTER INFORMATION SYSTEMS

Microsoft Networking Support Technician Pathway Certificate

PROGRAM MISSION

The Microsoft Networking Support Technician certificate provides students with a quality education that motivates them to reach their full potential through up-to-date Windows desktop and Server administration course content, relevant lab experiences, and real-world work experience.

PROGRAM DESCRIPTION

The Microsoft Networking Support Technician Pathway Certificate is designed to prepare students to analyze, design, implement, and support Windows desktop systems and Servers. Students will also develop the 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 Microsoft Networking Support Technician Pathway 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 Windows desktops and Servers 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 MISSION

The Server Administrator certificate provides students with a quality education that motivates them to reach their full potential through up-to-date Windows Server administration course content, relevant lab experiences, and real-world work experience.

PROGRAM DESCRIPTION

The Server Administrator Pathway Certificate is designed to prepare students to configure, update, and administer Windows Servers. Students will also develop the 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 Server Administrator Pathway Certificate will:

1. Be prepared for entry- or mid-level employment in Microsoft Windows Server administration.
2. Develop Windows server administration skills.

CAREER CONSIDERATIONS

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

The Computer Information Systems program provides students with a quality education that motivates them to reach their full potential through up-to-date course content, relevant lab experiences, and real-world work experience.

PROGRAM DESCRIPTION

The Computer Information Systems (CIS) program is designed to prepare students for employment in the computer area, 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 critical thinking and problem-solving skills by working with hardware, networks, and software through programming logic and hands-on lab assignments
2. Install and configure various operating systems
3. Use Microsoft Office applications to solve common business problems
4. Demonstrate the skills necessary for entry- or mid-level employment in the Computer Information Systems field

CAREER CONSIDERATIONS

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.

PROGRAM COURSE REQUIREMENTS

Year One

CIS 120	Introduction to Digital Literacy	4
CIS 122	Orientation to Programming	4
CIS 133CS	Introduction to Programming I	4
CIS 140M or CIS 140L	Introduction to Microsoft Operating Systems Introduction to Linux Operating System	4 4
CIS 151C	Introduction to Networks	4
CIS 233CS	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
Electives from the approved list below*		3
BA 101, BA 214, BA 218, BA 226, ENGR 111, ENGR 112A, ENGR 112B, HPE 295, WR 122, WR 227		

Year One Credits 50

Year Two

CIS 125D	Computer Applications – Database Software	3
CIS 125S	Computer Applications – Spreadsheets	3
CIS 152C	Switching, Routing and Wireless Essentials	4
CIS 153C	Enterprise Networking, Security, & Automation	4
CIS 195	Authoring for the World Wide Web I	4
CIS 276	Introduction to Data Management Systems II	4
CIS 280	Cooperative Work Experience: CIS	2
CIS 284	Network Security Fundamentals	4
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 40

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

COMPUTER INFORMATION SYSTEMS

Cybersecurity Associate of Applied Science

*Pending approval from Higher Education Coordinating Commission (HECC)

PROGRAM MISSION

The Cybersecurity program provides students with a quality education that motivates them to reach their full potential through up-to-date cybersecurity course content, relevant lab experiences, and real-world work experience.

PROGRAM DESCRIPTION

The Computer Information Systems: Cybersecurity program is a two-year sequence of classes designed to prepare the student for employment in the computer/cybersecurity employment area.

Further, this degree adds hands-on training in ethical hacking, computer hardware, computer forensics and security operations, cloud services, virtualization, switches, and routers. Students will also 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 database systems. Finally, the program develops critical thinking along with verbal and written communication skills.

PROGRAM OUTCOMES

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

1. Develop critical thinking and problem-solving skills by working with hardware, networks, and software through programming logic and hands-on lab assignments.
2. Install and configure various operating systems.
3. Use Microsoft Office applications to solve common business problems.
4. Employ common cybersecurity practices to eliminate or mitigate threats.
5. Demonstrate the skills necessary for entry- or mid-level employment in the cybersecurity.

CAREER CONSIDERATIONS

The Computer Information Systems: Cybersecurity program is designed to prepare the student for employment in the computer/cybersecurity employment area. Job titles include computer programmer, computer support technician, cybersecurity technician, network administrator, or web designer, while developing general problem-solving and troubleshooting skills that can be applied to business, computer, networking, server, and web environments

PROGRAM COURSE REQUIREMENTS

Year One

CIS 120	Introduction to Digital Literacy	4
CIS 122	Orientation to Programming	4
CIS 133CS	Introduction to Programming I	4
CIS 140M or CIS 140L	Introduction to Microsoft Operating Systems Introduction to Linux Operating System	4 4
CIS 151C	Introduction to Networks	4
CIS 233CS	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 47

Year Two

CIS 145	Computer Forensics for Ethical Hackers	4
CIS 152C	Switching, Routing and Wireless Essentials	4
CIS 153C	Enterprise Networking, Security, and Automation	4
CIS 195	Authoring for the World Wide Web I	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 285C	Cloud Services 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 45

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

COMPUTER SCIENCE General ASOT-CS Degree

Computer Science

Associate of Science Oregon Transfer

PROGRAM MISSION

Computer Science (CS) is the study of programs, data, computing machinery, and how these interact. The CS degree is computer science-focused, lower-division, general education requirements accepted by public universities in Oregon.

PROGRAM DESCRIPTION

The Computer Science program is to provide students with a quality education that motivates students to reach their full potential through computer programming, and computer logic skills necessary for transfer, career success, and lifelong learning.

PROGRAM OUTCOMES

Students who complete the Computer Science AS 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. Evaluate and compare different algorithms applicable to a given task

CAREER CONSIDERATIONS

Computer science knowledge is built upon 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.

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.

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* or 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	Introduction to Networks***	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*** or 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.

COMPUTER SCIENCE, continued

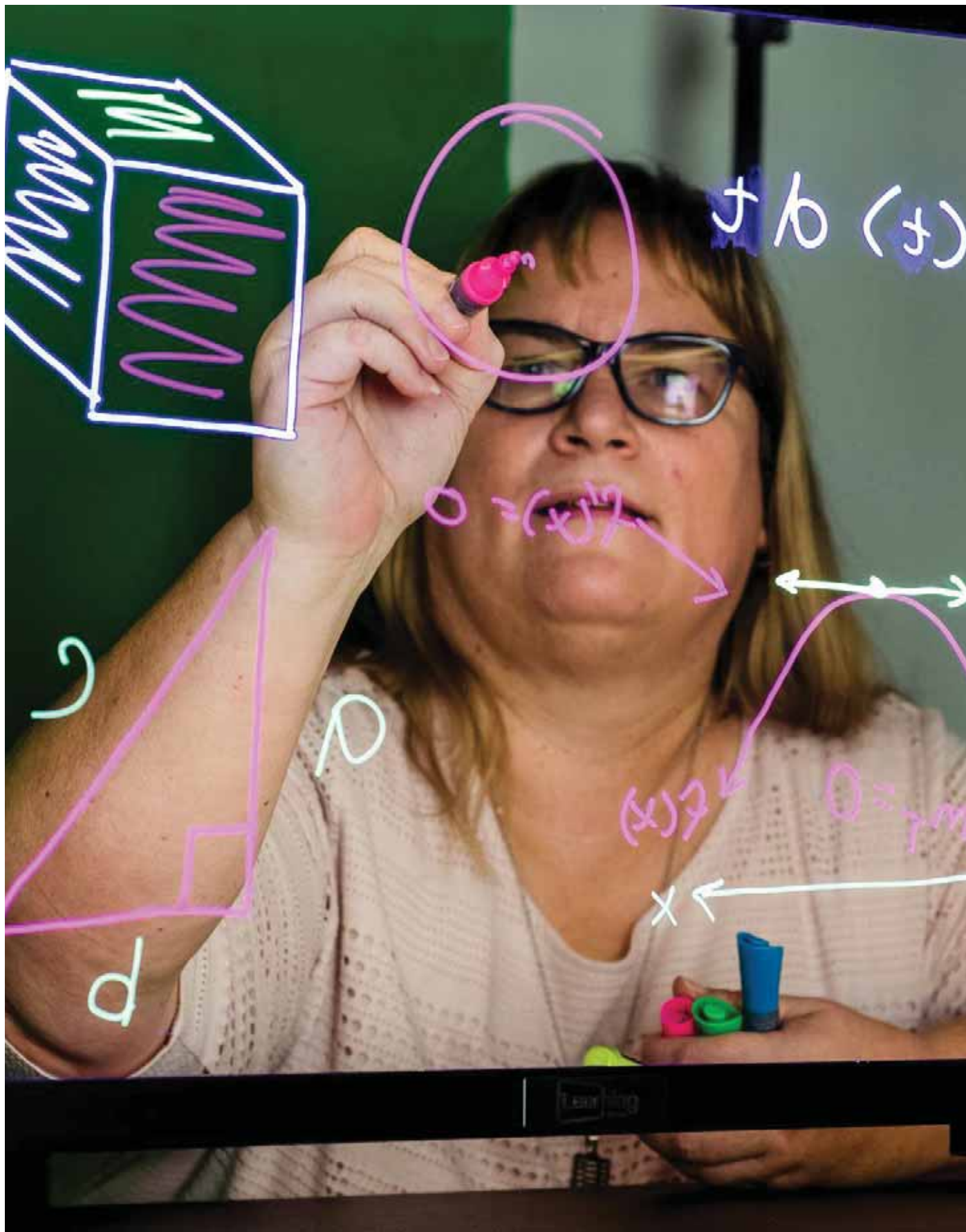
General ASOT-CS Degree

Computer Science

Associate of Science Oregon Transfer

Approved Electives

CIS 125D	Computer Applications – Database	3
CIS 125S	Computer Applications – Spreadsheet Software	3
CIS 151C	Introduction to Networks	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	Introduction to 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



COMPUTER SCIENCE General AS-CS Degree

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		5
Physical Science with Lab		5
Social Sciences Elective**		3

Year Two Credits 47-48

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	Introduction to 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

CRIMINAL JUSTICE

Criminal Justice Associate of Science

PROGRAM MISSION

The Criminal Justice program assists students in acquiring the skills necessary to be successful in the field of law enforcement, corrections and other related fields.

PROGRAM DESCRIPTION

The Associate of Science degree (Criminal Justice) has been developed with the cooperation and support of Southern Oregon University (SOU). The degree is fully articulated with SOU's Criminology and Criminal Justice program and allows students to transfer directly as juniors as pre-majors in CCJ. The articulation agreement for this program can be found at: sou.edu/admissions/transfers/tr-artagree.html

PROGRAM OUTCOMES

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

1. Identify the major steps of the criminal justice process and how a case proceeds through the criminal justice system, including landmark U.S. Supreme court decisions
2. Communicate effectively in the criminal justice system via writing, verbal and non-verbal skills
3. Recognize how criminal justice professionals work effectively within a diverse society
4. Work effectively with diverse persons within society with respect to culture, heritage, gender, and age.
5. Demonstrate cognitive knowledge focusing on positive criminal justice professional/citizen contacts, with the principal 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.

PROGRAM COURSE REQUIREMENTS

Year One

CJ 110	Introduction to Law Enforcement	3
WR 121*	Academic Composition	4
CJ 120	Introduction to Judicial Process	3
OR SP 111, SP 219		
CJ 120	Introduction to Judicial Process	3-4
OR SP 218**	Interpersonal Communication	
WR 122	Argument, Research, & Multimodal Composition	4
CJ 101	Introduction to Criminology	3
CJ 130	Introduction to Corrections	3
WR 227	Technical Writing	4
Approved Electives		18

Year Two

CJ 105	Concepts of Criminal Law	3
MTH 105 or Higher		4
Required Humanities Electives		9
Required Science Electives		12
Approved Electives		17

Total Credits 90

Approved Electives

CIS 120	Introduction to Digital Literacy ¹	4
CJ 140	Introduction to Criminalistics	3
CJ 210	Criminal Investigations	3
CJ 211	Ethics in Criminal Justice	3
CJ 226	Introduction to Constitutional Law	3
CJ 230	Introduction to Juvenile Justice Systems	3
CJ 240 ⁴	Criminalistics II	3
CJ 243	Narcotics and Dangerous Drugs	3
CJ 280 ²	Cooperative Work Experience: Criminal Justice/Corrections	1-4
HS 227	Understanding Dysfunctional Families	3
SOC 207	Juvenile Delinquency	3
SOC 225	Social Aspects of Addiction	3

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

** Meets Human Relations class requirement

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

² Four (4) credits of CJ 280 can be applied to AAS degree

⁴ Prerequisite: CJ 140 or instructor approval

CRIMINAL JUSTICE

Criminal Justice Associate of Applied Science

*Pending approval from Higher Education
Coordinating Commission (HECC)

PROGRAM MISSION

The Criminal Justice Program assists students in acquiring the skills necessary to be successful in the field of criminal justice.

PROGRAM DESCRIPTION

The Criminal Justice Program is offered completely online. Students will begin to explore the field of Criminal Justice, which includes areas such as human services, social work, juvenile justice, law enforcement, corrections, parole and probation, criminal law, and the courts. Criminal Justice is a multi-faceted field and the Criminal Justice Program provides students the opportunities to acquire and practice desired career skills such as empathy, active listening, and cultural competency to engage in ethical practices that promote human and professional growth, dignity, respect and self-determination. Candidates entering the program should have excellent organizational skills, the ability to work in a team (collaborative) setting, and a genuine desire to help others.

PROGRAM OUTCOMES

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

1. Identify the major steps of the criminal justice process and how a case proceeds through the criminal justice system, including landmark Supreme Court decisions.
2. Communicate effectively in the criminal justice system including written, verbal and nonverbal form.
3. Describe how criminal justice professionals work effectively within a diverse society.
4. Demonstrate appropriate work ethic to effectively interact with diverse persons within society with respect to culture, heritage, gender, and age.
5. Describe the importance of positive criminal justice interactions, with an emphasis on continuing dialogue between all aspects of the criminal justice system and all segments of the community.

CAREER CONSIDERATIONS

The Associate of Applied Science in Criminal Justice is designed to prepare graduates to enter occupations within the criminal justice field.

PROGRAM COURSE REQUIREMENTS

Year One

CJ 101	Introduction to Criminology	3
CJ 105	Concepts of Criminal Law	3
CJ 110	Introduction to Law Enforcement	3
CJ 114	Cultural Diversity Issues in LE	3
CJ 120	Introduction to Judicial Process	3
CJ 130	Introduction to Corrections	3

CJ 140	Introduction to Criminalistics	3
MTH 060	Introduction to Algebra	4
PSY 101 or SP 218	Psychology of Human Relations Interpersonal Communication	3
SOC 204	Introduction to Sociology	3
SP 111	Fundamentals of Public Speaking	4
WR 121*	Academic Composition	4
Approved Electives		6

Year Two

CJ 203	Crisis Intervention	1
CJ 210	Criminal Investigations	3
CJ 211	Ethics in Criminal Justice	3
CJ 226	Introduction to Constitutional Law	3
CJ 230	Introduction to Juvenile Justice System	3
CJ 240 ⁴	Criminalistics II	3
CJ 243	Narcotics and Dangerous Drugs	3
CJ 261	Introduction to Parole and Probation	3
PSY 201	General Psychology	4
PSY 202	General Psychology	4
SOC 207	Juvenile Delinquency	3
SOC 225	Social Aspects of Addiction	3
Approved Electives		9

Total Credits 90

Approved Electives

CIS 120	Introduction to Digital Literacy	4
CJ 280 ²	Cooperative Work Experience: Criminal Justice/Corrections	1-4
HS 102	Addiction Pharmacology	3
HS 227	Understanding Dysfunctional Families	3
HS 267	Cultural Competence in Human Services	3
LA 102	Legal Terminology	3
PS 201	US Government	3
PS 202	US Government	3
PS 203	US Government	3
WR 227	Technical Writing	4

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

⁺ Any unlisted CJ classes may be applied as approved electives

² Four (4) credits of CJ 280 can be applied to AAS degree

⁴ Prerequisite: CJ 140 or instructor approval

DENTAL ASSISTING

Dental Assisting One-Year Certificate

PROGRAM MISSION

The Dental Assisting program inspires confidence by combining relevant instruction with a learning environment that reflects the earning environment.

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, 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	Introduction to Digital Literacy	4
MTH 060	Introduction to Algebra or higher	4
PSY 101	Psychology of Human Relations	3
WR 115 (or higher)	English Composition: Introduction to Expository Writing	4

Required Prerequisite Credits 15

Year One

Required 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 190	Dental Office Procedures	3
DA 210	Dental Radiology I	4
DA 211	Dental Radiology II	3
DA 280	Cooperative Work Experience: Dental Assisting	1
DA 280	Cooperative 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 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:

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

CHILDHOOD DEVELOPMENT CAREER Pathway Certificate

PROGRAM MISSION

The mission of the Early Childhood Education (ECE) Program is to partner with our community to prepare high quality early childhood education providers to meet the cognitive, social, emotional and physical needs of a diverse population of children ages birth to five by offering opportunities for students to both learn theory and put theory and skills to practice in early childhood settings.

PROGRAM DESCRIPTION

The Child Development Career Pathway Certificate program is designed for students just entering the early care and education field, and those already employed in childcare, but who need an immediate certificate to continue working in an Oregon licensed facility. Students completing the CDC Pathway certificate will achieve Step 7.5 on the Oregon Registry Steps for the Oregon Center for Career Development in Childhood Care and Education have a strong foundational knowledge of child development for children age 0-8. The CDC pathway certificate aligns with the requirements for an Infant/Toddler CDA. Graduates may continue to seek the One-Year Certificate, AS, or AAS degree seamlessly, since all of the certificate classes are wholly contained within the degree program.

PROGRAM OUTCOMES

After students complete this certificate they will be able to:

1. Create healthy, respectful, supportive and challenging learning environments for young children based on knowledge of child development in context
2. Develop respectful & reciprocal connections with families that support and empower families and involve all families in their student's development and learning
3. Demonstrate foundational knowledge of why it is important to use responsible assessment including observation, documentation and other appropriate tools in partnership with families and professional colleagues to promote positive outcomes for each child
4. Apply developmentally, culturally, and linguistically appropriate approaches, instructional strategies, and tools to connect with children and families and positively influence each child's development and learning
5. Develop academic content to design, implement and evaluate meaningful, challenging curriculum that promotes comprehensive developmental and learning outcomes for every young child
6. Demonstrate professionalism as an early childhood educator with behavior reflective of ethical guidelines and professional practices associated with early childhood careers

*Pending approval from Higher Education Coordinating Commission (HECC)

CAREER CONSIDERATIONS

Students in the Child Development Career Pathway certificate program receive education and experience around the foundational knowledge for child development age 0-6 with a specific focus with infants and toddlers age three and under. Our Child Development Career Pathway certificate program focuses on seven crucial learning outcomes to help prepare students for working with young children and their families.

Courses offered in the Child Development Career certificate program are also excellent for parents, expecting families, and anyone associated or working with families and young children.

PROGRAM COURSE REQUIREMENTS

Year One

ECE 101	Seminar/Practicum I	4
ECE 102	Seminar/Practicum II	4
ECE 140	Introduction to ECE	3
ECE 178	Observing and Guiding Behavior	3
ECE 230	Health, Safety, & Nutrition for the Young Child	3
ECE 244	Individualized Learning for Preschoolers	3
HDFS 225	Child Development	3
HDFS 226	Infant and Toddler Development	3

Total Credits 26

PROGRAM ENTRANCE REQUIREMENTS

Academic Entrance Requirement

- Enrollment in Oregon Central Background Registry
- Verification of MMR vaccinations
- Food Handler's Certificate
- Students will need to complete either ECE 140, or HDFS 225 before beginning practicum courses

EARLY CHILDHOOD EDUCATION

EARLY CHILDHOOD EDUCATION One-Year Certificate

PROGRAM MISSION

The mission of the UCC Early Childhood Education program is to partner with our community to prepare high quality early childhood education providers to meet the cognitive, social, emotional and physical needs of a diverse population of children ages birth to five by offering opportunities for students to both learn theory and put theory and skills to practice in early childhood settings.

PROGRAM DESCRIPTION

The Early Childhood Education One-Year Certificate program prepares students to work as a teacher or aid with children age 0-6. Upon completion of the Early Childhood Education One-Year Certificate, students will achieve Step 8 on the Oregon Registry Steps for the Oregon Center for Career Development in Childhood Care and Education.

PROGRAM OUTCOMES

Students who successfully complete the Early Childhood Education One Year Pathway Certificate will have the foundational knowledge to support their work towards:

1. Creating healthy, respectful, supportive and challenging learning environments for young children based on knowledge of child development in context
2. Build respectful, reciprocal partnerships with families and the community that support and empower families and involve all families in their student's development and learning
3. Describe the importance of assessment including observation, documentation and other appropriate tools in partnership with families and professional colleagues to promote positive outcomes for each child
4. Explain developmentally, culturally, and linguistically appropriate approaches, instructional strategies, and tools to connect with children and families and positively influence each child's development and learning
5. Discuss how to create academic content that promotes comprehensive developmental and learning outcomes for every young child
6. Demonstrate professionalism as an early childhood educator with behavior reflective of ethical guidelines and professional practices associated with early childhood careers

CAREER CONSIDERATIONS

Students in the One-Year ECE Certificate program receive education and experience to support their work in a variety of early childhood education and care settings. These settings include both public and private infant toddler centers, preschools, private kindergartens, and in-home care settings. Course work in this certificate can be applied to either the AAS or AS degrees. Our One-Year ECE certificate program focuses on seven crucial learning outcomes to help prepare students for working with young children and their families.

PROGRAM COURSE REQUIREMENTS

Year One

ECE 101	Seminar/Practicum I	4
ECE 102	Seminar/Practicum II	4
ECE 140	Introduction to ECE	2
ECE 150	Creative Activities	3
ECE 178	Observing and Guiding Behavior	3
ECE 154	Literature and Language for Children	3
ECE 230	Health, Safety, & Nutrition for the Young Child	3
ECE 244	Individualized Learning for Preschoolers	3
HDFS 225	Child Development	3
HDFS 226	Infant and Toddler Development	3
HDFS 228	The Exceptional Child	3
HDFS 240	Contemporary American Family	3
PSY 130	Understanding Child Behavior	3
MTH 60	Introduction to Algebra (or higher)	4
WR 121	Academic Composition	4

Total Credits 49

PROGRAM ENTRANCE REQUIREMENTS

Academic Entrance Requirement

- Enrollment in Oregon Central Background Registry
- Verification of MMR vaccinations
- Food Handler's Certificate
- Students will need to complete either ECE 140, or HDFS 225 before beginning practicum courses

EARLY CHILDHOOD EDUCATION

EARLY CHILDHOOD DEVELOPMENT

Associate of Science

PROGRAM MISSION

The mission of the UCC Early Childhood Education program is to partner with our community to prepare high quality early childhood education providers to meet the cognitive, social, emotional and physical needs of a diverse population of children ages birth to five by offering opportunities for students to both learn theory and put theory and skills to practice in early childhood settings.

PROGRAM DESCRIPTION

The Early Childhood Education Associate of Science Degree program prepares students to work with young children from birth to kindergarten. The Associate of Science degree in Early Childhood Development has been developed with the cooperation and support of Southern Oregon University (SOU). The degree is fully articulated with SOU's Early Childhood Development (ECD) program and allows students to transfer directly as juniors and be able to begin the ECD coursework at SOU with no loss of credits to pursue a bachelor's degree. Students completing the ECE Associate of Science degree will achieve Step 9 on the Oregon Registry Steps for the Oregon Center for Career Development in Childhood Care and Education.

PROGRAM OUTCOMES

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

1. Transfer credits to baccalaureate degree programs at four year institutions. The AS ECE degree is fully accredited with Southern Oregon University's Early Childhood Development program
2. Create healthy, respectful, supportive and challenging learning environments for young children based on knowledge of child development in context
3. Create respectful, reciprocal family-teacher partnerships and community connections that support and empower families and involve all families in their student's development and learning
4. 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.
5. Implement an array of developmentally, culturally, and linguistically appropriate approaches, instructional strategies, and tools to connect with children and families and positively influence each child's development and learning
6. Integrate their knowledge, application, and the implementation of academic content to design, execute and evaluate meaningful, challenging curriculum that promotes comprehensive developmental and learning outcomes for every young child

7. Demonstrate their professionalism as an early childhood educator with behavior reflective of ethical guidelines and professional practices associated with early childhood careers

CAREER CONSIDERATIONS

Graduates of the ECE AS transfer degree program will learn specific skills and knowledge that are imperative in working with infants, toddlers, young children, and their families in a variety of early childhood education and care settings.

This degree is built specifically for students wanting to transfer to a four year university. Course work and practical work experience emphasize knowledge of the growth and development of young children, guidance skills, and curriculum planning that supports positive social/emotional, cognitive, mental, and physical development. These skills can be applied to multiple degree paths at four year universities. Our ECE AS transfer degree program focuses on seven crucial learning outcomes to help prepare students for courses and degrees in four year universities in a variety of career choices that work with young children and their families.

PROGRAM COURSE REQUIREMENTS

Year One

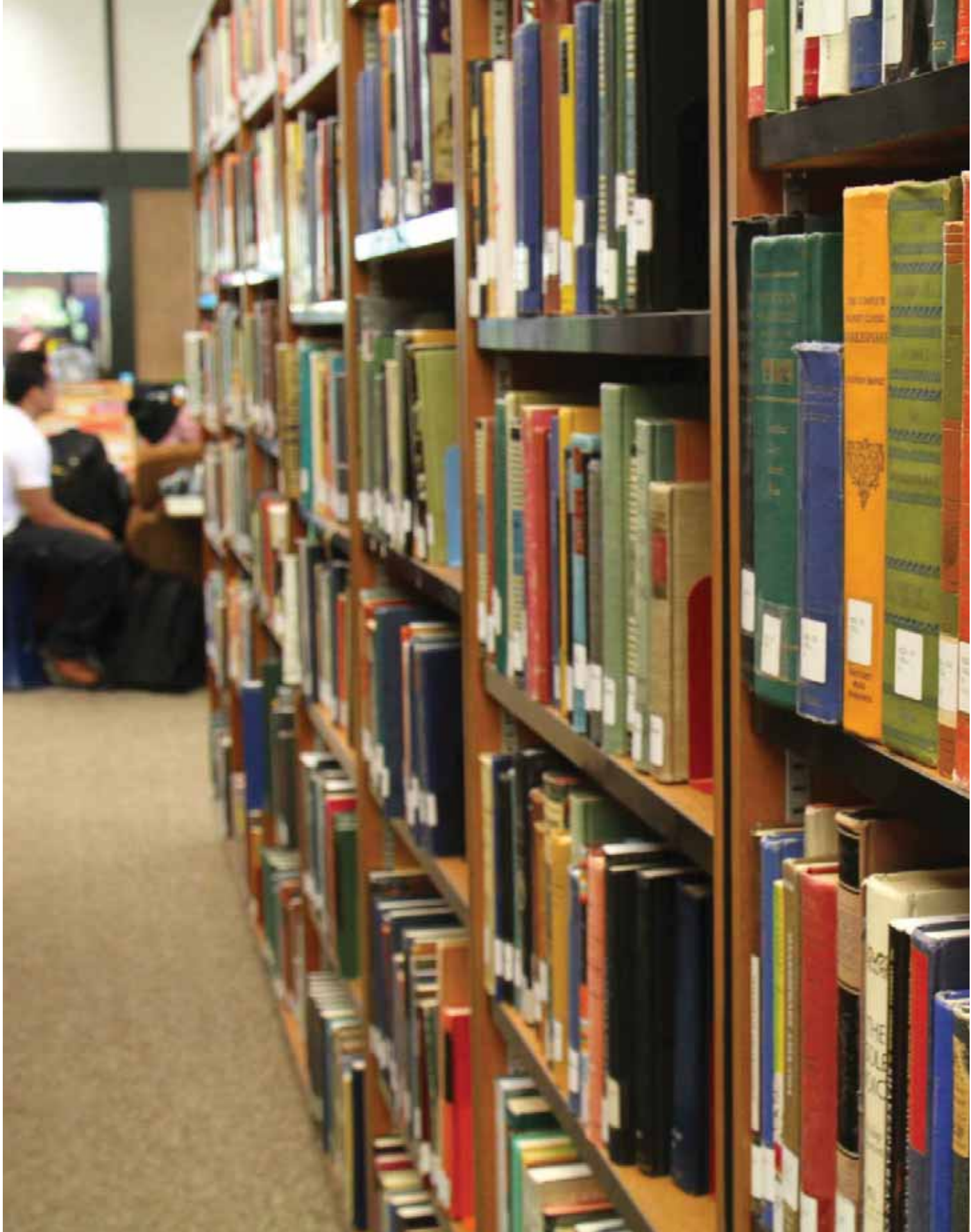
ECE 101	Seminar/Practicum I	4
ECE 102	Seminar/Practicum II	4
ECE 140	Introduction to ECE	3
ECE 150	Creative Activities	3
ECE 154	Literature and Language for Children	3
ECE 178	Observing and Guiding Behavior	3
ECE 230	Health, Safety, and Nutrition for the Young Child	3
ECE 244	Individual Learning for Preschoolers	3
HDFS 225	Child Development	3
HDFS 226	Infant and Toddler Development	3
HDFS 228	The Exceptional Child	3
HDFS 240	Contemporary American Family	3
PSY 130	Understanding Child Behavior	3
WR 121	Academic Composition	4
Elective Credits		9

EARLY CHILDHOOD EDUCATION, continued**EARLY CHILDHOOD DEVELOPMENT**
Associate of Science**Year Two**

ECE 103	Seminar/Practicum III	4
ECE 104	Seminar/Practicum IV	4
ECE 240	Lesson & Curriculum Planning	3
ECE 247	Admin of Childcare Centers	3
ED 258	Multicultural Education	3
HPE 295	Wellness & Health Assessment	3
MTH 211	Fund of Elem Math I	4
MTH 212	Fund of Elem Math II	4
SP 111	Fundamentals of Public Speaking,	
OR SP 218	Interpersonal Communication	4
PSY 101	Psychology of Human Relations	3
WR 122	Argument, Research and Multimodal Composition	4
Elective Credits		15

Total Credits 105**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.
- Students will need to complete either ECE 140, or HDFS 225 before beginning practicum courses



EARLY CHILDHOOD EDUCATION

EARLY CHILDHOOD EDUCATION

Associate of Applied Science

PROGRAM MISSION

The mission of the UCC Early Childhood Education program is to partner with our community to prepare high quality early childhood education providers to meet the cognitive, social, emotional and physical needs of a diverse population of children ages birth to five by offering opportunities for students to learn theory and put theory and skills to practice in early childhood settings.

PROGRAM DESCRIPTION

The Early Childhood Education Associate of Applied Science Degree program prepares students to work with infants, toddlers, and preschool aged children in both public and private school settings. Students completing the ECE Associate of Applied Science degree will achieve Step 9 on the Oregon Registry Steps for the Oregon Center for Career Development in Childhood Care and Education.

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 in context
2. Create respectful, reciprocal family-teacher partnerships and community connections 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. Demonstrate an array of developmentally, culturally, and linguistically appropriate approaches, instructional strategies, and tools to connect with children and families and positively influence each child's development and learning
5. Apply and integrate academic content to design, implement and evaluate meaningful, challenging curriculum that promotes comprehensive developmental and learning outcomes for every young child
6. Demonstrate their professionalism as an early childhood educator with behavior reflective of ethical guidelines and professional practices associated with early childhood careers

CAREER CONSIDERATIONS

Graduates of the ECE AAS degree will learn specific skills and knowledge that are imperative in working with infants, toddlers, young children, and their families in a variety of early childhood education and care settings. These settings include both public and private infant toddler centers, preschools, private kindergartens, and in-home care settings.

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The ECE AAS course work and practical work experience focuses on obtaining knowledge and understanding of the growth and development of young children, guidance skills, and curriculum planning that supports positive social/emotional, cognitive, mental, and physical development in children. Our ECE AAS degree program focuses on seven crucial learning outcomes to help prepare students for working with young children and their families.

PROGRAM COURSE REQUIREMENTS

Year One

ECE 101	Seminar/Practicum I	4
ECE 102	Seminar/Practicum II	4
ECE 140	Introduction to ECE	2
ECE 150	Creative Activities	3
ECE 154	Literature and Language for Children	3
ECE 178	Observing and Guiding Behavior	3
ECE 230	Health, Safety, and Nutrition for the Young Child	3
ECE 244	Individual Learning for Preschoolers	3
HDFS 225	Child Development	3
HDFS 226	Infant and Toddler Development	3
HDFS 228	The Exceptional Child	3
HDFS 240	Contemporary American Family	3
PSY 130	Understanding Child Behavior	3
WR 121	Academic Composition	4

Year Two

ECE 103	Seminar/Practicum III	4
ECE 104	Seminar/Practicum IV	4
ECE 240	Lesson & Curriculum Planning	3
ECE 247	Admin of Childcare Centers	3
ED 258	Multicultural Education	3
HDFS 201	Individual & Family Development	3
MTH 60	Introduction to Algebra (Or higher)	4
MUS 202 or Choose		3
PSY 101	Psychology or Human Relations	3
SOC 204	Introduction to Sociology	3
SOC 205	Institutions of Social Change	3
Electives		9

Total Credits 90

PROGRAM ENTRANCE REQUIREMENTS

Academic Entrance Requirement

- Enrollment in Oregon Central Background Registry
- Verification of MMR vaccinations
- Food Handler's Certificate
- Students will need to complete either ECE 140, or HDFS 225 before beginning practicum courses

EMERGENCY MEDICAL SERVICES

Emergency Medical Services Pathway Certificate

PROGRAM MISSION

The Emergency Medical Technician (EMT) pathway certificate strives to prepare competent, entry-level EMTs with cognitive, psychomotor, and affective learning domains.

PROGRAM DESCRIPTION

Our program is committed to providing high quality initial emergency medical services 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

PROGRAM OUTCOMES

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

1. Perform accurate scene safety and patient assessments in emergency medical situations
2. Use oral and written skills to communicate effectively with patients, families, and members of the health care system
3. Perform all Basic Life Support (BLS) skills in a safe and timely manner maintaining personal and professional well-being while ensuring patient safety
4. Demonstrate appropriate emergency medical and technical knowledge as required in emergency medical situations.
5. Apply professional values and ethical behaviors individually and as a team member of a team in providing emergency medical care
6. Apply legal knowledge and medical ethics in all patient care situations

CAREER CONSIDERATIONS

The EMT career pathway certificate 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

EMS 151	EMT Part 1	6
EMS 152	EMT Part 2	6
ES 101	Principles of Emergency Services	3

Total Credits 15

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

*Pending approval from Higher Education Coordinating Commission (HECC)

PROGRAM MISSION

The EMS Program strives to prepare competent, entry-level EMTs and Paramedics with cognitive, psychomotor, and affective learning domains.

PROGRAM DESCRIPTION

Our program is committed to providing high quality initial emergency medical services 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 (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
caahep.org

To contact CoAEMSP:

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

PROGRAM OUTCOMES

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

1. Perform accurate scene safety and patient assessments in emergency medical situations
2. Use oral and written skills to communicate effectively with patients, families, and members of the health care system
3. Perform all basic and advanced skills in a safe and timely manner maintaining personal and professional well-being while ensuring patient safety
4. Demonstrate appropriate emergency medical and technical knowledge as required in emergency medical situations
5. Apply professional values and ethical behaviors individually and as a team member of a team in providing emergency medical care
6. Apply legal knowledge and medical ethics in all patient care situations

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	6
EMS 152	EMT Part 2	6
EMS 180	Crisis Intervention	3
ES 101	Principles of Emergency Services	3
ES 113	Emergency Services Rescue	3
MED 111	Medical Terminology	3
MTH 95	Intermediate Algebra	4
	or MTH 098 or Higher	
PSY 101	Psych of Human Relations	3
SP 111 or higher	Fundamentals of Public Speaking	4
WR121	Academic Composition	4

Year Two

EMS 251	Paramedic Lab Part 1	3
EMS 252	Paramedic Lab Part 2	3
EMS 253	Paramedic Lab Part 3	3
EMS 261	Paramedic Clinical Experience Part 1	4
EMS 262	Paramedic Clinical Experience Part 2	4
EMS 263	Paramedic Field Internship	8
EMS 201	Pathophysiology	2
EMS 211	General Pharmacology	2
EMS 231	Medical Emergencies Part 1	4
EMS 241	Basic Electrocardiography	2
EMS 212	Emergency Pharmacology	2
EMS 232	Medical Emergencies Part 2	4
EMS 242	Advanced Electrocardiography	2
EMS 233	Trauma Emergencies	4
EMS 243	Special Populations	4

*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) 102

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

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

AS Degree (90 credit minimum)

- Engineering
- Surveying & Geomatics

ENGINEERING

Drafting Pathway Certificate

PROGRAM MISSION

The Drafting Pathway Certificate program prepares students with the knowledge and skills to use Computer Assisted Drafting (CAD).

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. Demonstrate functional use of 3D computer-aided drafting and design software used for a variety of drawing techniques

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: Introduction to GIS	4
VC 114	Introduction to InDesign	3
WLD 140	Blueprint Reading & Sketching	3

ENGINEERING

Geographic information Systems Pathway Certificate

PROGRAM MISSION

The Geographic Information System (GIS) Pathway Certificate program prepares students with the foundational knowledge and skills to apply GIS concepts.

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 Geographic Information Systems will:

1. Utilize modern measurement technologies to acquire spatial data

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: Introduction to Geographic Systems	4
GIS 235	GIS II: Analysis and Applications	4

Total Credits 12

ENGINEERING

Surveying Pathway Certificate

PROGRAM MISSION

The Surveying Pathways Certificate program prepares students with the foundational knowledge and skills in Surveying

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. Utilize modern measurement technologies to acquire spatial data

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	Surveying II	4
SUR 163	Route Surveying	4
SUR 242	Land Description and Cadastre	3
MTH 112	Elementary Functions	4

Total Credits 19

ENGINEERING

Water Quality Technician Pathway Certificate

PROGRAM MISSION

The Water Quality Technician Pathway Certificate prepares students with the foundational knowledge and skills in Water Quality Operations.

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. Demonstrate operating principles of a range of unit processes for environmental control
2. Obtain ABET Accreditation

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	Wastewater Collection	3
WQT 260	Water Treatment	3
WQT 261	Water Distribution	4

Total Credits 13

ENGINEERING

Engineering & Drafting Technician Certificate

PROGRAM MISSION

The Engineering and Drafting Technician Completion Certificate program prepares students with the foundational knowledge and skills to work as a technician in engineering, architectural, public works, and construction environments.

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. Participate effectively as a member of a technical team
2. Utilize modern measurement technologies to acquire spatial data
3. Demonstrate functional use of 3D computer-aided drafting and design software used for a variety of drawing techniques

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: Introduction to Geographic Systems	4
GIS 235	GIS II: Analysis and Applications	4
SUR 161	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

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ENGINEERING

Civil Engineering & Surveying Technology Associate of Applied Science

PROGRAM MISSION

The Civil Engineering & Surveying Technology program prepares students to incorporate advanced technologies into a wide-range of career pathways.

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. Solve well-designed engineering problems using integrated STEM concepts
2. Examine and design viable engineering solutions for well-defined technical problems
3. Demonstrate multiple forms of communication in well-defined technical and non-technical environments based on appropriate research
4. Conduct and analyze standard test, measurements, and experiments, culminating in the interpreting and reporting of results
5. Participate effectively as a member of a technical team
6. Demonstrate functional use of 3D computer-aided drafting and design software used for a variety of drawing techniques

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: Introduction to Geographic Systems	4
GIS 235	GIS II: Analysis and Applications	4
SUR 161	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*		9-12

General Education Requirements

MTH 251	Calculus I	5
MTH 252	Calculus II	4
SP 111	Fundamentals of Public Speaking	4
WR 227	Technical Report Writing	4

Year Two Credits (minimum) 46

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

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

ENGINEERING

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

PROGRAM MISSION

The Applied Surveying Option of the Civil Engineering & Surveying Technology program prepares students with the foundation to enter the workforce with a working knowledge of surveying and geomatics.

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

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

1. Demonstrate multiple forms of communication in well-defined technical and non-technical environments based on appropriate research
2. Conduct and analyze standard test, measurements, and experiments, culminating in the interpreting and reporting of results
3. Participate effectively as a member of a technical team
4. Demonstrate functional use of 3D computer-aided drafting and design software used for a variety of drawing techniques
5. Utilize modern measurement technologies to acquire spatial data

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: Introduction to Geographic Systems	4
GIS 235	GIS II: Analysis and Applications	4
SUR 161	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	Surveying II	4
SUR 163	Route Surveying	4
SUR 242	Land Description & Cadastre	3

General Education Requirements

SP 111	Fundamentals of Public Speaking	4
WR 227	Technical Writing	4

Year Two Credits 44

*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 MISSION

The Applied Water Quality Option of the Civil Engineering & Surveying Technology program prepares students with the foundation to enter the workforce with a working knowledge of water quality operations.

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 Applied Water Quality Option AAS degree in Civil Engineering & Surveying Technology will also:

1. Demonstrate multiple forms of communication in well-defined technical and non-technical environments based on appropriate research
2. Conduct and analyze standard test, measurements, and experiments, culminating in the interpreting and reporting of results
3. Participate effectively as a member of a technical team
4. Demonstrate functional use of 3D computer-aided drafting and design software used for a variety of drawing techniques
5. Explain operating principles of a range of unit processes for environmental control

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 I: Introduction to Geographic Systems	4
GIS 235	GIS II: Analysis and Applications	4
SUR 161	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	Wastewater Collection	3
WQT 260	Water Treatment	3
WQT 261	Water Distribution	4
WQT 280	Cooperative Work Experience*	24

General Education Requirements

SP 111	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 Science

PROGRAM MISSION

The Engineering transfer program provides a balanced pre-engineering curriculum to prepare students for transfer to a bachelor's degree program.

PROGRAM DESCRIPTION

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. Identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics
3. Demonstrate ability to communicate effectively with a range of audiences
4. Take part in participating on teams whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives
5. Develop and utilize appropriate experimentation, analyze and interpret data, and make use of engineering judgment to draw conclusions
6. Discover and make use of new knowledge as needed, using appropriate learning strategies

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	Fundamentals of 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	Computer Aided Drafting (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	General Physics w/Calculus	5
PH 212	General Physics 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	Microeconomics	4
ECON 202	Microeconomics	4
ENGR 201	Electrical Fund I	4

ENGINEERING, continued

Engineering Associate of Science

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 Introduction to GIS	4
GIS 235	GIS II Data Anal & Apps	4
HPE 295	Wellness & Health	3
MFG 111	Machine Shop Practice I	3
MFG 112	Machine Shop Practice II	3
MTH 231	Elements of Discrete Mathematics I	4
MTH 253	Calculus III	4
MTH 254	Vector Calculus I	4
MTH 256	Differential Equations	4
MTH 261	Introduction to Linear Algebra	2
MTH 265	Statistics for Scientists & Engineers	4
PH 213	General Physics w/Calculus	5
PHL 202	Ethics	3
SOIL 205	Soils Science Lecture	3
SOIL 206	Soils Science Lab	1
SUR 161	Surveying I	4
SUR 162	Surveying II	4
SUR 163	Route Surveying	4
SUR 242	Land Description & Cadastre	3
WLD 101	Welding Process & Applications	4
WLD 131	Basic Metallurgy	3
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 111	Fundamentals of Public Speaking	4
WR 121	Academic Composition	4

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Core Program Requirements²

DRF 112 ³	Computer Aided Drafting (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 Electives²

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	General Physics w/Calculus	5
PH 212	General Physics w/Calculus	5

Program Specific Electives²

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:

- 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
- 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: umpqua.edu/engineering Advising guides can be developed for other majors and transfer universities.
- 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.
- 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 MISSION

The Surveying and Geomatics transfer program provides a balanced pre-surveying and geomatics curriculum to prepare students for transfer to a bachelor's degree program at Oregon Tech (OIT).

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. Identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics
2. Demonstrate ability to communicate effectively with a range of audiences
3. Take part in participating on teams whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives
4. Develop and utilize appropriate experimentation, analyze and interpret data, and make use of engineering judgment to draw conclusions
5. Discover and make use of new knowledge as needed, using appropriate learning strategies
6. Demonstrate introductory understanding of land surveying and geographic information systems

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 & Virtual Design	3
DRF 112	Computer Aided Drafting (CAD) I	3
ENGR 111	Orientation to Engineering	3
GIS 203	Digital World	4
GIS 234	GIS I Introduction to GIS	4
GIS 235	GIS II Data Anal & Apps	4
SUR 161	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	Introduction to Probability & Statistics	5
MTH 254	Vector Calculus I	4
PH 211	General Physics w/Calculus	4
PH 212	General Physics w/Calculus	4
PH 213	General Physics w/Calculus	4
SUR 162	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 MISSION

The Fire Science program will provide students with quality cognitive and psychomotor skills that will help prepare them to be a firefighter.

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
ES 101	Principles of Emergency Services	3
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 133	Natural Cover Fire Protection	3
FRP 135	Hazardous Materials Chemistry	2
CH 104 or CH 112	may be taken in place of FRP 135	
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 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 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
HPE 295	Wellness & Health Assessment	3
PSY 101	Psychology of Human Relations	3

*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

Forest Engineering Associate of Science

PROGRAM MISSION

The Mission of the Forestry Program is to provide graduates with an education in fundamental forestry knowledge, applied field-based skills, and professional and ethical behavior in order to be successful professionals assisting in the management of forested ecosystems for a diverse set of landscape objectives which promote environmental, social, and economic values of forests.

PROGRAM DESCRIPTION

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.

PROGRAM OUTCOMES

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

1. Apply knowledge of mathematics, science, and engineering
2. Use the techniques, skills, and modern engineering tools necessary for engineering practice

CAREER CONSIDERATIONS

Foresters and forest managers are concerned with the overall administrative, economic, legal and social aspects and with the essentially scientific and technical aspects, especially silviculture, protection, and forest regulation.

NOTES:

* 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>

¹ NR 201 can be substituted for FOR 111

² ENGR 112 can be substituted for FOR 112

³ MTH 111 is pre-req for MTH241 and MTH 112 is pre-req for MTH 251

⁴ MTH 243 can be substituted for MTH 265

PROGRAM COURSE REQUIREMENTS

Year One

Arts & Letter Elective*		3
CH 221	General Chemistry I	5
DRF 112	Computer Aided Drafting (CAD) I	3
ENGR 111	Engineering Orientation	3
FES 241	Dendrology	4
FOR 112 ²	Problem Solving & Technology	3
FOR 111 ¹	Introduction to Forestry	3
FOR 161	Surveying I	4
FOR 234	GIS I	4
MTH 251 ³	Calculus I	5
MTH 252s	Calculus II	4
MTH 265 ⁴	Statistics for Scientists & Engineers	4
SP 111	Fundamentals of Public Speaking	4
WR 121	Academic Composition	4

Year One Credits (minimum) 53

Year Two

ENGR 211	Statics	4
ENGR 212	Dynamics	4
ENGR 213	Strength of Materials	4
ECON 201	Microeconomics	4
FOR 206	Soil Science Lab	1
FES 240	Forest Biology	4
MTH 254	Vector Calculus I	4
MTH 256	Differential Equations	4
PH 211	General Physics w/Calculus	5
PH 212	General Physics w/Calculus	5
SOIL 205	Soil Science Lecture	3
WR 227	Technical Writing	4

Year Two Credits (minimum) 46

Transfer advising guides are listed on the UCC website: umpqua.edu/forestry.

FORESTRY

Forest Management Associate of Science

PROGRAM MISSION

The Mission of the Forestry Program is to provide graduates with an education in fundamental forestry knowledge, applied field-based skills, and professional and ethical behavior in order to be successful professionals assisting in the management of forested ecosystems for a diverse set of landscape objectives which promote environmental, social, and economic values of forests.

PROGRAM DESCRIPTION

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

PROGRAM OUTCOMES

This UCC program aligns with the programs offered through the OSU College of Forestry Program Students who successfully complete the Forest Management AS degree will:

1. Demonstrate understanding of interaction of vegetation, wildlife, insects, and disease on forested landscapes
2. Demonstrate ability to identify major forest ecosystems of the PNW and describe their changes over time, with and without human influence/management

CAREER CONSIDERATIONS

Foresters and forest managers are concerned with the overall administrative, economic, legal and social aspects and with the essentially scientific and technical aspects, especially silviculture, protection, and forest regulation. Foresters are multitaskers, often addressing a variety of issues with other professionals from many different areas. The industry is growing at a rate of three percent per year, meaning that 990 jobs will be added by 2022.

NOTES:

¹ NR 201 can be substituted for FOR 111

² 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>

PROGRAM COURSE REQUIREMENTS

Year One

Arts & Letter Elective ²	3
BI 212 Principles of Biology	5
FES 241 Dendrology	4
FOR 111 ¹ Introduction to Forestry	3
FOR 112 Problem Solving & Technology	3
FOR 161 Surveying I	4
FOR 234 GIS I	4
MTH 111 College Algebra	5
MTH 112 Elementary Functions	4
MTH 243 Introduction to Probability & Statistics	5
SP 111 Fundamentals of Public Speaking	4
WR 121 Academic Composition	4

Year One Credits (minimum) 48

Year Two

Arts & Letters or Social Sciences Elective ²	6
ATS 201 Climate Science	4
CH 221 General Chemistry	5
ECON 201 Microeconomics	4
FES 240 Forest Biology	4
FOR 206 Soil Science Lab	1
FES 261 Recreation Resource Management	4
HPE 295 Health & Wellness	3
MTH 241 Calculus for Management & Social Science I or MTH 251 Calculus I	4-5
PH 201 General Physics	5
SOIL 205 Soil Science Lecture	3
WR 227 Technical Writing	4

Year Two Credits 47-48

FORESTRY

Forest Operations Associate of Science

PROGRAM MISSION

Students in the forest operations option will learn about the business, land management, and timber harvesting aspects of the forestry industry.

PROGRAM DESCRIPTION

Students learn how to actively manage lands with economic efficiency and with evolving markets and policy to provide timber and fiber for the nation. To achieve program goals, the curriculum includes a traditional forestry foundation with courses in forest biology, economics, management and operations.

PROGRAM OUTCOMES

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

1. Demonstrate knowledge of business laws by being able to apply them to common business practices conducted in a contracting relationship
2. Demonstrate the ability to apply appropriate knowledge of surveying and mapping tools to implement forest operations by being able to survey and map roads, critical habitat and other common forest features
3. Demonstrate understanding of forest ecology and silviculture principles to understand how forests and forested watersheds respond to natural disturbances or management activities
4. Develop skills in geospatial analysis, basic surveying, mapping, and GIS
5. Demonstrate ability to measure and inventory forest vegetation with precision and accuracy

CAREER CONSIDERATIONS

Forest operations professionals often become land managers of commercially productive public and private lands. They focus on planning and managing timber harvests as well as purchasing and selling forest products. They work outside and with others who care about the health of our forests, economy and people.

NOTES:

¹ NR201 can be substituted for FOR111

² 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>

PROGRAM COURSE REQUIREMENTS

Year One

Arts & Letter Elective ²		3-4
BI 212	Principles of Biology	5
FES 241	Dendrology	4
FOR 111 ¹	Introduction to Forestry	3
FOR 112	Problem Solving & Technology	3
FOR 161	Surveying I	4
FOR 234	GIS I	4
MTH 111	College Algebra	5
MTH 112	Elementary Functions	4
MTH 243	Introduction to Probability & Statistics	5
SP 111	Fundamentals of Public Speaking	4
WR 121	Academic Composition	4

Year One Credits (minimum) 47-48

Year Two

Arts & Letters or Social Sciences Elective ²		3
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	4
CH 221	General Chemistry	5
ECON 201	Microeconomics	4
FES 240	Forest Biology	4
FOR 206	Soil Science Lab	1
MTH 241 or MTH 251	Calculus for Management & Social Science I Calculus I	4-5
PH 201	General Physics	5
SOIL 205	Soil Science Lecture	3
WR 227	Technical Writing	4

Year Two Credits 46-47

FORESTRY

Forest Restoration and Fire Associate of Science

PROGRAM MISSION

The Forest Restoration and Fire option prepares students with skills needed to engage in forest disturbance management and processes including wildfire, landslides, insects and disease.

PROGRAM DESCRIPTION

Graduates will have the knowledge and the skillset to incorporate natural processes, including disturbance, into active forest management planning. Disturbance processes are important considerations in any actively managed forest, regardless of the specific management objective.

PROGRAM OUTCOMES

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

1. Demonstrate an understanding of the role of active adaptive management on forested landscapes when outcomes are uncertain
2. Demonstrate an understanding of the management of ecosystems in an era of rapid change including change in climate patterns, land use patterns, and political and social institutions
3. Demonstrate understanding of forest ecology and silviculture principles to understand how forests and forested watersheds respond to natural disturbances or management activities
4. Develop skills in geospatial analysis, basic surveying, mapping, and GIS
5. Demonstrate ability to measure and inventory forest vegetation with precision and accuracy

CAREER CONSIDERATIONS

Forest Restoration and Fire graduates may become professional foresters, field technicians, wildland firefighters, fire ecologists, forest pathologists, or entomologists.

NOTES:

¹ NR 201 can be substituted for FOR 111

² ne 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>

PROGRAM COURSE REQUIREMENTS

Year One

Arts & Letter Elective ²		3-4
BI 212	Principles of Biology	5
FOR 111 ¹	Introduction to Forestry	3
FES 241	Dendrology	4
FOR 112	Problem Solving & Technology	3
FOR 161	Surveying I	4
FOR 234	GIS I	4
MTH 111	College Algebra	5
MTH 112	Elementary Functions	4
MTH 243	Introduction to Probability & Statistics	5
SP 111	Fundamentals of Public Speaking	4
WR 121	Academic Composition	4

Year One Credits (minimum) 47-48

Year Two

Arts & Letters or Social Sciences Elective ²		6
ATS 201	Climate Science	4
CH 221	General Chemistry	5
ECON 201	Microeconomics	4
FES 240	Forest Biology	4
FES 261	Recreation Resource Management	4
FOR 206	Soil Science Lab	1
HPE 295	Health & Wellness	3
MTH 241 or MTH 251	Calculus for Management & Social Science I Calculus I	4-5
PH 201	General Physics	5
SOIL 205	Soil Science Lecture	3
WR 227	Technical Writing	4

Subtotal Credits 47-48

FORESTRY

Renewable Materials: Advanced Wood Manufacturing Associate of Science

PROGRAM MISSION

The advanced wood manufacturing option allows students to tailor their degree to their interests. This option is completely unique to Oregon State and in high demand throughout the industry. Advanced manufacturing students study the latest technologies throughout the wood products industry. Graduates are highly-sought after and set apart to fill a need for entry-level positions throughout the Pacific Northwest and the rest of the country. Once in the industry, students make everything from advanced wood products to cabinetry.

PROGRAM DESCRIPTION

The Advance Wood Manufacturing 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.

PROGRAM OUTCOMES

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

1. Demonstrate ability to find, compile, analyze and communicate technical information
2. Demonstrate basic knowledge of wood and similar renewable materials that make them challenging to utilize as industrial and building materials
3. Apply knowledge of mathematics, science, and engineering
4. Demonstrate a combination of technical and business acumen that allows effective management of process and people

CAREER CONSIDERATIONS

Advanced wood manufacturing professional often work as supervisors and leaders at sawmills or engineered wood products facilities.

NOTES:

- ¹ NR 201 can be substituted for FOR 111
- ² ENGR 112 can be substituted for FOR 112
- ³ MTH 111 is pre-req for MTH 241 and MTH 112 is pre-req for MTH 251
- ⁴ 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>

PROGRAM COURSE REQUIREMENTS

Year One

CH 104 or CH 221	Introductory Chemistry General Chemistry	4-5
CH 105 or CH 222	Introductory Chemistry General Chemistry	4-5
CH 106 or CH 223	Introductory Chemistry General Chemistry	4-5
ENGR 111	Engineering Orientation I	3
ENGR 245	Engineering Graphics: SolidWorks	3
FOR 111 ¹	Introduction to Forestry	3
FOR 112 ²	Problem Solving & Technology	3
MTH 251 ³	Calculus I	5
MTH 252	Calculus II	4
MTH 265	Statistics for Scientists & Engineers	4
SP 111	Fundamentals of Public Speaking	4
WR 121	Academic Composition	4

Year One Credits (minimum) 45-48

Year Two

Arts & Letter Elective ⁴		3-4
BA 212	Principles of Accounting II	3
BA 213	Principles of Accounting II	3
ECON 201	Microeconomics	4
ECON 202	Macroeconomics	4
FES 240	Forest Biology	4
HPE 295	Health & Wellness	3
PH 211	General Physics w/Calculus	5
PH 212	General Physics w/Calculus	5
PH 213	General Physics w/Calculus	5
WR 227	Technical Writing	4

Year Two Credits 46-47

FORESTRY

Renewable Materials: Art and Design Associate of Science

PROGRAM MISSION

Students in the art and design option are concerned about wood products on an aesthetic level. This option prepares students to engage with renewable materials on an aesthetic level, whether as interior designers, fine artists or entrepreneurs. Students will gain an in-depth knowledge of how renewable materials can function visually within the human space. In addition, students will achieve an understanding of green building materials and green architecture. Graduates will be prepared to start their own design-centered businesses or consult others. This option prepares students to engage with renewable materials on an aesthetic level, whether as interior designers, fine artists or entrepreneurs.

PROGRAM DESCRIPTION

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 Renewable Materials: Art and Design AS degree in Forestry will have the knowledge, skills, and abilities to:

1. Demonstrate ability to find, compile, analyze and communicate technical information in a concise format
2. Demonstrate basic knowledge of wood and similar renewable materials and relevant utilization challenges
3. Understand types and functions of renewable materials within the human space. (does space also mean environment)
4. Engage with renewable materials on an aesthetic level marketing programs for green products

CAREER CONSIDERATIONS

Art and Design professionals work in construction, fabrication, and architecture fields. They also work as urban and regional planners.

NOTES:

- ¹ NR 201 can be substituted for FOR 111
- ² ENGR 112 can be substituted for FOR 112
- ³ MTH 111 is pre-req for MTH241 and MTH 112 is pre-req for MTH 251
- ⁴ MTH 265 can be substituted for MTH 243
- ⁵ 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>

PROGRAM COURSE REQUIREMENTS

Year One

ART 115	Art & Design Foundations: 2D	4
ART 291	Sculpture	3
CH 104 or CH 221	Introductory Chemistry General Chemistry	4-5
CH 105 or CH 222	Introductory Chemistry General Chemistry	4-5
ENGR 111	Engineering Orientation I	3
ENGR 245	Engineering Graphics: SolidWorks	3
FOR 111 ¹	Introduction to Forestry	3
FOR 112 ²	Problem Solving & Technology	3
MTH 111 ³ or MTH 112 ³	College Algebra Elementary Functions	5
MTH 241 ⁴ or MTH 251 ⁴	Calculus for Management & Social Science I Calculus I	4-5
MTH 243 ⁴	Introduction to Probability & Statistics	5
SP 111	Fundamentals of Public Speaking	4
WR 121	Academic Composition	4

Year One Credits (minimum) 46-49

Year Two

Arts & Letter Elective ⁵		3
Arts & Letter or Social Science Elective ⁵		3-4
ART 117	Art & Design Foundations: 3D	4
ART 131	Introduction to Drawing: Line & Gesture	3
ART 234	Figure Drawing	3
DRF 112	Computer Aided Drafting (CAD) I	3
DRF 113	Computer Aided Drafting (CAD) II	3
ECON 201	Microeconomics	4
FES 240	Forest Biology	4
HPE 295	Health & Wellness Assessment	3
VC 114	Introduction to InDesign	3
WR 227	Technical Writing	4

Year Two Credits 43-44

FORESTRY

Renewable Materials: Marketing and Management Associate of Science

PROGRAM MISSION

The Marketing and Management option provides students with the skills to manage organizations or devise new marketing strategies to compete in the global wood products industry. Students study business principles and how to apply them to growing wood products industry. They may initially go into sales for a wood products company, or other business-related positions. Their knowledge of the science and structure of wood will give them a leg up in the job market.

PROGRAM DESCRIPTION

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.

PROGRAM OUTCOMES

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

1. Demonstrate ability to find, compile, analyze and communicate technical information
2. Demonstrate basic knowledge of wood and similar renewable materials that make them challenging to utilize as industrial and building materials
3. Recognize the diverse complexity of the Renewable Materials industry, and the challenges it faces with balancing business and environmental goals
4. Develop an understanding of innovative and effective marketing programs for green products

CAREER CONSIDERATIONS

Marketing and Management professionals work as business leaders in the forest products sector.

NOTES:

- ¹ NR 201 can be substituted for FOR 111
- ² ENGR 112 can be substituted for FOR 112
- ³ MTH 111 is pre-req for MTH241 and MTH 112 is pre-req for MTH 251
- ⁴ 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>

PROGRAM COURSE REQUIREMENTS

Year One

CH 104 or CH 221	Introductory Chemistry General Chemistry	4-5
CH 105 or CH 222	Introductory Chemistry General Chemistry	4-5
ENGR 111	Engineering Orientation I	3
ENGR 245	Engineering Graphics: SolidWorks	3
FES 241	Dendrology	4
FOR 111 ¹	Introduction to Forestry	3
FOR 112 ²	Problem Solving & Technology	3
MTH 111 or MTH 112	College Algebra Elementary Functions	5
MTH 241 ³ or MTH 251 ³	Calculus for Management & Social Science I Calculus I	4-5
MTH 243	Introduction to Probability & Statistics	5
SP 111	Fundamentals of Public Speaking	4
WR 121	Academic Composition	4

Year One Credits (minimum) 45

Year Two

Arts & Letter Elective ⁴		3-4
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 II	3
BA 226	Business Law	4
ECON 201	Microeconomics	4
ECON 202	Macroeconomics	4
FES 240	Forest Biology	4
HPE 295	Health & Wellness	3
VC 114	Introduction to InDesign	3
WR 227	Technical Writing	4

Year Two Credits 42-43

FORESTRY

Renewable Materials: Science and Engineering Associate of Science

PROGRAM MISSION

The Science and Engineering option focuses on science, technology and engineering when it comes to working with wood products. Students gain a strong understanding of where wood products come from, and test renewable materials to determine how we can use them in new and innovative ways. Students learn in woodshops, labs and even test materials in our climate rooms and earthquake testing room.

PROGRAM DESCRIPTION

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.

PROGRAM OUTCOMES

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

1. Demonstrate ability to find, compile, analyze and communicate technical information in a concise format
2. Demonstrate basic knowledge of wood and similar renewable materials that make them challenging to utilize as industrial and building materials
3. Understand the source of wood products and how they are utilized
4. The ability to solve complex problems and create efficiencies for the application of renewable materials

CAREER CONSIDERATIONS

Science and Engineering degree option professionals are prepared to work in a variety of technical manufacturing positions.

NOTES:

- ¹ NR 201 can be substituted for FOR 111
- ² ENGR 112 can be substituted for FOR 112
- ³ MTH 111 is pre-req for MTH241 and MTH 112 is pre-req for MTH 251
- ⁴ MTH 265 can be substituted for MTH 243
- ⁵ 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>

PROGRAM COURSE REQUIREMENTS

Year One

CH 104 or CH 221	Introductory Chemistry General Chemistry	4-5
CH 105 or CH 222	Introductory Chemistry General Chemistry	4-5
CH 106 or CH 223	Introductory Chemistry General Chemistry	4-5
ENGR 111	Engineering Orientation I	3
ENGR 245	Engineering Graphics: SolidWorks	3
FOR 111 ¹	Introduction to Forestry	3
FOR 112 ²	Problem Solving & Technology	3
MTH 251 ³	Calculus I	5
MTH 252	Calculus II	4
MTH 265 ⁴	Statistics for Scientists & Engineers	4
SP 111	Fundamentals of Public Speaking	4
WR 121	Academic Composition	4

Year One Credits (minimum) 45-48

Year Two

Arts & Letter Elective ⁵		3-4
BA 226	Business Law	4
ECON 201	Microeconomics	4
ECON 202	Macroeconomics	4
FES 240	Forest Biology	4
HPE 295	Health & Wellness	3
MTH 254	Vector Calculus I	4
PH 211	General Physics w/Calculus	5
PH 212	General Physics w/Calculus	5
PH 213	General Physics w/Calculus	5
WR 227	Technical Writing	4

Year Two Credits 45-46

HUMAN SERVICES

Addiction Studies Certificate

PROGRAM MISSION

The Addiction Studies Program will provide the academic, theoretical and practical foundation for students working in Alcohol/Drug/Tobacco counseling and/or individuals who wish to pursue training in the substance abuse disorder and addiction studies field.

PROGRAM DESCRIPTION

The addiction studies certificate is a year-long curriculum that fully addresses the multiple perspectives of the addiction process. This includes addiction pharmacology, strategies to prevent relapse, state of the art intervention techniques, ethics, communication skills unique to substance abuse treatment and the essentials of addiction treatment care management.

PROGRAM OUTCOMES

Students who successfully complete this certificate in Addiction Studies will:

1. Communicate effectively and develop interpersonal skills needed to work with diverse populations
2. Perform basic individual and group counseling and interviewing skills
3. Identify appropriate assessment needs of individuals, families and groups and develop effective treatment plans which utilize community resources
4. Identify Alcohol and Drugs of Abuse Pharmacology and Theories of addiction
5. Demonstrate knowledge of professional values and ethics standards that are foundations to human service professional

PROGRAM ENTRANCE REQUIREMENTS

*Academic Entrance Requirement

- Students must be able to verify a minimum of 2 years of recovery 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.

CAREER CONSIDERATIONS

*The Addiction Studies certificate not only offers students the required educational coursework for eligibility to take the Oregon Certified Alcohol and Drug Counselor (CADCI) exam but additional coursework to enhance their skill sets. Upon successfully passing the CADCI exam, students will find employment in substance abuse treatment and recovery fields as counselors.

PROGRAM COURSE REQUIREMENTS

Year One

HS 100	Introduction 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 Families	3
HS 211	HIV/AIDS & other Infect Diseases	2
HS 226	Ethics and Law	3
HS 266	Case Management for HS	3
MTH 060 or Higher		4
WR 121	Academic Composition	4
SOC 225	Social Aspects of Addiction	3
SOC 204	Introduction to Sociology	3
PSY 101	Psychology of Human Relations	
or SP 218	Interpersonal Communications	3

Total Credits 46

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

HUMAN SERVICES

Addiction Treatment Pathway Certificate

PROGRAM MISSION

The Addiction Treatment certificate provides students with the basic educational foundation to pursue careers in the substance abuse disorder treatment field.

PROGRAM DESCRIPTION

The Addiction Treatment certificate curriculum offers, over two-terms, the coursework that meets the educational hours required to take the Oregon Certified Alcohol and Drug Counselor (*CADCI) exam. Topics addressed include individual and group counseling skills, addiction pharmacology, ethics, HIV/AIDS and fundamentals of case management.

PROGRAM OUTCOMES

Students who successfully complete the Pathway 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 education hours to take the Oregon Certified Alcohol and Drug Counselor (CADCI) exam. A CADCI can work in the substance abuse treatment field at either private or non-profit agencies.

PROGRAM COURSE REQUIREMENTS

Winter & Spring Term

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

*** See Academic Entrance Requirements on facing page.**

HUMAN SERVICES

Case Aide Pathway Certificate

PROGRAM MISSION

The Case Aide certificate provides a student an introduction to the field of human services.

PROGRAM DESCRIPTION

The Case Aide certificate will provide students the academic background for entry-level opportunities within the human service field. This certificate is designed for the student who is already working in the human services field or would like to investigate their interest in the field before committing to a degree program.

PROGRAM OUTCOMES

Students who successfully complete the Pathway Certificate in Case Aide will:

1. Communicate effectively and develop interpersonal skills needed to work with people from diverse backgrounds
2. Obtain the theoretical knowledge and interview skills required of human services workers in a variety of work settings
3. Identify the concepts, ideas and skills necessary to effectively work as a case manager for any human services delivery program
4. Develop the knowledge and skills to improve personal effectiveness through conflict resolution, and problem-solving strategies

CAREER CONSIDERATIONS

This certificate provides students with the foundation for paraprofessional opportunities in social service agencies. Jobs include case work aide, clinical social worker aide, family service assistant, addiction counselor assistant, and human services worker.

PROGRAM COURSE REQUIREMENTS

Fall and Winter Term

HS 100	Introduction 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	Introduction to Sociology	3

Total Credits 18

PROGRAM ENTRANCE REQUIREMENTS

*** See Academic Entrance Requirements on facing page.**

HUMAN SERVICES

Human Services

Associate of Science Articulated with SOU

PROGRAM MISSION

The Human Services program will provide students with the foundational skills to transfer to Southern Oregon University.

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	Introduction to Human Services	3
HS 108	Understanding Behavioral & Emotional Issues of Older Population	3
HS 155 ²	Counseling Skills I*	3
HS 217	Group Counseling	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*	4
PSY 202	General Psychology*	4
WR 121	Academic Composition	4
WR 122	Argument, Research, and Multimodal Comp	4
*Approved electives		9

Year Two

HDFS 201 ³	Individual and Family Development*	3
HS 265	Counseling Skills II	3
HS 267	Cultural Competence in HS	3
Required Humanities		9
MTH 243	Introduction to Probability & Statistics*	5
Required Sciences		8
Required Sciences		3-4
SOC 204	Introduction to Sociology*	3
SP 111 or SP 218 or SP 219	Fundamentals of Public Speaking Interpersonal Communication Small Group Discussion	4 3 3
*Approved Elective		9

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.

HUMAN SERVICES, continued

Human Services

Associate of Science Articulated with SOU

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.

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 HDF5 201 is accepted as an equivalent to PSY 370 Lifespan Development; however, upper division credit for HDF5 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.

HUMAN SERVICES

Human Services Associate of Applied Science

PROGRAM MISSION

The Human Services Program will provide students with the skill set to succeed in careers in the social services field. Theoretical, academic and skill building coursework will be augmented with practical supervised fieldwork experiences.

PROGRAM DESCRIPTION

Students will begin to explore the field of Human Services. Students will identify aspects of individual, family and social behaviors and the steps involved in resolving problems utilizing social services systems. Students are provided opportunities to practice skills such as empathy, active listening and cultural competency to engage in ethical helping practices that promote human growth, dignity, respect and self-determination.

PROGRAM OUTCOMES

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

1. Identify the role of the human services worker in a variety of social services settings
2. Apply interpersonal and group skills needed to effectively work with diverse populations
3. Apply case management skills, including documentation, assessment, crisis intervention, treatment planning and use of appropriate community resources
4. Demonstrate the ability to adhere to professional, ethical standards and responsibility for professional growth

CAREER CONSIDERATIONS

The Human Services program prepares students for entry-level jobs and future careers in private and government social service agencies, schools and business. Jobs include social work assistants, community outreach workers, substance abuse and recovery counselor, crisis intervention aide and/or case management aides.

PROGRAM COURSE REQUIREMENTS

Year One

HS 100	Introduction to Human Services	3
HS 108	Understanding Behavioral & Emotional Issues of Older Population	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 226	Ethics and Law	3
HS 267	Cultural Competence in HS	3
SOC 204	Introduction to Sociology	3

WR 121	Academic Composition	4
SP 218 or PSY 101	Interpersonal Communication Psychology of Human Relations	3
*Approved electives		9

Year Two

HS 227	Understanding Dysfunctional Families	3
HS 229	Crisis Intervention and Prevention	3
HS 265	Counseling Skills II	3
HS 266	Case Management for HS	3
PSY 201	General Psychology	4
PSY 202	General Psychology	4
WR 227	Technical Writing	4
MTH 060 or Higher		4
HS 280	Cooperative Work Experience	9
*Approved electives		9

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.

MUSIC

Music Articulated with SOU Associate of Science

PROGRAM MISSION

The Music Program provides the first two years of a four year baccalaureate degree in music, vocational training for a career in music, and the highest quality musical and cultural opportunities for music performers and audiences in Douglas County. UCC offers an AS in Music or an AAOT for transfer in music.

PROGRAM DESCRIPTION

The Music program is designed to provide study in areas of music and performance to prepare students for employment and with transfer options to consider. Studies will include performance in ensembles, individual studio instruction, and classes in theory, ear training, and piano. Students should be aware that if they transfer before completing this degree, their courses will be evaluated individually toward the general education requirements. Students that are planning on attending SOU through the articulation agreement should contact the SOU Music Department early in the first year of their AS program All students must pass a New Student Hearing before being accepted as a Music Major at SOU.

PROGRAM OUTCOMES

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

1. Demonstrate technical proficiency in reading, writing, and performing music using standard music notation (junior entry-level)
2. Evaluate critical discussion of cultural awareness and aural literacy through the use 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	Introduction 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 211	Fundamentals of Public Speaking	4
or SP 218	Interpersonal Communication	3
or SP 219	Small Group Discussion	3
Science with Lab		12
Social Science		6

Music Electives (Optional)

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

MUP 101-292	Performance Studies**	1-6
MUS 105	Introduction to Rock Music***	3
MUS 204	Music of the World***	3
MUS 205	Introduction 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 MISSION

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

PROGRAM DESCRIPTION

There are three choice of tracks to complete the Natural Resource program: Fish and Wildlife Conservation, Forest Ecosystems, and Conservation Law Enforcement. Each track will result in an A.S. degree that prepares students with the necessary knowledge for an entry-level position or provide a foundation for transferring to a university.

PROGRAM OUTCOMES

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

1. Describe natural ecological processes and human impacts that influence ecosystem change, and ecological succession in landscapes of the Pacific Northwest
2. Recognize and describe the interrelationships between ecosystem communities and how social communities have an effect on the use and management of natural resources
3. Describe and evaluate a set of natural resource-related objectives and be able to evaluate the success of these actions
4. Evaluate management problems while working collaboratively within and among teams
5. Describe and quantify the biological and physical interrelationships between ecosystem resources

CAREER CONSIDERATIONS

Tracks in the Natural Resources program will prepare students for jobs in conservation science, conservation law enforcement, ecosystem management, wildlife biology, fisheries science, botany, forestry, 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
CH 221	General Chemistry	5
FES 241	Dendrology	4
HPE 295	Health Wellness Assessment*	3
MTH 111	College Algebra	5
MTH 112	Elementary Functions	4

NR 201	Introduction to Natural Resources	3
SP 111	Fundamentals of Public Speaking	4
WR 121	Academic Composition	4
WR 227	Technical Report Writing	4

Year Two

ATS 201	Climate Science	4
ENG 230	Environmental Lit	4
FES 240	Forest Biology	4
FES 261	Recreation Resource Management	4
GIS 234	Introduction to GIS	4
MTH 243	Introduction to Probability & Statistics	5
NR 221	Water Resource Science	4
NR 230	Forest Ecosystems	3
NR 251	Principles of Fish and Wildlife Cons	3
SOIL 205	Soil Science	4

Total Credits 90

TRACKS OF STUDY

All Natural Resource students are required to complete the Program Course Requirements. In addition to the Program Course Requirements, students are responsible for completing one of the specialized tracks. Each track will provide specialized coursework unique to the respective field of study. * First Year Courses.

FISH AND WILDLIFE CONSERVATION – TRACK 1

BOT 203	Field Botany*	4
G 221	Environmental Geology	4

FOREST ECOSYSTEM – TRACK 2

ECON 201	Microeconomics	4
G 221	Environmental Geology	4
GIS 203	Digital Earth*	4

CONSERVATION LAW ENFORCEMENT – TRACK 3

CJ 101	Introduction to Criminology*	3
CJ 110	Introduction to Law Enforcement*	3
CJ 211	Ethics in Criminal Justice	3

Choose One:

CJ 105	Concepts of Criminal Law	3
or CJ 243	Narcotics and Dangerous Drugs	3

OCCUPATIONAL SKILLS TRAINING

Occupational Skills Training Certificate

PROGRAM MISSION

The Occupational Skills Training program provides a combination of academic study and hands-on training with local businesses and agency sites.

PROGRAM DESCRIPTION

The Occupational Skills Training (OST) Certificate program is an individualized career training opportunity focused on learning on a job site. These trainings offer students the ability to earn college credits while providing them the opportunity to design a career path that accommodates their occupational goals, abilities, skills and interests. The one-year certificate can be an educational pathway to other degrees. Credits earned in this program may be applied to AAS, AS and an AGS degree.

PROGRAM OUTCOMES

Students who successfully complete the Occupational Skills Training Certificate will:

1. Summarize skills and knowledge needed to enter specific career fields
2. Demonstrate job skills based on industry standards of the chosen occupation

CAREER CONSIDERATIONS

The Occupational Skills Training program is designed to provide the opportunity for students to receive worksite-based instruction in a specific occupational area.

Skills training options:

- Business
- Engineering
- Water/Wastewater Operator

PROGRAM COURSE REQUIREMENTS

Year One

General Education Requirements

MTH 052	Industrial Applications of Math	4
WR 115 (or higher)	English Composition: Introduction to Expository Writing	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

Allied Health Umpqua Healthcare Careers Certificate

PROGRAM MISSION

The Umpqua Healthcare Careers certificate is designed to prepare students with the training and skills needed for employment in entry-level positions related to medical office administration.

PROGRAM DESCRIPTION

The Umpqua Healthcare Careers Certificate prepares students for a career performing entry-level medical office skills for outpatient medical offices and clinics. This certificate leads to the two-year Medical Office Administration Degree.

PROGRAM OUTCOMES

Students who successfully complete the Umpqua Healthcare Career Certificate will:

1. Demonstrate professional skills that lead to success within the medical office workplace
2. Demonstrate effective oral and written communication skills
3. Apply critical thinking and decision-making skills
4. Distinguish the importance of an ethical work environment
5. Apply information and technology tools relevant to the profession

CAREER CONSIDERATIONS

Entry-level medical office positions in patient records, reception, scheduling, and other medical office focused careers.

PROGRAM COURSE REQUIREMENTS

Year One

MED 100	Introduction to Healthcare Careers*	2
MED 111	Medical Terminology I	3
MED 112	Medical Terminology II	3
MED 115	Anatomy & Physiology for Medical Assistants	3
MED 220	Medical Office Procedures I	3
Choose One:		
CWE 161	CWE Seminar I	1
OA 280C	CWE: Administrative Medical Assistant	1

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.

OFFICE TECHNOLOGY

Front Office Medical Certificate

PROGRAM MISSION

The Front Office Medical Certificate prepares students with a foundation for competence and skills in the medical office environment.

PROGRAM DESCRIPTION

The Front Office Medical Certificate is designed to prepare students for a career performing entry-level medical office skills for outpatient medical offices and clinics. This certificate leads to the Two-Year Medical Office Administration Degree.

PROGRAM OUTCOMES

Students who successfully complete the Front Office Medical certificate will:

1. Demonstrate professional skills that lead to success within the medical office workplace
2. Demonstrate effective oral and written communication skills
3. Apply critical thinking and decision-making skills
4. Distinguish the importance of an ethical work environment
5. Apply information and technology tools relevant to the profession

CAREER CONSIDERATIONS

Entry-level medical office positions of patients records, receptionist, scheduling, and other medical office focused careers.

PROGRAM COURSE REQUIREMENTS

Year One

BA 165	Customer Service	3
CIS 120	Introduction to Digital Literacy	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 (or higher)	English Composition: Introduction to Expository Writing*	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 48

*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.

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 MISSION

The Medical Billing and Collections Certificate prepares students by creating a foundation of knowledge and skills in the medical office environment.

PROGRAM DESCRIPTION

The Medical Billing and Collections Certificate is designed to prepare students for a career performing entry-level medical billing and collections for outpatient medical offices and clinics. This certificate leads to the Two-Year Medical Office Administration Degree.

PROGRAM OUTCOMES

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

1. Demonstrate professional skills that lead to success within the medical office workplace
2. Demonstrate effective oral and written communication skills
3. Apply critical thinking and decision-making skills
4. Distinguish the importance of an ethical work environment
5. Apply information and technology tools relevant to the profession

CAREER CONSIDERATIONS

Entry-level medical office positions of medical billing, collections, accounts receivable, and other medical office administration focused career.

PROGRAM COURSE REQUIREMENTS

Year One

CIS 120	Introduction to Digital Literacy	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 (or higher)	English Composition: Introduction to Expository Writing*	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

*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.

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 MISSION

The mission of the Microsoft Office Technologist is to better prepare to sit for and pass the Microsoft certification exam applicable to each Office application.

PROGRAM DESCRIPTION

The Microsoft Office Technologist is designed to prepare students for an entry-level career performing Microsoft Office functions.

PROGRAM OUTCOMES

Students who successfully complete the Microsoft Office Technologist Pathway Certificate will:

1. Demonstrate advanced skills in applicable Microsoft Office application
2. Demonstrate the skills to complete the Microsoft Certification Exam for each Microsoft Office application
3. Apply information and technology tools relevant to the profession

CAREER CONSIDERATIONS

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 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 Introduction to Digital Literacy (CIS 120) during the first term at UCC.

OFFICE TECHNOLOGY

Office Assistant Certificate

PROGRAM MISSION

The Office Assistant Certificate prepares students by creating an entry-level foundation of knowledge and skills in the office environment.

PROGRAM DESCRIPTION

The Office Assistant Certificate is designed to prepare students for an entry-level career performing office functions such as office reception, communication, documentation, accounting, managing documents, and other office functions.

PROGRAM OUTCOMES

Students who successfully complete the Office Assistant Certificate will:

1. Demonstrate professional skills that lead to success within the office workplace
2. Demonstrate effective oral and written communication skills
3. Apply critical thinking and decision-making skills
4. Distinguish the importance of an ethical work environment
5. Apply information and technology tools relevant to the profession

CAREER CONSIDERATIONS

Business office entry-level positions such as clerks, receptionists, office assistants, and other office assistant focused careers.

PROGRAM COURSE REQUIREMENTS

Year One

BA 151	Practical Accounting I	4
BA 165	Customer Service	3
BA 180	Business Math I	3
CIS 120	Introduction to Digital Literacy	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 (or higher)	English Composition: Introduction to Expository Writing*	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 MISSION

The Executive Business Assistant Program prepares students by creating a foundation of knowledge and skills in the office environment.

PROGRAM DESCRIPTION

The two-year Executive Business Assistant degree is designed to prepare students for office functions such as office reception, communication, documentation, accounting, managing documents, social media marketing, and other office functions.

PROGRAM OUTCOMES

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

1. Demonstrate professional skills that lead to success within the office workplace
2. Demonstrate effective oral and written communication skills
3. Apply critical thinking and decision-making skills
4. Distinguish the importance of an ethical work environment
5. Apply information and technology tools relevant to the profession

CAREER CONSIDERATIONS

Business office positions, assistant to a manager or supervisor, office manager assistant, business manager assistant, patient relations manager assistant, and other office assistant focused careers.

PROGRAM COURSE REQUIREMENTS

Year One

BA 101	Introduction to Business	4
BA 116	Principles of Financial Services	4
BA 165	Customer Service	3
BA 180	Business Math I	3
CIS 120	Introduction 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 (or higher)	English Composition: Introduction to Expository Writing*	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
OA 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 MISSION

The Medical Office Administration Program prepares students by creating a foundation of knowledge and skills in the medical office environment.

PROGRAM DESCRIPTION

The two-year Medical Office Administration degree is designed to prepare students for a career performing medical office functions such as scheduling, office reception, coding and billing regulations, medical documentation, managing patient records, writing reports, and other medical office functions.

PROGRAM OUTCOMES

Students who successfully complete the Associate of Applied Science in Medical Office Administration degree will:

1. Demonstrate professional skills that lead to success within the medical office workplace
2. Demonstrate effective oral and written communication skills
3. Apply critical thinking and decision-making skills
4. Distinguish the importance of an ethical work environment
5. Apply information and technology tools relevant to the profession

CAREER CONSIDERATIONS

Entry-level medical office positions, supervisor, office manager, business manager, patient relations manager, and other medical office administration focused careers.

PROGRAM COURSE REQUIREMENTS

Year One

BA 165	Customer Service	3
CIS 120	Introduction to Digital Literacy	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: Introduction to (or higher) Expository Writing*	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 MISSION

The Legal Assistant Certificate program prepares students to become ethical and competent in entry-level work by teaching the practical, technological, and communication skills necessary to be successfully employed in the legal community.

PROGRAM DESCRIPTION

This program is offered completely online and will require that students work in the legal field to gain on the job training in their chosen career field. Learning of practical skills and responsibilities required in this profession will build each term.

PROGRAM OUTCOMES

Students who successfully complete the Legal Assistant Certificate will:

1. Develop various skills and aspects of an entry-level legal assistant
2. Use current technology to create and edit legal documents
3. Develop professional and ethical standards required of legal assistants

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	Introduction 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.

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.

PARALEGAL STUDIES

Paralegal Studies Associate of Applied Science

PROGRAM MISSION

The Paralegal Studies program prepares students to become ethical and competent paralegals by teaching substantive legal concepts as well as the practical, analytical, technological, and communication skills necessary to be successfully employed in the legal community.

PROGRAM DESCRIPTION

This program is offered completely online and will require that students work in the legal field to gain on the job training in their chosen career field. Learning will build each term through both theoretical competencies and practical skills required in this profession. Students will be prepared for highly responsible positions as paralegals upon completion of this program.

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	Introduction 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	Introduction 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 MISSION

The Registered Nursing Program prepares compassionate, competent nurses who are ready to meet our community's health care needs.

PROGRAM DESCRIPTION

The nursing program is a partner in the Oregon Consortium for the Nursing Education (OCNE) and offers a competency-based curriculum jointly developed by nursing faculties from the consortium schools. Acceptance to the program allows for co-admission to the community college and Oregon Health Sciences University (OHSU) nursing programs. The program is designed as four years of full-time study, with the first year devoted to prerequisites and/or preparatory courses required for admission to the restricted (limited) admission nursing program. Successful completion of the second and third years leads to a Associate of Applied Science (AAS) offered by the community college. The program continues for one additional year leading to a Bachelor's of Science, Nursing (BS, N) offered by the Oregon Health & Science University. The full program may be completed at the partner school campus.

The first five terms after admission to the nursing program are identical for the associate and bachelor's work. Term six offers students the ability to complete the AAS degree and provides the eligibility for NCLEX testing to obtain RN licensure. Following completion of the UCC Program, students have the option to complete the upper division nursing courses from OHSU and continue with the curriculum for the final three quarters, culminating with a Bachelor of Science, degree in Nursing. Both the AAS and BS,N degrees meet the educational requirement for the national licensure examination for RN licensure.

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 UCC RN program prepares graduates for employment opportunities in the following areas: Long -term care, various hospital departments, hospice, medical offices, home health, rehabilitation, schools, and more.

PROGRAM COURSE REQUIREMENTS

Year One and Year Two

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
NRS 233	Pathophysiological Processes II	3

Total Credits 60

Prerequisites*

BI 222	Introduction 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 or WR 227	Argument, Research, and Multimodal Comp Technical Writing	4 4

College level courses (numbered 100 and above) to include
One Psychology
AND Two Socials Sciences
AND/OR Arts & Letters electives

9

Total Credits 47

REGISTERED NURSING, continued

Registered Nursing Associate of Applied Science

*All Required Prerequisite courses must be completed with C or better and a minimum prerequisite GPA of 3.00 is required to apply.

- 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 Introduction to 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

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.

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: 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:

All accepted students will be required to provide evidence of their current immunization status and need to meet minimum vaccination requirements as outlined by UCC policy for clinical practice.

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 (or place on probation) applicants with convictions for certain crimes. Licensure applicants with a history of chemical dependence may 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 MISSION

The Professional Truck Driver Certification Program is to provide quality training, including driving, rules and regulations, and safety skills, to Douglas County residents and others interested in a career transporting goods around the county, state and country.

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, and chaining up and completion of the CDL drive test. In order to obtain the Certificate/College Credit, 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.

Truck drivers move commerce by way of tractor trailers, traveling either locally, regionally, or across the country. Lifestyle, wage, hours and physical demands differ by type of driving position. Industry openings include but are not limited to log truck, freight, chip truck, to heavy haul. UCC invites trucking company recruiters to visit and give an overview of their sector and share available jobs with students. Starting wage for an entry-level truck driver averages \$15/hour or .30 cents a mile.

PROGRAM OUTCOMES

Students who successfully complete the Professional Truck Driving Certificate will be able to enter the Trucking Industry as an entry-level truck driver. At a minimum they will be able to:

1. 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
2. Demonstrate proper communication and reporting techniques
3. Apply knowledge of hours of service regulations, accident reporting, trip planning, driver wellness, and safety documentation

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

Applicants for the Professional Truck Driving Certificate program must:

- Be at least 18 years of age and have had a driver's license for a minimum of one year
- Have a clean driving record – no speeding tickets 10 or more miles over the speed limit
- Complete a UCC Truck program application packet
- Complete and pass a DOT physical and Drug Screen
- Request a 5 year court print of your driving record from Oregon and any other state you have lived in during the last 5 years

WELDING

Aluminum Only Pathway Certificate

PROGRAM MISSION

The Aluminum Only Pathway Certificate enriches our community with access to modern and up to date welding education that meets or exceeds industry standards.

PROGRAM DESCRIPTION

The Aluminum Only Pathway Certificate program is designed to provide study in the areas of Aluminum Fabrication to prepare students for entry-level employment in the Aluminum Manufacturing industry. Related occupations for this program certificate would include; boat manufacturing, aerospace and aviation, viticulture and brewing, petrochemical and LNG production.

PROGRAM OUTCOMES

Students who successfully complete the Welding Pathway Certificate will:

1. Apply fundamentals of aluminum 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

CAREER CONSIDERATIONS

Aluminum is the metal of the future. It is 1/3 the weight of steel, has excellent strength to weight ratio, is virtually corrosion resistant, and 100% recyclable. These material properties and many more are making Aluminum the choice metal for future engineering applications around the world, and the Aluminum Only Pathway Certificate prepares students for entry-level jobs and future careers in the following areas:

Boat builders
Fabrication
Aerospace & Aviation
Tool & Die makers
Quality Control
Inspection
Trucking & Transportation equipment
Welding Sales
Automotive Industries

PROGRAM COURSE REQUIREMENTS

Year One

MTH 052	Industrial Applications of Math	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 MISSION

The One Year Welding Certificate enriches our community with access to modern and up to date welding education that meets or exceeds industry standards.

PROGRAM DESCRIPTION

The One Year Welding Certificate program is designed to provide study in the areas of general welding and operations. The primary focus is to provide the student with a foundation of knowledge of general welding and safety. Related welding operations or processes for this program would include; SMAW, GMAW, FCAW, GTAW, OFC, PAC, CAGA, OFW.

PROGRAM OUTCOMES

Students who successfully complete the One-year Welding Certificate will be able to:

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. Demonstrate a knowledge and understanding of safe working conditions, as well as, safety in handling materials, equipment, and personal protective equipment
4. Identify basic components of welding systems and welding processes, proper machine setup, and demonstrate trouble shooting when visual acceptance criteria of a weldment has not been met

CAREER CONSIDERATIONS

The Welding program prepares students for entry-level jobs and future careers in the following areas:

Welder helper
Production Welding
Millwork
Repair
Cutting, Brazing, Soldering
Trucking & Heavy equipment
Structural Iron Work
Welding Sales

PROGRAM COURSE REQUIREMENTS

MFG 108	Starrett: PMI	2
MTH 052	Industrial Applications of Math	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	English Composition: Introduction to 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 MISSION

The Two Year AAS Welding Degree program enriches our community with access to modern and up to date welding education that meets or exceeds industry standards.

PROGRAM DESCRIPTION

The Two Year AAS Welding Degree program is designed to provide study in the areas of welding, fabrication, production, and piping to prepare students for employment in the welding industries that are required to meet specifications and standards. Related specifications and standards for this degree would include; AWS D1.1, D1.2, D1.6, API 1104, ASME Section IX.

PROGRAM OUTCOMES

Students who successfully complete the Associate of Applied Science in Welding will be able to:

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 trouble shooting when visual acceptance criteria of a weldment has not been met
6. Apply an understanding 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 an understanding of national standards and guidelines set forth by AWS, ASME, API, OSHA, and other governing organizations that will affect their work

CAREER CONSIDERATIONS

Related occupations for this program would include: pipe welding and fitting, hydro-electrical and dam construction, waste & fresh water treatment plants, structural and bridge iron workers, aerospace & aviation, inspection & quality control.

PROGRAM COURSE REQUIREMENTS

Year One

MFG 108	Starrett: PMI	3
MTH 052	Industrial Applications of Math	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	Introduction 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.