

# PROGRAM DESCRIPTIONS



# ANTHROPOLOGY

## Anthropology

### Associate of Arts Oregon Transfer

#### FOCUS AREA DESCRIPTION

Anthropology is the study of humans, including biological and cultural origins as well as past and present human behavior and societies. The study of anthropology includes the fields of archaeology, biological anthropology, linguistic anthropology and cultural anthropology. The Associate of Arts Oregon Transfer (AAOT) degree with a focus in anthropology is designed for students who wish to pursue bachelor's degree with this major. Bachelor degree graduates may work in fields such as public service, conservation and heritage management, museum studies, and social work; those who enter graduate school may work in law, medicine and science, teaching, or research.

#### PROGRAM ENTRANCE REQUIREMENTS

None

#### PROGRAM PERFORMANCE STANDARDS

##### Academic Requirements

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses in the program must be completed with a grade of C or higher.

#### PROGRAM COURSE REQUIREMENTS

##### General Education/Foundation

##### Health

3 credits with HHP or HHPA prefix<sup>1</sup> 3

##### Mathematics

MTH 105 Math in Society (or higher) 4  
 Recommend: MTH 105

##### Oral Communication

Choose one course from the following: 3-4

SP 111 Fundamentals Public Speaking  
 SP 114 Argumentation & Discourse  
 SP 115 Intro Intercultural Commun  
 SP 218 Interpersonal Communication  
 SP 219 Small Group Communication

##### Writing

WR 121 Academic Composition 4  
 WR 122 Argument, Research and Multimodal Composition 4  
 or WR 227 Technical Writing

##### General Education/Discipline Studies

One course must be designated as Cultural Literacy.

##### Arts and Letters

Choose at least three courses from at least two prefixes 9-12

##### Social Science

Choose at least four courses from at least two prefixes 12-16  
 Recommend: ANTH 102, ANTH 103, ANTH 240

##### Science/Math/Computer Science

Choose at least four courses from at least two prefixes including at least three laboratory courses in biological and/or physical science. 12-20  
 Recommend: ANTH 234

##### Electives

General Electives 39

**Total Credits 90-106**

<sup>1</sup> HHPA activity courses (1 credit each) are not to be duplicated.

#### ADVISING NOTES

In general, very few bachelor's degrees in Anthropology have specific science requirements. However, if the interest is primarily archaeological,

then Geology would fulfill the lab requirements. If the interest is primarily in physical anthropology, then select a Biology sequence or the Human Anatomy and Physiology sequence.

In choosing electives, consider two years of a world language since many BA degrees (including many anthropology programs) require two years or equivalent of a world language. Some anthropology degrees may also require an upper-division statistics course. Taking MTH 243 Introduction to Probability and Statistics I and MTH 244 Introduction to Probability and Statistics 2 is good preparation for the upper-division requirement. Either of these could count toward the non-lab requirement in the science/math/computer science general education requirement.

# ART

## Art

### Associate of Arts Oregon Transfer

#### FOCUS AREA DESCRIPTION

The Associate of Arts Oregon Transfer (AAOT) with a focus in art includes courses that are commonly required for this major and meets lower division general education requirements at all Oregon public universities. COCC's art curriculum includes courses in art history, drawing, 2D basic design, 3D design, painting, sculpture, ceramics, jewelry and metalwork, digital and darkroom photography and watercolor.

#### PROGRAM ENTRANCE REQUIREMENTS

None

#### PROGRAM PERFORMANCE STANDARDS

##### Academic Requirements

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses in the program must be completed with a grade of C or higher.

#### PROGRAM COURSE REQUIREMENTS

##### General Education/ Foundational

##### Health

3 credits with HHP or HHPA prefix<sup>1</sup> 3

##### Mathematics

MTH 105 Math in Society (or higher) 4

##### Oral Communication

Choose one course from the following: 3-4

SP 111 Fundamentals Public Speaking  
 SP 114 Argumentation & Discourse  
 SP 115 Intro Intercultural Commun  
 SP 218 Interpersonal Communication  
 SP 219 Small Group Communication

##### Writing

WR 121 Academic Composition 4  
 WR 122 Argument, Research and Multimodal Composition 4  
 or WR 227 Technical Writing

##### General Education/ Discipline Studies

One course must be designated as Cultural Literacy.

##### Arts and Letters

Choose at least three courses chosen from at least two prefixes 9-12  
 Recommend two of the following: ARH 201 Art History: Western: Prehistory to Early Byzantine, ARH 202 Art History: Western: Early Medieval to Late Renaissance and ARH 203 Art History: Western: Early Baroque to Late 20th Century plus one additional course from COCC's Discipline Studies list with an ART prefix.

##### Social Science

Choose at least four courses from at least two prefixes 12-16

**Science/Math/Computer Science** 12-20  
Choose at least four courses from at least two prefixes including at least three laboratory courses in biological and/or physical science

**Electives** 39  
Plus enough additional electives to reach the minimum of 90 credits for the AAOT.

Recommend: ART 115 Basic Design: 2-D, ART 116 Basic Design: Color, ART 117 Basic Design: 3-D and ART 131 Drawing I.

**Total Credits 90-106**

<sup>1</sup> HHPA activity courses (1 credit each) are not to be duplicated.

### ADVISING NOTES

Two years of a world language is recommended. Successful transfer to an upper-division arts school or program is usually based not only on transcripts, but also on the student's portfolio. Students seeking transfer to an accredited art school in Oregon or elsewhere are encouraged to work closely with their advisors to build that portfolio.

## AUTOMOTIVE TECHNOLOGY

### Automotive Management

Associate of Applied Science

#### PROGRAM DESCRIPTION

The Automotive Technology program emphasizes educating students as multi-skilled workers with the ability to complete a wide variety of tasks within the automotive technology service and repair setting. Coursework includes technical skills in computer applications, electrical, electronic, mechanical, hydraulic and network systems, both in theory as well as hands-on training. A self-paced method of instruction is offered for the entry-level courses. Communication skills are also highly emphasized throughout each program. The Associate of Applied Science degree enables students to enter the transportation industry as an automotive technician and/or middle management.

#### ACCREDITATION

National Automotive Technicians Education Foundation (NATEF)

#### PROGRAM COSTS

(beyond standard tuition/fees and textbooks)

##### Material Costs

- Materials (coveralls, safety glasses, work jacket, safety shoes, t-shirts): \$200
- ASE (Automotive Service Excellence) Certification – up to \$450 total for all eight areas of testing
- Cost of tools: \$1,500 to \$2,500 depending on the source

##### Enrollment Fees

- All AUT prefix courses up to AUT 260 Diesel Performance II have a \$15 course fee
- All advanced AUT courses (AUT 260 Diesel Performance II and above) have a \$200 course fee

#### PROGRAM ENTRANCE REQUIREMENTS

##### Academic Entrance Requirements

- Required:
  - Students must complete the following five courses prior to proceeding into other AUT courses: AUT 101 Basic Electricity-Automotive, AUT 106 Automotive Program Orientation, AUT 107 Mechanical Systems I, AUT 110 Small Gas Engines and AUT 115 College Success for Auto Tech.
- Recommended:
  - High school diploma or GED

#### PROGRAM PERFORMANCE STANDARDS

##### Academic Requirements

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.

- All courses in the program must be completed with a grade of C or higher.

#### PROGRAM COURSE REQUIREMENTS

##### Core Courses

AUT 101	Basic Electricity-Automotive	2
AUT 102	Automotive Electric I	5
AUT 103	Automotive Electric II	2
AUT 104	Automotive Electric III	2
AUT 105	Diesel Performance I	2
AUT 106	Automotive Program Orientation	1
AUT 107	Mechanical Systems I	3
AUT 110	Small Gas Engines	3
AUT 111	Computerized Engine Controls	5
AUT 112	Basic Engine Performance I	1
AUT 113	Basic Engine Performance II	1
AUT 114	Welding for the Auto Trade	3
AUT 115	College Success for Auto Tech	2
AUT 201	Automotive Engines	4
AUT 202	Manual Drive Trains I	3
AUT 203	Manual Drive Trains II	3
AUT 204	Steering and Suspension	3
AUT 205	Engine Performance I	2
AUT 206	Engine Performance II	2
AUT 208	Automotive Brakes	3
AUT 216A	CWE Automotive A <sup>1</sup>	4
AUT 251	Automatic Transmissions I	3
AUT 253	Automotive Air Conditioning	3
AUT 256	Automatic Transmissions II	2
BA 101	Intro to Business	4
BA 111	Applied Accounting I	3
BA 178	Customer Service	3
BA 206	Management Fundamentals I	4
BA 223	Marketing Principles I	4
BA 280	Co-op Work Experience Business	3
BA 286	Managing Business Processes	4
or BA 250	Entrepreneurship	

##### Other Courses

CIS 120	Computer Concepts (or Computer Competency Test)	0-4
HHP 252A	Fitness/First Aid	3
MTH 060	Algebra I (or higher)	4
WR 121	Academic Composition	4

**Total Credits 100-104**

<sup>1</sup> Automotive CWE may be taken after 24 credits of automotive courses in addition to the basic skills courses, including summer. Students may not enroll in CWE without first being cleared by an instructor. Exceptions are based on individual student goals.

#### ADVISING NOTES

Full-time students are discouraged from working more than 15 hours each week due to a heavy course load. It is recommended that the ASE (Automotive Service Excellence) certification test be taken as the student completes the program.

## Automotive Management: Technology in Electronics and Diagnostics

Associate of Applied Science

#### PROGRAM DESCRIPTION

The Automotive Technology program emphasizes educating students as multi-skilled workers with the ability to complete a wide variety of tasks within the automotive technology service and repair setting. Coursework includes technical skills in computer applications, electrical, electronic, mechanical, hydraulic and network systems, both in theory as well as hands-on training. Heavy emphasis will be placed on the following three areas: Hybrid Electric Vehicles (HEV) /Electric Vehicles (EV), clean diesel



and on-board vehicle networking. A self-paced method of instruction is offered for the entry-level courses. Communication skills are also highly emphasized throughout each program. Both the Associate of Applied Science degree and Master Automotive Certificate option enable students to enter the transportation industry as an automotive technician and/or middle management.

**ACCREDITATION**

National Automotive Technicians Education Foundation (NATEF)

**PROGRAM COSTS**

(beyond standard tuition/fees and textbooks)

**Material Costs**

- Materials (coveralls, safety glasses, work jacket, safety shoes, t-shirts): \$200
- ASE (Automotive Service Excellence) Certification – up to \$450 total for all eight areas of testing
- Cost of tools: \$1,500 to \$2,500 depending on the source

**Enrollment Fees**

- All AUT prefix courses up to AUT 260 Diesel Performance II have a \$15 course fee
- All advanced AUT courses (AUT 260 Diesel Performance II and above) have a \$200 course fee

**PROGRAM ENTRANCE REQUIREMENTS**

**Academic Entrance Requirements**

- Required:
  - Students must complete the following five courses prior to proceeding into other AUT courses: AUT 101 Basic Electricity-Automotive, AUT 106 Automotive Program Orientation, AUT 107 Mechanical Systems I, AUT 110 Small Gas Engines and AUT 115 College Success for Auto Tech.
- Recommended:
  - High school diploma or GED

**PROGRAM PERFORMANCE STANDARDS**

**Academic Requirements**

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses in the program must be completed with a grade of C or higher.

**PROGRAM COURSE REQUIREMENTS**

**Core Courses**

AUT 101	Basic Electricity-Automotive	2
AUT 102	Automotive Electric I	5
AUT 103	Automotive Electric II	2
AUT 104	Automotive Electric III	2
AUT 105	Diesel Performance I	2
AUT 106	Automotive Program Orientation	1
AUT 107	Mechanical Systems I	3
AUT 110	Small Gas Engines	3
AUT 111	Computerized Engine Controls	5
AUT 115	College Success for Auto Tech	2
AUT 201	Automotive Engines	4
AUT 202	Manual Drive Trains I	3
AUT 203	Manual Drive Trains II	3
AUT 204	Steering and Suspension	3
AUT 205	Engine Performance I	2
AUT 206	Engine Performance II	2
AUT 208	Automotive Brakes	3
AUT 216A	CWE Automotive A <sup>1</sup>	4
AUT 216B	CWE Automotive B	4
AUT 251	Automatic Transmissions I	3
AUT 253	Automotive Air Conditioning	3
AUT 256	Automatic Transmissions II	2
AUT 260	Diesel Performance II	4
AUT 270	Auto Controller Systems I	4
AUT 271	Auto Controller Systems II	4
AUT 280	Hybrid Electric Vehicles I (HEV)	4
AUT 281	Hybrid Electric Vehicles II (HEV)	4

**Other Requirements**

BA 178	Customer Service	3
CIS 120	Computer Concepts (or Computer Competency Test)	0-4
CIS 131	Software Applications	4
HHP 252A	Fitness/First Aid	3
MTH 060	Algebra I (or higher)	4
WR 121	Academic Composition	4
<b>Total Credits</b>		<b>101-104</b>

<sup>1</sup> Automotive CWE may be taken after 24 credits of automotive courses in addition to the basic skills courses, including summer. Students may not enroll in CWE without first being cleared by an instructor. Exceptions are based on individual student goals.

**ADVISING NOTES**

Full-time students are discouraged from working more than 15 hours each week due to a heavy course load. It is recommended that the ASE (Automotive Service Excellence) certification test be taken as the student completes the program.

**Master Automotive Technician  
Certificate of Completion**

**PROGRAM DESCRIPTION**

The Master Automotive Technician program emphasizes educating students as multi-skilled workers with the ability to complete a wide variety of tasks within the automotive technology service and repair setting. Coursework includes technical skills in computer applications, electrical, electronic, mechanical, hydraulic and network systems, both in theory as well as hands-on training. A self-paced method of instruction is offered for the entry-level classes. Communication skills are also highly emphasized throughout the program. The program is planned so that students will be able to complete the Master Automotive Technician Certificate in approximately 12 to 15 months as well as earn up to seven short-term certificates of completion. The certificate enables students to enter the transportation industry as an automotive technician.

**ACCREDITATION**

National Automotive Technicians Education Foundation (NATEF)

**PROGRAM COSTS**

(beyond standard tuition/fees and textbooks)

**Material Costs**

- Materials (coveralls, safety glasses, work jacket, safety shoes, t-shirts): \$200
- ASE (Automotive Service Excellence) Certification – up to \$450 total for all eight areas of testing
- Cost of tools: \$1,500 to \$2,500 depending on the source

**Enrollment Fees**

- AUT prefix courses may have a \$15 course fee based on lab usage

**PROGRAM ENTRANCE REQUIREMENTS**

**Academic Entrance Requirements**

- Required:
  - AUT 106 Automotive Program Orientation is a prerequisite or co-requisite to AUT 101 Basic Electricity-Automotive, AUT 110 Small Gas Engines and AUT 115 College Success for Auto Tech. These four courses are prerequisites to all other AUT courses.
- Recommended:
  - High school diploma or GED

**PROGRAM PERFORMANCE STANDARDS**

**Academic Requirements**

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses in the program must be completed with a grade of C or higher.

**PROGRAM COURSE REQUIREMENTS****Core Courses**

AUT 101	Basic Electricity-Automotive	2
AUT 102	Automotive Electric I	5
AUT 103	Automotive Electric II	2
AUT 104	Automotive Electric III	2
AUT 105	Diesel Performance I	2
AUT 106	Automotive Program Orientation	1
AUT 107	Mechanical Systems I	3
AUT 110	Small Gas Engines	3
AUT 111	Computerized Engine Controls	5
AUT 115	College Success for Auto Tech	2
AUT 201	Automotive Engines	4
AUT 202	Manual Drive Trains I	3
AUT 203	Manual Drive Trains II	3
AUT 204	Steering and Suspension	3
AUT 205	Engine Performance I	2
AUT 206	Engine Performance II	2
AUT 208	Automotive Brakes	3
AUT 216A	CWE Automotive A	8
& AUT 216B	and CWE Automotive B <sup>1</sup>	
AUT 251	Automatic Transmissions I	3
AUT 253	Automotive Air Conditioning	3
AUT 256	Automatic Transmissions II	2
Select two Automotive Electives courses from the following:		2-4
AUT 112	Basic Engine Performance I	
AUT 113	Basic Engine Performance II	
AUT 114	Welding for the Auto Trade	
AUT 211	ASE Test Prep I	
AUT 212	ASE Test Prep II	

**Other Required Courses**

Human Relations approved course	3-4	
MTH 060	Algebra I (or higher)	4
WR 060	Rhetoric/Critical Thinking I (or higher)	4

**Total Credits 76-79**

<sup>1</sup> Recommended preparation for CWE is 24 credits of automotive courses in addition to the basic skills courses.

**ADVISING NOTES**

Full-time students are discouraged from working more than 15 hours each week due to a heavy course load.

It is recommended that the ASE (Automotive Service Excellence) certification test be taken as the student completes the program.

This certificate is designed for students planning to enter their chosen career upon graduation. Often only selected credits are considered transferable to public or private baccalaureate institutions.

## Automotive Electrical Technician (Basic)

### Short Term Certificate of Completion

**PROGRAM DESCRIPTION**

Preparation in the electrical technician coursework establishes skill in charging systems, starting systems, voltage drops, electrical troubleshooting, lighting, gauges, accessories, battery load testing, and repairs. This coursework prepares students for the ASE certification in (A6) Electrical/Electronic Systems and (G1) Maintenance and Light Repair.

**PROGRAM COSTS**

(beyond standard tuition/fees and textbooks)

**Material Costs**

- Materials (coveralls, safety glasses, work jacket, safety shoes, t-shirts): \$200
- ASE (Automotive Service Excellence) Certification – up to \$450 total for all eight areas of testing
- Cost of tools: \$1,500 to \$2,500 depending on the source

**Enrollment Fees**

- All AUT prefix courses up to AUT 260 Diesel Performance II have a \$15 course fee

**PROGRAM ENTRANCE REQUIREMENTS****Academic Entrance Requirements**

- Required:
  - Students must complete the following five courses prior to proceeding into other AUT courses: AUT 101 Basic Electricity-Automotive, AUT 106 Automotive Program Orientation, AUT 107 Mechanical Systems I, AUT 110 Small Gas Engines and AUT 115 College Success for Auto Tech.
- Recommended:
  - High school diploma or GED

**PROGRAM PERFORMANCE STANDARDS****Academic Requirements**

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses in the program must be completed with a grade of C or higher.

**PROGRAM COURSE REQUIREMENTS****Required Courses**

AUT 101	Basic Electricity-Automotive	2
AUT 102	Automotive Electric I	5
AUT 106	Automotive Program Orientation	1
AUT 107	Mechanical Systems I	3
AUT 110	Small Gas Engines	3
AUT 115	College Success for Auto Tech	2

**Total Credits 16**

## Automotive Electrical Technician

### (Advanced)

### Short Term Certificate of Completion

**PROGRAM DESCRIPTION**

Preparation in the electrical technician coursework establishes skill in voltage drops, electrical troubleshooting, vehicle ignition systems, logic controls, air bag systems, Controller Area Network, and cruise control. This coursework prepares students for ASE certification in (A6) Electrical/Electronic Systems, (A8) Engine Performance, and (G1) Maintenance and Light Repair.

**PROGRAM COSTS**

(beyond standard tuition/fees and textbooks)

**Material Costs**

- Materials (coveralls, safety glasses, work jacket, safety shoes, t-shirts): \$200
- ASE (Automotive Service Excellence) Certification – up to \$450 total for all eight areas of testing
- Cost of tools: \$1,500 to \$2,500 depending on the source

**Enrollment Fees**

- All AUT prefix courses up to AUT 260 Diesel Performance II have a \$15 course fee

**PROGRAM ENTRANCE REQUIREMENTS****Academic Entrance Requirements**

- Required:
  - Students must complete the following five courses prior to proceeding into other AUT courses: AUT 101 Basic Electricity-Automotive, AUT 106 Automotive Program Orientation, AUT 107 Mechanical Systems I, AUT 110 Small Gas Engines and AUT 115 College Success for Auto Tech.
- Recommended:
  - High school diploma or GED

**PROGRAM PERFORMANCE STANDARDS**

**Academic Requirements**

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses in the program must be completed with a grade of C or higher.

**PROGRAM COURSE REQUIREMENTS**

**Core Courses**

AUT 101	Basic Electricity-Automotive	2
AUT 102	Automotive Electric I	5
AUT 103	Automotive Electric II	2
AUT 104	Automotive Electric III	2
AUT 106	Automotive Program Orientation	1
AUT 107	Mechanical Systems I	3
AUT 110	Small Gas Engines	3
AUT 115	College Success for Auto Tech	2

**Total Credits 20**

## Automotive Engine Performance Technician

### Short Term Certificate of Completion

**PROGRAM DESCRIPTION**

The Automotive Engine Performance Technician short term certificate trains students to be the key troubleshooter in figuring out a vehicle’s drivability problems. Students learn to identify everything from powertrain malfunctions to ignition failures and other engine-related problems using state-of-the-art computer diagnostic equipment, as well as the best way to repair a vehicle. This coursework applies toward ASE certification in (A6) Automotive Electrical/Electronic Systems (A8) Automotive Engine Performance, and the (L1) Advanced Engine Performance Specialist.

**PROGRAM COSTS**

(beyond standard tuition/fees and textbooks)

**Material Costs**

- Materials (coveralls, safety glasses, work jacket, safety shoes, t-shirts): \$200
- ASE (Automotive Service Excellence) Certification – up to \$450 total for all eight areas of testing
- Cost of tools: \$1,500 to \$2,500 depending on the source

**Enrollment Fees**

- All AUT prefix courses up to AUT 260 Diesel Performance II have a \$15 course fee

**PROGRAM ENTRANCE REQUIREMENTS**

**Academic Entrance Requirements**

- Required:
  - Students must complete the following five courses prior to proceeding into other AUT courses: AUT 101 Basic Electricity-Automotive, AUT 106 Automotive Program Orientation, AUT 107 Mechanical Systems I, AUT 110 Small Gas Engines and AUT 115 College Success for Auto Tech.
- Recommended:
  - High school diploma or GED

**PROGRAM PERFORMANCE STANDARDS**

**Academic Requirements**

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses in the program must be completed with a grade of C or higher.

**PROGRAM COURSE REQUIREMENTS**

**Core Courses**

AUT 101	Basic Electricity-Automotive	2
AUT 102	Automotive Electric I	5

AUT 103	Automotive Electric II	2
AUT 105	Diesel Performance I	2
AUT 106	Automotive Program Orientation	1
AUT 107	Mechanical Systems I	3
AUT 110	Small Gas Engines	3
AUT 111	Computerized Engine Controls	5
AUT 115	College Success for Auto Tech	2
AUT 205	Engine Performance I	2
AUT 206	Engine Performance II	2

**Total Credits 29**

## Automotive Basic Skills with Basic Engine Performance

### Short Term Certificate of Completion

**PROGRAM DESCRIPTION**

The Automotive Basic Skills with Basic Engine Performance short term certificate is designed to capture a range of skills that are required for the automotive industry, including basic internal combustion engines and theory, basic DC electrical and schematic understanding, and vehicle inspection. The largest portion addresses shop and vehicle safety. This coursework prepares students for the ASE certification in (G1) Maintenance and Light Repair.

The Automotive Basic Skills with Basic Engine Performance short term certificate also introduces the operation, diagnoses and repair of the carburetion system and the points ignition system. Green statement: As with all engine performance related subjects, fuel delivery in carburetors affects air quality. This class introduces the student to the skill of reducing hydrocarbon and carbon dioxide emissions.

**PROGRAM COSTS**

(beyond standard tuition/fees and textbooks)

**Material Costs**

- Materials (coveralls, safety glasses, work jacket, safety shoes, t-shirts): \$200
- ASE (Automotive Service Excellence) Certification – up to \$450 total for all eight areas of testing
- Cost of tools: \$1,500 to \$2,500 depending on the source

**Enrollment Fees**

- All AUT prefix courses up to AUT 260 Diesel Performance II have a \$15 course fee

**PROGRAM ENTRANCE REQUIREMENTS**

**Academic Entrance Requirements**

- Required:
  - Students must complete the following five courses prior to proceeding into other AUT courses: AUT 101 Basic Electricity-Automotive, AUT 106 Automotive Program Orientation, AUT 107 Mechanical Systems I, AUT 110 Small Gas Engines and AUT 115 College Success for Auto Tech.
- Recommended:
  - High school diploma or GED

**PROGRAM PERFORMANCE STANDARDS**

**Academic Requirements**

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses in the program must be completed with a grade of C or higher.

**PROGRAM COURSE REQUIREMENTS**

**Core Courses**

AUT 101	Basic Electricity-Automotive	2
AUT 106	Automotive Program Orientation	1
AUT 107	Mechanical Systems I	3
AUT 110	Small Gas Engines	3

AUT 112	Basic Engine Performance I	1
AUT 113	Basic Engine Performance II	1
AUT 115	College Success for Auto Tech	2
		<b>Total Credits 13</b>

## Automotive Basic Skills with Welding

### Short Term Certificate of Completion

#### PROGRAM DESCRIPTION

The Automotive Basic Skills with Welding short term certificate is designed to capture a range of skills that are required for the automotive industry, including basic internal combustion engines and theory, basic DC electrical and schematic understanding, and vehicle inspection. The largest portion addresses shop and vehicle safety. This coursework prepares students for the ASE certification in (G1) Maintenance and Light Repair.

#### PROGRAM COSTS

(beyond standard tuition/fees and textbooks)

##### Material Costs

- Materials (coveralls, safety glasses, work jacket, safety shoes, t-shirts): \$200
- ASE (Automotive Service Excellence) Certification – up to \$450 total for all eight areas of testing
- Cost of tools: \$1,500 to \$2,500 depending on the source

##### Enrollment Fees

- All AUT prefix courses up to AUT 260 Diesel Performance II have a \$15 course fee

#### PROGRAM ENTRANCE REQUIREMENTS

##### Academic Entrance Requirements

- Required:
  - Students must complete the following five courses prior to proceeding into other AUT courses: AUT 101 Basic Electricity-Automotive, AUT 106 Automotive Program Orientation, AUT 107 Mechanical Systems I, AUT 110 Small Gas Engines and AUT 115 College Success for Auto Tech.
- Recommended:
  - High school diploma or GED

#### PROGRAM PERFORMANCE STANDARDS

##### Academic Requirements

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses in the program must be completed with a grade of C or higher.

#### PROGRAM COURSE REQUIREMENTS

##### Core Courses

AUT 101	Basic Electricity-Automotive	2
AUT 106	Automotive Program Orientation	1
AUT 107	Mechanical Systems I	3
AUT 110	Small Gas Engines	3
AUT 114	Welding for the Auto Trade	3
AUT 115	College Success for Auto Tech	2
		<b>Total Credits 14</b>

systems. Students learn to identify everything on powertrain malfunctions using the most current computer diagnostic equipment. The Automotive Clean Energy Diesel Technician (Advanced) short term certificate also trains students on the operational principles and theory of Hydraulically actuated Electronically controlled Unit Injection (HEUI) systems, the Electronic Unit Injection (EUI) systems, and the Common Rail (CR) systems. This coursework applies toward ASE certification in (A6) Automotive Electrical/Electronic Systems and (A9) Diesel Engine Performance.

#### PROGRAM COSTS

(beyond standard tuition/fees and textbooks)

##### Material Costs

- Materials (coveralls, safety glasses, work jacket, safety shoes, t-shirts): \$200
- ASE (Automotive Service Excellence) Certification – up to \$450 total for all eight areas of testing
- Cost of tools: \$1,500 to \$2,500 depending on the source

##### Enrollment Fees

- All AUT prefix courses up to AUT 260 Diesel Performance II have a \$15 course fee
- All advanced AUT courses (AUT 260 Diesel Performance II and above) have a \$200 course fee

#### PROGRAM ENTRANCE REQUIREMENTS

##### Academic Entrance Requirements

- Required:
  - Students must complete the following five courses prior to proceeding into other AUT courses: AUT 101 Basic Electricity-Automotive, AUT 106 Automotive Program Orientation, AUT 107 Mechanical Systems I, AUT 110 Small Gas Engines and AUT 115 College Success for Auto Tech.
- Recommended:
  - High school diploma or GED

#### PROGRAM PERFORMANCE STANDARDS

##### Academic Requirements

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses in the program must be completed with a grade of C or higher.

#### PROGRAM COURSE REQUIREMENTS

##### Core Courses

AUT 101	Basic Electricity-Automotive	2
AUT 102	Automotive Electric I	5
AUT 103	Automotive Electric II	2
AUT 104	Automotive Electric III	2
AUT 105	Diesel Performance I	2
AUT 106	Automotive Program Orientation	1
AUT 107	Mechanical Systems I	3
AUT 110	Small Gas Engines	3
AUT 115	College Success for Auto Tech	2
AUT 111	Computerized Engine Controls	5
AUT 205	Engine Performance I	2
AUT 206	Engine Performance II	2
AUT 260	Diesel Performance II	4
		<b>Total Credits 35</b>

## Clean Energy Diesel Technician

### (Advanced)

### Short Term Certificate of Completion

#### PROGRAM DESCRIPTION

The Automotive Clean Energy Diesel Technician (Advanced) short term certificate trains students to be the key troubleshooter in figuring out a vehicle's drivability problems on the most current light duty diesel

## Automotive Controller Systems

### Technician Level I

### Short Term Certificate of Completion

#### PROGRAM DESCRIPTION

The Automotive Controller Systems Technician Level I short term certificate trains students to be the key troubleshooter in figuring out a vehicle's drivability problems. Students learn to identify everything from

powertrain malfunctions to ignition failures and other engine-related problems using state-of-the-art computer diagnostic equipment, as well as the best way to fix the problem for the client. Students will be well prepared to work with multiple vehicle platforms to reprogram vehicle computer systems for safety and vehicle function. Students will become competent working with logic circuits and Controller Area Network. This coursework applies toward ASE certification in (A6) Automotive Electrical/Electronic Systems and (A8) Automotive Engine Performance.

**PROGRAM COSTS**

(beyond standard tuition/fees and textbooks)

**Material Costs**

- Materials (coveralls, safety glasses, work jacket, safety shoes, t-shirts): \$200
- ASE (Automotive Service Excellence) Certification – up to \$450 total for all eight areas of testing
- Cost of tools: \$1,500 to \$2,500 depending on the source

**Enrollment Fees**

- All AUT prefix courses up to AUT 260 Diesel Performance II have a \$15 course fee
- All advanced AUT courses (AUT 260 Diesel Performance II and above) have a \$200 course fee

**PROGRAM ENTRANCE REQUIREMENTS**

**Academic Entrance Requirements**

- Required:
  - Students must complete the following five courses prior to proceeding into other AUT courses: AUT 101 Basic Electricity-Automotive, AUT 106 Automotive Program Orientation, AUT 107 Mechanical Systems I, AUT 110 Small Gas Engines and AUT 115 College Success for Auto Tech.
- Recommended:
  - High school diploma or GED

**PROGRAM PERFORMANCE STANDARDS**

**Academic Requirements**

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses in the program must be completed with a grade of C or higher.

**PROGRAM COURSE REQUIREMENTS**

**Core Courses**

AUT 101	Basic Electricity-Automotive	2
AUT 102	Automotive Electric I	5
AUT 103	Automotive Electric II	2
AUT 104	Automotive Electric III	2
AUT 105	Diesel Performance I	2
AUT 106	Automotive Program Orientation	1
AUT 107	Mechanical Systems I	3
AUT 110	Small Gas Engines	3
AUT 111	Computerized Engine Controls	5
AUT 115	College Success for Auto Tech	2
AUT 205	Engine Performance I	2
AUT 206	Engine Performance II	2
AUT 270	Auto Controller Systems I	4

**Total Credits 35**

**Automotive Controller Systems Technician Level 2**  
Short Term Certificate of Completion

**PROGRAM DESCRIPTION**

The Automotive Controller Systems Technician Level 2 trains students to be the key troubleshooter in figuring out a vehicle’s drivability problems. Students learn to identify everything from powertrain malfunctions to ignition failures and other engine-related problems using state-of-the-art

computer diagnostic equipment. This coursework applies toward ASE certification in (A6) Automotive Electrical/Electronic Systems, (A8) Automotive Engine Performance, and the (L1) Advanced Engine Performance Specialist.

The Automotive Controller Systems Technician Level 2 also trains students in testing volumetric efficiency, performance as it relates to program modification, dynamometer operation and safety, and reprogramming for performance.

**PROGRAM COSTS**

(beyond standard tuition/fees and textbooks)

**Material Costs**

- Materials (coveralls, safety glasses, work jacket, safety shoes, t-shirts): \$200
- ASE (Automotive Service Excellence) Certification – up to \$450 total for all eight areas of testing
- Cost of tools: \$1,500 to \$2,500 depending on the source

**Enrollment Fees**

- All AUT prefix courses up to AUT 260 Diesel Performance II have a \$15 course fee
- All advanced AUT courses (AUT 260 Diesel Performance II and above) have a \$200 course fee

**PROGRAM ENTRANCE REQUIREMENTS**

**Academic Entrance Requirements**

- Required:
  - Students must complete the following five courses prior to proceeding into other AUT courses: AUT 101 Basic Electricity-Automotive, AUT 106 Automotive Program Orientation, AUT 107 Mechanical Systems I, AUT 110 Small Gas Engines and AUT 115 College Success for Auto Tech.
- Recommended:
  - High school diploma or GED

**PROGRAM PERFORMANCE STANDARDS**

**Academic Requirements**

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses in the program must be completed with a grade of C or higher.

**PROGRAM COURSE REQUIREMENTS**

**Core Courses**

AUT 101	Basic Electricity-Automotive	2
AUT 102	Automotive Electric I	5
AUT 103	Automotive Electric II	2
AUT 104	Automotive Electric III	2
AUT 105	Diesel Performance I	2
AUT 106	Automotive Program Orientation	1
AUT 107	Mechanical Systems I	3
AUT 110	Small Gas Engines	3
AUT 111	Computerized Engine Controls	5
AUT 115	College Success for Auto Tech	2
AUT 205	Engine Performance I	2
AUT 206	Engine Performance II	2
AUT 270	Auto Controller Systems I	4
AUT 271	Auto Controller Systems II	4

**Total Credits 39**

**Automotive Drive Train Technician**  
Short Term Certificate of Completion

**PROGRAM DESCRIPTION**

Preparation to work with vehicle drivelines, transaxles, clutches, differentials and transmissions.

The Automotive Drive-Train Technician short term certificate prepares students on all elements of manual and automatic transmissions, as well



as basic hydraulic and electrical principles. The automotive drive-train courses apply toward ASE certification in (A2) Automotive Automatic Transmission, (A3) Automotive Manual Drive Trains and Axles, and (G1) Maintenance and Light Repair.

### PROGRAM COSTS

(beyond standard tuition/fees and textbooks)

#### Material Costs

- Materials (coveralls, safety glasses, work jacket, safety shoes, t-shirts): \$200
- ASE (Automotive Service Excellence) Certification – up to \$450 total for all eight areas of testing
- Cost of tools: \$1,500 to \$2,500 depending on the source

#### Enrollment Fees

- All AUT prefix courses up to AUT 260 Diesel Performance II have a \$15 course fee

### PROGRAM ENTRANCE REQUIREMENTS

#### Academic Entrance Requirements

- Required:
  - Students must complete the following five courses prior to proceeding into other AUT courses: AUT 101 Basic Electricity-Automotive, AUT 106 Automotive Program Orientation, AUT 107 Mechanical Systems I, AUT 110 Small Gas Engines and AUT 115 College Success for Auto Tech.
- Recommended:
  - High school diploma or GED

### PROGRAM PERFORMANCE STANDARDS

#### Academic Requirements

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses in the program must be completed with a grade of C or higher.

### PROGRAM COURSE REQUIREMENTS

#### Core Courses

AUT 101	Basic Electricity-Automotive	2
AUT 106	Automotive Program Orientation	1
AUT 107	Mechanical Systems I	3
AUT 110	Small Gas Engines	3
AUT 115	College Success for Auto Tech	2
AUT 202	Manual Drive Trains I	3
AUT 203	Manual Drive Trains II	3
AUT 251	Automatic Transmissions I	3
AUT 256	Automatic Transmissions II	2

**Total Credits 22**

## Automotive Engine Technician

### Short Term Certificate of Completion

#### PROGRAM DESCRIPTION

Preparation and study of an automotive engine rebuilding process. Included is the study of diesel engine systems. This coursework applies toward ASE certification in (A1) Automotive Engine Repair, (A9) Light Vehicle Diesel Engines, and (G1) Maintenance and Light Repair.

#### PROGRAM COSTS

(beyond standard tuition/fees and textbooks)

#### Material Costs

- Materials (coveralls, safety glasses, work jacket, safety shoes, t-shirts): \$200
- ASE (Automotive Service Excellence) Certification – up to \$450 total for all eight areas of testing
- Cost of tools: \$1,500 to \$2,500 depending on the source

#### Enrollment Fees

- All AUT prefix courses up to AUT 260 Diesel Performance II have a \$15 course fee

### PROGRAM ENTRANCE REQUIREMENTS

#### Academic Entrance Requirements

- Required:
  - Students must complete the following five courses prior to proceeding into other AUT courses: AUT 101 Basic Electricity-Automotive, AUT 106 Automotive Program Orientation, AUT 107 Mechanical Systems I, AUT 110 Small Gas Engines and AUT 115 College Success for Auto Tech.
- Recommended:
  - High school diploma or GED

### PROGRAM PERFORMANCE STANDARDS

#### Academic Requirements

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses in the program must be completed with a grade of C or higher.

### PROGRAM COURSE REQUIREMENTS

#### Core Courses

AUT 101	Basic Electricity-Automotive	2
AUT 105	Diesel Performance I	2
AUT 106	Automotive Program Orientation	1
AUT 107	Mechanical Systems I	3
AUT 110	Small Gas Engines	3
AUT 115	College Success for Auto Tech	2
AUT 201	Automotive Engines	4

**Total Credits 17**

## Automotive Heating & Air Conditioning Technician

### Short Term Certificate of Completion

#### PROGRAM DESCRIPTION

The Automotive Heating and Air Conditioning short term certificate gives students a hands-on opportunity to learn about automotive air conditioning and heating systems, EPA Recovery Requirements for R-12, R-134a, and R1234yf systems, and general diagnosis and service. Courses in this option apply toward ASE certification in (A7) Automotive Heating and Air Conditioning, (A6) Electrical/Electronic Systems and (G1) Maintenance and Light Repair.

#### PROGRAM COSTS

(beyond standard tuition/fees and textbooks)

#### Material Costs

- Materials (coveralls, safety glasses, work jacket, safety shoes, t-shirts): \$200
- ASE (Automotive Service Excellence) Certification – up to \$450 total for all eight areas of testing
- Cost of tools: \$1,500 to \$2,500 depending on the source

#### Enrollment Fees

- All AUT prefix courses up to AUT 260 Diesel Performance II have a \$15 course fee

### PROGRAM ENTRANCE REQUIREMENTS

#### Academic Entrance Requirements

- Required:
  - Students must complete the following five courses prior to proceeding into other AUT courses: AUT 101 Basic Electricity-Automotive, AUT 106 Automotive Program Orientation, AUT 107 Mechanical Systems I, AUT 110 Small Gas Engines and AUT 115 College Success for Auto Tech.
- Recommended:
  - High school diploma or GED

**PROGRAM PERFORMANCE STANDARDS**

**Academic Requirements**

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses in the program must be completed with a grade of C or higher.

**PROGRAM COURSE REQUIREMENTS**

**Core Courses**

AUT 101	Basic Electricity-Automotive	2
AUT 102	Automotive Electric I	5
AUT 106	Automotive Program Orientation	1
AUT 107	Mechanical Systems I	3
AUT 110	Small Gas Engines	3
AUT 115	College Success for Auto Tech	2
AUT 253	Automotive Air Conditioning	3
<b>Total Credits</b>		<b>19</b>

**Automotive Hybrid Electric Vehicles Technician - Level 1**  
Short Term Certificate of Completion

**PROGRAM DESCRIPTION**

The Automotive Hybrid Electric Vehicles Technician – Level 1 short term certificate trains students to be the key troubleshooter in figuring out a vehicle’s drivability problems. Students learn to identify everything from powertrain malfunctions to ignition failures and other engine-related problems using state-of-the-art computer diagnostic equipment, as well as the best way to fix the problem for the client. Students will be introduced to hybrid (HEV) and electric (EV) vehicles to study and apply skills on diagnosing systems on an array of vehicles with electric drive systems. This coursework applies toward ASE certification in (A6) Automotive Electrical/Electronic Systems and (L3) Light Duty Hybrid / Electric Vehicle Specialist.

**PROGRAM COSTS**

(beyond standard tuition/fees and textbooks)

**Material Costs**

- Materials (coveralls, safety glasses, work jacket, safety shoes, t-shirts): \$200
- ASE (Automotive Service Excellence) Certification – up to \$450 total for all eight areas of testing
- Cost of tools: \$1,500 to \$2,500 depending on the source

**Enrollment Fees**

- All AUT prefix courses up to AUT 260 Diesel Performance II have a \$15 course fee
- All advanced AUT courses (AUT 260 Diesel Performance II and above) have a \$200 course fee

**PROGRAM ENTRANCE REQUIREMENTS**

**Academic Entrance Requirements**

- Required:
  - Students must complete the following five courses prior to proceeding into other AUT courses: AUT 101 Basic Electricity-Automotive, AUT 106 Automotive Program Orientation, AUT 107 Mechanical Systems I, AUT 110 Small Gas Engines, and AUT 115 College Success for Auto Tech.
- Recommended:
  - High school diploma or GED

**PROGRAM PERFORMANCE STANDARDS**

**Academic Requirements**

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses in the program must be completed with a grade of C or higher.

**PROGRAM COURSE REQUIREMENTS**

**Core Courses**

AUT 101	Basic Electricity-Automotive	2
AUT 102	Automotive Electric I	5
AUT 103	Automotive Electric II	2
AUT 104	Automotive Electric III	2
AUT 105	Diesel Performance I	2
AUT 106	Automotive Program Orientation	1
AUT 107	Mechanical Systems I	3
AUT 110	Small Gas Engines	3
AUT 111	Computerized Engine Controls	5
AUT 115	College Success for Auto Tech	2
AUT 205	Engine Performance I	2
AUT 206	Engine Performance II	2
AUT 280	Hybrid Electric Vehicles I	4
<b>Total Credits</b>		<b>35</b>

**Automotive Hybrid Electric Vehicles Technician - Level 2**  
Short Term Certificate of Completion

**PROGRAM DESCRIPTION**

The Automotive Hybrid Electric Vehicles Technician – Level 2 short term certificate is a continuation on the Automotive Hybrid Electric Vehicles Technician – Level 1 short term certificate. Students will become well prepared to analyze and repair electric drive vehicles as it applies to the state-of-health and predictive maintenance on vehicles with electric drive systems. Students will be able to experience extensive time with analysis of vehicles with electric drive systems. Emphasis will be placed on high voltage battery systems and inverter diagnosis. This coursework applies toward ASE certification in (A6) Automotive Electrical/Electronic Systems and (L3) Light Duty Hybrid/Electric Vehicle Specialist.

**PROGRAM COSTS**

(beyond standard tuition/fees and textbooks)

**Material Costs**

- Materials (coveralls, safety glasses, work jacket, safety shoes, t-shirts): \$200
- ASE (Automotive Service Excellence) Certification – up to \$450 total for all eight areas of testing
- Cost of tools: \$1,500 to \$2,500 depending on the source

**Enrollment Fees**

- All AUT prefix courses up to AUT 260 Diesel Performance II have a \$15 course fee
- All advanced AUT courses (AUT 260 Diesel Performance II and above) have a \$200 course fee

**PROGRAM ENTRANCE REQUIREMENTS**

**Academic Entrance Requirements**

- Required:
  - Students must complete the following five courses prior to proceeding into other AUT courses: AUT 101 Basic Electricity-Automotive, AUT 106 Automotive Program Orientation, AUT 107 Mechanical Systems I, AUT 110 Small Gas Engines, and AUT 115 College Success for Auto Tech.
- Recommended:
  - High school diploma or GED

**PROGRAM PERFORMANCE STANDARDS**

**Academic Requirements**

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses in the program must be completed with a grade of C or higher.

**PROGRAM COURSE REQUIREMENTS****Core Courses**

AUT 101	Basic Electricity-Automotive	2
AUT 102	Automotive Electric I	5
AUT 103	Automotive Electric II	2
AUT 104	Automotive Electric III	2
AUT 105	Diesel Performance I	2
AUT 106	Automotive Program Orientation	1
AUT 107	Mechanical Systems I	3
AUT 110	Small Gas Engines	3
AUT 111	Computerized Engine Controls	5
AUT 115	College Success for Auto Tech	2
AUT 205	Engine Performance I	2
AUT 206	Engine Performance II	2
AUT 280	Hybrid Electric Vehicles I	4
AUT 281	Hybrid Electric Vehicles II	4

**Total Credits 39****Under-Car Technician****Short Term Certificate of Completion****PROGRAM DESCRIPTION**

The Automotive Under-Car Technician short term certificate gives students an in-depth understanding of under-vehicle systems: brakes, suspension, driveline and electrical, and prepares students for a job in suspension and brakes, either as a technician or manager. The under-car technician courses apply toward ASE certification in (A5) Automotive Brakes, (A4) Automotive Steering and Suspension, and (G1) Maintenance and Light Repair.

**PROGRAM COSTS**

(beyond standard tuition/fees and textbooks)

**Material Costs**

- Materials (coveralls, safety glasses, work jacket, safety shoes, t-shirts): \$200
- ASE (Automotive Service Excellence) Certification – up to \$450 total for all eight areas of testing
- Cost of tools: \$1,500 to \$2,500 depending on the source

**Enrollment Fees**

- All AUT prefix courses up to AUT 260 Diesel Performance II have a \$15 course fee

**PROGRAM ENTRANCE REQUIREMENTS****Academic Entrance Requirements**

- Required:
  - Students must complete the following five courses prior to proceeding into other AUT courses: AUT 101 Basic Electricity-Automotive, AUT 106 Automotive Program Orientation, AUT 107 Mechanical Systems I, AUT 110 Small Gas Engines, and AUT 115 College Success for Auto Tech.
- Recommended:
  - High school diploma or GED

**PROGRAM PERFORMANCE STANDARDS****Academic Requirements**

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses in the program must be completed with a grade of C or higher.

**PROGRAM COURSE REQUIREMENTS****Core Courses**

AUT 101	Basic Electricity-Automotive	2
AUT 106	Automotive Program Orientation	1
AUT 107	Mechanical Systems I	3
AUT 110	Small Gas Engines	3
AUT 115	College Success for Auto Tech	2
AUT 204	Steering and Suspension	3
AUT 208	Automotive Brakes	3

**Total Credits 17****AVIATION****Aviation - Professional Pilot Airplane**  
Associate of Applied Science**PROGRAM DESCRIPTION**

The Aviation program trains individuals to work as professional pilots in the air transportation industry. The opportunities in the pilot career field are fascinating and many, and include piloting a commercial airliner, flying for a corporation providing a service to the leaders of the company, flying as a charter pilot taking passengers point-to-point, providing flight instruction to new pilot students and operating autonomous aerial vehicles.

Students in the airplane track will be eligible to earn the FAA Private Pilot and Commercial Pilot certificates (single and multiengine), the Instrument rating, the Multiengine rating and Certified Flight Instructor certificate/ratings (CFI, CFII, MEI). Training will be conducted under Federal Aviation Regulations Part 61.

**PROGRAM COSTS**

(beyond standard tuition/fees and textbooks)

**Material Costs**

- All fees for the term must be paid in full by 5 p.m. on Friday of the second week of the term.
- Unless under unusual, nonacademic and documented circumstances simulator fees are non-refundable.
- Used portions of flight fees are non-refundable.
- Pilot headset, approximately \$350.
- Flight Labs: Authorized Aircraft and Hourly Rates: Airplane Aircraft: C-172, C-182, Seminole, Bonanza, Baron, Decathlon, FTD
  - **AV222A Airplane Flight Lab, Private Pilot (AV110)**  
Cessna 172  
16 hrs. Pre/Post Instruction @ \$35 = \$560  
20 hrs. Dual flight @ \$200 = \$4,000  
2.25 hrs. Dual FTD @ \$90 = \$202.50  
Total = \$4,762.50  
Total Flight Hrs. = 22.25 hrs. (1 credit)
  - **AV222B Airplane Flight Lab, Private Pilot (AV110)**  
Cessna 172  
14 hrs. Pre/Post Instruction @ \$35 = \$490  
5 hrs. Dual flight @ \$200 = \$3,000  
5 hrs. Solo flight @ \$165 = \$825  
3 hrs. Dual FTD @ \$90 = \$270  
Written Exam: \$160  
DPE Fee: \$450  
Total = \$5,195.00  
Total Flight Hrs. = 23 hrs. (1 credit)
  - **AV222C Airplane Flight Lab, Private Pilot (AV110)**  
Cessna 172  
11 hrs. Pre/Post Instruction @ \$35 = \$385  
10 hrs. Dual flight @ \$200 = \$2,000  
10 hrs. Solo flight @ \$165 = \$1,650  
Total = \$4,035.00  
Total Flight Hrs. = 20 hrs. (1 credit)
  - **AV222D Airplane Flight Lab, Instrument Pilot (AV210)**  
Cessna 172  
13 hrs. Pre/Post Instruction @ \$35 = \$455  
24 hrs. Dual flight @ \$200 = \$4,800  
10 hrs. Dual FTD @ \$90 = \$900  
Written Exam: \$160  
DPE Fee: \$450  
Total = \$6,765.00  
Total Flight Hrs. = 34 hrs. (1 credit)
  - **AV222E Airplane Flight Lab, Instrument Pilot (AV210)**  
Cessna 172  
13 hrs. Pre/Post Instruction @ \$35 = \$455  
24 hrs. Dual flight @ \$200 = \$4,800

12 hrs. Dual FTD @ \$90 = \$1,080  
 Total = \$6,335.00  
 Total Flight Hrs. =36 hrs. (1 credit)

• **AV222F Airplane Flight Lab, Commercial Pilot (AV220)  
 Cessna 172**

12 hrs. Pre/Post Instruction @ \$35 = \$420  
 28 hrs. Dual flight @ \$200 = \$5,600  
 25 hrs. Solo flight @ \$165=\$4,125  
 12 hrs. Dual FTD @ \$90 = \$1,080  
 Total = \$11,225.00  
 Total Flight Hrs. =65 hrs. (1 credit)

• **AV222G Airplane Flight Lab, Commercial Pilot (AV220)  
 Cessna 172, Cessna 182, Bonanza**

22 hrs. Pre/Post Instruction @ \$35 = \$770  
 19 hrs. Dual flight @ \$200 = \$3,800  
 25 hrs. Dual flight @ \$260=\$6,500  
 34 hrs. Solo flight @ \$165=\$5,610  
 12 hrs. Dual FTD @ \$90 = \$1,080  
 Written Exam: \$160  
 DPE Fee: \$450  
 Total = \$18,370.00  
 Total Flight Hrs. =90 hrs. (1 credit)

• **AV222M Airplane Flight Lab, Commercial Pilot (AV220)  
 Decathlon**

14 hrs. Pre/Post Instruction @ \$35 = \$490  
 9 hrs. Dual flight @ \$545.56 = \$4,910  
 Total = \$5400.00  
 Total Flight Hrs. =9 hrs. (1 credit)

• **AV222I Airplane Flight Lab, Certified Flight Instructor (AV250)  
 Cessna 182, Bonanza**

22 hrs. Pre/Post Instruction @ \$35 = \$770  
 38 hrs. Dual flight @ \$260=\$9,880  
 Written Exam: \$320  
 DPE Fee: \$650  
 Total = \$11,620.00  
 Total Flight Hrs. =38 hrs. (1 credit)

• **AV222J Airplane Flight Lab, Certified Flight Instructor (AV250)  
 Cessna 172**

12 hrs. Pre/Post Instruction @ \$35 = \$420  
 15 hrs. Dual flight @ \$200 = \$3,000  
 6 hrs. Dual FTD @ \$90 = \$540  
 Written Exam: \$160  
 DPE Fee: \$450  
 Total = \$4,570.00  
 Total Flight Hrs. =21 hrs. (1 credit)

• **AV222K Airplane Flight Lab, Multi Engine Pilot (AV230)  
 Baron, Seminole**

10 hrs. Pre/Post Instruction @ \$35 = \$350  
 20 hrs. Dual flight @ \$385 = \$7,700  
 DPE Fee: \$450  
 Total = \$8,500.00  
 Total Flight Hrs. =20 hrs. (1 credit)

• **AV222H Airplane Flight Lab, Multi Engine Pilot (AV230)  
 Baron, Seminole**

16 hrs. Pre/Post Instruction @ \$35 = \$560  
 22 hrs. Dual flight @ \$385 = \$8,470  
 2 hrs. Dual FTD @ \$90 = \$180  
 DPE Fee: \$450  
 Total = \$9,660.00  
 Total Flight Hrs. =24 hrs. (1 credit)

**Enrollment Fees**

- None

**PROGRAM ENTRANCE REQUIREMENTS**

**Academic Entrance Requirements**

- None

**Other Entrance Requirements**

- Required:
  - Students who enroll in this course of study must have a valid FAA Medical Certificate and a student pilot certificate. A doctor designated by the FAA as an Aviation Medical Examiner must conduct the medical exam. Incoming students in the professional pilot program are encouraged to obtain at least a second-class medical certificate prior to entry into the program to ensure that they can eventually pursue a career in commercial aviation. The medical application form will ask the applicant’s prior medical history, prior DUI/DUII, any record of alcohol or substance abuse and any history of non-traffic misdemeanors or felonies.

**PROGRAM PERFORMANCE STANDARDS**

**Academic Requirements**

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- Students must maintain a minimum 2.0 GPA while enrolled in the program. Students who do not maintain this standard and desire to continue the program, require completion of a training plan approved by their COCC advisor.
- All courses in the program must be completed with a grade of C or higher.

**Additional Requirements**

- Students must be prepared to fly three to four days per week in order to maintain the rigorous schedule that is required in order to complete the flight training in a timely manner.
- National/state legal eligibility or unique requirements for licensure and/or entry into occupation, or advancement in the occupation
- Pilots are credentialed by the Federal Aviation Administration (FAA) and must meet the requirements of the Federal Aviation Regulations to qualify for the pilot certificates/ratings.
- FAA medical certificate required prior to beginning flight training.
- Student Pilot certificate required prior to beginning flight training.
- The FAA requires applicants pass an airman knowledge exam for pilot certificates/ratings. A third-party company administers those exams and a \$160 testing fee is required.
- Pilot certificates/ratings are issued after an applicant passes a practical exam (ground oral exam and flight check) administered by a Designated Pilot Examiner (DPE) who will charge a fee for that exam.
- Background checks and random drug screening can be expected in any aviation industry position.

**PROGRAM COURSE REQUIREMENTS**

**Core Courses**

AV 101	Introduction to Aviation <sup>1</sup>	3
AV 104	Introduction to Aircraft Systems <sup>1</sup>	4
AV 108	Meteorology I <sup>1</sup>	4
AV 110	Private Pilot - Airplane <sup>2</sup>	5
AV 112	Technically Advanced Aircraft	1
AV 112A	Tech Advanced Aircraft Lab	1
AV 150	Aerodynamics <sup>1</sup>	4
AV 200	Aviation Law <sup>1</sup>	3
or AV 201	Airport Management	
AV 204	Advanced Aircraft Systems <sup>1</sup>	4
AV 208	Meteorology II <sup>1</sup>	4
AV 210	Instrument - Airplane <sup>4</sup>	5
AV 220	Commercial Pilot-Airplane <sup>4</sup>	4
AV 230	Multiengine Pilot <sup>4</sup>	2
AV 235	Human Factors <sup>1</sup>	4
AV 246	Aviation Safety <sup>1</sup>	3
AV 250	CFI - Airplane <sup>4</sup>	5

**Airplane Flight Labs<sup>3</sup>**

AV 222A	Airplane Flight Lab	12
AV 222B	Airplane Flight Lab	



AV 222C	Airplane Flight Lab	
AV 222D	Airplane Flight Lab	
AV 222E	Airplane Flight Lab	
AV 222F	Airplane Flight Lab	
AV 222G	Airplane Flight Lab	
AV 222H	Airplane Flight Lab	
AV 222I	Airplane Flight Lab	
AV 222J	Airplane Flight Lab	
AV 222K	Airplane Flight Lab	
AV 222M	Airplane Flight Lab	

**Other Required Courses**

BA 206	Management Fundamentals I	4
or BA 101	Intro to Business	
BA 285	Business Human Relations	3
or SP 218	Interpersonal Communication	
CIS 120	Computer Concepts (Computer Competency Test)	0-4
Discipline Studies Courses		8
MTH 085	Technical Mathematics I	4
or MTH 111 or higher		
WR 121	Academic Composition <sup>5</sup>	3-4
or BA 214	Business Communications	
<b>Total Credits 90-95</b>		

<sup>1</sup> May be taken in any order, in any term and may be taken before, with or after the flight courses.

<sup>2</sup> Must be taken as the first flight course. May be taken any term.

<sup>3</sup> Flight fees, simulator fees and FAA testing fees are required in addition to normal tuition for all flight labs and must be paid by the end of the second week of the term. Used portions of flight fees are not refundable. Contact the Aviation program director, 541.318.3702, for more information.

<sup>4</sup> The Instrument Airplane course AV 210, Commercial Airplane course AV220 and Certified Flight Instructor course AV 250 shall be completed before the Multiengine Pilot course AV230 can be taken.

<sup>5</sup> WR 121 recommended for students who will pursue a bachelor's degree.

**ADVISING NOTES**

Airplane students in particular should plan to transfer to an institution granting bachelor's degrees to enhance employment opportunities. Therefore, the program works with several universities for transfer options. The AAS degree is designed to train the student as a professional pilot. Universities that have an aviation bachelor's degree (Eastern Kentucky University, Embry-Riddle Aeronautical University, etc.) will often accept the majority of these credits toward their degree.

Those wishing to transfer to Oregon Institute of Technology should use the Associate of Science (AS) degree program. For information about transfer requirements at other institutions, contact the Aviation program director, 541.318.3702.

## Aviation - Professional Pilot Helicopter Associate of Applied Science

**PROGRAM DESCRIPTION**

The Aviation program trains individuals to work as professional pilots in the air transportation industry. Students in the helicopter track will be eligible to earn the FAA Private Pilot and Commercial Pilot certificates, the Instrument rating and Certified Flight Instructor certificate/rating (CFI, CFII). Training will be conducted under Federal Aviation Regulations Part 61

**PROGRAM COSTS**

(beyond standard tuition/fees and textbooks)

**Material Costs**

- All fees for the term must be paid in full by 5 p.m. on Friday of the second week of the term.

- Unless under unusual, nonacademic and documented circumstances simulator fees are non-refundable.
- Used portions of flight fees are non-refundable.
- Pilot headset, approximately \$350.
- Flight Labs: Authorized Aircraft and Hourly Rates:

**Helicopter Series I Aircraft: Robinson R22, R44, B206, FTD**

- AV 227A Helicopter Flight Lab, Private Pilot (AV115)**

**Robinson R22**

15 hrs. Pre/Post Instruction @ \$35 = \$525

24 hrs. Dual flight @ \$360 = \$8,640

3 hrs. Dual FTD @ \$195 = \$585

Total = \$9,750.00

Total Flight Hrs. = 27 hrs. (1 credit)

- AV 227B Helicopter Flight Lab, Private Pilot (AV115)**

**Robinson R22**

16 hrs. Pre/Post Instruction @ \$35 = \$560

24 hrs. Dual flight @ \$360 = \$8,640

2 hrs. Dual FTD @ \$195 = \$390

Total = \$9,590.00

Total Flight Hrs. = 26 hrs. (1 credit)

- AV 227C Helicopter Flight Lab, Private Pilot (AV115)**

**Robinson R22**

16 hrs. Pre/Post Instruction @ \$35 = \$560

14 hrs. Dual flight @ \$360 = \$5,040

10 hrs. Solo flight @ \$360 \* = \$3,600

2 hrs. Dual FTD @ \$195 = \$390

Written Exam Fee = \$160

DPE Fee = \$750

Total = \$10,500.00

Total Flight Hrs. = 26 hrs. (1 credit)

\*Supervised Solo- charged at a dual rate due to required presence of a certified flight instructor

- AV 227D Helicopter Flight Lab, Instrument Pilot (AV215)**

**Robinson R44**

20 hrs. Pre/Post Instruction @ \$35 = \$700

20 hrs. Dual flight @ \$650 = \$13,000

(Dual flight includes 15 hrs Pilot in Command)

10 hrs. Dual FTD @ \$195 = \$1,950

Total = \$15,650.00

Total Flight Hrs. = 30 hrs. (1 credit)

- AV 227E Helicopter Flight Lab, Instrument Pilot (AV215)**

**Robinson R44**

25 hrs. Pre/Post Instruction @ \$35 = \$875

15 hrs. Dual flight @ \$650 = \$9,750

10 hrs. Dual FTD @ \$195 = \$1,950

Written Exam Fee = \$160

DPE Fee = \$750

Total = \$13,485.00

Total Flight Hrs. = 25 hrs. (1 credit)

- AV 227N Helicopter Flight Lab, Instrument Pilot (AV215)**

**Robinson R44**

10 hrs. Pre/Post Instruction @ \$35 = \$350

10 hrs. Dual flight @ \$760\* = \$7,600

NVG Fee = \$500

Total = \$8,450.00

Total Flight Hrs. = 10 hrs. (1 credit)

\*Flown in a night vision google compatible helicopter

- AV 227F Helicopter Flight Lab, Commercial Pilot (AV225)**

**Robinson R22**

18 hrs. Pre/Post Instruction @ \$35 = \$630

35 hrs. Dual flight @ \$360 = \$12,600

(Dual flight includes 15 hrs Pilot in Command)

2 hrs. Dual FTD @ \$195 = \$390

Total = \$13,620.00

Total Flight Hrs. = 37 hrs. (1 credit)

- **AV 227G Helicopter Flight Lab, Commercial Pilot (AV225) Robinson R22**  
18 hrs. Pre/Post Instruction @ \$35 = \$630  
35 hrs. Dual flight @ \$360 = \$12,600  
2 hrs. Dual FTD @ \$195 = \$390  
Written Exam Fee = \$160  
DPE Fee = \$750  
Total = \$14,530.00  
Total Flight Hrs. = 37 hrs. (1 credit)
  - **AV 227H Helicopter Flight Lab, Commercial Pilot (AV225) Bell 206**  
12 hrs. Pre/Post Instruction @ \$35 = \$420  
20 hrs. Dual flight @ \$935 = \$18,700  
Total = \$19,120.00  
Total Flight Hrs. = 20 hrs. (1 credit)
  - **AV 227I Helicopter Flight Lab, Certified Flight Instructor (AV255) Robinson R22**  
53 hrs. Pre/Post Instruction @ \$35 = \$1,855  
20 hrs. Dual flight @ \$360 = \$7,200  
2 hrs. Dual FTD @ \$195 = \$390  
Written Exam Fee = \$320  
DPE Fee = \$850  
Total = \$10,615.00  
Total Flight Hrs. = 22 hrs. (1 credit)
  - **AV 227J Helicopter Flight Lab, Certified Flight Instructor (AV255) Robinson R44**  
25 hrs. Pre/Post Instruction @ \$35 = \$875  
10 hrs. Dual flight @ \$650 = \$6,500  
5 hrs. Dual FTD @ \$195 = \$975  
Written Exam Fee = \$160  
DPE Fee = \$750  
Total = \$9,260.00  
Total Flight Hrs. = 15 hrs. (1 credit)
- Series II Aircraft: Robinson R44, B206, FTD**
- **AV 228A Helicopter Flight Lab, Private Pilot (AV115) Robinson R44**  
15 hrs. Pre/Post Instruction @ \$35 = \$525  
24 hrs. Dual flight @ \$650 = \$15,600  
3 hrs. Dual FTD @ \$195 = \$585  
Total: \$16,710.00  
Total Flight Hrs. = 27 hrs. (1 credit)
  - **AV 228B Helicopter Flight Lab, Private Pilot (AV115) Robinson R44**  
16 hrs. Pre/Post Instruction @ \$35 = \$560  
24 hrs. Dual flight @ \$650 = \$15,600  
2 hrs. Dual FTD @ \$195 = \$390  
Total: \$16,550.00  
Total Flight Hrs. = 26 hrs. (1 credit)
  - **AV 228C Helicopter Flight Lab, Private Pilot (AV115) Robinson R44**  
16 hrs. Pre/Post Instruction @ \$35 = \$560  
14 hrs. Dual flight @ \$650 = \$9,100  
10 hrs. Solo Flight @ \$650 \* = \$6,500  
2 hrs. Dual FTD @ \$195 = \$390  
Written Exam Fee = \$160  
DPE Fee = \$750  
Total: \$17,460.00  
Total Flight Hrs. = 26 hrs. (1 credit)  
\*Supervised Solo- charged at a dual rate due to required presence of a certified flight instructor
  - **AV 228D Helicopter Flight Lab, Instrument Pilot (AV215) Robinson R44**  
20 hrs. Pre/Post Instruction @ \$35 = \$700  
20 hrs. Dual flight @ \$650 = \$13,000  
(Dual flight includes 15 hrs Pilot in Command)
- 10 hrs. Dual FTD @ \$195 = \$1,950  
Total = \$15,650.00  
Total Flight Hrs. = 30 hrs. (1 credit)
  - **AV 228E Helicopter Flight Lab, Instrument Pilot (AV215) Robinson R44**  
25 hrs. Pre/Post Instruction @ \$35 = \$875  
15 hrs. Dual flight @ \$650 = \$9,750  
10 hrs. Dual FTD @ \$195 = \$1,950  
Written Exam Fee = \$160  
DPE Fee = \$750  
Total = \$13,485.00  
Total Flight Hrs. = 25 hrs. (1 credit)
  - **AV 228N Helicopter Flight Lab, Instrument Pilot (AV215) Robinson R44**  
10 hrs. Pre/Post Instruction @ \$35 = \$350  
10 hrs. Dual flight @ \$760\* = \$7,600  
NVG Fee = \$500  
Total = \$8,450.00  
Total Flight Hrs. = 10 hrs. (1 credit)  
\* Flown in a night vision google compatible helicopter
  - **AV 228F Helicopter Flight Lab, Commercial Pilot (AV225) Robinson R44**  
18 hrs. Pre/Post Instruction @ \$35 = \$630  
35 hrs. Dual flight @ \$650 = \$22,750  
(Dual flight includes 15 hrs Pilot in Command)  
2 hrs. Dual FTD @ \$195 = \$390  
Total: \$23,770.00  
Total Flight Hrs. = 37 hrs. (1 credit)
  - **AV 228G Helicopter Flight Lab, Commercial Pilot (AV225) Robinson R44**  
18 hrs. Pre/Post Instruction @ \$35 = \$630  
35 hrs. Dual flight @ \$650 = \$22,750  
2 hrs. Dual FTD @ \$195 = \$390  
Written Exam Fee = \$160  
DPE Fee = \$750  
Total: \$24,680.00  
Total Flight Hrs. = 37 hrs. (1 credit)
  - **AV 228H Helicopter Flight Lab, Commercial Pilot (AV225) Bell 206**  
12 hrs. Pre/Post Instruction @ \$35 = \$420  
20 hrs. Dual flight @ \$935 = \$18,700  
Total = \$19,120.00  
Total Flight Hrs. = 20 hrs. (1 credit)
  - **AV 228I Helicopter Flight Lab, Certified Flight Instructor (AV255) Robinson R44**  
53 hrs. Pre/Post Instruction @ \$35 = \$1,855  
20 hrs. Dual flight @ \$650 = \$13,000  
2 hrs. Dual FTD @ \$195 = \$390  
Written Exam Fee = \$320  
DPE Fee = \$850  
Total: \$16,415.00  
Total Flight Hrs. = 22 hrs. (1 credit)
  - **AV 228J Helicopter Flight Lab, Certified Flight Instructor (AV255) Robinson R44**  
25 hrs. Pre/Post Instruction @ \$35 = \$875  
10 hrs. Dual flight @ \$650 = \$6,500  
5 hrs. Dual FTD @ \$195 = \$975  
Written Exam Fee = \$160  
DPE Fee = \$750  
Total = \$9,260.00  
Total Flight Hrs. = 15 hrs. (1 credit)
- PROGRAM ENTRANCE REQUIREMENTS**  
**Academic Entrance Requirements**
- None

**Other Entrance Requirements**

- Required:
  - Students who enroll in this course of study must have a valid FAA Medical Certificate and a student pilot certificate. A doctor designated by the FAA as an Aviation Medical Examiner must conduct the medical exam.
- Recommended:
  - Incoming students in the professional pilot program are encouraged to obtain at least a second-class medical certificate prior to entry into the program to ensure that they can eventually pursue a career in commercial aviation.

**PROGRAM PERFORMANCE STANDARDS**

**Academic Requirements**

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- Students must maintain a minimum 2.0 GPA while enrolled in the program. Students who do not maintain this standard and desire to continue the program, require completion of a training plan approved by their COCC advisor.
- All courses in the program must be completed with a grade of C or higher.

**Additional Requirements**

- The FAA requires applicants pass an airman knowledge exam for pilot certificates/ratings.
- Students must be prepared to fly three to four days per week in order to maintain the rigorous schedule that is required in order to complete the flight training in a timely manner.

**PROGRAM COURSE REQUIREMENTS**

**Core Courses**

AV 101	Introduction to Aviation <sup>1</sup>	3
AV 104	Introduction to Aircraft Systems <sup>1</sup>	4
AV 108	Meteorology I <sup>1</sup>	4
AV 112	Technically Advanced Aircraft	1
AV 112A	Tech Advanced Aircraft Lab	1
AV 115	Private Pilot-Helicopter <sup>2</sup>	5
AV 117	Helicopter Fundamentals	3
AV 150	Aerodynamics <sup>1</sup>	4
AV 200	Aviation Law <sup>1</sup>	3
or AV 201	Airport Management	
AV 208	Meteorology II <sup>1</sup>	4
AV 215	Instrument Helicopter <sup>4</sup>	5
AV 225	Commercial Pilot-Helicopter <sup>4</sup>	4
AV 235	Human Factors <sup>1</sup>	4
AV 245	Advanced Helicopter Operations	4
AV 246	Aviation Safety <sup>1</sup>	3
AV 255	Cert Flight Instr-Helicopter	5

Helicopter Flight Labs (Choose Series I or Series II)<sup>3</sup> 11

Series I		
AV 227A	Helicopter Flt Lab Series I	
AV 227B	Helicopter Flt Lab Series I	
AV 227C	Helicopter Flt Lab Series I	
AV 227D	Helicopter Flt Lab Series I	
AV 227E	Helicopter Flt Lab Series I	
AV 227F	Helicopter Flt Lab Series I	
AV 227G	Helicopter Flt Lab Series I	
AV 227H	Helicopter Flt Lab Series I	
AV 227I	Helicopter Flt Lab Series I	
AV 227J	Helicopter Flt Lab Series I	
AV 227N	Helicopter Flt Lab Series I	

Series II

AV 228A	Helicopter Flt Lab Series II	
AV 228B	Helicopter Flt Lab Series II	
AV 228C	Helicopter Flt Lab Series II	
AV 228D	Helicopter Flt Lab Series II	
AV 228E	Helicopter Flt Lab Series II	
AV 228F	Helicopter Flt Lab Series II	

AV 228G	Helicopter Flt Lab Series II	
AV 228H	Helicopter Flt Lab Series II	
AV 228I	Helicopter Flt Lab Series II	
AV 228J	Helicopter Flt Lab Series II	
AV 228N	Helicopter Flt Lab Series II	

**Other Required Courses**

BA 206	Management Fundamentals I	4
or BA 101	Intro to Business	
BA 285	Business Human Relations	3
or SP 218	Interpersonal Communication	
CIS 120	Computer Concepts (or Computer Competency Test)	0-4
Discipline Studies Courses		8
MTH 085	Technical Mathematics I	4
or MTH 111	or higher	
WR 121	Academic Composition <sup>5</sup>	3-4
or BA 214	Business Communications	

**Total Credits 90-95**

- <sup>1</sup> May be taken in any order, in any term and may be taken before, with or after the flight courses.
- <sup>2</sup> Must be taken as the first flight course. May be taken any term.
- <sup>3</sup> Flight fees, simulator fees and FAA testing fees are required in addition to normal tuition for all flight labs and must be paid by the end of the second week of the term. Used portions of flight and simulator fees are not refundable. Contact the Aviation program director at 541.318.3702 for more information.
- <sup>4</sup> The Private Pilot Helicopter course AV 115 shall be completed prior to the Instrument Helicopter course AV215, and the Instrument Helicopter course AV215 shall be completed before the Commercial Pilot Helicopter course AV225.
- <sup>5</sup> WR 121 recommended for students who will pursue a bachelor's degree.

**Unmanned Aerial Systems (UAS) Operations**  
Associate of Applied Science

**PROGRAM DESCRIPTION**

The Aviation Unmanned Aerial Systems Operations (UAS) program trains individuals to work as professional UAS operators in the national/international arena. Students will learn to operate UAS to include: conducting mission/preflight planning, mission briefings and programming. They will learn how to obtain and evaluate weather forecasts, Notice to Airmen (NOTAMs), Special Instructions (SPINs) and airspace requirements. Students will be taught to perform limited UAS and ground support equipment testing, troubleshooting and maintenance. The UAS degree is intended to prepare students for a fast growing industry with many civilian applications including agriculture, search and rescue, monitoring environment and wildlife, border security, fire mapping, surveying structures after natural disasters, real estate photography and police surveillance.

**PROGRAM COSTS**

(beyond standard tuition/fees and textbooks)

**Material Costs**

- AV 272 and AV 273 have \$750 fees to cover equipment costs.

**PROGRAM ENTRANCE REQUIREMENTS**

None

**PROGRAM PERFORMANCE STANDARDS**

**Academic Requirements**

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses in the program must be completed with a grade of C or higher.

**PROGRAM COURSE REQUIREMENTS**

**Core Courses**

AV 104	Introduction to Aircraft Systems	4
AV 108	Meteorology I	4
AV 110	Private Pilot - Airplane	5
or AV 115	Private Pilot-Helicopter	
AV 150	Aerodynamics	4
AV 271	Introduction to Unmanned Aerial Systems	4
AV 272	Unmanned Aerial Systems (UAS) Operations	5
AV 273	Unmanned Aerial Sys Ops Maint	5
CIS 140	A+ Essentials I	4
CIS 145	A+ Essentials II	4
GEOG 211	Computer Cartography	4
GEOG 265	Geographic Information Systems	4
GEOG 266	Arc GIS	5
GEOG 267	Geodatabase Design	5
GEOG 273	Spatial Data Collection	5
GEOG 275	GIS Capstone	5
GEOG 285	Data Conversion/Documentation	5
GEOG 286	Remote Sensing	5
GEOG 287	Analysis of Spatial Data	5

**Other Required Courses**

BA 206	Management Fundamentals I	4
CIS 120	Computer Concepts (or Computer Competency Test)	0-4
MTH 085	Technical Mathematics I <sup>1</sup>	4
or MTH 111	College Algebra	
WR 121	Academic Composition	4

**Total Credits 94-98**

<sup>1</sup> Or higher than MTH 111 College Algebra

**Aviation-Technology and Management (OIT Transfer) Emphasis**  
Associate of Science

**FOCUS AREA DESCRIPTION**

This degree is intended to prepare students to continue on to Oregon Institute of Technology’s Bachelor of Applied Science (BAS) in Technology and Management degree in order to promote career advancement into management or the aviation field.

**PROGRAM ENTRANCE REQUIREMENTS**

None

**PROGRAM PERFORMANCE STANDARDS**

**Academic Requirements**

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All general education/foundational courses in the program must be completed with a grade of C or higher.

**PROGRAM COURSE REQUIREMENTS**

**General Education/Foundational**

**Mathematics**

MTH 111	College Algebra	4
---------	-----------------	---

**Oral Communication**

SP 111	Fundamentals Public Speaking	4
--------	------------------------------	---

**Writing**

WR 121	Academic Composition	4
WR 122	Argument, Research and Multimodal Composition	4
WR 227	Technical Writing	4

**General Education/Discipline Studies**

**Arts and Letters**

Choose two courses from the Discipline Studies list	6-8
---	-----

**Social Science**

Choose two courses from the Discipline Studies list	8
Recommend: EC 201 and EC 202	

**Science/Math/Computer Science**

Choose one lab science course from the Discipline Studies list	3-5
--	-----

**PROGRAM REQUIREMENTS**

AV 108	Meteorology I	4
AV 208	Meteorology II	4
BA 206	Management Fundamentals I	4
BA 211	Financial Accounting I	4
BA 213	Managerial Accounting <sup>1</sup>	4
BA 223	Marketing Principles I	4
BA 226	Business Law I	4
CIS 125A	Access	4
CIS 125E	Excel	4

**Electives**

Choose enough electives to reach a minimum total of 90 overall degree credits <sup>2</sup>	17
--	----

**Total Credits 90-94**

<sup>1</sup> COCC recommends students take BA 212 Financial Accounting II prior to BA 213 Managerial Accounting.

<sup>2</sup> Elective credits must be 100-level and above with a maximum of 12 CTE credits and 15 credits of CWE/HHPA performance courses.

**BIOLOGY**

**Biological Sciences**

Associate of Arts Oregon Transfer

**FOCUS AREA DESCRIPTION**

The Associate of Arts Oregon Transfer (AAOT) degree with a focus in biology is designed for students who wish to pursue bachelor’s degree areas such as health professions, life sciences or natural sciences. Graduates with a Bachelor of Science degree from their transfer institution will be well-equipped for graduate school and other careers in biomedical fields, industry, governmental agencies and non-governmental organizations which require a broad-based education in science, mathematics and communication. Those graduates may enter such fields as conservation or environmental science, science writing, education, botany, forest or marine science, veterinary medicine, agricultural research, pharmaceuticals, human medicine or other life science careers such as research in microbiology, biotechnology, bio-informatics or genetics.

**PROGRAM ENTRANCE REQUIREMENTS**

None

**PROGRAM PERFORMANCE STANDARDS**

**Academic Requirements:**

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses in the program must be completed with a grade of C or higher.

**PROGRAM COURSE REQUIREMENTS**

**General Education/Foundational**

**Health**

3 credits with HHP or HHPA prefix <sup>1</sup>	3
--	---

**Mathematics**

MTH 105	Math in Society (or higher)	4
Recommend: MTH 111 or MTH 243		



**Oral Communication**

Choose one course from the following: 3-4

SP 111	Fundamentals Public Speaking	
SP 114	Argumentation & Discourse	
SP 115	Intro Intercultural Commun	
SP 218	Interpersonal Communication	
SP 219	Small Group Communication	

**Writing**

WR 121	Academic Composition	4
WR 122 or WR 227	Argument, Research and Multimodal Composition Technical Writing	4

**General Education/Discipline Studies**

One course must be designated as Cultural Literacy.

**Arts and Letters**

9-12

At least three courses chosen from at least two prefixes

**Social Science**

12-16

At least four courses from at least two prefixes

**Science/Math/Computer Science**

12-20

At least four courses from at least two prefixes including at least three laboratory courses in biological and/or physical science  
Recommend: BI 211, BI 212, BI 213 and CH 221**Electives**

39

Take enough elective courses to meet the minimum 90 credits required for the AAOT degree<sup>2</sup>

Recommend: CH 222, CH 223, FN 225, MTH 251, MTH 252, MTH 253, PH 201, PH 202, PH 203

**Total Credits 90-106**<sup>1</sup> HHPA activity courses (1 credit each) are not to be duplicated.<sup>2</sup> CH 221 General Chemistry I, CH 222 General Chemistry II, and CH 223 General Chemistry III are recommended for students interested in medical, dental and veterinary schools. BI 205 Scientific Terminology: Latin and Greek Roots, BI 231 Human Anatomy and Physiology I, BI 232 Human Anatomy and Physiology II, BI 233 Human Anatomy and Physiology III and BI 234 Microbiology are not prerequisites for admission into dental medicine, or veterinary programs, but may help a student preparing for any of those careers.**ADVISING NOTES**

Oregon universities with a biology major include: Eastern Oregon University, Oregon Health Sciences University, Oregon State University, Portland State University, Southern Oregon University, University of Oregon, Western Oregon University.

**Dental Hygiene**

Associate of Arts Oregon Transfer

**FOCUS AREA DESCRIPTION**

While COCC does not offer a Dental Hygiene program, many students begin their courses here with the intent of transferring to another college for their actual degree.

**PROGRAM ENTRANCE REQUIREMENTS**

None

**PROGRAM PERFORMANCE STANDARDS****Academic Requirements**

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses in the program must be completed with a grade of C or higher.

**PROGRAM COURSE REQUIREMENTS****General Education/Foundational****Health**3 credits with HHP or HHPA prefix<sup>1</sup> 3**Mathematics**

MTH 105 Math in Society (or higher) 4

Recommend: MTH 111

**Oral Communication**

SP 111 Fundamentals Public Speaking 4

**Writing**

WR 121 Academic Composition 4

WR 122 Argument, Research and Multimodal Composition 4

**General Education/Discipline Studies**

One course must be designated as Cultural Literacy.

**Arts and Letters**

9-12

Choose at least three courses from at least two prefixes

**Social Science**

12-16

Choose at least four additional courses from at least two prefixes

Recommend: SOC 201

**Science/Math/Computer Science**

12-20

Choose at least four courses from at least two prefixes including at least three laboratory courses in biological and/or physical science

Recommend: BI 231, BI 232, BI 233, FN 225

**Electives**Choose any college-level course that brings total credits to 90 quarter hours<sup>2</sup> 38

Recommend: AH 111, BI 234, CH 104, CH 105, CH 106

**Total Credits 90-105**<sup>1</sup> HHPA activity courses (1 credit each) are not to be duplicated<sup>2</sup> This may include up to 9 credits of Career and Technical Education courses (in addition to AH 111 Medical Terminology I) designated by COCC as acceptable.**ADVISING NOTES**For a list of accredited Dental Hygiene programs, contact the American Dental Association [ada.org/357.aspx](http://ada.org/357.aspx).

If transferring to Lane Community College: PSY 201 Mind and Brain or PSY 202 Mind and Society and WR 227 Technical Writing are recommended. Lane gives additional application points for Spanish language proficiency (completion of SPAN 102 First Year Spanish II or CLEP test score of 50 or higher). See LCC's catalog and website for details.

If transferring to Mt. Hood Community College: a psychology elective is recommended. See MHCC's catalog and website for details.

If transferring to Oregon Tech (OIT): Oregon Institute of Technology requires DHE 100 Introduction to Dental Hygiene (2) and is offered online. OIT requires completion of CH 104 Introduction to Chemistry I only. See OIT's catalog and website for details.

If transferring to Portland Community College: a psychology elective is recommended. See PCC's catalog and website for details.

**Pre-Dentistry, Pre-Medicine,  
Pre-Veterinary**

Associate of Arts Oregon Transfer

**FOCUS AREA DESCRIPTION**

Students interested in pursuing professional degrees in medicine, dentistry or veterinary medicine are required to complete a bachelor's degree, preferably in a related area, including any of the biological sciences. To provide a solid foundation for bachelor's degree work,

students are encouraged to complete the Associate of Arts Oregon Transfer (AAOT) degree, with an emphasis on pre-med, -vet and -dentistry related coursework.

**PROGRAM ENTRANCE REQUIREMENTS**

None

**PROGRAM PERFORMANCE STANDARDS**

**Academic Requirements**

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses in the program must be completed with a grade of C or higher.

**PROGRAM COURSE REQUIREMENTS**

**General Education/Foundational**

**Health**

3 credits with HHP or HHPA prefix<sup>1</sup> 3

**Mathematics**

MTH 105 Math in Society (or higher) 4  
 Recommend: MTH 111

**Oral Communication**

(choose one course from the following): 3-4

SP 111	Fundamentals Public Speaking	
SP 114	Argumentation & Discourse	
SP 115	Intro Intercultural Commun	
SP 218	Interpersonal Communication	
SP 219	Small Group Communication	

**Writing**

WR 121	Academic Composition	4
WR 122	Argument, Research and Multimodal Composition	4
or WR 227	Technical Writing	

**General Education/Discipline Studies**

One course must be designated as Cultural Literacy.

**Arts and Letters** 9-12

Choose at least three courses from at least two prefixes

**Social Science** 12-16

Choose at least four courses from at least two prefixes

**Science/Math/Computer Science** 12-20

Choose at least four courses from at least two prefixes including at least three laboratory courses in biological and/or physical science  
 Recommend: BI 211, BI 212, BI 213, CH 221

**Electives** 39

Choose enough electives to reach 90 credits  
 Recommend: CH 222, CH 223, FN 225 or HHP 240, MTH 112, MTH 113, MTH 251, MTH 252, MTH 253, PH 201 or PH 211, PH 202 or PH 212, PH 203 or PH 213

**Total Credits 90-106**

<sup>1</sup> HHPA activity courses (1 credit each) are not to be duplicated.

**ADVISING NOTES**

Students may transfer to a baccalaureate institution without the AAOT; however, completion of this degree guarantees that a student will transfer to an Oregon public university with junior standing and that all lower division general education coursework is complete.

**BUSINESS ADMINISTRATION**

**Business**

**Associate of Science Oregon Transfer**

**FOCUS AREA DESCRIPTION**

The Associate of Science Oregon Transfer Business degree (ASOT) is designed for students with a high level of certainty about their decision to earn a bachelor’s degree with a major in business from an Oregon public university. Students completing the ASOT – Business will have met lower division general education requirements upon transfer to an Oregon public institution, and will have junior standing for registration purposes. Admission to the business school is not guaranteed; students are strongly encouraged to contact the institution(s) to which they intend to transfer when choosing from the selection of courses within the ASOT – Business degree.

**PROGRAM ENTRANCE REQUIREMENTS**

**Academic Entrance Requirements**

- Recommended:
  - High school diploma or GED
  - Minimum placement scores resulting in WR 121 Academic Composition placement or completion of WR 065 Rhetoric/Critical Thinking II/WR 095 Basic Writing II (“C” or better)
  - College-level math placement

**PROGRAM PERFORMANCE STANDARDS**

**Academic Requirements**

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses in the program must be completed with a grade of C or higher.

**PROGRAM COURSE REQUIREMENTS**

**General Education/Foundational**

**Mathematics**

MTH 243	Introduction to Probability and Statistics I	4
Two additional courses of MTH 105 or higher		8

**Oral Communication**

Choose one course from the following: 3-4

SP 111	Fundamentals Public Speaking	
SP 114	Argumentation & Discourse	
SP 115	Intro Intercultural Commun	
SP 218	Interpersonal Communication	
SP 219	Small Group Communication	

**Writing**

WR 121	Academic Composition	4
WR 122	Argument, Research and Multimodal Composition	4
or WR 227	Technical Writing	

**General Education/Discipline Studies**

One course must be designated as Cultural Literacy.

**Arts and Letters** 9-12

Choose three courses from two or more disciplines

**Social Sciences**

EC 201	Microeconomics	4
EC 202	Macroeconomics	4
Choose two courses (at least one must have a different prefix than EC)		6-8

**Science/Math/Computer Science** 12-20

Choose four courses from at least two disciplines including at least three laboratory courses in biological and/or physical science

**Business Specific Requirements**

BA 101	Intro to Business	4
BA 211	Financial Accounting I	4
BA 212	Financial Accounting II	4
BA 213	Managerial Accounting	4
BA 226	Business Law I	4

<b>Electives</b>	12
Choose enough elective credits to reach a minimum of 90 credits (with a maximum of 12 Career and Technical Education (CTE) credits). <sup>1</sup>	
Recommend: BA 206 and BA 223	
<b>Total Credits 90-104</b>	

<sup>1</sup> See advisor for recommended electives as well as specific institution transfer requirements.

### ADVISING NOTES

All courses should be aligned with the student's intended program of study and the degree requirements of the university or college to which the student plans to transfer. Admission to an Oregon public university is not guaranteed upon completion of the ASOT – Business degree. Every student is strongly encouraged to contact the institution(s) to which they intend to transfer when choosing from the selection of courses within the ASOT – Business degree.

## Business Administration

### Associate of Applied Science

#### PROGRAM DESCRIPTION

The Associate of Applied Science in Business prepares students for immediate employment in business occupations. Business Administration AAS degrees may be awarded indicating emphasis in the following areas of specialization: General Business, Accounting, Management, or Small Business/Entrepreneurship.

#### PROGRAM ENTRANCE REQUIREMENTS

##### Academic Entrance Requirements

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

#### PROGRAM PERFORMANCE STANDARDS

##### Academic Requirements

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses in the program must be completed with a grade of C or higher.

#### PROGRAM COURSE REQUIREMENTS

##### Level 1 Foundation Courses

BA 101	Intro to Business	4
BA 104	Business Math	3
BA 111	Applied Accounting I	3
BA 178	Customer Service	3
or BA 285	Business Human Relations	
BA 218	Personal Finance	3
CIS 120	Computer Concepts (or Computer Competency Test)	0-4
CIS 131	Software Applications	4
LIB 100	Intro to Finding Information	1
WR 121	Academic Composition	4

##### Level 2 Core Courses

BA 112	Applied Accounting II	3
BA 113	Applied Accounting III	3
BA 206	Management Fundamentals I	4
BA 214	Business Communications	3
BA 223	Marketing Principles I	4
BA 226	Business Law I	4
BA 250	Entrepreneurship	4
BA 261	Consumer Behavior	4
CIS 125E	Excel	4

#### Level 3 General Business Specialization

Choose an additional 21-24 credits of any courses with a BA prefix and/or CIS 178

#### Level 4 Advanced Core and Capstone Courses

BA 220	Business Analysis and Budgeting	4
BA 222	Business Finance	4
BA 290	Business Seminar	3

**Total Credits 90-97**

### ADVISING NOTES

Take as many Level 1 courses as possible before attempting Level 2 courses, and take as many Level 2 courses before Level 3 courses. Level 3 courses may be taken concurrently with Level 4 courses.

This degree is designed for students planning to enter their chosen career upon graduation. Only selected credits are considered transferrable to public or private baccalaureate institutions. See advisor for additional information.

## Business Administration: Accounting

### Associate of Applied Science

#### PROGRAM DESCRIPTION

The Associate of Applied Science Business Administration Accounting Specialization degree qualifies graduates for employment as accounting managers, full-charge bookkeepers, staff accountants, accounts payable managers and accounts receivable managers.

#### PROGRAM ENTRANCE REQUIREMENTS

##### Academic Entrance Requirements

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

#### PROGRAM PERFORMANCE STANDARDS

##### Academic Requirements

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses in the program must be completed with a grade of C or higher.

#### PROGRAM COURSE REQUIREMENTS

##### Level 1 Foundation Courses

BA 101	Intro to Business	4
BA 104	Business Math	3
BA 111	Applied Accounting I	3
BA 178	Customer Service	3
or BA 285	Business Human Relations	
BA 218	Personal Finance	3
CIS 120	Computer Concepts (or Computer Competency Test)	0-4
CIS 131	Software Applications	4
LIB 100	Intro to Finding Information	1
WR 121	Academic Composition	4

##### Level 2 Core Courses

BA 112	Applied Accounting II	3
BA 113	Applied Accounting III	3
BA 206	Management Fundamentals I	4
BA 214	Business Communications	3
BA 223	Marketing Principles I	4
BA 226	Business Law I	4
BA 250	Entrepreneurship	4
BA 261	Consumer Behavior	4
CIS 125E	Excel	4

**Level 3 Accounting Specialization**

BA 177	Payroll Accounting	3
BA 211	Financial Accounting I	4
BA 212	Financial Accounting II	4
BA 213	Managerial Accounting	4
BA 228	Computer Accounting Applications	3
BA 229	QuickBooks	3
BA Elective	Any BA prefix course	3-4

**Level 4 Advanced Core and Capstone Courses**

BA 220	Business Analysis and Budgeting	4
BA 222	Business Finance	4
BA 290	Business Seminar	3

**Total Credits 93-98**

**ADVISING NOTES**

Take as many Level 1 courses as possible before attempting Level 2 courses, and take as many Level 2 courses before Level 3 courses. Level 3 courses may be taken concurrently with Level 4 courses.

This degree is designed for students planning to enter their chosen career upon graduation. Only selected credits are considered transferrable to public or private baccalaureate institutions. See advisor for additional information.

**Business Administration: Management**  
Associate of Applied Science

**PROGRAM DESCRIPTION**

The Associate of Applied Science in Business Administration prepares students for immediate employment in business occupations. This general Business degree allows students to choose from a wide variety of Business elective courses according to their individual interests.

**PROGRAM ENTRANCE REQUIREMENTS**

**Academic Entrance Requirements**

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

**PROGRAM PERFORMANCE STANDARDS**

**Academic Requirements**

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses in the program must be completed with a grade of C or higher.

**PROGRAM COURSE REQUIREMENTS**

**Level 1 Foundation Courses**

BA 101	Intro to Business	4
BA 104	Business Math	3
BA 111	Applied Accounting I	3
BA 178	Customer Service	3
or BA 285	Business Human Relations	
BA 218	Personal Finance	3
CIS 120	Computer Concepts (or Computer Competency Test)	0-4
CIS 131	Software Applications	4
LIB 100	Intro to Finding Information	1
WR 121	Academic Composition	4

**Level 2 Core Courses**

BA 112	Applied Accounting II	3
BA 113	Applied Accounting III	3
BA 206	Management Fundamentals I	4
BA 214	Business Communications	3
BA 223	Marketing Principles I	4

BA 226	Business Law I	4
BA 250	Entrepreneurship	4
BA 261	Consumer Behavior	4
CIS 125E	Excel	4

**Level 3 Management Specialization**

BA 207	Management Fundamentals II	4
BA 224	Human Resources Management	4
BA 286	Managing Business Processes	4
Choose 9-12 credits from any BA prefix		9-12

**Level 4 Advanced Core and Capstone Courses**

BA 220	Business Analysis and Budgeting	4
BA 222	Business Finance	4
BA 290	Business Seminar	3

**Total Credits 90-97**

**ADVISING NOTES**

Take as many Level 1 courses as possible before attempting Level 2 courses, and take as many Level 2 courses before Level 3 courses. Level 3 courses may be taken concurrently with Level 4 courses.

This degree is designed for students planning to enter their chosen career upon graduation. Only selected credits are considered transferrable to public or private baccalaureate institutions. See advisor for additional information.

**Business Administration: Small Business and Entrepreneurship**  
Associate of Applied Science

**PROGRAM DESCRIPTION**

The Associate of Applied Science Business Administration Small Business/Entrepreneurship Specialization degree qualifies graduates to start and run a business, grow an existing business, or be employed in a new startup venture. The skills learned will enable the student to comprehend and assist in the basics of successfully operating a small business. Employment opportunities and job functions will vary greatly with industry, size of business and geographical region.

**PROGRAM ENTRANCE REQUIREMENTS**

**Academic Entrance Requirements**

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

**PROGRAM PERFORMANCE STANDARDS**

**Academic Requirements**

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses in the program must be completed with a grade of C or higher.

**PROGRAM COURSE REQUIREMENTS**

**Level 1 Foundation Courses**

BA 101	Intro to Business	4
BA 104	Business Math	3
BA 111	Applied Accounting I	3
BA 178	Customer Service	3
or BA 285	Business Human Relations	
BA 218	Personal Finance	3
CIS 120	Computer Concepts (or Computer Competency Test)	0-4
CIS 131	Software Applications	4
LIB 100	Intro to Finding Information	1
WR 121	Academic Composition	4



**Level 2 Core Courses**

BA 112	Applied Accounting II	3
BA 113	Applied Accounting III	3
BA 206	Management Fundamentals I	4
BA 214	Business Communications	3
BA 223	Marketing Principles I	4
BA 226	Business Law I	4
BA 250	Entrepreneurship	4
BA 261	Consumer Behavior	4
CIS 125E	Excel	4

**Level 3 Small Business/Entrepreneurship Specialization**

BA 232	Branding	4
BA 233	Internet Marketing	4
BA 237	Marketing Research	4
BA 253	Business Plan Elements	4
Choose two from the following:		8
BA 239	Advertising	
BA 254	Business Strategies	
BA 271	Product Development Process	
BA 272	Product Development Strategies	
CIS 178	Internet in Depth	

**Level 4 Advanced Core and Capstone Courses**

BA 220	Business Analysis and Budgeting	4
BA 222	Business Finance	4
BA 290	Business Seminar	3

**Total Credits 93-97****ADVISING NOTES**

Take as many Level 1 courses as possible before attempting Level 2 courses, and take as many Level 2 courses before Level 3 courses. Level 3 courses may be taken concurrently with Level 4 courses.

This degree is designed for students planning to enter their chosen career upon graduation. Only selected credits are considered transferable to public or private baccalaureate institutions. See advisor for additional information.

## Accounting Clerk

### Certificate of Completion

**PROGRAM DESCRIPTION**

The Accounting Clerk certificate is designed to give students a foundation for careers in clerical accounting. All coursework may be applied to an Associate of Applied Science (AAS) Business degree.

**PROGRAM ENTRANCE REQUIREMENTS****Academic Entrance Requirements**

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

**PROGRAM PERFORMANCE STANDARDS****Academic Requirements**

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses in the program must be completed with a grade of C or higher.

**PROGRAM COURSE REQUIREMENTS**

BA 101	Intro to Business	4
BA 104	Business Math	3
BA 111	Applied Accounting I	3
BA 112	Applied Accounting II	3
BA 113	Applied Accounting III	3

BA 177	Payroll Accounting	3
BA 178	Customer Service	3
or BA 285	Business Human Relations	
BA 229	QuickBooks	3
BA Elective (any BA prefix)		3-4
CIS 120	Computer Concepts (or Computer Competency Test)	0-4
CIS 125E	Excel	4
CIS 131	Software Applications	4
WR 121	Academic Composition	4

**Total Credits 40-45****ADVISING NOTES**

Students should consult their advisor if they have transfer credits, are not able to attend full time, or are not at college level in reading, writing and math.

This certificate is designed for students planning to enter their chosen career upon graduation. Often only selected credits are considered transferrable to public or private baccalaureate institutions.

## Entrepreneurship

### Certificate of Completion

**PROGRAM DESCRIPTION**

The Entrepreneurship certificate is designed to give students a foundation for starting their own business or assisting in the business startup activities of others. All coursework may be applied to an Associate of Applied Science (AAS) Business degree.

**PROGRAM ENTRANCE REQUIREMENTS****Academic Entrance Requirements**

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

**PROGRAM PERFORMANCE STANDARDS****Academic Requirements**

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses in the program must be completed with a grade of C or higher.

**PROGRAM COURSE REQUIREMENTS****Core Courses**

BA 101	Intro to Business	4
BA 104	Business Math	3
BA 206	Management Fundamentals I	4
BA 217	Accounting Fundamentals	4
BA 223	Marketing Principles I	4
BA 237	Marketing Research	4
BA 250	Entrepreneurship	4
BA 253	Business Plan Elements	4
or BA 271	Product Development Process	
BA 254	Business Strategies	4
or BA 272	Product Development Strategies	
CIS 120	Computer Concepts (or Computer Competency Test)	0-4
CIS 131	Software Applications	4
LIB 100	Intro to Finding Information	1
WR 121	Academic Composition	4

**Total Credits 44-48****ADVISING NOTES**

Students should consult their advisor if they have transfer credits, are not able to attend full time, or are not at college level in reading, writing and math.

This certificate is designed for students planning to enter their chosen career upon graduation. Often only selected credits are considered transferrable to public or private baccalaureate institutions.

## Marketing Communications Certificate of Completion

### PROGRAM DESCRIPTION

The Marketing Communications Certificate gives students the skills to research target consumer preferences and utilize that research to create a branding strategy and promotional content for both electronic and traditional marketing media channels. A student pursuing this certificate should be seeking to add these skills to other previously acquired business education or experience. All coursework may be applied to an Associate of Applied Science (AAS) Business degree.

### PROGRAM ENTRANCE REQUIREMENTS

#### Academic Entrance Requirements

- Recommended:
  - High school diploma or GED
  - Minimum placement scores resulting in WR 121 Academic Composition placement or completion of WR 065 Rhetoric/Critical Thinking II/WR 095 Basic Writing II ("C" or better)
  - Minimum placement scores resulting in MTH 065 Algebra II placement or completion of MTH 060 Algebra I ("C" or better)
  - Work experience providing an understanding of general business functions or completion of BA 101 Introduction to Business

### PROGRAM PERFORMANCE STANDARDS

#### Academic Requirements

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses in the program must be completed with a grade of C or higher.

### PROGRAM COURSE REQUIREMENTS

#### Core Courses

BA 104	Business Math	3
BA 178	Customer Service	3
BA 214	Business Communications	3
BA 223	Marketing Principles I	4
BA 232	Branding	4
BA 233	Internet Marketing	4
or BA 239	Advertising	
BA 237	Marketing Research	4
BA 261	Consumer Behavior	4
CIS 120	Computer Concepts (or Computer Competency Test)	0-4
CIS 131	Software Applications	4
CIS 178	Internet in Depth	4
LIB 100	Intro to Finding Information	1
WR 121	Academic Composition	4
<b>Total Credits</b>		<b>42-46</b>

### ADVISING NOTES

Students should consult their advisor if they have transfer credits, are not able to attend full time, or are not at college level in reading, writing and math.

This certificate is designed for students planning to enter their chosen career upon graduation. Often only selected credits are considered transferrable to public or private baccalaureate institutions.

## Office Assistant Certificate of Completion

### PROGRAM DESCRIPTION

The Office Assistant certificate is designed for persons preparing for immediate entry-level employment in office occupations and those already in business who desire to update and enhance their skills.

### PROGRAM ENTRANCE REQUIREMENTS

#### Academic Entrance Requirements

- Recommended:
  - High school diploma or GED
  - Minimum placement scores resulting in WR 121 Academic Composition placement or completion of WR 065 Rhetoric/Critical Thinking II/WR 095 Basic Writing II ("C" or better)
  - Minimum placement scores resulting in MTH 065 Algebra II placement or completion of MTH 060 Algebra I ("C" or better)
  - Keyboarding skills at 25 words per minute or better (CIS 010 Computer Keyboarding is recommended for basic keyboarding skills acquisition)

### PROGRAM PERFORMANCE STANDARDS

#### Academic Requirements

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses in the program must be completed with a grade of C or higher.

### PROGRAM COURSE REQUIREMENTS

#### Core Courses

BA 101	Intro to Business	4
BA 104	Business Math	3
BA 111	Applied Accounting I	3
BA 178	Customer Service	3
BA 214	Business Communications	3
CIS 120	Computer Concepts (or Computer Competency Test)	0-4
CIS 125E	Excel	4
CIS 131	Software Applications	4
WR 121	Academic Composition	4
Choose two courses from the following:		8
CIS 122	Introduction to Programming	
CIS 125A	Access	
CIS 125G	Photoshop	
CIS 140	A+ Essentials I	
CIS 178	Internet in Depth	
CIS 195	Web Development I	
<b>Total Credits</b>		<b>36-40</b>

### ADVISING NOTES

Full-time suggested term-by-term coursework schedule assumes college-level placement in reading, writing and math. Part-time students and those with schedule conflicts, should see an advisor for proper course sequencing and prerequisite requirements.

This certificate is designed for students planning to enter their chosen career upon graduation. Often only selected credits are considered transferrable to public or private baccalaureate institutions.

## Retail Management Certificate of Completion

### PROGRAM DESCRIPTION

The Retail Management certificate is designed to give students a foundation for careers in retail business management. All coursework may be applied to an AAS Business degree.

**PROGRAM ENTRANCE REQUIREMENTS****Academic Entrance Requirements**

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

**PROGRAM PERFORMANCE STANDARDS****Academic Requirements**

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses in the program must be completed with a grade of C or higher.

**PROGRAM COURSE REQUIREMENTS****Core Courses**

BA 101	Intro to Business (or any BA prefix course)	4
BA 104	Business Math	3
BA 111	Applied Accounting I	3
BA 178	Customer Service (or any BA prefix course) <sup>1</sup>	3
BA 206	Management Fundamentals I	4
BA 214	Business Communications	3
BA 223	Marketing Principles I	4
BA 224	Human Resources Management	4
BA 249	Retailing	4
BA 285	Business Human Relations	3
CIS 120	Computer Concepts (or Computer Competency Test)	0-4
CIS 131	Software Applications	4
WR 121	Academic Composition	4
<b>Total Credits</b>		<b>43-47</b>

<sup>1</sup> Students planning to continue education and apply coursework toward any AAS Business Specialization are advised to plan these 3 credits carefully with an advisor.

**ADVISING NOTES**

Students should consult their advisor if they have transfer credits, are not able to attend full time, or are not at college level in reading, writing and math.

This certificate is designed for students planning to enter their chosen career upon graduation. Often only selected credits are considered transferrable to public or private baccalaureate institutions.

Western Association of Food Chains provides an industry certificate of completion for 8 courses of the COCC Retail Management Certificate Coursework. See [retailmanagementcertificate.com](http://retailmanagementcertificate.com) for course list and application information.

## CASCADE CULINARY INSTITUTE

### Baking and Pastry Arts

Associate of Applied Science

**PROGRAM DESCRIPTION**

The Baking and Pastry Arts AAS Degree program is designed to expose students to the step-by-step process, from foundation to advanced skill mastery, of classical and contemporary baking and pastry techniques and to serve as a competency-based learning experience that prepares students for a successful career within the hospitality industry.

**ACCREDITATION**

American Culinary Federation (ACF)

**PROGRAM COSTS**

(beyond standard tuition/fees and textbooks)

**Material Costs**

- \$23 OLCC Liquor Control Card
- Additional costs for books, knives and supplies approximately \$1,500

**Enrollment Fees**

- Specified courses carry a \$185 per credit course fee for lab and consumable materials (estimated at \$9600)

**PROGRAM ENTRANCE REQUIREMENTS****Academic Entrance Requirements**

- Required:
  - Enrollment in or completion of WR 121 or BA 214.
  - Minimum placement scores resulting in MTH 060 Algebra I placement (equivalent to CUL 090 Applied Math for Culinary Arts) or completion of MTH 020 Pre-Algebra/MTH 031 Health Care Math ("C" or better)

**PROGRAM PERFORMANCE STANDARDS****Academic Requirements**

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses in the program must be completed with a grade of C or higher.

**PROGRAM COURSE REQUIREMENTS****Core Courses**

BAK 110	Baking and Pastry Foundations I <sup>1</sup>	4
BAK 140	Baking & Pastry Foundations II <sup>1</sup>	4
BAK 170	Baking Pastry Foundations III <sup>1</sup>	4
BAK 180	Custards and Frozen Desserts <sup>1</sup>	4
BAK 210	Modern Sugar & Chocolate Deco <sup>1</sup>	4
BAK 220	Wedding Celebration Cakes <sup>1</sup>	4
BAK 240	The Craft of Artisan Breads <sup>1</sup>	4
BAK 250	Petit Fours Candies Mignardise <sup>1</sup>	4
BAK 280	Baking Industry Internship	6
CUL 090	Applied Math for Culinary Arts	4
CUL 101	Introduction to Culinary Arts <sup>1</sup>	4
CUL 102	Food Safety and Sanitation	2
CUL 200	Kitchen Operations/Elevation	5
CUL 230	Nutrition & Healthy Cooking <sup>1</sup>	4
CUL 270	Culinary Capstone Internship	6
HM 130	Supervision in Hospitality	4
HM 150	Procurement & Cost Control	3
HM 190	Dining Room Operations	5
HM 290	Career Success and E-Folio	2
WR 121	Academic Composition	3-4
or BA 214	Business Communications	

**Baking & Pastry Specialization List**

Choose 16 credits from the following:	16
BAK 215	Laminated Dough & Viennoiserie <sup>1</sup>
BAK 225	Entremets <sup>1</sup>
BAK 230	Plated Desserts & Presentation <sup>1</sup>
BAK 235S	Classical French Pastries <sup>1</sup>
BAK 245S	Adv Sugar Decor & Chocolate <sup>1</sup>
BAK 255S	Artisan Breads with Heirloom Whole Grains <sup>1</sup>
BAK 260	Advanced Specialty Cakes <sup>1</sup>
BA 101	Intro to Business
BA 250	Entrepreneurship
CUL 105	International Exchange Prep
CUL 225	Applied Harvest & Preservation <sup>1</sup>
CUL 265S	Advanced Skill Development and Culinary Competition Mastery <sup>1</sup>
<b>Total Credits 96-97</b>	

<sup>1</sup> Course carries a \$185 per credit fee for lab and consumable materials.

**ADVISING NOTES**

This certificate is designed for students planning to enter their chosen field after completion. Often only selected credits are considered transferable to public or private baccalaureate institutions.

## Baking and Pastry Arts

### Certificate of Completion

#### PROGRAM DESCRIPTION

This program is designed to expose students to the step-by-step process, from foundation to advanced skill mastery, of classical and contemporary baking and pastry arts techniques and to serve as a competency-based learning experience that prepares students for a successful career within the hospitality industry.

#### ACCREDITATION

American Culinary Federation (ACF)

#### PROGRAM COSTS

(beyond standard tuition/fees and textbooks)

##### Material Costs

- \$23 OLCC Liquor Control Card
- Additional costs for books, knives and supplies approximately \$1,500

##### Enrollment Fees

- Specified courses carry a \$185 per credit course fee for lab and consumable materials (estimated at \$5180)

#### PROGRAM ENTRANCE REQUIREMENTS

##### Academic Entrance Requirements

- Required:
  - Enrollment in or completion of WR 121 Academic Composition or BA 214 Business Communications
  - Minimum placement scores resulting in MTH 060 Algebra I placement (equivalent to CUL 090) or completion of MTH 020 Pre-Algebra/MTH 031 Health Care Math ("C" or better)

#### PROGRAM PERFORMANCE STANDARDS

##### Academic Requirements

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses in the program must be completed with a grade of C or higher.

#### PROGRAM COURSE REQUIREMENTS

##### Core Courses

BAK 110	Baking and Pastry Foundations I <sup>1</sup>	4
BAK 140	Baking & Pastry Foundations II <sup>1</sup>	4
BAK 170	Baking Pastry Foundations III <sup>1</sup>	4
BAK 180	Custards and Frozen Desserts <sup>1</sup>	4
BAK 210	Modern Sugar & Chocolate Deco <sup>1</sup>	4
CUL 090	Applied Math for Culinary Arts	4
CUL 101	Introduction to Culinary Arts <sup>1</sup>	4
CUL 102	Food Safety and Sanitation	2
CUL 200	Kitchen Operations/Elevation	5
CUL 230	Nutrition & Healthy Cooking <sup>1</sup>	4
HM 130	Supervision in Hospitality	4
HM 150	Procurement & Cost Control	3
HM 190	Dining Room Operations	5
WR 121 or BA 214	Academic Composition Business Communications	3-4

**Total Credit 54-55**

<sup>1</sup> Course carries a \$185 per credit fee for lab and consumable materials.

#### ADVISING NOTES

This certificate is designed for students planning to enter their chosen field after completion. Often only selected credits are considered transferable to public or private baccalaureate institutions.

## Culinary Arts

### Associate of Applied Science

#### PROGRAM DESCRIPTION

This program is designed to expose students to the step-by-step process, from foundation to advanced skill mastery, of classical and contemporary culinary techniques and to serve as a competency-based learning experience that prepares students for a successful career within the hospitality industry.

#### ACCREDITATION

American Culinary Federation (ACF)

#### PROGRAM COSTS

(beyond standard tuition/fees and textbooks)

##### Material Costs

- \$23 OLCC Liquor Control Card
- Additional costs for books, knives and supplies approximately \$1,500

##### Enrollment Fees

- Specified courses carry a \$185 per credit course fee for lab and consumable materials (estimated at \$9000)

#### PROGRAM ENTRANCE REQUIREMENTS

##### Academic Entrance Requirements

- Enrollment in or completion of WR 121 or BA 214.
- Minimum placement scores resulting in MTH 060 Algebra I placement (equivalent to CUL 090 Applied Math for Culinary Arts) or completion of MTH 020 Pre-Algebra/MTH 031 Health Care Math ("C" or better)

#### PROGRAM PERFORMANCE STANDARDS

##### Academic Requirements

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses in the program must be completed with a grade of C or higher.

#### PROGRAM COURSE REQUIREMENTS

##### Core Requirements

BAK 101	Introduction to Baking & Pastry <sup>1</sup>	4
CUL 090	Applied Math for Culinary Arts	4
CUL 102	Food Safety and Sanitation	2
CUL 110	Culinary Foundations I <sup>1</sup>	4
CUL 140	Culinary Foundations II <sup>1</sup>	4
CUL 170	Culinary Foundations III <sup>1</sup>	4
CUL 180	Modern Garde Manger <sup>1</sup>	4
CUL 200	Kitchen Operations/Elevation	5
CUL 220	International Cuisine <sup>1</sup>	4
CUL 230	Nutrition & Healthy Cooking <sup>1</sup>	4
CUL 240	Butchery <sup>1</sup>	4
CUL 270	Culinary Capstone Internship	6
CUL 280	Culinary Industry Internship	6
HM 130	Supervision in Hospitality	4
HM 150	Procurement & Cost Control	3
HM 160	Wine & Beverage Management <sup>1</sup>	3
HM 190	Dining Room Operations	5
HM 210	Menu Composition and Analysis	3
HM 290	Career Success and E-Folio	2
WR 121 or BA 214	Academic Composition Business Communications	3-4

##### Culinary Specialization List

Choose 16 credits from the following:		16
BA 101	Intro to Business	
BA 206	Management Fundamentals I	
BA 223	Marketing Principles I	
BA 250	Entrepreneurship	
BAK 210	Modern Sugar & Chocolate Deco <sup>1</sup>	
BAK 220	Wedding Celebration Cakes <sup>1</sup>	
BAK 235S	Classical French Pastries <sup>1</sup>	
BAK 240	The Craft of Artisan Breads <sup>1</sup>	



BAK 245S	Adv Sugar Decor & Chocolate <sup>1</sup>
BAK 255S	Artisan Breads with Heirloom Whole Grain <sup>1</sup>
CUL 101	Introduction to Culinary Arts <sup>1</sup>
CUL 105	International Exchange Prep
CUL 199	Selected Topics: Culinary Arts
CUL 225	Applied Harvest & Preservation <sup>1</sup>
CUL 235S	Farm-to-Table and Sustainable Cuisine Practices <sup>1</sup>
CUL 242	Charcuterie <sup>1</sup>
CUL 245S	Modernist Cuisine <sup>1</sup>
CUL 255S	Event Planning and Execution with Modern Banquet Cookery <sup>1</sup>
CUL 265S	Advanced Skill Development & Culinary Competition Mastery <sup>1</sup>
CUL 276A	Regional World Cuisines: Africa <sup>1</sup>
CUL 276C	Regional World Cuisines: Caribbean <sup>1</sup>
CUL 276F	Regional World Cuisines: France <sup>1</sup>
CUL 276G	Regional World Cuisines: Germany <sup>1</sup>
CUL 276I	Regional World Cuisines: Italy <sup>1</sup>
CUL 276J	Regional World Cuisines: Asia <sup>1</sup>
CUL 276S	Regional World Cuisines: Spain <sup>1</sup>

**Total Credits 94-95**

<sup>1</sup> Course carries a \$185 per credit fee for lab and consumable materials.

### ADVISING NOTES

This certificate is designed for students planning to enter their chosen field after completion. Often only selected credits are considered transferable to public or private baccalaureate institutions.

## Culinary Arts

### Certificate of Completion

#### PROGRAM DESCRIPTION

This program is designed to expose students to the step-by-step process, from foundation to advanced skill mastery, of classical and contemporary culinary techniques and to serve as a competency-based learning experience that prepares students for a successful career within the hospitality industry.

#### ACCREDITATION

American Culinary Federation (ACF)

#### PROGRAM COSTS

(beyond standard tuition/fees and textbooks)

##### Material Costs

- \$23 OLCC Liquor Control Card
- Additional costs for books, knives and supplies approximately \$1,500

##### Enrollment Fees

- Specified courses carry a \$185 per credit course fee for lab and consumable materials (estimated at \$4440)

#### PROGRAM ENTRANCE REQUIREMENTS

##### Academic Entrance Requirements

- Required:
  - Completion of or enrollment in WR 121 Academic Composition or BA 214 Business Communications
  - Minimum placement scores resulting in MTH 060 Algebra I placement (equivalent to CUL 090 Applied Math for Culinary Arts) or completion of MTH 020 Pre-Algebra/MTH 031 Health Care Math ("C" or better)

#### PROGRAM PERFORMANCE STANDARDS

##### Academic Requirements

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses in the program must be completed with a grade of C or higher.

#### PROGRAM COURSE REQUIREMENTS

##### Core Requirements

BAK 101	Introduction to Baking & Pastry <sup>1</sup>	4
CUL 090	Applied Math for Culinary Arts	4
CUL 102	Food Safety and Sanitation	2
CUL 110	Culinary Foundations I <sup>1</sup>	4
CUL 140	Culinary Foundations II <sup>1</sup>	4
CUL 170	Culinary Foundations III <sup>1</sup>	4
CUL 180	Modern Garde Manger <sup>1</sup>	4
CUL 200	Kitchen Operations/Elevation	5
CUL 230	Nutrition & Healthy Cooking <sup>1</sup>	4
HM 130	Supervision in Hospitality	4
HM 150	Procurement & Cost Control	3
HM 190	Dining Room Operations	5
WR 121	Academic Composition	4
or BA 214	Business Communications	

**Total Credits 51**

<sup>1</sup> Course carries a \$185 per credit fee for lab and consumable materials.

## Hospitality Management

### Associate of Applied Science

#### PROGRAM DESCRIPTION

The Associate of Applied Science (AAS) coursework prepares students for immediate employment in hospitality occupations. A Hospitality Management (HM) AAS degree will provide students with the skills the hospitality industry requires – specifically, skills in management, hospitality technology, food and beverage operations and basic business fundamentals of marketing, customer service and financial analysis.

#### PROGRAM COSTS

(beyond standard tuition/fees and textbooks)

##### Material Costs

- \$23 OLCC Liquor Control Card
- Additional cost for supplies approximately \$150

##### Enrollment Fees

- Specified courses carry a \$185 per credit course fee for lab and consumable materials (estimated at \$1295)

#### PROGRAM ENTRANCE REQUIREMENTS

##### Academic Entrance Requirements

- Required:
  - Enrollment in or completion of WR 121 or BA 214.
  - Minimum placement scores resulting in MTH 060 Algebra I/CUL 090 Applied Math for Culinary Arts placement or completion of MTH 020 Pre-Algebra/MTH 031 Health Care Math ("C" or better)

#### PROGRAM PERFORMANCE STANDARDS

##### Academic Requirements

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses in the program must be completed with a grade of C or higher.

##### Additional Requirements

- Academic dishonesty will not be tolerated and can result in the offending student being dropped from the program. Students wishing reinstatement must seek endorsement from the department chair after completing a progressive review.

#### PROGRAM COURSE REQUIREMENTS

##### Level 1 Foundation Courses

BA 217	Accounting Fundamentals	4
CIS 120	Computer Concepts (or Computer Competency Test)	0-4
CIS 131	Software Applications	4
CUL 090	Applied Math for Culinary Arts	4
CUL 101	Introduction to Culinary Arts <sup>1</sup>	4
CUL 102	Food Safety and Sanitation	2

HM 101	Introduction to Hospitality	4
HM 130	Supervision in Hospitality	4
LIB 100	Intro to Finding Information	1
WR 121	Academic Composition	3-4
or BA 214	Business Communications	

**Level 2 Core Courses**

BA 178	Customer Service	3
BA 223	Marketing Principles I	4
BA 250	Entrepreneurship	4
CIS 125E	Excel	4
CUL 105	International Exchange Prep	2
HM 150	Procurement & Cost Control	3
HM 160	Wine & Beverage Management <sup>1</sup>	3
HM 190	Dining Room Operations	5
HM 210	Menu Composition and Analysis	3
HM 230	Lodging Management	4
HM 240	Hospitality Law	4
HM 280	Hospitality Indust. Internship	6
HM 290	Career Success and E-Folio	2

**Level 3**

Choose 16 credits from the following:		16
BA 101	Intro to Business	
BA 224	Human Resources Management	
BA 249	Retailing	
BA 261	Consumer Behavior	
CIS 178	Internet in Depth	
HHP 268	Sustainable Food and Nutrition	
HM 275	Mixology and Beverage Ops	

**Total Credits 93-98**

<sup>1</sup> Course carries a \$185 per credit fee for lab and consumable materials.

**ADVISING NOTES**

Foundation courses ensure that students have basic skills and basic business concepts to address further skill development. Foundation courses include math, computer and writing skills. Core courses that will allow students to begin to understand concepts in their specialization courses taken in Level 3. Students should take as many Level 1 courses as possible before attempting Level 2 courses, Level 2 courses before Level 3 courses, etc. This will enable students to approach each class with the background necessary to succeed and enjoy the course content. This degree is designed for students planning to enter their chosen career upon graduation. Only selected credits are considered transferable to public or private baccalaureate institutions. See advisor for additional information.

## Hospitality Management

### Certificate of Completion

**PROGRAM DESCRIPTION**

The Hospitality Management certificate is designed to give students a foundation for careers in hospitality management.

**PROGRAM COSTS**

(beyond standard tuition/fees and textbooks)

**Material Costs**

- \$23 OLCC Liquor Control Card
- Additional cost for supplies approximately \$150

**Enrollment Fees**

- Specified courses carry a \$185 per credit course fee for lab and consumable materials (estimated at \$1295)

**PROGRAM ENTRANCE REQUIREMENTS**

**Academic Entrance Requirements**

- Enrollment in or completion of WR 121 or BA 214

- Minimum placement scores resulting in MTH 060 Algebra I/CUL 090 Applied Math for Culinary Arts placement or completion of MTH 020 Pre-Algebra/MTH 031 Health Care Math ("C" or better)

**PROGRAM PERFORMANCE STANDARDS**

**Academic Requirements**

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses in the program must be completed with a grade of C or higher.

**Additional Requirements**

- Academic dishonesty will not be tolerated and can result in the offending student being dropped from the program. Students wishing reinstatement must seek endorsement from the department chair after completing a progressive review.

**PROGRAM COURSE REQUIREMENTS**

**Level 1 Foundation Courses**

BA 217	Accounting Fundamentals	4
CIS 120	Computer Concepts (or Computer Competency Test)	0-4
CIS 131	Software Applications	4
CUL 090	Applied Math for Culinary Arts	4
CUL 101	Introduction to Culinary Arts <sup>1</sup>	4
CUL 102	Food Safety and Sanitation	2
HM 101	Introduction to Hospitality	4
HM 130	Supervision in Hospitality	4
LIB 100	Intro to Finding Information	1
WR 121	Academic Composition	3-4
or BA 214	Business Communications	

**Level 2 Core Courses**

HM 150	Procurement & Cost Control	3
HM 160	Wine & Beverage Management <sup>1</sup>	3
HM 190	Dining Room Operations	5
HM 210	Menu Composition and Analysis	3
HM 230	Lodging Management	

**Total Credits 44-49**

<sup>1</sup> Course carries a \$185 per credit fee for lab and consumable materials.

**ADVISING NOTES**

Students should consult their advisor if they have transfer credits, are not able to attend full time or are not at college level in reading, writing and math.

This certificate is designed for students planning to enter their chosen career upon graduation. Often only selected credits are considered transferable to public or private baccalaureate institutions.

## CHEMISTRY

### Chemistry

#### Associate of Science Oregon Transfer

**FOCUS AREA DESCRIPTION**

Chemists study the composition and transformations of matter. Chemists work in a wide variety of settings and find employment with government, academic and private institutions. Chemistry is frequently described as the "central science" because of the connections between it and all other scientific disciplines. Earning a degree in chemistry can be the first step toward careers with chemical, materials or pharmaceutical companies, biotech firms or forensic laboratories. It can also be a stepping stone on the route to a professional medical degree, for instance in medicine, physical therapy or pharmacy. Chemists are readily employable after completion of a bachelor's degree. Earning an Associate of Arts Oregon Transfer (AAOT) degree with a chemistry emphasis is also excellent preparation for bachelor's degrees in related disciplines such as toxicology, atmospheric science, environmental science or materials science.

**PROGRAM ENTRANCE REQUIREMENTS**

None

**PROGRAM PERFORMANCE STANDARDS****Academic Requirements**

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses in the program must be completed with a grade of C or higher.

**PROGRAM COURSE REQUIREMENTS****General Education/Foundational****Health**3 credits with HHP or HHPA prefix<sup>1</sup> 3**Mathematics**

MTH 105 Math in Society (or higher) 4

**Oral Communication**

(choose one course from the following): 3-4

SP 111 Fundamentals Public Speaking

SP 114 Argumentation &amp; Discourse

SP 115 Intro Intercultural Commun

SP 218 Interpersonal Communication

SP 219 Small Group Communication

**Writing**

WR 121 Academic Composition 4

WR 122 Argument, Research and Multimodal Composition 4

or WR 227 Technical Writing

**General Education/Discipline Studies**

One course must be designated as Cultural Literacy.

**Arts and Letters** 9-12

Choose at least three courses from at least two prefixes

**Social Science** 12-16

Choose at least four courses from at least two prefixes

**Science/Math/Computer Science** 12-20

Choose at least four courses from at least two prefixes including at least

three laboratory courses in biological and/or physical science

Recommend: CH 221, CH 222, CH 223, and PH 201 or PH 211

**Electives** 39

Choose enough electives to reach 90 credits

Recommend: MTH 251, MTH 252, MTH 253, PH 202 or PH 212,

PH 203 or PH 213

**Total Credits 90-106**<sup>1</sup> HHPA activity courses (1 credit each) are not to be duplicated.**ADVISING NOTES**

Oregon public universities with a chemistry major include: Eastern Oregon University, Oregon State University, Portland State University, Southern Oregon University, University of Oregon, Western Oregon University.

**COMMUNICATION****Communication/Journalism**

## Associate of Arts Oregon Transfer

**FOCUS AREA DESCRIPTION**

The Associate of Arts Oregon Transfer (AAOT) with a focus in communication/journalism includes courses that are commonly required for these majors and meets lower division general education requirements at all Oregon public universities. COCC offers courses in public speaking, small group communication, interpersonal communication, as well as courses on the media, gender, intercultural communication, argumentation and journalism. One-credit, workshop-

style courses are also available for those who want to learn team skills, conflict management, listening skills and the basics of free expression. A degree in communication/journalism can lead to a career in teaching, the hospitality industry, broadcast and cyber media, human resources, business management, public relations, politics, law or the arts.

**PROGRAM ENTRANCE REQUIREMENTS**

None

**PROGRAM PERFORMANCE STANDARDS****Academic Requirements**

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses in the program must be completed with a grade of C or higher.

**PROGRAM COURSE REQUIREMENTS****General Education/Foundational****Health**3 credits with HHP or HHPA prefix<sup>1</sup> 3**Mathematics**

MTH 105 Math in Society (or higher) 4

**Oral Communication**

Choose one of the following courses: 3-4

SP 111 Fundamentals Public Speaking

SP 114 Argumentation &amp; Discourse

SP 115 Intro Intercultural Commun

SP 218 Interpersonal Communication

SP 219 Small Group Communication

**Writing**

WR 121 Academic Composition 4

WR 122 Argument, Research and Multimodal Composition 4

or WR 227 Technical Writing

**General Education/Discipline Studies**

One course must be designated as Cultural Literacy.

**Arts and Letters** 9-12Choose at least three courses from at least two prefixes<sup>2</sup>**Social Science** 12-16Choose at least four courses from at least two prefixes<sup>3</sup>**Science/Math/Computer Science** 12-20

Choose at least four courses from at least two prefixes including at least

three laboratory courses in biological and/or physical science

**Electives** 39

Choose enough electives to reach the minimum of 90 credits

for the AAOT<sup>4</sup>**Total Credits 90-106**<sup>1</sup> HHPA activity courses (1 credit each) are not to be duplicated.<sup>2</sup> Speech communication majors should consider courses with ART, HUM, ENG, PHL, SP or TA prefixes.<sup>3</sup> Speech communication majors interested in quantitative communication studies should consider courses with a PSY or SOC prefix. Speech communication majors interested in rhetoric and public address should consider courses with an HST or PS prefix.<sup>4</sup> Related courses to consider: any course with a SP prefix**ADVISING NOTES**

Oregon public universities offer a variety of programs for speech communication majors who seek a bachelor's or more advanced degree. Some Oregon two-year and four-year colleges have required speech courses that are 4 credits, so students transferring to those colleges may find it helpful to take one of the 1 credit courses, such as SP 250 Listening, SP 252 Team Skills, SP 253 Conflict Management or SP 255 to supplement one of the 3 credit speech courses.

Oregon State University – Cascades offers a speech communication minor; contact its Admissions office for more information. OSU’s (Corvallis) department of Speech Communication offers undergraduate programs leading to BA or BS degrees, with concentrations in communication or theatre arts. Additionally, students at OSU can complete a minor either in communication or theatre arts, as well as one in the multimedia minors. At the graduate level they participate in the Master of Arts in Interdisciplinary Studies program.

Oregon Tech’s Communications Department offers a BS in Communication Studies, with an optional certificate in Dispute Resolution. They also offer minors in Human Communication or Technical Communication.

Southern Oregon University’s Department of Communication provides students the opportunity to develop verbal and nonverbal communication knowledge and skills through exploration of human communication, mass media studies and journalism. In addition to these three degree programs, the department offers four minor options to support a variety of goals: human communication, journalism, media studies and public relations.

The University of Oregon’s School of Journalism and Communication offers majors in six areas: advertising, electronic media, communication studies, magazine journalism, news-editorial or public relations.

Western Oregon University’s Speech Communication Department offers a 57-hour major and a 27-hour minor in speech communication. In the liberal arts tradition, their program emphasizes classic texts of rhetoric, modern communication theory and the latest developments in mass media and communication technology.

## COMPUTER & INFORMATION SYSTEMS

### Computer & Information Systems Associate of Applied Science

#### PROGRAM DESCRIPTION

The Computer Information Systems (CIS) degree program is designed around a core curriculum and four distinct options. The program’s core provides an introduction to computer concepts, software applications, operating systems, networking, database, computer servicing, internet, math, human relations and writing. Graduates work in information technology (IT) for a wide variety of commercial businesses, education, federal/state/local governments, e-commerce, publishing and real estate. CIS careers typically include positions such as PC technician, desktop support, network administrator, web developer, draftsman, database administrator, system administrator and related managerial and administrative roles.

#### PROGRAM COSTS

(beyond standard tuition/fees and textbooks)

##### Material Costs

- (8-32 GB usb/flash drive, basic office supplies, notebooks), \$100
- Recommended: a home or laptop computer capable of running the latest version of the Windows operating system and the latest version of Microsoft Office, \$600. Contact program instructors for specifics.

##### Enrollment Fees

- \$10 per credit for online courses

#### PROGRAM ENTRANCE REQUIREMENTS

##### Academic Entrance Requirements

- Recommended:
  - High school diploma or GED
  - Minimum placement scores resulting in WR 121 Academic Composition placement or completion of WR 065 Rhetoric/Critical Thinking II/WR 095 Basic Writing II (“C” or better)

- Minimum placement scores resulting in MTH 085 Technical Mathematics I placement or completion of MTH 020 Pre-Algebra and/or MTH 060 Algebra I equivalent
- Basic computer competency (or CIS 010 Computer Keyboarding and CIS 070 Intro to Computers: Windows)

#### PROGRAM PERFORMANCE STANDARDS

##### Academic Requirements

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses in the program must be completed with a grade of C or higher.

##### Additional Requirements

- All COCC students enrolled in the Computer Information Systems program (which includes requirements for Cooperative Work Experience) may have to pass Criminal History Checks (CHC) as a condition of their acceptance into a work site. Students who do not pass the CHC may not be eligible to complete requirements at affiliated practicum sites or be hired for some professional positions. Students who believe their history may interfere with their ability to complete the program of study should contact the program director.

#### PROGRAM COURSE REQUIREMENTS

##### Core Courses

CIS 120	Computer Concepts	4
CIS 122	Introduction to Programming	4
CIS 131	Software Applications	4
CIS 135DB	Database Theory/SQL	4
CIS 140	A+ Essentials I	4
CIS 145	A+ Essentials II	4
CIS 178	Internet in Depth	4
CIS 179	Networking Essentials	4
CIS 195	Web Development I	4
CIS 244	Information Systems Analysis	4
CIS 279WC	Windows Client	4
CIS 297	CIS Professional Capstone	4

##### General CIS AAS Degree

Select 27 credits with a CIS prefix numbered 100 or higher	27
--	----

##### Other Required Courses

Choose one course from the following:	3-4
BA 214 Business Communications	
SP 111 Fundamentals Public Speaking	
WR 122 Argument, Research and Multimodal Composition	
WR 227 Technical Writing	
Choose two courses from the Discipline Studies list (except CS prefix courses) or the recommended electives list below	6-8
Recommend: BA 101, BA 111, BA 112, BA 113, BA 177, BA 178, BA 206, BA 207, BA 211, BA 212, BA 213, BA 217, BA 218, BA 220, BA 222, BA 223, BA 224, BA 226, BA 228, BA 229, BA 239, BA 249, BA 250, BA 286	
Human Relations approved course	3-4
MTH 085 Technical Mathematics I (or higher)	3-4
or BA 104 Business Math	
WR 121 Academic Composition	4

**Total Credits 94-99**

#### ADVISING NOTES

Core courses are all offered two to three quarters each academic year. All CIS option courses are offered one to two quarters an academic year. Planning ahead is important. Students may take non-program support courses any term to build skills related to prerequisites.

This degree is designed for students planning to enter their chosen career upon graduation. Often only selected credits are considered transferable to public or private baccalaureate institutions.



## Computer & Information Systems: Computer Aided Drafting

Associate of Applied Science

### PROGRAM DESCRIPTION

The Computer Information Systems (CIS) degree program is designed around a core curriculum and four distinct options. The program's core provides an introduction to computer concepts, software applications, operating systems, networking, database, computer servicing, internet, math, human relations and writing. Graduates work in information technology (IT) for a wide variety of commercial businesses, education, federal/state/local governments, e-commerce, publishing and real estate. CIS careers typically include positions such as PC technician, desktop support, network administrator, web developer, draftsman, database administrator, system administrator and related managerial and administrative roles.

The Computer Aided Drafting option prepares students for entry-level employment in the drafting field. Students prepare for advanced CAD applications through an introductory set of CAD-based curriculum. Students will gain experience using dedicated architectural, civil and mechanical software.

### PROGRAM COSTS

(beyond standard tuition/fees and textbooks)

#### Material Costs

- (8-32 GB usb/flash drive, basic office supplies, notebooks), \$100
- Recommended:  
A home or laptop computer capable of running the latest version of the Windows operating system and the latest version of Microsoft Office, \$600. Contact program instructors for specifics.

#### Enrollment Fees

- \$10 per credit for online courses

### PROGRAM ENTRANCE REQUIREMENTS

#### Academic Entrance Requirements

- Recommended:
  - High school diploma or GED
  - Minimum placement scores resulting in WR 121 Academic Composition placement or completion of WR 065 Rhetoric/Critical Thinking II/WR 095 Basic Writing II ("C" or better)
  - Minimum placement scores resulting in MTH 085 Technical Mathematics I placement or completion of MTH 020 Pre-Algebra and/or MTH 060 Algebra I equivalent
  - Basic computer competency (or CIS 010 Computer Keyboarding and CIS 070 Intro to Computers: Windows)

### PROGRAM PERFORMANCE STANDARDS

#### Academic Requirements

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses in the program must be completed with a grade of C or higher.

#### Additional Requirements

- All COCC students enrolled in the Computer Information Systems program (which includes requirements for Cooperative Work Experience) may have to pass Criminal History Checks (CHC) as a condition of their acceptance into a work site. Students who do not pass the CHC may not be eligible to complete requirements at affiliated practicum sites or be hired for some professional positions. Students who believe their history may interfere with their ability to complete the program of study should contact the program director.

### PROGRAM COURSE REQUIREMENTS

#### Core Courses

CIS 120	Computer Concepts	4
CIS 122	Introduction to Programming	4
CIS 131	Software Applications	4
CIS 135DB	Database Theory/SQL	4

CIS 140	A+ Essentials I	4
CIS 145	A+ Essentials II	4
CIS 178	Internet in Depth	4
CIS 179	Networking Essentials	4
CIS 195	Web Development I	4
CIS 244	Information Systems Analysis	4
CIS 279WC	Windows Client	4
CIS 297	CIS Professional Capstone	4

#### Computer Aided Drafting Option

CIS 125A1	AutoCAD 1	4
CIS 125A2	AutoCAD 2	4
CIS 135A1	AutoDESK Revit 1	4
CIS 135A2	AutoDESK Revit 2	4
CIS 135C1	AutoCAD Civil 3D	4
CIS 135S1	SolidWorks 1	4
CIS 135S2	SolidWorks 2	4

#### Other Required Courses

Choose one course from the following:	3-4	
BA 214	Business Communications	
SP 111	Fundamentals Public Speaking	
WR 122	Argument, Research and Multimodal Composition	
WR 227	Technical Writing	
Choose two courses from the Discipline Studies list (except CS prefix courses) or the following CIS electives:	6-8	
CIS electives: BA 101, BA 111, BA 112, BA 113, BA 177, BA 178, BA 206, BA 207, BA 211, BA 212, BA 213, BA 217, BA 218, BA 220, BA 222, BA 223, BA 224, BA 226, BA 228, BA 229, BA 239, BA 249, BA 250, BA 286		
Human Relations approved course	3-4	
MTH 085	Technical Mathematics I (or higher)	3-4
or BA 104	Business Math	
WR 121	Academic Composition	4

**Total Credits 95-100**

### ADVISING NOTES

Core courses are all offered two to three quarters each academic year. All CIS option courses are offered one to two quarters an academic year. Planning ahead is important. Students may take non-program support courses any term to build skills related to prerequisites.

This degree is designed for students planning to enter their chosen career upon graduation. Often only selected credits are considered transferable to public or private baccalaureate institutions.

## Computer & Information Systems: Desktop Support

Associate of Applied Science

### PROGRAM DESCRIPTION

The Computer Information Systems (CIS) degree program is designed around a core curriculum and four distinct options. The program's core provides an introduction to computer concepts, software applications, operating systems, networking, database, computer servicing, internet, math, human relations and writing. Graduates work in information technology (IT) for a wide variety of commercial businesses, education, federal/state/local governments, e-commerce, publishing and real estate. CIS careers typically include positions such as PC technician, desktop support, network administrator, web developer, draftsman, database administrator, system administrator and related managerial and administrative roles.

The Desktop Support option prepares students to provide technical assistance to computer system users, answer questions, or resolve computer problems for clients in person, via telephone or from a remote location. Other responsibilities may include providing support for computer hardware and software, including printing, installation, word processing, spreadsheets, database, electronic mail and operating systems.

**PROGRAM COSTS**

(beyond standard tuition/fees and textbooks)

**Material Costs**

- (8-32 GB usb/flash drive, basic office supplies, notebooks), \$100
- Recommended:  
A home or laptop computer capable of running the latest version of the Windows operating system and the latest version of Microsoft Office, \$600. Contact program instructors for specifics.

**Enrollment Fees**

- \$10 per credit for online courses

**PROGRAM ENTRANCE REQUIREMENTS**

**Academic Entrance Requirements**

- Recommended:
  - High school diploma or GED
  - Minimum placement scores resulting in WR 121 Academic Composition placement or completion of WR 065 Rhetoric/Critical Thinking II/WR 095 Basic Writing II (“C” or better)
  - Minimum placement scores resulting in MTH 085 Technical Mathematics I placement or completion of MTH 020 Pre-Algebra and/or MTH 060 Algebra I equivalent
  - Basic computer competency (or CIS 010 Computer Keyboarding and CIS 070 Intro to Computers: Windows)

**PROGRAM PERFORMANCE STANDARDS**

**Academic Requirements**

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses in the program must be completed with a grade of C or higher.

**Additional Requirements**

- All COCC students enrolled in the Computer Information Systems program (which includes requirements for Cooperative Work Experience) may have to pass Criminal History Checks (CHC) as a condition of their acceptance into a work site. Students who do not pass the CHC may not be eligible to complete requirements at affiliated practicum sites or be hired for some professional positions. Students who believe their history may interfere with their ability to complete the program of study should contact the program director.

**PROGRAM COURSE REQUIREMENTS**

**Core Courses**

CIS 120	Computer Concepts	4
CIS 122	Introduction to Programming	4
CIS 131	Software Applications	4
CIS 135DB	Database Theory/SQL	4
CIS 140	A+ Essentials I	4
CIS 145	A+ Essentials II	4
CIS 178	Internet in Depth	4
CIS 179	Networking Essentials	4
CIS 195	Web Development I	4
CIS 244	Information Systems Analysis	4
CIS 279WC	Windows Client	4
CIS 297	CIS Professional Capstone	4

**Desktop Support Option**

Choose a minimum of 27 credits from the following: 27

BA 101	Intro to Business
BA 178	Customer Service
BA 223	Marketing Principles I
CIS 125A	Access
CIS 125E	Excel
CIS 125G	Photoshop
or CIS 125V	Visio
CIS 197	CMS Web Development: WordPress
CIS 235	IT in Business
CIS 280	Co-op Work Experience CIS

**Other Required Courses**

Choose one course from the following:		3-4
BA 214	Business Communications	
SP 111	Fundamentals Public Speaking	
WR 122	Argument, Research and Multimodal Composition	
WR 227	Technical Writing	

Choose two courses from the Discipline Studies list (except CS prefix courses) or the recommended CIS electives list below. 6-8

Recommend: BA 101, BA 111, BA 112, BA 113, BA 177, BA 178, BA 206, BA 207, BA 211, BA 212, BA 213, BA 217, BA 218, BA 220, BA 222, BA 223, BA 224, BA 226, BA 228, BA 229, BA 239, BA 249, BA 250, BA 286

Human Relations approved course	3-4	
MTH 085	Technical Mathematics I (or higher)	3-4
or BA 104	Business Math	
WR 121	Academic Composition	4
<b>Total Credits 94-99</b>		

**ADVISING NOTES**

Core courses are all offered two to three quarters each academic year. All CIS option courses are offered one to two quarters an academic year. Planning ahead is important. Students may take non-program support courses any term to build skills related to prerequisites.

This degree is designed for students planning to enter their chosen career upon graduation. Often only selected credits are considered transferable to public or private baccalaureate institutions.

**Computer & Information Systems:  
Networking**  
Associate of Applied Science

**PROGRAM DESCRIPTION**

The Computer Information Systems (CIS) degree program is designed around a core curriculum and four distinct options. The program’s core provides an introduction to computer concepts, software applications, operating systems, networking, database, computer servicing, internet, math, human relations and writing. Graduates work in information technology (IT) for a wide variety of commercial businesses, education, federal/state/local governments, e-commerce, publishing and real estate. CIS careers typically include positions such as PC technician, desktop support, network administrator, web developer, draftsman, database administrator, system administrator and related managerial and administrative roles.

The Networking option prepares students for entry-level positions in network administration. Network specialists have the ability to design, create, manage and maintain computer networks for small businesses. Courses cover both hardware and software and closely follow major industry certification requirements.

**PROGRAM COSTS**

(beyond standard tuition/fees and textbooks)

**Material Costs**

- (8-32 GB usb/flash drive, basic office supplies, notebooks), \$100
- Recommended: a home or laptop computer capable of running the latest version of the Windows operating system and the latest version of Microsoft Office, \$600. Contact program instructors for specifics.

**Enrollment Fees**

- \$10 per credit for online courses

**PROGRAM ENTRANCE REQUIREMENTS**

**Academic Entrance Requirements**

- Recommended:
  - High school diploma or GED
  - Minimum placement scores resulting in WR 121 Academic Composition placement or completion of WR 065 Rhetoric/Critical Thinking II/WR 095 Basic Writing II (“C” or better)

- Minimum placement scores resulting in MTH 085 Technical Mathematics I placement or completion of MTH 020 Pre-Algebra and/or MTH 060 Algebra I equivalent
- Basic computer competency (or CIS 010 Computer Keyboarding and CIS 070 Intro to Computers: Windows)

### PROGRAM PERFORMANCE STANDARDS

#### Academic Requirements

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses in the program must be completed with a grade of C or higher.

#### Additional Requirements

- All COCC students enrolled in the Computer Information Systems program (which includes requirements for Cooperative Work Experience) may have to pass Criminal History Checks (CHC) as a condition of their acceptance into a work site. Students who do not pass the CHC may not be eligible to complete requirements at affiliated practicum sites or be hired for some professional positions. Students who believe their history may interfere with their ability to complete the program of study should contact the program director.

### PROGRAM COURSE REQUIREMENTS

#### Core Courses

CIS 120	Computer Concepts	4
CIS 122	Introduction to Programming	4
CIS 131	Software Applications	4
CIS 135DB	Database Theory/SQL	4
CIS 140	A+ Essentials I	4
CIS 145	A+ Essentials II	4
CIS 178	Internet in Depth	4
CIS 179	Networking Essentials	4
CIS 195	Web Development I	4
CIS 244	Information Systems Analysis	4
CIS 279WC	Windows Client	4
CIS 297	CIS Professional Capstone	4

#### Networking Option

Choose a minimum of 27 credits from the following:	27	
CIS 151C	Cisco Internetworking	
CIS 152C	Cisco Router Configuration	
CIS 154C	Cisco VLAN and WAN Technologies	
CIS 279L	Linux+	
CIS 279SC	Windows Server Configuration	
CIS 279SE	Security+	
CIS 279SM	Windows Server Management	
CIS 279SS	Windows Server Services	
CIS 280	Co-op Work Experience CIS	
CIS 284	Cisco CCNA Security	
CIS 284EH	Ethical Hacking	

#### Other Required Courses

Choose one course from the following:	3-4	
BA 214	Business Communications	
SP 111	Fundamentals Public Speaking	
WR 122	Argument, Research and Multimodal Composition	
WR 227	Technical Writing	
Choose two courses from the Discipline Studies list (except CS prefix courses) or the recommended CIS electives list below.	6-8	
Recommend: BA 101, BA 111, BA 112, BA 113, BA 177, BA 178, BA 206, BA 207, BA 211, BA 212, BA 213, BA 217, BA 218, BA 220, BA 222, BA 223, BA 224, BA 226, BA 228, BA 229, BA 239, BA 249, BA 250, BA 286		
Human Relations approved course	3-4	
MTH 085	Technical Mathematics I (or higher)	3-4
or BA 104	Business Math	
WR 121	Academic Composition	4

**Total Credits 94-99**

### ADVISING NOTES

Core courses are all offered two to three quarters each academic year. All CIS option courses are offered one to two quarters an academic year. Planning ahead is important. Students may take non-program support courses any term to build skills related to prerequisites.

This degree is designed for students planning to enter their chosen career upon graduation. Often only selected credits are considered transferable to public or private baccalaureate institutions.

## Computer & Information Systems: Web Development Associate of Applied Science

### PROGRAM DESCRIPTION

The Computer Information Systems (CIS) degree program is designed around a core curriculum and four distinct options. The program's core provides an introduction to computer concepts, software applications, operating systems, networking, database, computer servicing, internet, math, human relations and writing. Graduates work in information technology (IT) for a wide variety of commercial businesses, education, federal/state/local governments, e-commerce, publishing and real estate. CIS careers typically include positions such as PC technician, desktop support, network administrator, web developer, draftsman, database administrator, system administrator and related managerial and administrative roles.

The Web Development option prepares students for a career as a web developer or website administrator. These professionals are responsible for creating standards-based websites and web/database applications. In addition to programming skills in common markup, scripting and SQL languages, these types of professions require project management and communication skills.

### PROGRAM COSTS

(beyond standard tuition/fees and textbooks)

#### Material Costs

- (8-32 GB usb/flash drive, basic office supplies, notebooks), \$100
- Recommended: A home or laptop computer capable of running the latest version of the Windows operating system and the latest version of Microsoft Office, \$600. Contact program instructors for specifics.

#### Enrollment Fees

- \$10 per credit for online courses

### PROGRAM ENTRANCE REQUIREMENTS

#### Academic Entrance Requirements

- Recommended:
  - High school diploma or GED
  - Minimum placement scores resulting in WR 121 Academic Composition placement or completion of WR 065 Rhetoric/Critical Thinking II/WR 095 Basic Writing II ("C" or better)
  - Minimum placement scores resulting in MTH 085 Technical Mathematics I placement or completion of MTH 020 Pre-Algebra and/or MTH 060 Algebra I equivalent
  - Basic computer competency (or CIS 010 Computer Keyboarding and CIS 070 Intro to Computers: Windows)

### PROGRAM PERFORMANCE STANDARDS

#### Academic Requirements

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses in the program must be completed with a grade of C or higher.

#### Additional Requirements

- All COCC students enrolled in the Computer Information Systems program (which includes requirements for Cooperative Work Experience) may have to pass Criminal History Checks (CHC) as

a condition of their acceptance into a work site. Students who do not pass the CHC may not be eligible to complete requirements at affiliated practicum sites or be hired for some professional positions. Students who believe their history may interfere with their ability to complete the program of study should contact the program director.

**PROGRAM COURSE REQUIREMENTS**

**Core Courses**

CIS 120	Computer Concepts	4
CIS 122	Introduction to Programming	4
CIS 131	Software Applications	4
CIS 135DB	Database Theory/SQL	4
CIS 140	A+ Essentials I	4
CIS 145	A+ Essentials II	4
CIS 178	Internet in Depth	4
CIS 179	Networking Essentials	4
CIS 195	Web Development I	4
CIS 244	Information Systems Analysis	4
CIS 279WC	Windows Client	4
CIS 297	CIS Professional Capstone	4

**Web Development Option**

Choose a minimum of 27 credits from the following:	27	
CIS 125G	Photoshop	
or CIS 125I	Adobe Illustrator	
CIS 125DV	Digital Video Productions	
or CIS 125WA	Web Animation	
CIS 133JS	Introduction to JavaScript	
CIS 133P	Introduction to PHP	
CIS 197	CMS Web Development: WordPress	
CIS 233P	Web Programming	
CIS 280	Co-op Work Experience CIS	
CIS 295	Web Development II	

**Other Required Courses**

Choose one course from the following:	3-4	
BA 214	Business Communications	
SP 111	Fundamentals Public Speaking	
WR 122	Argument, Research and Multimodal Composition	
WR 227	Technical Writing	
Choose two courses from the Discipline Studies list (except CS prefix courses) or the recommended CIS electives list below.	6-8	
Recommend: BA 101, BA 111, BA 112, BA 113, BA 177, BA 178, BA 206, BA 207, BA 211, BA 212, BA 213, BA 217, BA 218, BA 220, BA 222, BA 223, BA 224, BA 226, BA 228, BA 229, BA 239, BA 249, BA 250, BA 286		
Human Relations approved course	3-4	
MTH 085	Technical Mathematics I (or higher)	3-4
or BA 104	Business Math	
WR 121	Academic Composition	4

**Total Credits 94-99**

**ADVISING NOTES**

Core courses are all offered two to three quarters each academic year. All CIS option courses are offered one to two quarters an academic year. Planning ahead is important. Students may take non-program support courses any term to build skills related to prerequisites.

This degree is designed for students planning to enter their chosen career upon graduation. Often only selected credits are considered transferable to public or private baccalaureate institutions.

**Computer Science**  
Associate of Science Oregon Transfer

**PROGRAM DESCRIPTION**

Any student who earns the Associate of Science/Oregon Transfer-Computer Science degree on their official Oregon college transcript will have met the lower division general education requirements of

baccalaureate degree programs of any Oregon public university. Students transferring under the ASOT/CS agreement will have junior status for registration purposes. The ASOT/CS degree was created through collaboration between members of the Oregon Council of Computer Chairs (OCCC) which includes Oregon community college faculty and administration and Oregon public university computer science chairs and faculty. The degree provides general guidelines for a computer science major, however, GPA and course requirements are NOT guaranteed to have been satisfied with this degree. Students are encouraged to refer to the catalog of the specific university to which they plan to transfer to ensure accuracy of academic planning.

**PROGRAM ENTRANCE REQUIREMENTS**

None

**PROGRAM PERFORMANCE STANDARDS**

**Academic Requirements**

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses in the program must be completed with a grade of C or higher.

**PROGRAM COURSE REQUIREMENTS**

**General Education/Foundational**

<b>Health</b>		
Health (3 credits with HHP or HHPA prefix) <sup>1</sup>		3

**Mathematics**

MTH 251	Calculus I (or higher)	4
---------	------------------------	---

**Oral Communication**

Choose one course from the following:	3-4	
SP 111	Fundamentals Public Speaking	
SP 114	Argumentation & Discourse	
SP 115	Intro Intercultural Commun	
SP 218	Interpersonal Communication	
SP 219	Small Group Communication	

**Writing**

WR 121	Academic Composition	4
WR 122	Argument, Research and Multimodal Composition	4
or WR 227	Technical Writing	
Recommend: WR 227		

**General Education/Discipline Studies**

One course must be designated as Cultural Literacy.

**Arts and Letters**

Choose at least three courses from at least two prefixes	9-12
--	------

**Social Science**

Choose at least four courses from at least two prefixes	12-16
---	-------

**Science/Math/Computer Science**

MTH 252	Calculus II	4
Choose three science courses designated as lab science courses from the Discipline Studies list	9-15	

**Program Requirements**

CS 160	Computer Science Orientation	4
CS 161	Computer Science I	4
CS 162	Computer Science II	4
CS 260	Data Structures	4

**Electives**

Choose enough electives to reach a minimum total of 90 overall degree credits <sup>2</sup>	22
--	----

**Total Credits 90-104**

<sup>1</sup> HHPA activity courses (1 credit each) are not to be duplicated.

<sup>2</sup> Elective credits must number 100 or above with a maximum of 12 CTE credits. Students are encouraged to plan these credits carefully in consultation with university-specific CS program requirements.



**ADVISING NOTES**

Oregon State University Cascades campus offers a major in Computer Science, Applied Option: Web & Mobile Software Development (osucascades.edu). Students are recommended to reference current degree requirements including required courses and GPA. At the time of this publication, the following courses are recommended in the first 90 credits: COCC courses MTH 231 Discrete Mathematics Elements of Discrete Math; BA 250 Entrepreneurship Entrepreneurship; BA 217 Accounting Fundamentals Accounting Fundamentals; OSU courses CS 271, CS 275.

## Computer & Information Systems Certificate of Completion

**PROGRAM DESCRIPTION**

The Computer Information Systems (CIS) certificate of completion provides a foundation of skills in computer concepts, software applications, networking, and the internet. Students can apply all the credits of this program toward the AAS degree if desired.

**PROGRAM COSTS**

(beyond standard tuition/fees and textbooks)

**Material Costs**

- (8-32 GB usb/flash drive, basic office supplies, notebooks), \$100
- Recommended: A home or laptop computer capable of running the latest version of the Windows operating system and the latest version of Microsoft Office, \$600. Contact program instructors for specifics.

**Enrollment Fees**

- \$10 per credit for online courses

**PROGRAM ENTRANCE REQUIREMENTS****Academic Entrance Requirements**

- Recommended:
  - High school diploma or GED
  - Minimum placement scores resulting in WR 121 Academic Composition placement or completion of WR 065 Rhetoric/Critical Thinking II/WR 095 Basic Writing II ("C" or better)
  - Minimum placement scores resulting in MTH 085 Technical Mathematics I placement or completion of MTH 020 Pre-Algebra and/or MTH 060 Algebra I equivalent
  - Basic computer competency (or CIS 010 Computer Keyboarding and CIS 070 Intro to Computers: Windows)

**PROGRAM PERFORMANCE STANDARDS****Academic Requirements**

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses in the program must be completed with a grade of C or higher.

**PROGRAM COURSE REQUIREMENTS****Core Courses**

CIS 120	Computer Concepts	4
CIS 122	Introduction to Programming	4
CIS 131	Software Applications	4
CIS 135DB	Database Theory/SQL	4
CIS 140	A+ Essentials I	4
CIS 145	A+ Essentials II	4
CIS 178	Internet in Depth	4
CIS 179	Networking Essentials	4
CIS 195	Web Development I	4

**Other Required Courses**

Human Relations approved course		3-4
MTH 085 or BA 104	Technical Mathematics I (or higher) Business Math	3-4
WR 121	Academic Composition	4

**Total Credits 46-48**

**ADVISING NOTES**

Core Computer and Information Systems program courses (CIS) are all offered two to three quarters each academic year. All CIS elective courses are offered one to two quarters an academic year. Planning ahead is important. Students may take non-program support courses any term to build skills related to prerequisites.

## Computer Aided Drafting Certificate of Completion

**PROGRAM DESCRIPTION**

The certificate of completion in Computer Aided Drafting (CAD) prepares students for entry-level employment in the drafting field.

**PROGRAM COSTS**

(beyond standard tuition/fees and textbooks)

**Material Costs**

- (8-32 GB usb/flash drive, basic office supplies, notebooks), \$100
- Recommended: A home or laptop computer capable of running the latest version of the Windows operating system and the latest version of Microsoft Office, \$600. Contact program instructors for specifics.

**Enrollment Fees**

- \$10 per credit for online courses

**PROGRAM ENTRANCE REQUIREMENTS****Academic Entrance Requirements**

- Recommended: High school diploma or GED
  - Minimum placement scores resulting in WR 121 Academic Composition placement or completion of WR 065 Rhetoric/Critical Thinking II/WR 095 Basic Writing II ("C" or better)
  - Minimum placement scores resulting in MTH 085 Technical Mathematics I placement or completion of MTH 020 Pre-Algebra and/or MTH 060 Algebra I equivalent
  - Basic computer competency (or CIS 010 Computer Keyboarding and CIS 070 Intro to Computers: Windows)

**PROGRAM PERFORMANCE STANDARDS****Academic Requirements**

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses in the program must be completed with a grade of C or higher.

**PROGRAM COURSE REQUIREMENTS****Core Requirements**

CIS 120	Computer Concepts	4
CIS 125A1	AutoCAD 1	4
CIS 125A2	AutoCAD 2	4
CIS 125V	Visio	4
CIS 135A1	AutoDESK Revit 1	4
CIS 135A2	AutoDESK Revit 2	4
CIS 135C1	AutoCAD Civil 3D	4
CIS 135S1	SolidWorks 1	4
CIS 135S2	SolidWorks 2	4

**Other Required Courses**

Human Relations courses		3-4
MTH 085 or BA 104	Technical Mathematics I (or higher) Business Math	3-4
WR 121	Academic Composition	4

**Total Credits 46-48**

**ADVISING NOTES**

Core Computer and Information Systems program courses (CIS) are all offered two to three quarters each academic year. All CIS elective courses are offered one to two quarters an academic year. Planning ahead is important. Students may take non-program support courses any term to build skills related to prerequisites.

## Cybersecurity

### Short Term Certificate of Completion

#### PROGRAM DESCRIPTION

The Cybersecurity short term certificate extends knowledge and skills beyond entry-level computer networking and administration. Students will learn concepts and techniques essential for securing data and networks in both a vendor-neutral and Cisco environment.

#### PROGRAM COSTS

(beyond standard tuition/fees and textbooks)

##### Material Costs

- (8-32 GB usb/flash drive, basic office supplies, notebooks), \$100
- Recommended: A home or laptop computer capable of running the latest version of the Windows operating system and the latest version of Microsoft Office, \$600. Contact program instructors for specifics.

##### Enrollment Fees

- \$10 per credit for online courses

##### Industry Certifications

- Certifications for each class range in price from \$200-\$350
  - CompTIA Security+ approximately \$200
  - CompTIA Linux+ approximately \$150
  - Certified Ethical Hacker (CEH) approximately \$200-\$350
  - CCNA Cyber Ops approximately \$200-\$350

#### PROGRAM ENTRANCE REQUIREMENTS

##### Academic Entrance Requirements

- Required:
  - CIS 140 A+ Essentials I, CIS 145 A+ Essentials II, CIS 179 Networking Essentials
- Recommended:
  - CIS 120 Computer Concepts or equivalent skills
  - High school diploma or GED
  - Minimum placement scores resulting in WR 121 Academic Composition placement or completion of WR 065 Rhetoric/Critical Thinking II/WR 095 Basic Writing II (“C” or better)
  - Minimum placement scores resulting in MTH 085 Technical Mathematics I placement or completion of MTH 020 Pre-Algebra and/or MTH 060 Algebra I equivalent
  - Basic computer competency (or CIS 010 Computer Keyboarding and CIS 070 Intro to Computers: Windows)

#### PROGRAM PERFORMANCE STANDARDS

##### Academic Requirements

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses in the program must be completed with a grade of C or higher.

#### PROGRAM COURSE REQUIREMENTS

##### Core Courses

CIS 279L	Linux+	4
CIS 279SE	Security+	4
CIS 279OP	CCNA Cyber Ops	4
CIS 284EH	Ethical Hacking	4
<b>Total Credits</b>		<b>16</b>

## CRIMINAL JUSTICE

### Criminal Justice

#### Associate of Arts Oregon Transfer

#### FOCUS AREA DESCRIPTION

Criminal Justice is a growing profession in Oregon and is expected to grow faster than the labor market on average into the foreseeable future.

Job openings may call for a high school diploma, an associate’s degree or a bachelor’s degree.

#### PROGRAM ENTRANCE REQUIREMENTS

None

#### PROGRAM PERFORMANCE STANDARDS

##### Academic Requirements

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses in the program must be completed with a grade of C or higher.

#### PROGRAM COURSE REQUIREMENTS

##### General Education/Foundational

**Health**  
3 credits with HHP or HHPA prefix <sup>1</sup> 3

**Mathematics**  
MTH 105 Math in Society (or higher) 4

**Oral Communication**  
Choose one course from the following: 3-4

SP 111	Fundamentals Public Speaking
SP 114	Argumentation & Discourse
SP 115	Intro Intercultural Commun
SP 218	Interpersonal Communication
SP 219	Small Group Communication

**Writing**  
WR 121 Academic Composition 4  
WR 122 Argument, Research and Multimodal Composition 4  
or WR 227 Technical Writing

**General Education/Discipline Studies**  
One course must be designated as Cultural Literacy.

**Arts and Letters** 9-12  
At least three courses from at least two prefixes

**Social Science** 12-16  
At least four courses from at least two prefixes  
Recommend: CJ 100, 101, 110

**Science/Math/Computer Science** 12-20  
At least four courses from at least two prefixes including at least three laboratory courses in biological and/or physical science

**Electives** 39  
Choose any college-level course that brings the total credits to 90 quarter hours<sup>2</sup>  
Recommend: CJ 210, CJ 253<sup>3</sup>

**Total Credits 90-106**

<sup>1</sup> HHPA activity courses (1 credit each) are not to be duplicated.

<sup>2</sup> This may include up to 12 credits of Career and Technical Education (CTE) courses designated by COCC as acceptable.

<sup>3</sup> See advising notes. Related courses to consider: CJ prefix courses

#### ADVISING NOTES

If transferring to Oregon State University: HHP 295 Health and Fitness and WR 227 Technical Writing are recommended.

If transferring to Portland State University: CJ 101 Introduction to Criminology, CJ 110 Law Enforcement and CJ 253 Corrections are recommended.

If transferring to Southern Oregon University: CJ 210 Criminal Investigation I and CJ 211 Criminal Investigation II are recommended.

If transferring to Western Oregon University: CJ 100 Survey of the Criminal Justice System is recommended.

## Criminal Justice

### Associate of Applied Science

#### PROGRAM DESCRIPTION

Criminal Justice is a growing profession in Oregon and is expected to grow faster than the labor market on average into the foreseeable future. Job openings may call for a high school diploma, an associate's degree or a bachelor's degree. COCC's AAS in Criminal Justice program prepares students to begin a criminal justice career upon graduation.

#### PROGRAM ENTRANCE REQUIREMENTS

None

#### PROGRAM PERFORMANCE STANDARDS

##### Academic Requirements

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All Support and Core courses must be completed with a grade of C or higher.

#### PROGRAM COURSE REQUIREMENTS

##### Support Courses

MTH 020	Pre-Algebra (or higher)	4
SP 218	Interpersonal Communication	3
WR 121	Academic Composition	4

##### Core Courses

CJ 100	Survey of the Criminal Justice System	3
CJ 101	Introduction to Criminology	4
CJ 120	Judicial Process	3
CJ 153	Ethical Issues in Criminal Justice	3
CJ 201	Introduction to Juvenile Justice	3
CJ 243	Drugs and Crime in Society	3
CJ 253	Corrections	4
CJ 280	CWE Criminal Justice <sup>1</sup>	2
CJ Electives		15-18
Choose from: CJ 110, CJ 123, CJ 153, CJ 188, CJ 199, CJ 204, CJ 207, CJ 210, CJ 211, CJ 214, CJ 220, CJ 222, CJ 230, CJ 234, CJ 243, CJ 280, CJ 281, CJ 282, EMT 195		

##### Other Required Courses

ED 265	Children at Risk	3
Discipline Studies Social Science (no CJ prefix)		4
Discipline Studies (no CJ prefix)		3-5
Health (3-4 credits with HHP or HHPA prefix)		3-4
Recommend: HHP 252A, HHP 231, HHP 242, HHP 258, HHP 266, HHP 295 <sup>2</sup>		
PSY 233	Psych of Violence & Aggression	4
SOC 201	Introduction to Sociology	4
Two additional Psychology courses		8
General Electives: Choose enough credits to reach degree minimum 93 credits <sup>3</sup>		13
<b>Total Credits 93-99</b>		

<sup>1</sup> CJ 281 CWE Criminal Justice II and CJ 282 CWE Criminal Justice III may be taken as electives after successful completion of CJ 280 CWE Criminal Justice.

<sup>2</sup> HHPA activity courses (1 credit each) are not to be duplicated.

<sup>3</sup> Any class from the Discipline Studies list or any 100-level or higher class from the following subject areas, or with approval from the CJ program director:

- Addictions Studies (HS prefix)
- ART 161, ART 162, ART 163, ART 261, ART 265
- Computer and Information Systems
- Criminal Justice
- Emergency Medical Services (EMT)
- World Languages
- Geographic Information Systems
- Health and Human Performance (no repeats of activity courses)

- Military Science
- Speech
- Study Skills (HD prefix)

#### ADVISING NOTES

This degree is designed for students planning to enter their chosen career upon graduation. Often only selected credits are considered transferrable to public or private baccalaureate institutions.

## Juvenile Corrections

### Certificate of Completion

#### PROGRAM DESCRIPTION

The statewide one-year certificate program with a concentration in juvenile corrections is specifically designed for individuals who want to work directly with juvenile offenders in various settings. These settings may include Oregon Youth Authority (OYA) as well as other public, private and nonprofit agencies/programs. A criminal background check is required to complete the one-year certificate or the two-year degree. The criminal background check is also a requirement for any job in the criminal justice field.

#### PROGRAM ENTRANCE REQUIREMENTS

None

#### PROGRAM PERFORMANCE STANDARDS

##### Academic Requirements

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses in the program must be completed with a grade of C or higher.

#### PROGRAM COURSE REQUIREMENTS

##### Core Courses

CJ 100	Survey of the Criminal Justice System	3
CJ 101	Introduction to Criminology	4
CJ 201	Introduction to Juvenile Justice	3
CJ 230	Juvenile Corrections	3
CJ 280	CWE Criminal Justice	2
HS 205	Youth and Addictions	3
PSY 201	Mind and Brain	4
PSY 202	Mind and Society	4
PSY 215	Developmental Psychology	4
PSY 219	Abnormal Psychology	4
PSY 233	Psych of Violence & Aggression	4
SOC 201	Introduction to Sociology	4

##### Other Required Courses

CIS 120	Computer Concepts (or Computer Competency test)	0-4
MTH 065	Algebra II	4
WR 121	Academic Composition	4
<b>Total Credits 50-54</b>		

#### ADVISING NOTES

Most agencies in the criminal justice field will require a background check and most likely a physical abilities test. Each agency may have different requirements at local, state and federal levels.

This certificate/degree is designed for students planning to enter their chosen career upon graduation. Often only selected credits are considered transferrable to public or private baccalaureate institutions.

# DENTAL ASSISTING

## Dental Assisting Certificate of Completion

### PROGRAM DESCRIPTION

The Dental Assisting program trains individuals in a broad range of clinical and administrative skills such as preparing patients for dental exams and treatment, assisting a dentist with dental procedures, taking dental radiographs, scheduling and appointment procedures, maintenance of medical records, performing basic front office skills, professional, communication and public relations skills. Graduates are prepared for the Dental Assisting National Board examinations and the Oregon Certification in Expanded Functions.

### ACCREDITATION

Commission on Dental Accreditation of the American Dental Association

### PROGRAM COSTS

(beyond standard tuition/fees and textbooks)

#### Material Costs

- Materials (scrubs with COCC Dental Assisting patch, goggles), \$50
- National Board exams, \$1,000 total
- Fees associated with immunizations, \$220 and CPR card, \$20-\$60
- Criminal History Check, \$65
- Drug Screen, \$45
- Immunization Tracking, \$10

#### Enrollment Fees

- Fee of \$167 per term (or \$501 total for the year) while enrolled in the DA cohort

### PROGRAM ENTRANCE REQUIREMENTS

#### Academic Entrance Requirements

- Required:
  - A high school diploma, a high school transcript noting successful graduation, or a GED
  - MTH 095 Intermediate Algebra or higher
  - WR 121 Academic Composition (or higher)
  - SP 218 Interpersonal Communication
  - CIS 010 Computer Keyboarding
  - CIS 120 Computer Concepts or computer competency test
  - HHP 252 First Aid & BLS Provider CPR
  - Choose one of: PSY 101 Applied Psychology, PSY 201 Mind and Brain, PSY 215 Developmental Psychology, or PSY 216 Social Psychology
- A minimum of 12 hours of observation in a dental office

#### Other Entrance Requirements

- Required:
  - Must be 18 years of age
  - Criminal History Check, and 10-Panel Drug Screen with vendor chosen by COCC as a condition of acceptance into the program. For more information see [cocc.edu/programs/dental-assisting/immunizations--background-check--drug-testing-and-cpr-requirements.aspx](http://cocc.edu/programs/dental-assisting/immunizations--background-check--drug-testing-and-cpr-requirements.aspx)
  - Documentation of current immunizations: TB Blood Titer, MMR, Hep B (series of 3 vaccines), Varicella, Tdap, Flu
  - AHA Basic Life Support (BLS) for Healthcare Providers CPR card must remain current throughout the Dental Assisting program. For CPR class options see [enrole.com/cocc/jsp/index.jsp?categoryid=10228](http://enrole.com/cocc/jsp/index.jsp?categoryid=10228).

### PROGRAM PERFORMANCE STANDARDS

#### Academic Requirements

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses in the program must be completed with a grade of C or higher.

### Additional Requirements

- Once a student begins the DA cohort they must enroll in all DA courses offered each term. In order to progress to the next term, the student must complete all DA courses with a "C" or better.

### PROGRAM COURSE REQUIREMENTS

#### Prerequisites Courses

CIS 010	Computer Keyboarding	1
CIS 120	Computer Concepts (or Computer Competency Test)	0-4
HHP 252	First Aid & BLS Provider CPR	3
MTH 095	Intermediate Algebra (or higher)	4
Choose one from the following:		3-4
PSY 101	Applied Psychology	
PSY 201	Mind and Brain	
PSY 215	Developmental Psychology	
PSY 216	Social Psychology	
SP 218	Interpersonal Communication	3
WR 121	Academic Composition	4

#### Core Courses

DA 110	Basic Dental Assisting	4
DA 115	Dental Science	5
DA 120	Advanced Dental Assisting	4
DA 125	Dental Infection Control	3
DA 130	Dental Materials I	4
DA 131	Dental Materials II	4
DA 134	Dental Radiology I	3
DA 135	Dental Radiology II	4
DA 145	Preventive Dentistry	3
DA 150	Intro to Dental Office Management	3
DA 151	Dental Computing	2
DA 160	Oral Medicine	3
DA 181	Dental Seminar I	1
DA 182	Dental Seminar II	1
DA 190	Dental Assisting Practicum I	2
DA 191	Dental Assisting Practicum II	8

**Total Credits 72-77**

### ADVISING NOTES

Documents required for entry into the Dental Assisting program must be submitted after students register for the program. A letter of instruction is emailed to all registered and waitlisted students at the end of Spring term with an assigned documentation due date prior to Fall term. Failure to submit the required paperwork by the assigned date will result in administrative withdrawal from the program.

Program (DA) courses begin once per year in Fall term. Students wishing to register in the Fall Dental Assisting cohort must meet the basic prerequisite competencies and may register according to seat availability on a first-come, first-served basis, determined by the priority registration schedule. Students may view the priority registration schedule at [cocc.edu](http://cocc.edu). After successful registration into the Dental Assisting program, DA courses must be taken together and sequentially. Please see the Dental Assisting program website for more information or contact the program director and/or CAP Services.

This certificate is designed for students planning to enter their chosen career upon graduation. Often only selected credits are considered transferrable to public or private baccalaureate institutions.

# ECONOMICS

## Economics

### Associate of Arts Oregon Transfer

### FOCUS AREA DESCRIPTION

Economics is the study of how society allocates its scarce resources to satisfy its many needs and wants. The discipline is divided into two general areas: microeconomics and macroeconomics. Macroeconomics



studies the role of government in the economy, both in promoting social objectives and in keeping the economy healthy through fiscal and monetary policies. Microeconomics provides an understanding of consumption, production and distribution of goods and services subject to the forces of supply and demand. Additional courses within the economics program expand upon these ideas. International Economics provides an introductory survey of economic, political, social and cultural dimensions of globalization. Political Economy covers various micro and macro topics related to the United States economy from a systems and institutional perspective. This program is good preparation for careers in business, engineering, resource management or government, as well as solid training for graduate or law school.

**PROGRAM ENTRANCE REQUIREMENTS**

None

**PROGRAM PERFORMANCE STANDARDS**

**Academic Requirements**

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses in the program must be completed with a grade of C or higher.

**PROGRAM COURSE REQUIREMENTS**

**General Education/Foundational**

**Health**

3 credits with HHP or HHPA prefix<sup>1</sup> 3

**Mathematics**

MTH 105 Math in Society (or higher) 4

Recommend: MTH 111

**Oral Communication**

Choose one course from the following: 3-4

SP 111 Fundamentals Public Speaking

SP 114 Argumentation & Discourse

SP 115 Intro Intercultural Commun

SP 218 Interpersonal Communication

SP 219 Small Group Communication

**Writing**

WR 121 Academic Composition 4

WR 122 Argument, Research and Multimodal Composition 4

or WR 227 Technical Writing

**General Education/Discipline Studies**

One course must be designated as Cultural Literacy.

**Arts and Letters**

9-12

Choose at least three courses from at least two prefixes

Recommend: PHL 203, 200-level language courses

**Social Science**

12-16

Choose at least four courses from at least two prefixes

Recommend: EC 201, EC 202

Choose at least two additional courses with at least one different prefix

**Science/Math/Computer Science**

12-20

Choose at least three laboratory courses in biological and/or physical science

Additional math as transfer university requires

Recommend: MTH 243, MTH 244, MTH 251

**Electives**

39

Students must take enough elective courses to meet the

minimum 90 credits required for the degree

Recommend: EC 230, EC 285, HD 100CS, MTH 112,

100/200-level language courses

**Total Credits 90-106**

<sup>1</sup> HHPA activity courses (1 credit each) are not to be duplicated.

**ADVISING NOTES**

Students should check with each school to ensure that the latest transfer information is used when designing their program.

Students pursuing a BA should consider completing three terms of 200-level language courses at COCC. The 100-level language courses will count as electives. The 200-level language courses will partially fulfill the Arts and Letters requirement.

Students pursuing a BS should consider taking more math, social science and science courses. Language is not necessary for the BS degree, but would be valuable for students with a major or emphasis in international economics. For specific details, speak with an advisor.

**EDUCATION**

**Early Childhood Education**

**Associate of Arts Oregon Transfer**

**FOCUS AREA DESCRIPTION**

The Associate of Arts Oregon Transfer (AAOT) degree prepares students to transfer to a four-year college or university to achieve additional professional goals in Early Childhood Education, which may require further education.

**PROGRAM ENTRANCE REQUIREMENTS**

None

**PROGRAM PERFORMANCE STANDARDS**

**Academic Requirements**

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses in the program must be completed with a grade of C or higher.

**PROGRAM COURSE REQUIREMENTS**

**General Education/Foundational**

**Health**

3 credits with HHP or HHPA prefix<sup>1</sup> 3

**Mathematics**

MTH 105 Math in Society (or higher) 4-12

Recommend: MTH 211, MTH 212, MTH 213

**Oral Communication**

Choose one course from the following: 3-4

SP 111 Fundamentals Public Speaking

SP 114 Argumentation & Discourse

SP 115 Intro Intercultural Commun

SP 218 Interpersonal Communication

SP 219 Small Group Communication

**Writing**

WR 121 Academic Composition 4

WR 122 Argument, Research and Multimodal Composition 4

or WR 227 Technical Writing

**General Education/Discipline Studies**

One course must be designated as Cultural Literacy.

**Arts and Letters**

9-12

Choose at least three courses from at least two prefixes

**Social Science**

12-16

Choose at least four courses from at least two prefixes

**Science/Math/Computer Science**

12-20

Choose at least four courses from at least two prefixes including at least three laboratory courses in biological and/or physical science

**Electives**

39

Choose enough electives to reach 90 credits

Recommend: ED 140, ED 150, ED 151, ED 152, ED 172, ED 173, ED

174, ED 216, ED 219, ED 250, ED 253, ED 265, ED 290, ENG 221,

HHP 100, PSY 215

**Total Credits 90-114**

<sup>1</sup> HHPA activity courses (1 credit each) are not to be duplicated.

**ADVISING NOTES**

ED 216 Purpose, Structure and Function of Education in a Democracy, ED 219 Multicultural Issues in Education Settings and ED 253 Learning Across the Lifespan count toward the recommended courses for students pursuing the MAT at OSU-Cascades.

Students should check with each school to ensure that the latest transfer information is used when designing their program.

For students intending to transfer to Oregon State University-Cascades program in Human Development and Family Sciences (HDFS), please meet with an advisor in Early Childhood Education early in your course of study.

**Education – Elementary**  
Associate of Arts Oregon Transfer

**FOCUS AREA DESCRIPTION**

Have you always wanted to be a teacher? Do you enjoy working in a collaborative, fast-paced environment? Are you looking for a challenging career where you can make a difference in the lives of students? If so, COCC can give you a strong foundation for your goal of teaching at the elementary, middle school or high school level. The following is a suggested course of study for students interested in pursuing a bachelor’s degree in education designed for elementary licensure.

**PROGRAM ENTRANCE REQUIREMENTS**

None

**PROGRAM PERFORMANCE STANDARDS**

**Academic Requirements**

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses in the program must be completed with a grade of C or higher.

**PROGRAM COURSE REQUIREMENTS**

**General Education/Foundational**

**Health**

3 credits with HHP or HHPA prefix <sup>1</sup> 3  
Recommend: HHP 295<sup>2</sup>

**Mathematics**

MTH 105 Math in Society (or higher) 4  
Recommend: MTH 211

**Oral Communication**

Choose one course from the following: 3-4  
SP 111 Fundamentals Public Speaking  
SP 114 Argumentation & Discourse  
SP 115 Intro Intercultural Commun  
SP 218 Interpersonal Communication  
SP 219 Small Group Communication

**Writing**

WR 121 Academic Composition<sup>2</sup> 4  
WR 122 Argument, Research and Multimodal Composition 4  
or WR 227 Technical Writing

**General Education/Discipline Studies**

One course must be designated as Cultural Literacy.

**Arts and Letters** 9-12

Choose at least three courses from at least two prefixes  
Recommend: ED 112

**Social Science** 12-16

Choose at least four courses from at least two prefixes  
Recommend: ED 152 or SOC 222, ED 219, PSY 201, SOC 201<sup>2</sup>

**Science/Math/Computer Science** 12-20

Choose at least four courses from at least two prefixes including at least three laboratory courses in biological and/or physical science  
Recommend: FN 225

**Electives** 39

Choose enough electives to meet 90 credits  
Recommend: CIS 120, ED 172, ED 174, ED 176, ED 216, ED 235, ED 253, ED265, ED 269, ED 290, HST 201, HST 202, HST 203, MTH 212,<sup>2</sup> MTH 213<sup>2</sup>

**Total Credits 90-106**

<sup>1</sup> HHPA activity courses (1 credit each) are not to be duplicated.

<sup>2</sup> Intended to align with requirements for OSU’s Education major.  
Students should confirm current major requirements at OSU.

**ADVISING NOTES**

- In Oregon, students may achieve an initial license to teach through a bachelor’s program, a post-baccalaureate program or a master’s-level program. Students prepare to teach at different grade levels of authorization, depending on their background, interests and the requirements of specific programs of study. Students may prepare for a transfer degree in Early Childhood Education through COCC as the initial preparation for early childhood education as well as elementary grade-level teaching. However, it is important to work closely with an advisor to ensure that the degree contains the necessary prerequisite coursework for the desired licensure program.
- Students should check with each school to ensure that the latest transfer information is used when designing their program.
- There are several options for completing a teaching licensure program in Central Oregon.
- Students should consult with an education advisor as early as possible to discuss program options and determine which courses fulfill transfer requirements to different institutions and different levels of licensure.
- For more information on teacher preparation programs in Oregon, see the Oregon Teacher Standard and Practices Commission website at oregon.gov/TSPC. Students may also wish to review COCC’s advising guide for teacher education at cocc.edu.
- Students pursuing a BA should consider completing three terms of 200-level language courses at COCC. The 100-level language courses will count as electives. The 200-level language courses will partially fulfill the Arts and Letters requirement.
- Students pursuing a BS should consider taking more math, social science and science courses. Language is not necessary for the BS degree, but would be valuable for students with a major or emphasis in international economics. For specific details, speak with an advisor.

**Education – Secondary**  
Associate of Arts Oregon Transfer

**FOCUS AREA DESCRIPTION**

Have you always wanted to be a teacher? Do you enjoy working in a collaborative, fast-paced environment? Are you looking for a challenging career where you can make a difference in the lives of students? This focus area is intended to provide the lower division coursework for students preparing for careers in secondary education.

**PROGRAM ENTRANCE REQUIREMENTS**

None

**PROGRAM PERFORMANCE STANDARDS**

**Academic Requirements**

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses in the program must be completed with a grade of C or higher.

**PROGRAM COURSE REQUIREMENTS****General Education/Foundational****Health**

3 credits with HHP or HHPA prefix<sup>1</sup> 3  
 Recommend: HHP 295

**Mathematics**

MTH 105 Math in Society (or higher)<sup>2</sup> 4

**Oral Communication**

Choose one course from the following: 3-4  
 SP 111 Fundamentals Public Speaking  
 SP 114 Argumentation & Discourse  
 SP 115 Intro Intercultural Commun  
 SP 218 Interpersonal Communication  
 SP 219 Small Group Communication

**Writing**

WR 121 Academic Composition 4  
 WR 122 Argument, Research and Multimodal Composition 4  
 or WR 227 Technical Writing

**General Education/Discipline Studies**

One course must be designated as Cultural Literacy.

**Arts and Letters**

9-12  
 Choose at least three courses from at least two prefixes<sup>2</sup>

**Social Science**

12-16  
 Choose at least four courses from at least two prefixes<sup>2</sup>

**Science/Math/Computer Science**

12-20  
 Choose at least four courses from at least two prefixes including at least three laboratory courses in biological and/or physical science<sup>2</sup>

**Electives**

39  
 Students must take enough elective courses to meet the minimum 90 credits required for the degree.  
 Recommend: ED 210, ED 216, ED 219, ED 253

**Total Credits 90-106**

<sup>1</sup> HHPA activity courses (1 credit each) are not to be duplicated.

<sup>2</sup> Dependent on subject area student intends to teach.

**ADVISING NOTES**

- In Oregon, students are eligible to apply for a preliminary teaching license after completing an approved teacher preparation program (bachelor's, post-baccalaureate, or master's level), passing the Oregon Educator Licensure Assessments (ORELA) and completing student teaching. Students interested in teaching a high school subject area will need to be experts in the content area they intend to teach and will be required to pass a subject matter exam. Passing the exam allows for the necessary "endorsement" (the subject/s which a teacher is approved to teach). Commonly a student will complete a bachelor's degree in the subject area they intend to teach to build foundational knowledge, followed by or in conjunction with an approved teacher education program.
- Students should check with each school to ensure that the latest transfer information is used when designing their program.
- There are several options for completing a teaching licensure program in Central Oregon.
- Students should consult with an education advisor as early as possible to discuss program options and determine which courses fulfill transfer requirements to different institutions and different levels of licensure.
- For more information on teacher preparation programs in Oregon, see the Oregon Teacher Standard and Practices Commission website at [oregon.gov/tspc](http://oregon.gov/tspc). Students may also wish to review COCC's advising guide for teacher education at [cocc.edu](http://cocc.edu).
- Students who plan to major in the subject area they intend to teach should refer to the page in the catalog that aligns with that subject area (Example: Math, Biology, Literature, History, etc.).
- Students pursuing a BA should consider completing three terms of 200-level language courses at COCC. The 100-level language courses

will count as electives. The 200-level language courses will partially fulfill the Arts and Letters requirement.

- Students pursuing a BS should consider taking more math, social science and science courses. Language is not necessary for the BS degree, but would be valuable for students with a major or emphasis in international economics. For specific details, speak with an advisor.

**Helpful Resources**

Oregon Department of Education  
[teachin.oregon.gov/en/become-a-teacher-in-oregon](http://teachin.oregon.gov/en/become-a-teacher-in-oregon)

Oregon Teacher Standards and Practices Commission (TSPC)  
[oregon.gov/tspc/pages/index.aspx](http://oregon.gov/tspc/pages/index.aspx)

Oregon Educator Licensure Assessments (ORELA)  
[orela.nesinc.com](http://orela.nesinc.com)

## Early Childhood Education

### Associate of Applied Science

**PROGRAM DESCRIPTION**

At COCC, the Early Childhood Education (ECE) program provides students who have an interest in early childhood, including the early primary elementary years, with a foundation in the theoretical, social, historical and legal aspects of early childhood programming. The COCC associate degree programs in early childhood education provide the foundational knowledge, field experiences and common skills and strategies to prepare students for multiple roles within the field of early childhood education.

The Associate of Applied Science (AAS) degree prepares students with a strong emphasis in the theories, curriculum goals and developmentally appropriate teaching and guidance strategies necessary to lead an early childhood classroom program or work as a paraprofessional in the public schools.

**PROGRAM COSTS**

(beyond standard tuition/fees and textbooks)

**Material Costs**

- Background check (\$30-\$70)
- Cost of mileage to and from field placement/practicum sites

**Enrollment Fees**

- None

**PROGRAM ENTRANCE REQUIREMENTS****Academic Entrance Requirements**

- Recommended:
  - Complete ED 140 Introduction to ECE before taking other Early Childhood Education courses.

**Other Entrance Requirements**

- Required:
  - The ECE program requires a background check through the Oregon Employment Office-Child Care Division.
  - Some field placement sites may require documentation of current immunizations.

**PROGRAM PERFORMANCE STANDARDS****Academic Requirements**

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses in the program must be completed with a grade of C or higher.

**Additional Requirements**

- Adhere to the field placement contract; and
- Adhere to confidentiality, health-related and no-smoking policies as they pertain to field placement settings
- Refer to the COCC Early Childhood Student Handbook at [cocc.edu](http://cocc.edu) for an explanation of each of the above policies.

**PROGRAM COURSE REQUIREMENTS**

**Core Courses**

ED 140	Introduction to ECE	4
ED 150	Enviro & Curric in ECE	4
ED 151	Observ & Guidance in ECE Learn	4
ED 152	Family, School, Com. Relations	3
ED 172	Language & Literacy in ECE	3
ED 173	Movement, Music & Arts in ECE	3
ED 174	Math, Science and Technology in Early Childhood Education	3
ED 219	Multicultural Issues in Education Settings	3-4
or ED 224	AntiBias Curric in Education	
ED 250	Advanced Curriculum Development & Teaching Methods in Early Childhood Education	4
ED 261	ECE Practicum I	6
& ED 262	ECE Practicum II	
ED 265	Children at Risk	3
ED 269	Exceptional Children in Early Childhood Education	3

**Early Childhood Electives**

Choose a minimum of 11 credits from the following list: 11

ED 141	Youth Mentoring & Advocacy	
ED 176	Supporting Social, Emotional and Mental Health in Early Childhood	
ED 216	Purpose, Structure and Function of Education in a Democracy	
ED 235	Teaching and Learning in a Digital Age	
ED 240	Learning through Play	
ED 245	Trauma Sensitive Classrooms	
ED 253	Learning Across the Lifespan	
ED 290	Eng Lang Dev in Prim Classroom	
GEOG 272	Geography for Teachers	

**Other Required Courses**

Discipline Studies (choose 2 courses)		6-10
ENG 221	Introduction to Children’s Literature	3-4
or ED 112	Children’s Lit & Curricula	
FN 225	Human Nutrition <sup>1</sup>	3-4
or HHP 266	Nutrition for Health	
MTH 060	Algebra I (or higher)	4
PSY 201	Mind and Brain	4
PSY 215	Developmental Psychology	4
SOC 201	Introduction to Sociology	4
WR 121	Academic Composition	4
WR 122	Argument, Research and Multimodal Composition	4
or WR 227	Technical Writing	

**Total Credits 90-97**

<sup>1</sup> Students who may eventually complete a bachelor’s degree should take FN 225.

**ADVISING NOTES**

This degree is designed for students planning to enter their chosen career upon graduation. Often, only selected credits are considered transferable to public or private baccalaureate institutions.

COCC’s ECE program works closely with four year programs to prepare students for transfer opportunities in early learning, elementary education, and human service-related programs. In addition to working closely with programs, including OSU-C, and George Fox, the AAS degree is fully articulated with Southern Oregon University’s Early Childhood Development program and allows students to transfer directly as juniors and to become admitted into the Early Childhood Development program at Southern Oregon University (SOU) with no loss of credits to pursue a bachelor’s degree. The program offers an excellent balance of early childhood and general education courses that support advanced study in the field of early childhood development.

Students should contact the SOU School of Education early in the beginning of their AAS in Early Childhood Education 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. For more information, visit sou.edu and search “COCC” to access the articulation agreement.

Students wishing to use the AAS in ECE as a foundation for future licensure in K-12 classrooms should work closely with academic advisors in the education program to ensure appropriate transfer preparation.

**Child, Family and Community Studies**  
Short Term Certificate of Completion

**PROGRAM DESCRIPTION**

The CFC Studies short-term certificate of completion is designed to support students seeking careers in school and human service settings. The CFC Studies program is a step along the pathway to the AAS in Early Childhood Education. It invites students to apply theories and applications toward a broader perspective, including settings outside of school.

**PROGRAM COSTS**

(beyond standard tuition/fees and textbooks)

**Material Costs**

- Background check (\$3-\$70)
- Cost of mileage to and from field placement/practicum sites.

**PROGRAM ENTRANCE REQUIREMENTS**

**Academic Entrance Requirements**

- None

**Other Entrance Requirements**

- Required:
  - The ECE program requires a background check through the Oregon Employment Office-Child Care Division.
  - Some field placement sites may require documentation of current immunizations.

**PROGRAM PERFORMANCE STANDARDS**

**Academic Requirements**

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses in the program must be completed with a grade of C or higher.

**Additional Requirements**

- Adhere to the field placement contract
- Adhere to confidentiality, health-related and no-smoking policies as they pertain to field placement settings
- Refer to the COCC Early Childhood Student Handbook at cocc.edu for an explanation of each of the above policies.

**PROGRAM COURSE REQUIREMENTS**

**Core Courses**

ED 140	Introduction to ECE	4
ED 151	Observ & Guidance in ECE Learn	4
ED 152	Family, School, Com. Relations	3
ED 176	Supporting Social, Emotional and Mental Health in Early Childhood	3
or ED 245	Trauma Sensitive Classrooms	
ED 219	Multicultural Issues in Education Settings	3-4
or ED 224	AntiBias Curric in Education	
ED 265	Children at Risk	3

**Other Required Courses**

FN 225	Human Nutrition	4
or HHP 266	Nutrition for Health	
PSY 201	Mind and Brain	4
or PSY 215	Developmental Psychology	
SOC 201	Introduction to Sociology	4

**Total Credits 32-33**

**ADVISING NOTES**

Students with intentions to seek higher degrees or career opportunities in settings serving children and families may use the CFC Studies Certificate to demonstrate coursework and field placement experience. Credits will apply toward the Head Start Reauthorization Act for highly qualified lead and assistant teachers and family advocates. Students considering the HDFS program through OSU may use several courses (ED 140, PSY 202, SOC 201, FN 225) to HDFS program requirements.

## Developmentally Appropriate Learning Environments

### Short Term Certificate of Completion

**PROGRAM DESCRIPTION**

The Short Term Certificate of Completion (STCC) is designed to support students seeking careers in early learning settings.

**PROGRAM ENTRANCE REQUIREMENTS**

None

**PROGRAM PERFORMANCE STANDARDS****Academic Requirements**

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses in the program must be completed with a grade of C or higher.

**PROGRAM COURSE REQUIREMENTS****Core Courses**

ED 140	Introduction to ECE	4
ED 150	Enviro & Curric in ECE	4
ED 151	Observ & Guidance in ECE Learn	4
ED 152	Family, School, Com. Relations	3
Choose two courses from the following:		6
ED 112	Children's Lit & Curriculum	
ED 172	Language & Literacy in ECE	
ED 173	Movement, Music & Arts in ECE	
ED 174	Math, Science and Technology in Early Childhood Education	
ED 176	Supporting Social, Emotional and Mental Health in Early Childhood	

**Total Credits 21**

**ADVISING NOTES**

Credits will apply toward the Head Start Reauthorization Act for highly qualified lead and assistant teachers and family advocates. Students considering the Early Childhood Development program at Southern Oregon University or the HDFS program through OSU may apply to program requirements. The DALE certificate is a step along the pathway to the AAS in Early Childhood Education and it invites students to apply theories and applications toward early learning environments.

## EMERGENCY MEDICAL SERVICES

**Paramedicine****Associate of Applied Science****PROGRAM DESCRIPTION**

The AAS in Paramedicine is designed for students seeking a career in emergency medical services and/or the fire service industry. The program meets or exceeds the required technical skills and knowledge necessary for national and state licensure testing.

The program is challenging and will require participants to spend between 600 and 800 hours in clinical and field settings. The program contains certification requirements at the Emergency Medical Technician (EMT) and Paramedic levels. Students will need to satisfy a computer based and practical hands-on test through the National Registry of EMTs to complete certification.

Paramedics work in a variety of settings including fire departments, private and public ambulance services, hospitals (emergency departments), emergency communication systems, law enforcement agencies, search and rescue, recreation industry, forest service/ smokejumpers and some rural clinical environments. Paramedics provide many services to their communities, often working in teams where communication and technical skills are expected. Starting salaries range from \$2,500 to \$3,500 per month.

**ACCREDITATION**

The Paramedicine Program is accredited by the Commission on Accreditation of Allied Health (CAAHEP) upon the recommendation of the Commission on Accreditation of Education Programs for the Emergency Medical Services Professions (CoAEMSP).

The Paramedicine Program is also accredited by the Oregon Health Authority (OHA) upon the recommendation of the Higher Education Coordinating Commission (HECC).

**CAAHEP**

25400 US Highway 19 North, Suite 158  
Clearwater, FL 33763  
727.210.2350

**CoAEMSP**

8301 Lakeview Parkway, Suites 111-312  
Rowlett, TX 75088  
214.703.8992

**PROGRAM COSTS**

(beyond standard tuition/fees and textbooks)

**Material Costs**

- CPR for Healthcare Provider card: \$55. Must remain current throughout Basic and Paramedic classes.
- Background check: \$55. Students must pass a Criminal History Check (CHC) prior to enrolling in the Basic or Paramedic classes.
- Drug screen: \$55.
- Immunization upload \$14. Documentation of completion of the following immunizations; Hepatitis B, current TB, MMR, annual Influenza, Tetanus within previous 10 years, Varicella (Chickenpox).
- In some cases fees associated with immunizations can range from \$20-\$200.
- Materials (stethoscope, paramedic field manual, uniforms, etc.) range from \$20-\$150.
- Testing fees which include National Registry computer exams, practical skills testing, fingerprint background checks (depending on location of practical testing) range from \$450-\$1,000 (includes travel outside of the area).
- Paramedic students should anticipate costs for housing and living expenses when doing their field internship outside of the local area.

**PROGRAM ENTRANCE REQUIREMENTS****Academic Entrance Requirements**

- Required:
  - Successfully complete the application process and be accepted into Paramedic program.
- Recommended:
  - It is strongly recommended that candidates enrolling in the Paramedicine program have a strong background in high school or college math and chemistry. This knowledge will enhance the student's success in Anatomy and Physiology and college-level math.

**Other Entrance Requirements**

- Required:
  - High school diploma or GED.



- Students must be 18 years old or older to test for state and national exams.
- A current Health Care Provider CPR card is required prior to placement into EMT or Paramedic courses.
- Uploaded and verified, required immunizations as set forth in clinical agreement with St. Charles hospital system.
- Information on the courses that are required for entry into the Paramedic course as prerequisites and those used to calculate points for selection can be found on the Paramedicine website.
- All COCC students enrolled in an EMT, paramedic course and/or seeking agency affiliation requiring practical experience, will have to pass a Criminal History Check (CHC) as a condition of their acceptance into a medical, fire or other facility for training. Students who do not pass the CHC may not be eligible to complete training at affiliated sites, to sit for licensure or certification exams, or to be hired for some professional positions. Students who believe their personal history may interfere with their ability to complete the program of study or to obtain licensure or certification in their chosen field should contact the appropriate state board or the program director.
- Prior to entry into a health profession program, students must complete a 10 panel urine drug screen with Verified Credentials, Inc. With the exception of certain prescribed medications, students with a positive drug screen, which prevents them from attending clinical, will be disqualified from entering the program. Please refer to the Paramedicine website and/or program handbook for more detailed information.

**PROGRAM PERFORMANCE STANDARDS**

**Academic Requirements**

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses in the program must be completed with a grade of C or higher.

**Additional Requirements:**

- All students will undergo drug screening, background check and immunization verification with the vendor approved by Central Oregon Community College, prior to entrance into the EMT or Paramedic certification courses, at their expense. Students will be administratively withdrawn from the program and the seat given to an alternate student if requirements are not initiated with the specified vendor by the due date indicated by the Paramedicine program. Students with a positive urine drug screen will be disqualified from entering the EMT or Paramedic certification courses at Central Oregon Community College, with the exception of certain prescribed medications. The director of EMS/SFS will notify the student of positive drug screens and their resulting disqualification from the program. Students have a right to appeal the decision.
- State requirements: 85 percent attendance in EMT or Paramedic classes; 100 percent attendance for clinical and field rotations; and students must pass the overall EMT or Paramedic class at a minimum of 76 percent to sit for state and national registry testing and certification.
- All prerequisite courses must be completed at an average of a 3.0 GPA or higher.
- Students must maintain a minimum overall 2.7 GPA to maintain enrollment in the program; students falling below an overall 2.7 GPA during the Paramedicine program will have one term to correct the deficit. Students who fail to bring their grades up may not be allowed to register the following term and complete the course. They may reapply for the following year if they meet current requirements as set in Paramedic program readmission policy. Students applying for readmission who have failed a course will have to repeat the entire program sequence.
- Upon completion of EMT 151 EMT Basic Part A and EMT 152 EMT Basic Part B, students must pass the National Registry exam and be certified in the state of Oregon before continuing in Paramedic courses. Currently certified students do not need to retake the courses

for the degree but must hold a current Oregon EMT License or higher to enter the Paramedic course. License must remain current during entire program including CWE; failure to maintain current license and CPR card will result in student removal from the program.

**PROGRAM COURSE REQUIREMENTS**

**Core Courses**

AH 111	Medical Terminology I	3
BI 231	Human Anatomy and Physiology I	4
BI 232	Human Anatomy and Physiology II	4
BI 233	Human Anatomy and Physiology III	4
EMT 151	EMT Basic Part A	5
EMT 152	EMT Basic Part B	5
EMT 170	Emergency Response Communication/Documentation	2
EMT 171	Emerg Response Pt Transport	2
EMT 195	Crisis Intervention	3
EMT 290	Paramedic Part I	8
EMT 291	Paramedic Part I Clinical	3
EMT 292	Paramedic Part II	8
EMT 293	Paramedic Clinical Part II	3
EMT 294	Paramedic Part III	8
EMT 295	Paramedic Clinical Part III	3
EMT 296	Advanced Cardiac Life Support (ACLS)	1
EMT 297	Pediatric Advanced Life Support (PALS)	1
EMT 298	Prehospital Trauma Life Support (PHTLS)	1
SFS 101	Introduction to Emergency Services	4
SFS 230	Rescue Practices	3
Choose enough from the following to reach 4 credits <sup>2</sup>		4
EMT 280	Paramedic Co-op Work Experience	
EMT 280A	Paramedic Co-op Work Experience	
EMT 280B	Paramedic Co-op Work Experience	
EMT 280C	Paramedic Co-op Work Experience	
Paramedic Elective:		3-5
ANTH 103, BI 234, CJ 100, EMT 163, EMT 164, OL 244, PSY 101, PSY 201, PSY 202, PSY 216, SOC 201		

**Other Required Courses**

HHP 242	Stress Management	3
or HHP 266	Nutrition for Health	
or HHP 295	Health and Fitness	
FOR 211	Supervision and Leadership	3
or BA 285	Business Human Relations	
MTH 065	Algebra II (or higher) <sup>1</sup>	4
SP 111	Fundamentals Public Speaking (or higher)	3-4
WR 121	Academic Composition	4

**Total Credits 99-102**

<sup>1</sup> Students planning to transfer should take MTH 105 Math in Society or MTH 111 College Algebra.  
<sup>2</sup> Student will have the option if affiliated with a transporting EMS agency to enroll in a 1 credit CWE course in the Winter and/or Spring terms. If a student completes a CWE in one or both of these terms, they will enroll in a two or three credit CWE for the Summer term in order to have a total of four credits worth of CWE. Summer CWE is required by the program as more than 50% of a student's patient contacts needs to happen at the conclusion of all didactic and clinical experiences.

**ADVISING NOTES**

- Students should contact the Admissions and Records office to obtain details for Paramedic course selection and application process.
- Speak with an advisor prior to registration to get a list of recommended courses in categories that offer more than one option such as the general education requirement.
- Speak with program director to make sure students understand the state and national testing process for EMT and Paramedic courses.

**ENGINEERING****Physics**

## Associate of Arts Oregon Transfer

**FOCUS AREA DESCRIPTION**

Physics is arguably the oldest academic discipline; it is the study of matter and its motion and related energy. The Associate of Arts Oregon Transfer (AAOT) with a focus in physics includes most courses that are commonly required for a major and meets lower division general education requirements at all Oregon public universities. Since there are minor variations between university physics programs, students may have to take some additional courses after transferring.

**PROGRAM ENTRANCE REQUIREMENTS**

None

**PROGRAM PERFORMANCE STANDARDS****Academic Requirements**

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses in the program must be completed with a grade of C or higher.

**PROGRAM COURSE REQUIREMENTS****General Education/Foundational****Health**3 credits with HHP or HHPA prefix<sup>1</sup> 3**Mathematics**MTH 105 Math in Society (or higher) 4  
Recommend: MTH 251**Oral Communication**

Choose one course from the following: 3-4

SP 111	Fundamentals Public Speaking	
SP 114	Argumentation & Discourse	
SP 115	Intro Intercultural Commun	
SP 218	Interpersonal Communication	
SP 219	Small Group Communication	

**Writing**

WR 121 Academic Composition 4

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

Recommend: WR 227

**General Education/Discipline Studies**

One course must be designated as Cultural Literacy.

**Arts and Letters** 9-12

Choose at least three courses from at least two prefixes

**Social Science** 12-16

Choose at least four courses from at least two prefixes

**Science/Math/Computer Science** 12-20

Choose at least four courses from at least two prefixes including at least three laboratory courses in biological and/or physical science

Recommend: MTH 252, PH 211, PH 212, PH 213

**Electives** 39

Choose enough electives to reach 90 credits

Recommend: CH 221, CH 222, CH 223, ENGR 201, ENGR 202, ENGR 211, ENGR 212, ENGR 213, GE 101, GE 102, MTH 253, MTH 254, MTH 255, MTH 256

**Total Credits 90-106**<sup>1</sup> HHPA activity courses (1 credit each) are not to be duplicated.**Engineering Emphasis**

## Associate of Science

**FOCUS AREA DESCRIPTION**

COCC offers freshman and sophomore core science, engineering and general education courses needed for most engineering majors. Students earning an engineering degree choose from among the many branches of engineering available, such as: civil, mechanical, electrical, chemical, computer and OSU-Cascades' energy engineering management. Certain engineering majors and branches may require additional courses not offered at COCC.

**PROGRAM ENTRANCE REQUIREMENTS**

None

**PROGRAM PERFORMANCE STANDARDS****Academic Requirements**

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses in the program must be completed with a grade of C or higher.

**PROGRAM COURSE REQUIREMENTS****General Education/Foundational****Health**

HHP 295 Health and Fitness 3

**Mathematics**

MTH 251 Calculus I 4

**Oral Communication**

SP 111 Fundamentals Public Speaking 4

**Writing**

WR 121 Academic Composition 4

WR 227 Technical Writing 4

**General Education/Discipline Studies****Arts and Letters** 6-8

Choose two courses from the Discipline Studies list

**Social Science** 6-8

Choose two courses from the Discipline Studies list

Recommend: EC 201

**PROGRAM REQUIREMENTS**

CH 221 General Chemistry I 5

CH 222 General Chemistry II 5

ENGR 201 Electrical Fundamentals 4

ENGR 202 Electrical Fundamentals II 4

ENGR 211 Statics 4

ENGR 212 Dynamics 4

ENGR 213 Strength of Material 4

GE 101 Engineering Orientation 3

GE 102 Eng. Prob. Solv. &amp; Technology 3

MTH 252 Calculus II 4

MTH 253 Calculus III 4

MTH 254 Vector Calculus I 4

MTH 256 Applied Differential Equations 4

PH 211 General Physics I 5

PH 212 General Physics II 5

PH 213 General Physics III 5

**Total Credits 98-102****ADVISING NOTES**

Most engineering majors have few, if any, true electives and students must sequence courses very intentionally. The elective category should be used to tailor the program toward a specific engineering major or branch. Following are some general guidelines. We recommend students research requirements directly.

**Chemical:** CH 223 General Chemistry III, MTH 253 Calculus III. Note that OSU requires a year-long sequence prior to the junior year that COCC does not offer.

**Civil:** ENG 212 Dynamics

**Energy Engineering Management:** BA 217 Accounting Fundamentals, CS 161 Computer Science I, EC 201 Microeconomics, ENGR 202 Electrical Fundamentals II, ENGR 212 Dynamics, MTH 253 Calculus III

**Mechanical:** CIS programming class (CIS 122 Introduction to Programming, CIS 133JS Introduction to JavaScript, CIS 133P Introduction to PHP, CS 161 Computer Science I, CS 162 Computer Science II), CIS 125A1 AutoCAD 1, CIS 125A2 AutoCAD 2, ENGR 212 Dynamics, MFG 103 Welding Technology I, MFG 112 Manufacturing Processes II.

## EXERCISE SCIENCE

### Exercise Science/Kinesiology

Associate of Arts Oregon Transfer

#### FOCUS AREA DESCRIPTION

The AAOT degree meets the state of Oregon transfer degree requirements, allowing students to transfer to an Oregon public university and some out-of-state universities having met all lower-division general education requirements. With the appropriate course planning, all lower-division major requirements may also be met. Students should work closely with an advisor to select the best degree option and review specific transfer requirements. The following is a suggested course of study for students interested in pursuing a bachelor's degree in Exercise Science/Kinesiology.

#### PROGRAM ENTRANCE REQUIREMENTS

None

#### PROGRAM PERFORMANCE STANDARDS

##### Academic Requirements

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses in the program must be completed with a grade of C or higher.

#### PROGRAM COURSE REQUIREMENTS

##### General Education/Foundational

###### Health

3 credits with HHP or HHPA prefix<sup>1</sup> 3

###### Mathematics

MTH 105 Math in Society 4

Recommend: MTH 111

###### Oral Communication

Choose one course from the following: 3-4

SP 111 Fundamentals Public Speaking

SP 114 Argumentation & Discourse

SP 115 Intro Intercultural Commun

SP 218 Interpersonal Communication

SP 219 Small Group Communication

###### Writing

WR 121 Academic Composition 4

WR 122 Argument, Research and Multimodal Composition 4

or WR 227 Technical Writing

##### General Education/Discipline Studies

One course must be designated as Cultural Literacy.

##### Arts and Letters

Choose at least three courses from at least two prefixes 9-12

#### Social Science

Choose at least four courses from at least two prefixes  
Recommend: HHP 100, HHP 270, PSY 201, SOC 201

12-16

#### Science/Math/Computer Science

Choose at least four courses from at least two prefixes including at least three laboratory courses in biological and/or physical science  
Recommend: BI 231, BI 232, BI 233, HHP 261

12-20

#### Electives<sup>2</sup>

Choose enough electives to reach 90 credits  
Recommend: HHP 131, HHP 259, HHP 260, HHP 262 and MTH 112

39

**Total Credits 90-106**

<sup>1</sup> HHPA activity courses (1 credit each) are not to be duplicated.

<sup>2</sup> Related courses to consider: HHPA courses, HHP 212A AHA BLS Provider CPR, HHP 248 Health Psychology, HHP 266 Nutrition for Health, HHP 240 Science of Nutrition, HHP 267 Wellness Coaching Fundamentals, HHP 268 Sustainable Food and Nutrition, HHP 280A Practicum-Exercise Science, HHP 280B Practicum- EXSS

#### ADVISING NOTES

Nearby public universities with either an Exercise Science/Kinesiology major or closely related major:

- Boise State University
- Eastern Oregon University-Distance Education (Physical Activity and Health)
- Montana State University
- Oregon State University – Kinesiology
- Oregon State University-Cascades – Kinesiology
- Portland State University
- University of Montana
- University of Oregon

## Health/Wellness Coaching

Associate of Arts Oregon Transfer

#### FOCUS AREA DESCRIPTION

The aim of the AAOT focusing toward Wellness Coaching is to empower students to help others through prevention of illness, injury and disease by effective application of principle and practices of holistic wellness and life coaching. This program provides significant preparation toward the wellness coaching majors (see a wellness coaching advisor for specific programs). Successful completion of this coursework will assist students with the preparation necessary to complete their national certification in wellness or life coaching certifications through the American College of Sports Medicine, Wellcoaches Corporation, International Coach Federation and the National Wellness Institute.

#### PROGRAM ENTRANCE REQUIREMENTS

None

#### PROGRAM PERFORMANCE STANDARDS

##### Academic Requirements

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses in the program must be completed with a grade of C or higher.

#### PROGRAM COURSE REQUIREMENTS

##### General Education/Foundational

###### Health

3 credits with HHP or HHPA prefix<sup>1</sup> 3

Recommend: HHP 242

###### Mathematics

MTH 105 Math in Society 4

Recommend: MTH 111

**Oral Communication**

Choose one course from the following:	3-4
SP 111 Fundamentals Public Speaking	
SP 114 Argumentation & Discourse	
SP 115 Intro Intercultural Commun	
SP 218 Interpersonal Communication	
SP 219 Small Group Communication	

**Writing**

WR 121 Academic Composition	4
WR 122 Argument, Research and Multimodal Composition	4
or WR 227 Technical Writing	

**General Education/Discipline Studies**

One course must be designated as Cultural Literacy.

**Arts and Letters**

Choose at least three courses from at least two prefixes 9-12

**Social Science**

Choose at least four courses from at least two prefixes 12-16  
 Recommend: HHP 248, HHP 267, PSY 228

**Science/Math/Computer Science**

Choose at least four courses from at least two prefixes including 12-20  
 at least three laboratory courses in biological and/or physical science  
 Recommend: BI 231, BI 232, BI 233, MTH 243

**Electives**

Choose enough elective credits to reach a minimum total of 90 overall 39  
 degree credits<sup>2</sup>  
 Recommend: HHP 280A, HHP 280B, HS 262

**Total Credits 90-106**

<sup>1</sup> HHPA activity courses (1 credit each) are not to be duplicated.

<sup>2</sup> Related courses to consider: AH 205 Medical Ethics, BI 101 General Biology: Cells & Genes, BI 102 General Biology: Evolution, HHP 100 Intro to Public Health, HHP 231 Human Sexuality, HHP 210 Intro to Health Care System, HHP 212A AHA BLS Provider CPR, HHP 252 First Aid & BLS Provider CPR, HHP 260 Anatomical Kinesiology, HHP 261 Exercise Physiology, HHP 266 Nutrition for Health or HHP 240 Science of Nutrition, HHP 270 Sport and Exercise Psychology, PSY 201 Mind and Brain, PSY 202 Mind and Society, PSY 225 Eating Disorders, SOC 201 Introduction to Sociology.

**Mathematics**

MTH 105 Math in Society (or higher)	4
Recommended: MTH 111 or MTH 243	

**Oral Communication**

Choose one course from the following:	3-4
SP 111 Fundamentals Public Speaking	
SP 114 Argumentation & Discourse	
SP 115 Intro Intercultural Commun	
SP 218 Interpersonal Communication	
SP 219 Small Group Communication	

**Writing**

WR 121 Academic Composition	4
WR 122 Argument, Research and Multimodal Composition	4
or WR 227 Technical Writing	

**General Education/Discipline Studies**

One course must be designated as Cultural Literacy.

**Arts and Letters**

Choose at least three courses from at least two prefixes 9-12

**Social Science**

Choose at least four courses from at least two prefixes 12-16  
 Recommend: PSY 201, PSY 219, HHP 100, HHP 270

**Science/Math/Computer Science**

Choose at least four courses from at least two prefixes including 12-20  
 at least three laboratory courses in biological and/or physical science  
 Recommend: BI 231, BI 232, BI 233, and CH 221

**Electives**

Choose enough electives to reach the 90 minimum credits 39  
 required for the AAOT degree<sup>2,3</sup>  
 Recommend: (BI 101 and BI 102) or (BI 211 and 212), CH 221, CH 222, CH 223, PH 201, PH 202, PH 203, AH 111 and BI 234<sup>4</sup>

**Total Credits 90-106**

<sup>1</sup> HHPA activity courses (1 credit each) are not to be duplicated.

<sup>2</sup> Related courses to consider: Students explore the field of physical therapy through HHP 131 Introduction to Exercise/Sport Science and the other courses recommended in the following prefixes: HHP, BI, CH, and PH.

<sup>3</sup> Refer to advising notes and your assigned advisor for suggestions for a baccalaureate major.

<sup>4</sup> Discuss the selection of BI 101 General Biology: Cells & Genes or BI 211 Principles of Biology I with your advisor.

**ADVISING NOTES**

Pacific University and George Fox are the two Doctorate of Physical Therapy (DPT) programs in Oregon. These recommendations are based off of their pre-requisites for application. If you are pursuing other schools you must look at that school's specific course requirements for application as they may vary.

## FOREST RESOURCES TECHNOLOGY/FORESTRY

### Forest Resources Technology Associate of Applied Science

**PROGRAM DESCRIPTION**

The Associate of Applied Science (AAS) degree program in Forest Resources Technology provides the education and practical skills needed to succeed as a technician in forestry and natural resource fields throughout the western U.S. Job opportunities exist in government agencies (both state and federal) as well as private industry (contractors, consultants and private companies). The U.S. Forest Service is the primary employer for graduates of this program.

## Pre-Physical Therapy

Associate of Arts Oregon Transfer

**FOCUS AREA DESCRIPTION**

Students interested in pursuing professional degrees to become a Physical Therapist (PT) are required to complete a bachelor's degree, preferably in a related area, typically from exercise science, the biological sciences, or psychology. To provide a solid foundation for bachelor's degree work, students are encouraged to complete the Associate of Arts Oregon Transfer (AAOT) degree, with an emphasis on pre-PT coursework.

**PROGRAM ENTRANCE REQUIREMENTS**

None

**PROGRAM PERFORMANCE STANDARDS**

**Academic Requirements**

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses in the program must be completed with a grade of C or higher.

**PROGRAM COURSE REQUIREMENTS**

**General Education/Foundational**

**Health**

3 credits with HHP or HHPA prefix<sup>1</sup> 3

Traditional forest technician positions are now often referred to as natural resource technicians. Technicians spend considerable time outdoors. Typical entry-level positions might include forest management activities such as evaluation of reforestation efforts, timber sale layout, tree measurements, forest damage assessment and numerous other activities that are required when managing a forest. Additionally, entry-level natural resource technicians may perform noxious weed identification and eradication, plant and wildlife surveys, fire protection and suppression and stream monitoring and restoration. Natural resource technicians can work for state or federal government agencies and manage public property, or work for private industry and private landowners.

COCC's Forest Resources Technology program has the advantage of being located near several national forests. A majority of the courses within the program include outdoor lab opportunities, which provide hands-on experience and knowledge essential to being an effective natural resource technician. Additionally, students are able to take advantage of opportunities working with local agencies to develop and implement land management plans in the capstone course at the end of their second year.

**ACCREDITATION**

Society of American Foresters

**PROGRAM COSTS**

(beyond standard tuition/fees and textbooks)

**Material Costs**

- Equipment costs ranging from \$665-\$915 (suggested equipment includes: hardhat, boots, vest, compass, GPS, datum, plant press, hand lens, rain gear, field book)
- Students are expected to provide their own appropriate field clothing and tools

**Enrollment Fees**

- Additional lab fees of approximately \$250

**PROGRAM ENTRANCE REQUIREMENTS**

**Academic Entrance Requirements**

- Recommended:
  - Placement into MTH 085 Technical Mathematics I or higher
  - Placement into WR 121 Academic Composition or higher

**PROGRAM PERFORMANCE STANDARDS**

**Academic Requirements**

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses in the program must be completed with a grade of C or higher.

**PROGRAM COURSE REQUIREMENTS**

**Core Courses**

CIS 120	Computer Concepts (or Computer Competency Test)	0-4
FOR 100	Forestry Program Orientation	1
FOR 110	Wildland Fire Science I	2
FOR 111	Forestry Perspectives	4
FOR 126	Field Studies Pacific NW Forests	1
FOR 127	Plants of the Pacific Northwest	1
FOR 180	Co-op Work Experience Forestry	3
FOR 208	Soils: Sustainable Ecosystems	4
FOR 210	Wildland Fire Science II	2
FOR 211	Supervision and Leadership	3
FOR 215	Forest Resource Capstone	3
FOR 230A	Map, Compass and GPS	3
FOR 230B	Forest Surveying	3
FOR 235	Resource Measurements	4
FOR 236	Aerial Photo	3
FOR 237	Resource Sampling	4
FOR 240A	Forest Ecology	3
FOR 240B	Wildlife Ecology	3
FOR 241A	Field Dendrology	3
FOR 241B	Dendrology	3

FOR 260	Conservation of Natural Resources	3
FOR 271	Applied Forest Ecology	3
FOR 272	Forest Entomology/Pathology	3
FOR 273	Silviculture and Harvesting Systems	5
Forestry Resource Elective <sup>1</sup>		2
FW 218	Survey of Northwest Mammals	2
or FW 212	Survey of Northwest Birds	
GEOG 265	Geographic Information Systems	4

**Other Required Courses**

HHP 252A	Fitness/First Aid	3
Discipline Studies Courses		8
MTH 085	Technical Mathematics I <sup>2</sup>	4
MTH 086	Technical Mathematics II <sup>2</sup>	4
Choose one course from the following:		3-4
SP 111	Fundamentals Public Speaking	
SP 115	Intro Intercultural Commun	
SP 218	Interpersonal Communication	
SP 219	Small Group Communication	
WR 121	Academic Composition <sup>3</sup>	4

**Total Credits 101-106**

<sup>1</sup> Choose a minimum of 2 credits of courses not already required, with the following prefixes: BI, CH, FOR, FW, G, or GEOG.

<sup>2</sup> Students can choose to take MTH 085 and MTH 086, or MTH 111. Students planning to transfer should consider MTH 111 and consult with their advisor for other specific transfer requirements.

<sup>3</sup> Transfer students should also take WR 227.

**ADVISING NOTES**

This program can be completed within two years provided the student is adequately prepared to take MTH 085 Technical Mathematics I and WR 121 Academic Composition and coursework is initiated during fall term. Students entering in winter or spring term and/or who require developmental writing or math courses, can complete the program within a three-year period.

This degree is designed for students planning to enter their chosen career upon graduation. As such, only selected credits are considered transferable to public or private baccalaureate institutions. This will vary by institution. Institutions with which COCC has articulation agreements in Forest Resources Technology are Oregon State University and Oregon State University – Cascades.

Students planning to transfer to Humboldt State University, Oregon State University, or the University of Idaho to acquire a Bachelor of Science degree should meet with a COCC Forestry program advisor to discuss current transfer requirements. Many of the required undergraduate courses for the Bachelor of Science degrees can be taken at COCC and transferred accordingly.

Students are encouraged to meet with a faculty advisor in the Forestry program to discuss a two- or three-year educational plan. Students who have obtained a degree or completed coursework from another institution may be able to transfer some coursework to apply toward the AAS in Forest Resources Technology. A meeting with faculty or their advisor is strongly recommended.

**Agricultural Sciences  
(OSU Transfer) Emphasis  
Associate of Science**

**PROGRAM DESCRIPTION**

The Associate of Science (Agricultural Sciences/Oregon State University emphasis) fulfills many of the lower division requirements of a Bachelor of Science in Agricultural Sciences from Oregon State University. Course requirements for other agricultural majors at OSU and other universities will differ. Students are strongly encouraged to check current degree requirements for changes.



**PROGRAM ENTRANCE REQUIREMENTS**

None

**PROGRAM PERFORMANCE STANDARDS****Academic Requirements**

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses in the program must be completed with a grade of C or higher.

**PROGRAM COURSE REQUIREMENTS****Baccalaureate Core**

Writing I	WR 121 Academic Composition	4
Writing II	Met by Program Requirements	
Writing III	SP 111 Fundamentals Public Speaking or SP 114 Argumentation & Discourse	3-4
Mathematics	Met by Program Requirements	
Fitness	HHP 295 Health and Fitness	3

**Perspectives Courses**<sup>1,2</sup>

Choose one course from each of the following categories:

**Physical Science**

Met by Program Requirements

**Biological Science**

Met by Program Requirements

**Physical or Biological Science**

Met by Program Requirements

**Western Culture**<sup>1</sup> 3-4**Cultural Diversity**<sup>1</sup> 4**Literature and the Arts**<sup>1</sup> 3-4**Social Processes and Institutions**

Met by Program Requirements

**Difference, Power and Discrimination**<sup>1</sup> 4**PROGRAM REQUIREMENTS**

BA 217	Accounting Fundamentals	4
BI 101	General Biology: Cells & Genes <sup>3</sup>	4-5
or BI 211	Principles of Biology I	
BI 102	General Biology: Evolution <sup>3</sup>	4-5
or BI 212	Biology of Plants II	
BI 103	General Biology: Ecology <sup>3</sup>	4-5
or BI 213	Biology of Animals III	
CH 104	Introduction to Chemistry I <sup>3</sup>	5
or CH 221	General Chemistry I	
CH 105	Introduction to Chemistry II <sup>3</sup>	5
or CH 222	General Chemistry II	
CIS 120	Computer Concepts	4
EC 201	Microeconomics	4
FOR 208	Soils: Sustainable Ecosystems	4
MTH 105	Math in Society (or higher)	4
WR 227	Technical Writing	4

**Electives** 20

Choose any course numbered 100 or above that brings the total credits to 90 quarter hours. This may include up to 12 credits of Career and Technical Education courses designated by COCC as acceptable.

Recommend: BA 226, CH 106, CH 223, FOR 260, MFG 100, MFG 103, MTH 111, MTH 112, MTH 241, MTH 113, MTH 251, SPAN 101, SPAN 102

**Total Credits 90-96**<sup>1</sup> Select from the appropriate category in the OSU Baccalaureate Core course list in the COCC catalog.<sup>2</sup> No more than two courses (or lecture/lab combinations) from any one department may be used by a student to satisfy the Perspectives category of the core. GEO courses listed under Physical Science are considered to be from a different department than GEO courses listed under any other Perspective category.<sup>3</sup> Recommend: BI 211 Principles of Biology I, BI 212 Biology of Plants II and BI 213 Biology of Animals III and CH 221 General Chemistry I, CH 222 General Chemistry II and CH 223 General Chemistry III.**ADVISING NOTES**

Transferrable from OSU E-Campus

AG 242	Personal Leadership Development	3
ANS 121	Introduction to Animal Science	4
AREC 221	Marketing in Agriculture	3
AREC 250	Introduction to Environmental Economics and Policy	3
HORT 111	Introduction to Horticultural Crop Production	2
HORT 112	Intro to Horticultural Systems, Practices and Careers	2

**Forestry (OSU Transfer) Emphasis**  
Associate of Science**FOCUS AREA DESCRIPTION**

The Associate of Science (Forestry/OSU emphasis) is intended to fulfill many of the lower division requirements of a Bachelor of Science in forest management from Oregon State University, Corvallis. Other universities' requirements for a forest management degree will be similar (though course requirements for other forestry majors will differ). Students planning to transfer to any university forestry program should meet with a COCC Forest Resources Technology advisor to discuss current transfer requirements.

**PROGRAM ENTRANCE REQUIREMENTS**

None

**PROGRAM PERFORMANCE STANDARDS****Academic Requirements**

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses in the program must be completed with a grade of C or higher.

**PROGRAM COURSE REQUIREMENTS****Baccalaureate Core**

Writing I	WR 121 Academic Composition	4
Writing II	WR 227 Technical Writing	4
Writing III	SP 111 Fundamentals Public Speaking	4
Mathematics	MTH 112 Trigonometry	4
Fitness	HHP 295 Health and Fitness	3

**Perspectives Courses**<sup>1,2</sup>

Choose one course from each of the following categories:

**Physical Science**

Met by Program Requirements

**Biological Science**

Met by Program Requirements

**Physical or Biological Science**

Met by Program Requirements

**Western Culture**<sup>1</sup> 3-4**Cultural Diversity**<sup>1</sup> 4**Literature and the Arts**<sup>1</sup> 3-4**Social Processes and Institutions**

Met by Program Requirements

**PROGRAM REQUIREMENTS**

BI 101	General Biology: Cells & Genes	4-5
or BI 212	Biology of Plants II	
CH 221	General Chemistry I	5
CH 222	General Chemistry II	5
EC 201	Microeconomics	4
FOR 111	Forestry Perspectives	4
FOR 208	Soils: Sustainable Ecosystems	4
FOR 230A	Map, Compass and GPS	3
FOR 230B	Forest Surveying	3
FOR 240A	Forest Ecology	3
FOR 240B	Wildlife Ecology	3
FOR 241A	Field Dendrology	3
FOR 241B	Dendrology	3
FOR 235	Resource Measurements	4

FOR 236	Aerial Photo	3
GEOG 265	Geographic Information Systems	4
MTH 241	Calculus for Management/Social Science	4
MTH 243	Introduction to Probability and Statistics I	4
MTH 244	Introduction to Probability and Statistics 2	4
<b>Total Credits</b>		<b>96-99</b>

<sup>1</sup> Select from the appropriate category in the OSU Baccalaureate Core course list in the COCC catalog.

<sup>2</sup> No more than two courses (or lecture/lab combinations) from any one department may be used by a student to satisfy the Perspectives category of the core. GEO courses listed under Physical Science are considered to be from a different department than GEO courses listed under any other Perspective category.

**ADVISING NOTES**

It is recommended that a student also take FOR 251 Recreational Resource Management and BI 212 Biology of Plants II. Though it is not included as an AS requirements, students will need to meet the Difference, Power and Discrimination requirement at OSU and could use COCC courses to meet it.

**Natural Resources  
(OSU Transfer) Emphasis  
Associate of Science**

**FOCUS AREA DESCRIPTION**

The Associate of Science (Natural Resources/Oregon State University emphasis) is designed to fulfill 90-108 credits of the lower division requirements of a Bachelor of Science in Natural Resources, from Oregon State University - Cascades. Three options, NR Conservation and Technology, NR Policy and Management and Fish and Wildlife Conservation are available at OSU-Cascades and COCC. Other universities' requirements for a Natural Resources degree may be similar. Students planning to transfer to any university Natural Resources program should meet with a COCC Forest Resources Technology advisor to discuss current transfer requirements.

**PROGRAM ENTRANCE REQUIREMENTS**

None

**PROGRAM PERFORMANCE STANDARDS**

**Academic Requirements**

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses in the program must be completed with a grade of C or higher.

**PROGRAM COURSE REQUIREMENTS**

**Baccalaureate Core**

WR 121	Academic Composition	4
Choose one course from the Writing II list 1		3-4
Choose one course from the Writing III list 1		4
Mathematics		
Met by Program Requirements		
HHP 295	Health and Fitness	3

**Perspectives Courses <sup>1,2</sup>**

Choose one course in each of the following categories:

**Physical Science**

Met by Program Requirements

Biological Science

Met by Program Requirements

**Physical or Biological Science**

Met by Program Requirements

**Western Culture<sup>1</sup>** 3-4

**Literature and the Arts<sup>1</sup>** 3-4

**Social Processes and Institutions**

Met by Program Requirements <sup>1</sup>

**PROGRAM REQUIREMENTS**

Choose one option from the following<sup>3</sup>: 12-15

**Option 1**

BI 101	General Biology: Cells & Genes	
BI 102	General Biology: Evolution	
BI 103	General Biology: Ecology	

**Option 2**

BI 211	Principles of Biology I	
BI 212	Biology of Plants II	
BI 213	Biology of Animals III	

CH 104	Introduction to Chemistry I	5
or CH 221	General Chemistry I	
EC 201	Microeconomics	4
FOR 208	Soils: Sustainable Ecosystems	4
FW 212	Survey of Northwest Birds	2
or FW 218	Survey of Northwest Mammals	
FOR 235	Resource Measurements	4
FOR 240A	Forest Ecology	3
FOR 241A	Field Dendrology	3
or FOR 241B	Dendrology	
FOR 251	Recreational Resource Management	3-4
or ANTH 103	Cultural Anthropology	
FW 251	Wildlife Conservation	3
G 201	Geology I	4
or G 202	Geology II	
or GEOG 278	Physical Geography-Landforms and Water	
GEOG 265	Geographic Information Systems	4
GEOG 279	Physical Geography-Weather and Climate	4
MTH 243	Introduction to Probability and Statistics I	4
Choose one from the following:		4
MTH 112	Trigonometry	
MTH 241	Calculus for Management/Social Science	
MTH 245	Mathematics for Management, Life, and Social Sciences	
MTH 251	Calculus I	

**Natural Resources Options**

Choose one of the following three options (see lists below): 4-12

NR Conservation and Technology Option

Fish and Wildlife Conservation Option

NR Policy and Management Option

**Electives**

Choose any course numbered 100 or above that brings the total credits to 90 quarter hours. This may include up to 12 credits of Career and Technical Education courses designated by COCC as acceptable 3

**Total Credits 90-106**

<sup>1</sup> Select from the appropriate category in the OSU Baccalaureate Core course list in the COCC catalog.

<sup>2</sup> No more than two courses (or lecture/lab combinations) from any one department may be used by a student to satisfy the Perspectives category of the core. GEO courses listed under Physical Science are considered to be from a different department than GEO courses listed under any other Perspective category.

<sup>3</sup> Option 2 is recommended.

**NATURAL RESOURCES OPTIONS**

**NR Conservation and Technology Option**

FOR 230A	Map, Compass and GPS	3
FOR 230B	Forest Surveying	3
FOR 236	Aerial Photo	3
FOR 240B	Wildlife Ecology	3
<b>Total Credits</b>		<b>12</b>

**Fish and Wildlife Conservation Option**

FOR 111	Forestry Perspectives	4
<b>Total Credits</b>		<b>4</b>

<b>NR Policy and Management Option</b>		
FOR 111	Forestry Perspectives	4
Choose two of the following course options:		8
PHL 201	Problems of Philosophy-Epistemology	
PS 201	Intro US Government & Politics	
PSY 201	Mind and Brain	
or PSY 202	Mind and Society	
SOC 201	Introduction to Sociology	
<b>Total Credits</b>		<b>12</b>

**ADVISING NOTES**

The following requirement is not part of this AS degree but is required at OSU: Perspectives: Cultural Diversity category (see Baccalaureate Core list). Difference, Power and Discrimination is met by an upper division program requirement.

## Advanced Forest Concepts

### Short Term Certificate of Completion

**PROGRAM DESCRIPTION**

This certificate is designed for students who hold degrees in other areas or are already in the work force and are looking to enhance their skills related to determining forest utilization, planning and management.

**PROGRAM COSTS**

(beyond standard tuition/fees and textbooks)

**Material Costs**

- Students are expected to provide their own appropriate field clothing and tools.

**PROGRAM ENTRANCE REQUIREMENTS**

None

**PROGRAM PERFORMANCE STANDARDS****Academic Requirements**

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses in the program must be completed with a grade of C or higher.

**PROGRAM COURSE REQUIREMENTS****Core Courses**

FOR 215	Forest Resource Capstone	3
FOR 237	Resource Sampling	4
FOR 273	Silviculture and Harvesting Systems	5
<b>Total Credits</b>		<b>12</b>

**ADVISING NOTES**

It will take three quarters to complete this short-term certificate.

## Conservation of Natural Resources

### Short Term Certificate of Completion

**PROGRAM DESCRIPTION**

This certificate is designed for students who hold degrees in other areas or are already in the work force and are looking to enhance their skills related to the basic concepts of conserving natural resources including forest, wildlife, soil and water resources.

**PROGRAM COSTS**

(beyond standard tuition/fees and textbooks)

**Material Costs**

- Students are expected to provide their own appropriate field clothing and tools.

**PROGRAM ENTRANCE REQUIREMENTS**

None

**PROGRAM PERFORMANCE STANDARDS****Academic Requirements**

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses in the program must be completed with a grade of C or higher.

**PROGRAM COURSE REQUIREMENTS****Core Courses**

FOR 111	Forestry Perspectives	4
FOR 208	Soils: Sustainable Ecosystems	4
FOR 240B	Wildlife Ecology	3
FOR 260	Conservation of Natural Resources	3
<b>Total Credits</b>		<b>14</b>

**ADVISING NOTES**

It will take three quarters to complete this short-term certificate.

## Forest Ecology

### Short Term Certificate of Completion

**PROGRAM DESCRIPTION**

This certificate is designed for those who hold degrees in other areas or are already in the work force and are looking to enhance their skills related to the practical aspects of forest ecology, dendrology and their applications.

**PROGRAM COSTS**

(beyond standard tuition/fees and textbooks)

**Material Costs**

- Students are expected to provide their own appropriate field clothing and tools.

**PROGRAM ENTRANCE REQUIREMENTS**

None

**PROGRAM PERFORMANCE STANDARDS****Academic Requirements**

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses in the program must be completed with a grade of C or higher.

**PROGRAM COURSE REQUIREMENTS****Core Courses**

FOR 240A	Forest Ecology	3
FOR 241A	Field Dendrology	3
FOR 241B	Dendrology	3
FOR 271	Applied Forest Ecology	3
<b>Total Credits</b>		<b>12</b>

**ADVISING NOTES**

It will take three quarters to complete this short-term certificate.

## Forest Measurements

### Short Term Certificate of Completion

**PROGRAM DESCRIPTION**

This certificate is designed for students who hold degrees in other areas or are already in the work force and are looking to enhance their skills related to basic measurements of trees, land and on-land navigation using maps, compasses and GPS.

**PROGRAM COSTS**

(beyond standard tuition/fees and textbooks)

**Material Costs**

- Students are expected to provide their own appropriate field clothing and tools.

**PROGRAM ENTRANCE REQUIREMENTS**

None

**PROGRAM PERFORMANCE STANDARDS**

**Academic Requirements**

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses in the program must be completed with a grade of C or higher.

**PROGRAM COURSE REQUIREMENTS**

**Core Courses**

FOR 230A	Map, Compass and GPS	3
FOR 230B	Forest Surveying	3
FOR 235	Resource Measurements	4
FOR 236	Aerial Photo	3
<b>Total Credits</b>		<b>13</b>

**ADVISING NOTES**

It will take three quarters to complete this short-term certificate.

**Forest Protection**

**Short Term Certificate of Completion**

**PROGRAM DESCRIPTION**

This certificate is designed for students who hold degrees in other areas or are already in the work force and are looking to enhance their skills related to identification of forest disease and insects and the basic techniques used to protect forests from fire, disease and insects.

**PROGRAM COSTS**

(beyond standard tuition/fees and textbooks)

**Material Costs**

- Students are expected to provide their own appropriate field clothing and tools.

**PROGRAM ENTRANCE REQUIREMENTS**

None

**PROGRAM PERFORMANCE STANDARDS**

**Academic Requirements**

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses in the program must be completed with a grade of C or higher.

**PROGRAM COURSE REQUIREMENTS**

**Core Courses**

FOR 110	Wildland Fire Science I	2
FOR 210	Wildland Fire Science II	2
FOR 271	Applied Forest Ecology	3
FOR 272	Forest Entomology/Pathology	3
FOR 273	Silviculture and Harvesting Systems	5
<b>Total Credits</b>		<b>15</b>

**ADVISING NOTES**

It will take three quarters to complete this short-term certificate.

**Mapping/Cartography**

**Short Term Certificate of Completion**

**PROGRAM DESCRIPTION**

This certificate is designed for students who hold degrees in other areas or are already in the work force and are looking to enhance their skills related to the basic use and production of maps focusing on field techniques and use of basic geographic information systems.

**PROGRAM COSTS**

(beyond standard tuition/fees and textbooks)

**Material Costs**

- Students are expected to provide their own appropriate field clothing and tools.

**PROGRAM ENTRANCE REQUIREMENTS**

None

**PROGRAM PERFORMANCE STANDARDS**

**Academic Requirements**

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses in the program must be completed with a grade of C or higher.

**PROGRAM COURSE REQUIREMENTS**

**Core Courses**

FOR 230A	Map, Compass and GPS	3
FOR 230B	Forest Surveying	3
GEOG 211	Computer Cartography	4
GEOG 265	Geographic Information Systems	4
<b>Total Credits</b>		<b>14</b>

**ADVISING NOTES**

It will take two quarters to complete this short-term certificate.

**GENERAL TRANSFER**

**Exploratory**

**Associate of Arts Oregon Transfer**

**FOCUS AREA DESCRIPTION**

If a student plans to earn a college degree but has not yet decided on a major, COCC identifies the student as "exploratory," which aligns with the Associate of Arts Oregon Transfer (AAOT) degree plan. The AAOT degree is used for exploratory students because it provides a guideline of courses that meet bachelor's degree general education requirements at Oregon public universities. The AAOT degree does not include all bachelor degree requirements for freshmen and sophomores, and it does not include requirements for COCC's Career and Technical Education (CTE) programs. For these reasons, it is important for exploratory students to work actively to identify an educational goal.

Some exploratory students may choose to declare the Associate of General Studies degree which allows students to self-design a program to meet individual needs. However, it is not designed to meet bachelor's degree general education requirements as the AAOT degree, nor does it align with workforce training and skills as the AAS degrees. Again, it is important for exploratory students to work actively to identify an educational goal.

**PROGRAM ENTRANCE REQUIREMENTS**

None

**PROGRAM PERFORMANCE STANDARDS**

**Academic Requirements**

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses in the program must be completed with a grade of C or higher.

**PROGRAM COURSE REQUIREMENTS**

**General Education/Foundational**

<b>Health</b>	3 credits with HHP or HHPA prefix <sup>1</sup>	3
---------------	--	---

**Mathematics**

MTH 105	Math in Society (or higher)	4
---------	-----------------------------	---

**Oral Communication**

Choose one course from the following:	3-4
SP 111 Fundamentals Public Speaking	
SP 114 Argumentation & Discourse	
SP 115 Intro Intercultural Commun	
SP 218 Interpersonal Communication	
SP 219 Small Group Communication	

**Writing**

WR 121 Academic Composition	4
WR 122 Argument, Research and Multimodal Composition	4
or WR 227 Technical Writing	

**General Education/Discipline Studies**

One course must be designated as Cultural Literacy.

**Arts and Letters**

Choose at least three courses from at least two prefixes 9-12

**Social Science**

Choose at least four courses from at least two prefixes 12-16

**Science/Math/Computer Science**

Choose at least four courses from at least two prefixes including at least three laboratory courses in biological and/or physical science 12-20

**Electives**

Choose any course numbered 100 or above that brings the total credits to 90 quarter hours<sup>2</sup> 39

**Total Credits 90-106**

<sup>1</sup> HHPA activity courses (1 credit each) are not to be duplicated.

<sup>2</sup> This may include up to 12 credits of Career and Technical Education courses designated by COCC as acceptable.

**ADVISING NOTES**

COCC recommends that students use several strategies to ensure good decisions about educational goals. Many COCC resources are available to assist.

- Take HD 110 Career Planning, a 3-credit course offered every term.
- Visit with the Career Services Coordinator in CAP Services.
- Discuss options with your academic advisor and faculty members in departments that interest you.

COCC uses the AAOT and AGS degrees to provide exploratory students with a framework, but students should change their declared major when they make a decision. Initially, the GradTracks audit will present the Associate of Arts Oregon Transfer requirements but students should be aware that these guidelines are preliminary. Students can explore other COCC programs by using the "What If" option on the GradTracks menu. Give yourself a timeline within which to make a decision. Many universities require students to declare their major within their first 90 credits, but large majors such as engineering, science and business, should be declared in the first 45 credits. CTE programs that lead directly to employment typically don't have elective credits, so the earlier students make a decision, the better.

Nearly all bachelor's degrees are either a bachelor of arts (BA) or a bachelor of science (BS). Students pursuing a BA usually need to complete two years of a world language (the 200-level language courses may be applied to the arts and letters requirement in Discipline Studies.) Students pursuing a BS should consider taking more math and science courses. Students should refer to the transfer college's degree requirements for details.

**Undeclared Transfer**

**Associate of Arts Oregon Transfer**

**FOCUS AREA DESCRIPTION**

If a student plans to transfer in order to earn a bachelor's degree at another college or university but has not yet decided on a major, COCC

identifies the student as "undeclared transfer." This goal aligns with the Associate of Arts Oregon Transfer (AAOT) degree plan because it provides a guideline of courses that meet bachelor's degree general education requirements at Oregon public universities. The AAOT degree does not include all bachelor degree requirements for freshmen and sophomores; it is important for undeclared transfer students to work actively with an academic advisor to identify a specific transfer goal.

**PROGRAM ENTRANCE REQUIREMENTS**

None

**PROGRAM PERFORMANCE STANDARDS**

**Academic Requirements**

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses in the program must be completed with a grade of C or higher.

**PROGRAM COURSE REQUIREMENTS**

**General Education/Foundational**

**Health**

3 credits with HHP or HHPA prefix<sup>1</sup> 3

**Mathematics**

MTH 105 Math in Society (or higher) 4

**Oral Communication**

Choose one course from the following: 3-4

SP 111 Fundamentals Public Speaking	
SP 114 Argumentation & Discourse	
SP 115 Intro Intercultural Commun	
SP 218 Interpersonal Communication	
SP 219 Small Group Communication	

**Writing**

WR 121 Academic Composition	4
WR 122 Argument, Research and Multimodal Composition	4
or WR 227 Technical Writing	

**General Education/Discipline Studies**

One course must be designated as Cultural Literacy.

**Arts and Letters**

Choose at least three courses from at least two prefixes 9-12

**Social Science**

Choose at least four courses from at least two prefixes 12-16

**Science/Math/Computer Science**

Choose at least four courses from at least two prefixes including at least three laboratory courses in biological and/or physical science 12-20

**Electives**

Choose any course numbered 100 or above that brings the total credits to 90 quarter hours<sup>2</sup> 39

**Total Credits 90-106**

<sup>1</sup> HHPA activity courses (1 credit each) are not to be duplicated.

<sup>2</sup> This may include up to 12 credits of Career and Technical Education courses designated by COCC as acceptable.

**ADVISING NOTES**

Nearly all bachelor's degrees are either a bachelor of arts (BA) or a bachelor of science (BS). Students pursuing a BA usually need to complete two years of a world language (the 200-level language courses may be applied to the arts and letters requirement in Discipline Studies.) Students pursuing a BS should consider taking more math and science courses. Students should refer to the transfer college's degree requirements for details.



## Associate of General Studies

### Associate of General Studies

#### PROGRAM DESCRIPTION

For students who are not pursuing specific transfer or Career and Technical Education (CTE) programs, the Associate of General Studies (AGS) degree provides an alternative to pursue a broad general education and accomplish personal educational goals. It is important for a student to work closely with an advisor in designing a course plan for this degree.

#### PROGRAM ENTRANCE REQUIREMENTS

None

#### PROGRAM PERFORMANCE STANDARDS

##### Academic Requirements

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses in the program must be completed with a grade of C or higher.

#### PROGRAM COURSE REQUIREMENTS

##### General Education/Foundational

##### Digital Literacy

CIS 120	Computer Concepts (or pass competency exam)	4
---------	---	---

##### Health

4 credits with HHP or HHPA prefix <sup>1</sup>	4
--	---

##### Mathematics

MTH 020	Pre-Algebra (or higher) <sup>2</sup>	4
---------	--------------------------------------	---

##### Oral Communication

Choose one course from the following:	3-4
---------------------------------------	-----

SP 111	Fundamentals Public Speaking
SP 114	Argumentation & Discourse
SP 115	Intro Intercultural Commun
SP 218	Interpersonal Communication
SP 219	Small Group Communication

##### Writing

WR 121	Academic Composition	4
WR 122	Argument, Research and Multimodal Composition	4
or WR 227	Technical Writing	

##### General Education/ Discipline Studies

<b>Arts and Letters</b>	3-4
-------------------------	-----

Choose one course from the Disciplines Studies list

<b>Physical/ Biological Lab Science</b>	3-5
---	-----

Choose one course from the Disciplines Studies list

<b>Social Science</b>	3-4
-----------------------	-----

Choose one course from the Disciplines Studies list

<b>Cultural Literacy</b>	3-4
--------------------------	-----

Choose one course from the Disciplines Studies list

<b>Electives</b>	55
------------------	----

Choose enough elective credits to reach a minimum total of 90 overall degree credits<sup>3</sup>

**Total Credit 90-96**

<sup>1</sup> HHPA activity courses (1 credit each) are not to be duplicated.

<sup>2</sup> Except MTH 188 Special Studies: Mathematics, MTH 198 Practicum in Mathematics and MTH 199 Selected Topics: Mathematics.

<sup>3</sup> Cannot include reading, writing, or math classes below the 100-level.

#### ADVISING NOTES

##### Advantages

- The AGS awards a degree for completion of college-level coursework in core skills and general education and allows students flexibility to customize more than half of the degree's required number of credits.

It can be used to enhance employment, meet sponsoring agency requirements and/or meet unusual baccalaureate requirements.

#### Considerations

- The AGS degree is not transferrable as a whole and does not meet certification requirements for any Career and Technical Education (CTE) area.
- The AGS degree does not guarantee that a student will meet all lower-division general education and major requirements; however, with careful academic advising and in consideration of transfer institution requirements, the AGS degree may be designed to do so.

## General OSU Transfer Emphasis

### Associate of Science

#### FOCUS AREA DESCRIPTION

The AS (Oregon State University emphasis) degree is intended to give students who are confident they will finish their bachelor's degree at either OSU, Corvallis or OSU, Cascades a framework to directly meet OSU's general education (called "baccalaureate core" at OSU) requirements. Those students who are not certain that they will complete their degree at OSU or those who have fewer remaining requirements with the AAOT degree may be better served by the Associate of Arts degree which guarantees progress toward the general education core requirements at all Oregon public universities.

#### PROGRAM ENTRANCE REQUIREMENTS

None

#### PROGRAM PERFORMANCE STANDARDS

##### Academic Requirements

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses in the program must be completed with a grade of C or higher.

#### PROGRAM COURSE REQUIREMENTS

##### Baccalaureate Core

Fitness	HHP 295 Health and Fitness	3
Mathematics	One course from the Mathematics list <sup>1</sup>	4
Writing I	WR 121 Academic Composition	4
Writing II	One course from the WR II list <sup>1</sup>	3-4
Writing III	One course from the WR III list <sup>1</sup>	3-4

##### Perspectives Courses<sup>1,2</sup>

Choose one course in each of the following categories:

<b>Physical Science<sup>1</sup></b>	4-5
-------------------------------------	-----

<b>Biological Science<sup>1</sup></b>	4-5
---------------------------------------	-----

##### Physical or Biological Science

Choose one additional course from the Physical Science or Biological Science lists <sup>1</sup>	4-5
---	-----

<b>Western Culture<sup>1</sup></b>	3-4
------------------------------------	-----

<b>Cultural Diversity<sup>1</sup></b>	4
---------------------------------------	---

<b>Literature and the Arts<sup>1</sup></b>	3-4
--	-----

<b>Social Processes and Institutions<sup>1</sup></b>	3-4
--	-----

<b>Difference, Power and Discrimination<sup>1</sup></b>	4
---	---

<b>Electives</b>	44
------------------	----

Choose enough elective credits from the following list to reach a minimum of 90 overall degree units<sup>3</sup>

**Total Credits 90-98**

<sup>1</sup> Select from the appropriate category in the OSU Baccalaureate Core course list in the COCC catalog.

<sup>2</sup> No more than two courses (or lecture/lab combinations) from any one department may be used by a student to satisfy the Perspectives category of the core. GEO courses listed under Physical Science are considered to be from a different department than GEO courses listed under any other Perspective category.

<sup>3</sup> Electives must be numbered 100 or higher (with a maximum of 12 Career and Technical Education (CTE) credits).

**ADVISING NOTES**

Students are highly recommended to include lower division major requirements and their BA/BS requirements in their first 90 credits. Many OSU majors require a significant number of lower division courses, and some programs (such as engineering, computer science and business) require completion of these courses before students may continue to upper division courses. Students who do not complete these requirements in their first 90 credits may find that they cannot complete their bachelor's degree in two years after completion of this AS degree nor in the minimum total of 180 credits.

This information reflects an accurate picture of OSU requirements at the time of approval, using the OSU catalog, advisors and web resources for consultation. However, degree requirements can and do change. OSU has made no guarantee about the accuracy of requirements in this AS degree; determination of transfer status is made on an individual course basis at the point of admission to OSU.

**Timing**

OSU recommends the following plan for timing your baccalaureate core requirements.

**First Year:**

- Complete Writing 1 (WR 121 Academic Composition, C- or better), Speech and Math (required in first 45 OSU credits)
- Begin Perspectives courses
- Consider a Difference, Power and Discrimination (DPD) or Fitness course

**Second Year:**

- Complete Writing II (required in first 90 OSU credits)
- Continue Perspectives courses
- Completed Difference, Power and Discrimination (DPD) and Fitness course requirements

**Notes for Majors from the College of Liberal Arts (CLA)**

At Cascades campus, this includes majors such as American Studies, Liberal Studies, Psychology and Social Science.

- Generally, double dipping is not allowed.
- CLA majors have a Liberal Arts Core requirement (5 courses, at least 15 credits).
- Students are encouraged to include the BA or BS requirements in their lower division courses.

**Requirements for a BA or BS Degree, Other Requirements**

Following are considerations for students working on their BA/BS requirement.

- Nearly all degrees at OSU are either BA (Bachelor of Arts) or BS (Bachelor of Science) degrees.
- Some majors offer both BA and BS options, and some only offer one option.
- BS requirements are included in major curriculum for all degrees that are in colleges outside of the College of Liberal Arts.
- A major will either allow students to "double dip" (use a course to meet two requirements, such as a major requirement and a BA/BS or baccalaureate core requirement) or will prohibit double dipping.
- Usually, majors that allow double dipping will require specific courses that can be used in both the major and the BA/BS or baccalaureate core.

## GEOGRAPHIC INFORMATION SYSTEMS

### Geographic Information Systems

#### Associate of Applied Science

**PROGRAM DESCRIPTION**

GIS is an information system designed to work with data referenced by spatial or geographic coordinates. GIS is both a database system with specific capabilities for spatially referenced data, as well as a set of operations for processing the data. The program is built on a foundation

of computer-aided mapping and surveying technology for collecting spatial data, database generation and manipulation for tabular data and GIS-specific courses for organization, analysis and reporting.

Graduates work in retail and commercial businesses, natural resources, education, federal/state/local governments, banking and insurance, internet, publishing and real estate. GIS careers typically include positions such as GIS technician, analyst, project manager, computer programmer, database administrator, system administrator, cartographic designer, developer and related managerial and administrative roles.

**PROGRAM COSTS**

(beyond standard tuition/fees and textbooks)

**Material Costs**

- Required:
  - Materials (usb/flash drive, maps, assorted office supplies), \$500.
- Recommended:
  - A home or laptop computer capable of running the GIS software, \$700. Contact program instructor for specifics.

**PROGRAM ENTRANCE REQUIREMENTS****Academic Entrance Requirements**

- Recommended:
  - High school diploma or GED
  - Minimum placement scores resulting in WR 121 Academic Composition placement or completion of WR 065 Rhetoric/Critical Thinking II/WR 095 Basic Writing II ("C" or better)
  - Minimum placement scores resulting in MTH 085 Technical Mathematics I placement or completion of MTH 020 Pre-Algebra and/or MTH 060 Algebra I equivalent
  - Completion of computer competency (either IC3 exam or CIS 120 Computer Concepts, which may be taken as part of program)

**Other Entrance Requirements**

- All COCC students enrolled in the Geographic Information Systems program (which includes requirements for Co-operative Work Experience) may have to pass Criminal History Checks (CHC) as a condition of their acceptance into a work site. See the website or program director for more information.

**PROGRAM PERFORMANCE STANDARDS****Academic Requirements**

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses in the program must be completed with a grade of C or higher.

**PROGRAM COURSE REQUIREMENTS****Core Courses**

GEOG 211	Computer Cartography	4
GEOG 265	Geographic Information Systems	4
GEOG 266	Arc GIS	5
GEOG 267	Geodatabase Design	5
GEOG 273	Spatial Data Collection	5
GEOG 275	GIS Capstone	5
GEOG 280	Co-op Work Experience GIS	3
GEOG 284	GIS Customization	5
GEOG 285	Data Conversion/Documentation	5
GEOG 286	Remote Sensing	5
GEOG 287	Analysis of Spatial Data	5
GIS Electives: Choose two of the following courses:		6-8
CIS 120	Computer Concepts	
CIS 125A1	AutoCAD 1	
FOR 230B	Forest Surveying	
FOR 236	Aerial Photo	

**Other Required Courses**

CIS 135DB	Database Theory/SQL	4
Discipline Studies Courses		8
FOR 230A	Map, Compass and GPS	3
FOR 235	Resource Measurements	4
HHP 252A	Fitness/First Aid	3

Human Relations approved course	3-4
Choose one of the following:	4-8
MTH 085      Technical Mathematics I	
& MTH 086    Technical Mathematics II	
or MTH 105    Math in Society (or higher)	
WR 121        Academic Composition	4
WR 227        Technical Writing	4
<b>Total Credits 94-101</b>	

**ADVISING NOTES**

GIS courses begin once per year, in fall term. Students take non-program support and/or selected GIS courses if they begin in a term other than fall or if they need to build skills related to prerequisites. GIS courses, offered each term, must be taken together and sequentially. Students are discouraged from working more than 10 hours per week during any term due to heavy course load.

This degree is designed for students planning to enter their chosen career upon graduation. Often only selected credits are considered transferable to public or private baccalaureate institutions.

## Geographic Information Systems Certificate of Completion

**PROGRAM DESCRIPTION**

The GIS certificate program is designed for students already possessing a two- or four-year college degree that seek to add specific GIS skills to their discipline.

GIS is an information system designed to work with data referenced by spatial or geographic coordinates. GIS is both a database system with specific capabilities for spatially referenced data, as well as a set of operations for working with (analyzing) the data. The program is built on a foundation of computer-aided mapping and surveying technology for collecting spatial data, database generation and manipulation for tabular data and GIS-specific courses for organization, analysis and reporting. Graduates work in retail and commercial businesses, natural resources, education, federal/state/local governments, banking and insurance, internet, publishing and real estate. GIS careers typically include positions such as GIS technician, analyst, project manager, computer programmer, database administrator, system administrator, cartographic designer, developer and related managerial and administrative roles.

**PROGRAM COSTS**

(beyond standard tuition/fees and textbooks)

**Material Costs**

- Required:
  - Materials (usb/flash drive, maps, assorted office supplies), \$500.
- Recommended:
  - A home or laptop computer capable of running the GIS software, \$700. Contact program instructor for specifics.

**PROGRAM ENTRANCE REQUIREMENTS**

**Academic Entrance Requirements**

Recommended:

- Two year, four-year, or graduate degree from accredited institution
- Completion of computer competency (either IC3 exam or CIS 120 Computer Concepts)

**PROGRAM PERFORMANCE STANDARDS**

**Academic Requirements**

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses in the program must be completed with a grade of C or higher.

**PROGRAM COURSE REQUIREMENTS**

**Core Courses**

GEOG 211      Computer Cartography	4
GEOG 265      Geographic Information Systems	4

GEOG 266      Arc GIS	5
GEOG 267      Geodatabase Design	5
GEOG 273      Spatial Data Collection	5
GEOG 275      GIS Capstone	5
GEOG 285      Data Conversion/Documentation	5
GEOG 286      Remote Sensing	5
GEOG 287      Analysis of Spatial Data	5

**Other Required Courses**

Human Relations approved course	3
WR 121        Academic Composition	4
<b>Total Credits 50</b>	

**ADVISING NOTES**

Program (GIS) courses begin once per year, in fall term. Students take non-program support and/or selected GIS courses if they begin in a term other than fall or if they need to build skills related to prerequisites. Students receiving federal financial aid are encouraged to speak with the financial aid advisor.

GIS courses, offered each term, must be taken together and sequentially. Students are discouraged from working more than 10 hours per week during any term due to heavy course load.

This certificate is designed for students planning to enter their chosen career upon graduation. Often only selected credits are considered transferable to public or private baccalaureate institutions.

## GEOGRAPHY

### Geography Associate of Arts Oregon Transfer

**FOCUS AREA DESCRIPTION**

Geography is a discipline that studies the Earth and its human inhabitants, and is commonly divided into the branches of human geography and physical geography. The Associate of Arts Oregon Transfer (AAOT) with a focus in geography includes courses that are commonly required for this major and meets lower division general education requirements at all Oregon public universities.

**PROGRAM ENTRANCE REQUIREMENTS**

None

**PROGRAM PERFORMANCE STANDARDS**

**Academic Requirements**

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses in the program must be completed with a grade of C or higher.

**PROGRAM COURSE REQUIREMENTS**

**General Education/Foundational**

<b>Health</b>	
3 credits with HHP or HHPA prefix <sup>1</sup>	3

**Mathematics**

MTH 105      Math in Society (or higher)	4
--	---

**Oral Communication**

Choose one course from the following:	3-4
SP 111        Fundamentals Public Speaking	
SP 114        Argumentation & Discourse	
SP 115        Intro Intercultural Commun	
SP 218        Interpersonal Communication	
SP 219        Small Group Communication	

**Writing**

WR 121        Academic Composition	4
WR 122        Argument, Research and Multimodal Composition	4
or WR 227      Technical Writing	

**General Education/Discipline Studies**

One course must be designated as Cultural Literacy.

**Arts and Letters**

Choose at least three courses from at least two prefixes 9-12

**Social Science**

Choose at least four courses from at least two prefixes 12-16

Recommend: GEOG 106, GEOG 201, GEOG 202

Choose another course from the Social Science Discipline list that does not have a GEOG prefix

**Science/Math/Computer Science**

12-20

Choose at least four courses from at least two prefixes including at least

three laboratory courses in biological and/or physical science

Recommend: GEOG 278, GEOG 279

**Electives**

39

Take enough courses to meet the minimum 90 credits

required for the AAOT degree

Recommend: GEOG 107, GEOG 190

**Total Credits 90-106**

<sup>1</sup> HHPA activity courses (1 credit each) are not to be duplicated.

**ADVISING NOTES**

Students pursuing a BA after transfer should consider completing three terms of a 200-level language course. The 100-level language courses will count as electives. The 200-level language courses will partially fulfill the arts and letters requirement.

Students pursuing a BS after transfer should consider taking more math and science courses. Language is not necessary. For specific details, speak with an advisor.

**GEOLOGY**

**Geology**

Associate of Arts Oregon Transfer

**FOCUS AREA DESCRIPTION**

Geology is the study of the solid features of Earth, and includes the study of rocks that form the Earth's surface and the process by which they change. The Associate of Arts Oregon Transfer (AAOT) with a focus in geology includes courses that are commonly required for a geology major and meets lower division general education requirements at all Oregon public universities. A bachelor's degree with a major in geology prepares a student for entry level jobs in environmental geology in industry, but also prepares students for graduate school which can lead to jobs in research, industry and government.

**PROGRAM ENTRANCE REQUIREMENTS**

None

**PROGRAM PERFORMANCE STANDARDS**

**Academic Requirements**

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses in the program must be completed with a grade of C or higher.

**PROGRAM COURSE REQUIREMENTS**

**General Education/Foundational**

**Health**

3 credits with HHP or HHPA prefix<sup>1</sup> 3

**Mathematics**

MTH 105 Math in Society (or higher) 4

**Oral Communication**

Choose one course from the following: 3-4

SP 111	Fundamentals Public Speaking	
SP 114	Argumentation & Discourse	
SP 115	Intro Intercultural Commun	
SP 218	Interpersonal Communication	
SP 219	Small Group Communication	

**Writing**

WR 121	Academic Composition	4
WR 122	Argument, Research and Multimodal Composition	4
or WR 227	Technical Writing	

**General Education/Discipline Studies**

One course must be designated as Cultural Literacy.

**Arts and Letters**

Choose at least three courses from at least two prefixes 9-12

**Social Science**

Choose at least four courses from at least two prefixes 12-16

**Science/Math/Computer Science**

12-20

Choose at least four courses from at least two prefixes including at least

three laboratory courses in biological and/or physical science

Recommend: CH 221, G 201, G 202, G 203

**Electives**

39

Choose any course numbered 100 or above that brings the total credits to 90 quarter hours

Recommend: BI 101, BI 102, BI 103, CH 222, CH 223, G 148, G 162CV, G 207, GS 108, MTH 254, MTH 255, MTH 256, PH 211, PH 212, PH 213

**Total Credits 90-106**

<sup>1</sup> HHPA activity courses (1 credit each) are not to be duplicated.

**ADVISING NOTES**

Students planning to transfer to Oregon Public Universities should take the following:

CH 221 General Chemistry I, CH 222 General Chemistry II and CH 223 General Chemistry III

PH 201 General Physics I, PH 202 General Physics II and PH 203 General Physics III or PH 211 General Physics I, PH 212 General Physics II and PH 213 General Physics III

Those planning to transfer to:

- OSU should take MTH 112 Trigonometry, MTH 251 Calculus I and MTH 252 Calculus II
- PSU should take MTH 251 Calculus I, MTH 252 Calculus II, MTH 253 Calculus III and MTH 254 Vector Calculus I
- SOU should take MTH 111 College Algebra, MTH 112 Trigonometry, MTH 251 Calculus I and MTH 252 Calculus II
- UO should take MTH 251 Calculus I, MTH 252 Calculus II and MTH 253 Calculus III

Students are strongly encouraged to contact the appropriate transfer university for the most current requirements of their major and emphasis area.

Oregon universities with a geology major include Oregon State University, Portland State University, Southern Oregon University and University of Oregon.

# HEALTH INFORMATION TECHNOLOGY

## Health Information Technology Associate of Applied Science

### PROGRAM DESCRIPTION

The Health Information Technology program prepares individuals in technical coursework, human relations, communications, mathematics and computer technology. The program employs a career ladder approach that includes the following certificates:

- Medical Insurance
- Medical Office Specialist
- Medical Billing Specialist
- Coding Competency

At the end of six academic quarters (approximately two years), students earn an Associate of Applied Science (AAS) degree in Health Information Technology. Students are eligible to take the RHIT (Registered Health Information Technician) national credential examination upon completion of the AAS degree. The Commission on Accreditation for Health Informatics and Information Management Education (CAHIIM) accredits the Health Information Technology program. Health information technicians collect, analyze, code, manage and maintain medical information regarding patients. Health information technicians must be highly organized and pay attention to detail, maintain patient medical information in a complete, accurate and secure manner while maintaining high ethical standards. Health information technicians work in a wide range of health care facilities including but not limited to hospitals, clinics, doctors' offices and nursing homes. In Oregon, the number of jobs for health information technicians is expected to grow much faster than the average for all occupations through the year 2020.

### ACCREDITATION

Commission on Accreditation of Health Informatics and Information Management Education

### PROGRAM COSTS

(beyond standard tuition/fees and textbooks)

#### Material Costs

- Required:
  - Total cost depends upon preparatory coursework and extent of completion within the program - certificate/degree. Additional costs estimated to be approximately \$2,500 include textbooks, technology fees, Directed Practice travel expense, OrHIMA Convention, criminal history check, etc.
- Recommended:
  - Students are strongly encouraged to have access to a home computer with high-speed internet access.

### PROGRAM ENTRANCE REQUIREMENTS

#### Academic Entrance Requirements

- Required:
  - Prior to enrolling in HIT 103 Health Info Systems/Procedures, students must pass CIS 120 Computer Concepts, AH 111 Medical Terminology I and WR 121 Academic Composition with a grade of "C" or better.

#### Other Entrance Requirements

- Required:
  - Students entering the HIT program are required to have a criminal history check prior to enrolling in HIT 103 Health Info Systems/Procedures. A student may be prevented from entering the program if there is a felony conviction on their record.
  - Documentation of immunizations is required for directed practice (Tdap, MMR, Varicella, TB, Hep B and Flu).
  - Additional immunizations, background checks, and drug screens may be required by directed practice sites at the students expense.

### PROGRAM PERFORMANCE STANDARDS

#### Academic Requirements

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses in the program must be completed with a grade of C or higher.

### PROGRAM COURSE REQUIREMENTS

#### Support Courses

AH 111	Medical Terminology I	3
CIS 120	Computer Concepts	4
WR 121	Academic Composition	4

#### Core Courses

HIT 103	Health Info Systems/Procedures	5
HIT 104	Health Data Content/Structure	5
HIT 131A	Document Management and Tech	3
HIT 180	HIPAA Management	2
HIT 182	Introduction to Medical Coding	4
HIT 184	Advanced Pathophysiology	5
HIT 193	Directed Practice I	2
HIT 201	Legal Aspects of Health Care	3
HIT 203	Healthcare Delivery/Tech	3
HIT 205	Intro Medical Record Analysis	3
HIT 272	Health Information Management	5
HIT 281	Health Data Collection	3
HIT 282	Quality Improve/Health Care	4
HIT 283	Coding Classifications	6
HIT 284	Classification & Reimb Systems	5
HIT 285	Advanced Coding Classification	4
HIT 287	Leadership & Project Mgmt	2
HIT 293	Directed Practice II	2
HIT 296	Ambulatory Data Systems	3

#### Other Required Courses

AH 112	Medical Terminology II	3
BI 231	Human Anatomy and Physiology I	4
BI 232	Human Anatomy and Physiology II	4
BI 233	Human Anatomy and Physiology III	4
MTH 031	Health Care Math	3
SP 111	Fundamentals Public Speaking	4
Choose one course from the following:		3
SP 218	Interpersonal Communication	
BA 285	Business Human Relations	
PSY 101	Applied Psychology	

**Total Credits 105**

### ADVISING NOTES

HIT is a cohort program, which begins each Fall. Students can complete non-HIT courses prior to entry into the cohort or concurrently. Courses are in sequence for first and second year. Students must complete all first-year courses before enrolling in second-year coursework.

This degree is designed primarily for students planning to enter their chosen career upon graduation. However, credits are transferable per an articulation agreement with the University of Cincinnati for students choosing to pursue an online BS in Health Information Management.

## Coding Competency Certificate of Completion

### PROGRAM DESCRIPTION

This certificate prepares students for an entry-level position as a medical coder in a hospital, clinic, or medical offices. A Medical Coder analyzes medical records (history and physical reports, lab results, x-ray reports, treatment plans, etc.) and assigns codes which classify diagnoses and procedures, while applying the principles of professionalism and ethical conduct.



**PROGRAM COSTS**

(beyond standard tuition/fees and textbooks)

**Material Costs**

- Required:
  - Total cost depends upon preparatory coursework and extent of completion within the program - certificate/degree. Additional costs estimated to be approximately \$2,500 include textbooks, technology fees, Directed Practice travel expense, OrHIMA Convention, criminal history check, etc.
- Recommended:
  - Students are strongly encouraged to have access to a home computer with high-speed internet access.

**PROGRAM ENTRANCE REQUIREMENTS****Academic Entrance Requirements**

- Required:
  - Prior to enrolling in HIT 103 Health Info Systems/Procedures, students must pass CIS 120 Computer Concepts, AH 111 Medical Terminology I and WR 121 Academic Composition with a grade of "C" or better.

**Other Entrance Requirements**

- Recommended:
  - Keyboarding: 40 WPM minimum
  - Study skills
  - Writing skills
  - Reading with emphasis on critical thinking and analytical skills
  - Computer/technology skills (essential)
- Required:
  - Students entering the HIT program are required to have a criminal history check prior to enrolling in HIT 103 Health Info Systems/Procedures. A student may be prevented from entering the program if there is a felony conviction on their record.

**PROGRAM PERFORMANCE STANDARDS****Academic Requirements**

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses in the program must be completed with a grade of C or higher.

**PROGRAM COURSE REQUIREMENTS****Support Courses**

AH 111	Medical Terminology I	3
CIS 120	Computer Concepts	4
WR 121	Academic Composition	4

**Core Courses**

HIT 103	Health Info Systems/Procedures	5
HIT 104	Health Data Content/Structure	5
HIT 131A	Document Management and Tech	3
HIT 180	HIPAA Management	2
HIT 182	Introduction to Medical Coding	4
HIT 184	Advanced Pathophysiology	5
HIT 193	Directed Practice I	2
HIT 201	Legal Aspects of Health Care	3
HIT 205	Intro Medical Record Analysis	3
HIT 283	Coding Classifications	6
HIT 284	Classification & Reimb Systems	5
HIT 285	Advanced Coding Classification	4
HIT 296	Ambulatory Data Systems	3

**Other Required Courses**

AH 112	Medical Terminology II	3
BI 231	Human Anatomy and Physiology I	4
BI 232	Human Anatomy and Physiology II	4
BI 233	Human Anatomy and Physiology III	4
MTH 031	Health Care Math	3
SP 111	Fundamentals Public Speaking	4

Choose one course from the following:

3

SP 218 Interpersonal Communication

BA 285 Business Human Relations

PSY 101 Applied Psychology

Pass CCA Proficiency Exam

**Total Credits 86****ADVISING NOTES**

Students are encouraged to consult their academic advisor if they have transfer credits and/or are not able to attend full time in order to determine an appropriate course schedule. Additionally, students should reference the course descriptions to determine required lab hours.

**Insurance****Certificate of Completion****PROGRAM DESCRIPTION**

The Insurance Certificate program prepares the student for entry-level employment in the medical insurance field. With coursework in medical terminology, anatomy and physiology, health information systems and health data content and structure, a firm foundation is laid to work in health insurance. With this certificate, employment may be found with insurance companies and in offices of medical doctors, chiropractors, ophthalmologists, and dentists. Job descriptions may include filing of claims, verification of insurance, pre-authorizations and customer service.

**PROGRAM COSTS**

(beyond standard tuition/fees and textbooks)

**Material Costs**

- Required:
  - Total cost depends upon preparatory coursework and extent of completion within the program - certificate/degree. Additional costs estimated to be approximately \$2,500 include textbooks, technology fees, Directed Practice travel expense, OrHIMA Convention, criminal history check, etc.
- Recommended:
  - Students are strongly encouraged to have access to a home computer with high-speed internet access.

**PROGRAM ENTRANCE REQUIREMENTS****Academic Entrance Requirements**

- Required:
  - Prior to enrolling in HIT 103 Health Info Systems/Procedures, students must pass CIS 120 Computer Concepts, AH 111 Medical Terminology I and WR 121 Academic Composition with a grade of "C" or better.

**Other Entrance Requirements**

- Recommended:
  - Keyboarding: 40 WPM minimum
  - Study skills
  - Writing skills
  - Reading with emphasis on critical thinking and analytical skills
  - Computer/technology skills (essential)
- Required:
  - Students entering the HIT program are required to have a criminal history check prior to enrolling in HIT 103 Health Info Systems/Procedures. A student may be prevented from entering the program if there is a felony conviction on their record.

**PROGRAM PERFORMANCE STANDARDS****Academic Requirements**

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses in the program must be completed with a grade of C or higher.

**PROGRAM COURSE REQUIREMENTS**

**Support Courses**

AH 111	Medical Terminology I	3
CIS 120	Computer Concepts	4
WR 121	Academic Composition	4

**Core Courses**

HIT 103	Health Info Systems/Procedures	5
HIT 104	Health Data Content/Structure	5
HIT 180	HIPAA Management	2

**Other Required Courses**

AH 112	Medical Terminology II	3
BI 231	Human Anatomy and Physiology I	4
BI 232	Human Anatomy and Physiology II	4
MTH 031	Health Care Math	3

**Total Credits 37**

**ADVISING NOTES**

Students are encouraged to consult their academic advisor if they have transfer credits and/or are not able to attend full time in order to determine an appropriate course schedule. Additionally, students should reference the course descriptions to determine required lab hours.

**Medical Billing Specialist**  
Certificate of Completion

**PROGRAM DESCRIPTION**

The Medical Billing Specialist Certificate prepares the student to work in the insurance industry. Students receive training in the legal aspects of medical records, with hands-on training using current computer technology in medical records and medical billing. Employment may be found working for physicians, dentists, chiropractors, in assisted living facilities, with insurance companies, hospitals, clinics and even law offices. Job descriptions may include customer service regarding benefits and claims, processing medical claims efficiently, handling patient invoices and obtaining reimbursement for patients and/or doctors.

**PROGRAM COSTS**

(beyond standard tuition/fees and textbooks)

**Material Costs**

- Required:
  - Total cost depends upon preparatory coursework and extent of completion within the program - certificate/degree. Additional costs estimated to be approximately \$2,500 include textbooks, technology fees, Directed Practice travel expense, OrHIMA Convention, criminal history check, etc.
- Recommended:
  - Students are strongly encouraged to have access to a home computer with high-speed internet access.

**PROGRAM ENTRANCE REQUIREMENTS**

**Academic Entrance Requirements**

- Required:
  - Prior to enrolling in HIT 103 Health Info Systems/Procedures, students must pass CIS 120 Computer Concepts, AH 111 Medical Terminology I and WR 121 Academic Composition with a grade of "C" or better.
- Recommended:
  - Keyboarding: 40 WPM minimum
  - Study skills
  - Writing skills
  - Reading with emphasis on critical thinking and analytical skills
  - Computer/technology skills (essential)

**Other Entrance Requirements**

- Required:
  - Students entering the HIT program are required to have a criminal history check prior to enrolling in HIT 103 Health Info Systems/

Procedures. A student may be prevented from entering the program if there is a felony conviction on their record.

**PROGRAM PERFORMANCE STANDARDS**

**Academic Requirements**

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses in the program must be completed with a grade of C or higher.

**PROGRAM COURSE REQUIREMENTS**

**Support Courses**

AH 111	Medical Terminology I	3
CIS 120	Computer Concepts	4
WR 121	Academic Composition	4

**Core Courses**

HIT 103	Health Info Systems/Procedures	5
HIT 104	Health Data Content/Structure	5
HIT 131A	Document Management and Tech	3
HIT 180	HIPAA Management	2
HIT 182	Introduction to Medical Coding	4
HIT 184	Advanced Pathophysiology	5
HIT 193	Directed Practice I	2
HIT 201	Legal Aspects of Health Care	3
HIT 205	Intro Medical Record Analysis	3
HIT 284	Classification & Reimb Systems	5
HIT 296	Ambulatory Data Systems	3

**Other Required Courses**

AH 112	Medical Terminology II	3
BI 231	Human Anatomy and Physiology I	4
BI 232	Human Anatomy and Physiology II	4
BI 233	Human Anatomy and Physiology III	4
MTH 031	Health Care Math	3
SP 111	Fundamentals Public Speaking	4
Choose one course from the following:		3
SP 218	Interpersonal Communication	
BA 285	Business Human Relations	
PSY 101	Applied Psychology	

**Total Credits 76**

**ADVISING NOTES**

Students are encouraged to consult their academic advisor if they have transfer credits and/or are not able to attend full time in order to determine an appropriate course schedule. Additionally, students should reference the course descriptions to determine required lab hours.

**Medical Office Specialist**  
Certificate of Completion

**PROGRAM DESCRIPTION**

The Medical Office Specialist Certificate program prepares the student to secure entry-level employment as a medical office specialist. With coursework in medical terminology, anatomy, physiology, health data content and systems, computer technology, disease, beginning coding and HIPAA, students gain the knowledge and skills necessary to begin a successful office career in the health services field. Employment may range from a single physician office to a large hospital organization. Job descriptions may include maintaining medical records and accounts, word processing, basic accounting, scheduling, professional communications, and general operations of a health care facility.

**PROGRAM COSTS**

(beyond standard tuition/fees and textbooks)

**Material Costs**

- Required:
  - Total cost depends upon preparatory coursework and extent of completion within the program - certificate/degree. Additional costs

estimated to be approximately \$2,500 include textbooks, technology fees, Directed Practice travel expense, OrHIMA Convention, criminal history check, etc.

- Recommended:
  - Students are strongly encouraged to have access to a home computer with high-speed internet access.

**PROGRAM ENTRANCE REQUIREMENTS**

**Academic Entrance Requirements**

- Required:
  - Prior to enrolling in HIT 103 Health Info Systems/Procedures, students must pass CIS 120 Computer Concepts, AH 111 Medical Terminology I and WR 121 Academic Composition with a grade of “C” or better.

**Other Entrance Requirements**

- Recommended:
  - Keyboarding: 40 WPM minimum
  - Study skills
  - Writing skills
  - Reading with emphasis on critical thinking and analytical skills
  - Computer/technology skills (essential)
- Required:
  - Students entering the HIT program are required to have a criminal history check prior to enrolling in HIT 103 Health Info Systems/Procedures. A student may be prevented from entering the program if there is a felony conviction on their record.

**PROGRAM PERFORMANCE STANDARDS**

**Academic Requirements**

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses in the program must be completed with a grade of C or higher.

**PROGRAM COURSE REQUIREMENTS**

**Support Courses**

AH 111	Medical Terminology I	3
CIS 120	Computer Concepts	4
WR 121	Academic Composition	4

**Core Courses**

HIT 103	Health Info Systems/Procedures	5
HIT 104	Health Data Content/Structure	5
HIT 131A	Document Management and Tech	3
HIT 180	HIPAA Management	2
HIT 182	Introduction to Medical Coding	4
HIT 184	Advanced Pathophysiology	5

**Other Required Courses**

AH 112	Medical Terminology II	3
BI 231	Human Anatomy and Physiology I	4
BI 232	Human Anatomy and Physiology II	4
BI 233	Human Anatomy and Physiology III	4
MTH 031	Health Care Math	3
Choose one course from the following:		3
SP 218	Interpersonal Communication	
BA 285	Business Human Relations	
PSY 101	Applied Psychology	

**Total Credits 56**

**ADVISING NOTES**

Students are encouraged to consult their academic advisor if they have transfer credits and/or are not able to attend full time in order to determine an appropriate course schedule. Additionally, students should reference the course descriptions to determine required lab hours.

**HISTORY**

**History**

**Associate of Arts Oregon Transfer**

**FOCUS AREA DESCRIPTION**

The history discipline illuminates and analyzes the human past through primary and secondary evidence. History majors and minors learn to think with rigor, to write with clarity and precision, to research, organize and assess evidence and to interpret complex information. History majors develop a foundational skill set that opens the way to careers in such fields as education, government, international work, marketing, public relations, non-profit, business, journalism, museum work and law.

Many arts and science disciplines can make this claim, but history does so while offering a boundless variety of material for analysis including the diversity of human experience. Themes in history courses include politics, ethnicity, wars, sexuality, music, social class, religion, ideas and other distinctive topics that reveal the human experience at various times and places. Not only is the study of history useful for professional life, it provides a compelling context for personal enrichment and lifelong learning.

**PROGRAM ENTRANCE REQUIREMENTS**

None

**PROGRAM PERFORMANCE STANDARDS**

**Academic Requirements**

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses in the program must be completed with a grade of C or higher.

**PROGRAM COURSE REQUIREMENTS**

**General Education/Foundational**

**Health**

3 credits with HHP or HHPA prefix <sup>1</sup> 3

**Mathematics**

MTH 105 Math in Society (or higher) 4

**Oral Communication**

Choose one course from the following: 3-4

SP 111	Fundamentals Public Speaking
SP 114	Argumentation & Discourse
SP 115	Intro Intercultural Commun
SP 218	Interpersonal Communication
SP 219	Small Group Communication

**Writing**

WR 121	Academic Composition	4
WR 122	Argument, Research and Multimodal Composition	4
or WR 227	Technical Writing	

**General Education/Discipline Studies**

One course must be designated as Cultural Literacy.

**Arts and Letters**

Choose at least three courses from at least two prefixes 9-12

**Social Science**

Choose at least four courses from at least two prefixes<sup>2</sup> 12-16

Recommend: HST 101, HST 102, HST 103, HST 104, HST 105, HST 106, HST 201, HST 202, or HST 203

**Science/Math/Computer Science**

Choose at least four courses from at least two prefixes including at least three laboratory courses in biological and/or physical science 12-20

**Electives**

Choose college-level courses to bring total credits to 90 quarter hours<sup>3</sup> 39

**Total Credits 90-106**

- <sup>1</sup> HHPA activity courses (1 credit each) are not to be duplicated.
- <sup>2</sup> History majors are advised to choose two survey courses with a History prefix in European, World or American History.
- <sup>3</sup> History courses at COCC are divided into three general areas: World, European and American history. History majors are advised to take at least two courses from each area during the course of earning an AAOT (including the social science requirement) and then choose any college-level courses that brings the total credits to 90 quarter hours.

**European History:** HST 235 Sexuality in 20th Century Europe, HST 270 20th Century European History.

**World History:** HST 258 Colonial Latin American Hist, HST 259 Modern Latin American History, HST 260 History of Islamic Civilizations, HST 290 East Asian History, HST 291 East Asian History, HST 292 East Asian History

**American History:** HST 204 History of the Civil War, HST 207 History of the American West, HST 218 Native American History, HST 225 US Women’s History, HST 242 History of the Pacific NW

**ADVISING NOTES**

Students pursuing a BA after transfer should consider completing to the third term of a 200-level language course. The 100-level language courses will count as electives. The 200-level language courses will partially fulfill the Arts and Letters requirement. For specific details, speak with an advisor.

Oregon public universities that offer a bachelor’s degree in history include Eastern Oregon University, Oregon State University, Portland State University, Southern Oregon University, University of Oregon and Western Oregon University. Most of Oregon’s private universities also offer BA programs in history.

Oregon State University – Cascades offers related majors in American Studies, Social Science and Liberal Studies, a minor in Art History and a Master of Arts in Teaching graduate program.

## HUMAN SERVICES

### Human Services

Associate of Arts Oregon Transfer

**FOCUS AREA DESCRIPTION**

Human Services programs prepare students to work for organizations that serve people in need. Students learn the theories, principles and practice of providing services. Human Services jobs can include drug abuse counselor, youth worker, mental health aide or probation officer and provide services to schools, prisons, government agencies and nonprofit groups.

**PROGRAM ENTRANCE REQUIREMENTS**

None

**PROGRAM PERFORMANCE STANDARDS**

**Academic Requirements**

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses in the program must be completed with a grade of C or higher.

**PROGRAM COURSE REQUIREMENTS**

**General Education/Foundational**

**Health**

3 credits with HHP or HHPA prefix <sup>1</sup> 3

**Mathematics**

MTH 105 Math in Society (or higher) 4

**Oral Communication**

Choose one course from the following: 3-4

SP 111	Fundamentals Public Speaking	
SP 114	Argumentation & Discourse	
SP 115	Intro Intercultural Commun	
SP 218	Interpersonal Communication	
SP 219	Small Group Communication	

**Writing**

WR 121	Academic Composition	4
WR 122 or WR 227	Argument, Research and Multimodal Composition or Technical Writing	4

**General Education/Discipline Studies**

One course must be designated as Cultural Literacy.

**Arts and Letters** 9-12

Choose at least three courses from at least two prefixes

**Social Science** 12-16

Choose at least four courses from at least two prefixes<sup>2</sup>  
Recommend: HS 206, HS 208, HS 209

**Science/Math/Computer Science** 12-20

Choose at least four courses from at least two prefixes including at least three laboratory courses in biological and/or physical science  
Recommend: HS 224

**Electives** 39

Choose enough elective credits to reach a minimum total of 90 overall degree credits<sup>3</sup>

**Total Credits 90-106**

- <sup>1</sup> HHPA activity courses (1 credit each) are not to be duplicated.
- <sup>2</sup> HS 208 Multicultural Issues Hum Serv is recommended to meet cultural literacy requirement.
- <sup>3</sup> Other Addiction Studies/Counseling Certificate courses are related courses to consider; 32 credits may be applied toward elective credits.

**ADVISING NOTES**

Locally, OSU-Cascades offers a bachelor’s degree with a major in Human Development and Family Science, Human Services option. This degree requires careful and accurate planning of the first 90 credits. Details can be found at [osucascades.edu/academics/hdfs](http://osucascades.edu/academics/hdfs).

Students pursuing a BA after transfer should consider completing three terms of a 200-level language course. The 100-level language courses will count as electives. The 200-level language courses will partially fulfill the Arts and Letters requirement.

## Addiction Studies and Human Services

Associate of Applied Science

**PROGRAM DESCRIPTION**

The AAS degree builds on the certificate of completion (which qualifies a student to sit for the Oregon Certified Alcohol and Drug Counselor (CADC) I exam) and prepares students academically for the CADC II certification.

**PROGRAM COSTS**

(beyond standard tuition/fees and textbooks)

**Material Costs**

- Travel costs for practicum, three terms, costs based on location
- State Board exams (ACCBO): \$50 application fee; \$220 exam fee
- Videotaping fees for two terms: approximately \$50
- Background check for practicum placement: approximately \$50

**PROGRAM ENTRANCE REQUIREMENTS**

**Academic Entrance Requirements**

- Required:
  - None

- Recommended:
  - High school diploma or GED
  - Minimum placement scores resulting in WR 121 Academic Composition placement OR completion of WR 065 Rhetoric/Critical Thinking II/WR 095 Basic Writing II (“C” or better)
  - Students should have basic computer competency skills.

#### Other Entrance Requirements

- Must pass a Criminal Background Check (CBC) as a condition of acceptance into a practicum for training. Students who do not pass the CBC may not be eligible to complete training at affiliated practicum sites, to sit for certification exams, or to be hired for some professional positions. Students with questions about their history should contact the appropriate state board or the program director.

### PROGRAM PERFORMANCE STANDARDS

#### Academic Requirements

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses with the HS prefix must be completed with a grade of C or higher.

#### Additional Requirements

- A student may be considered ineligible for continued enrollment in the program if the student has failed to satisfactorily complete a given Human Services/Addictions Studies course after re-enrolling in that course once (one time).

### PROGRAM COURSE REQUIREMENTS

#### Core Courses

HS 101	Orientation to Human Services	3
HS 161	Ethics for Human Services	4
HS 162	Effective Helping Skills I	4
HS 180	Addictions, HIV and Other	2
HS 200	Addictive Behavior	3
HS 201	Families and Addictions	3
HS 205	Youth and Addictions	3
HS 206	Group Counseling Skills for Human Services	4
HS 208	Multicultural Issues Hum Serv	4
HS 209	Introduction to Psychological Trauma: Theory and Practice	4
HS 210	Co-Occurring Disorders	4
HS 224	Psychopharmacology	4
HS 250	Process Addictions	4
HS 260	Counseling Theories	4
HS 262	Effective Helping Skills II	4
HS 263	Counseling the Chemically Dependent Client	3
HS 266	Case Management for the Chemically Dependent Client	4
HS 290	Introduction to Practicum in Human Services	1
HS 291	Practicum in Human Services I	4
HS 292	Practicum in Human Services II	4
HS 293	Practicum in Human Service III	4

#### Other Required Courses

Discipline Studies Electives <sup>1</sup>	3-5
Health (3 credits with HHP or HHPA prefix) <sup>2</sup>	3
MTH 031 Health Care Math (or higher)	3-4
Choose one course from the following:	3-4
SP 111 Fundamentals Public Speaking	
SP 114 Argumentation & Discourse	
SP 115 Intro Intercultural Commun	
SP 218 Interpersonal Communication	
SP 219 Small Group Communication	
WR 121 Academic Composition	4
WR 122 Argument, Research and Multimodal Composition	4
or WR 227 Technical Writing	

**Total Credits 94-98**

<sup>1</sup> Choose courses from the Discipline Studies list that do not have an HS prefix, and that have different prefixes from each other. Choose enough credits to reach the 90 credit minimum.

<sup>2</sup> HHPA activity courses (1 credit each) are not to be duplicated.

## Addiction Studies and Human Services Certificate of Completion

### PROGRAM DESCRIPTION

The certificate of completion provides the coursework and 1,000 hours of supervised experience that are required to qualify to sit for the Oregon Certified Alcohol and Drug Counselor (CADC) I exam. The certificate also provides coursework in the addictions field to other human services and criminal justice workers who help addicted persons and their families.

### PROGRAM COSTS

(beyond standard tuition/fees and textbooks)

#### Material Costs

- Travel costs for practicum, three terms, costs based on location
- State Board exams (ACCBO): \$50 application fee; \$220 exam fee
- Videotaping fees for two terms: approximately \$50
- Background check for practicum placement: approximately \$50

### PROGRAM ENTRANCE REQUIREMENTS

#### Academic Entrance Requirements

- Required:
  - None
- Recommended:
  - High school diploma or GED
  - Minimum placement scores resulting in WR 121 Academic Composition placement or completion of WR 065 Rhetoric/Critical Thinking II / WR 095 Basic Writing II (“C” or better)
  - Students should have basic computer competency skills.

### OTHER ENTRANCE REQUIREMENTS

- Must pass a Criminal Background Check (CBC) as a condition of acceptance into a practicum for training. Students who do not pass the CBC may not be eligible to complete training at affiliated practicum sites, to sit for certification exams, or to be hired for some professional positions. Students with questions about their history should contact the appropriate state board or the program director.

### PROGRAM PERFORMANCE STANDARDS

#### Academic Requirements

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses must be completed with a grade of C or higher.

#### Additional Requirements

- A student may be considered ineligible for continued enrollment in the program if the student has failed to satisfactorily complete a given Human Services/Addictions Studies course after re-enrolling in that course once (one time).

### PROGRAM COURSE REQUIREMENTS

#### Core Courses

HS 101	Orientation to Human Services	3
HS 161	Ethics for Human Services	4
HS 162	Effective Helping Skills I	4
HS 180	Addictions, HIV and Other	2
HS 200	Addictive Behavior	3
HS 201	Families and Addictions	3
HS 205	Youth and Addictions	3
HS 206	Group Counseling Skills for Human Services	4
HS 208	Multicultural Issues Hum Serv	4
HS 209	Introduction to Psychological Trauma: Theory and Practice	4
HS 210	Co-Occurring Disorders	4
HS 224	Psychopharmacology	4
HS 250	Process Addictions	4
HS 260	Counseling Theories	4
HS 262	Effective Helping Skills II	4
HS 263	Counseling the Chemically Dependent Client	3
HS 266	Case Management for the Chemically Dependent Client	4
HS 290	Introduction to Practicum in Human Services	1
HS 291	Practicum in Human Services I	4



HS 292	Practicum in Human Services II	4
HS 293	Practicum in Human Service III	4
<b>Other Required Courses</b>		
MTH 031	Health Care Math (or higher)	3-4
WR 121	Academic Composition	4
WR 122	Argument, Research and Multimodal Composition	4
or WR 227	Technical Writing	
		<b>Total Credits 85-86</b>

## HUMANITIES/FILM

### English/Literature

Associate of Arts Oregon Transfer

#### FOCUS AREA DESCRIPTION

The Associate of Arts Oregon Transfer (AAOT) degree meets the state of Oregon transfer degree requirements, allowing students to transfer to an Oregon public university and some out-of-state universities having met all lower-division general education requirements. With appropriate course planning, all lower-division English/Literature major requirements may also be met. Students should work closely with an advisor to select the best degree option and to review specific transfer requirements.

English majors with a solid humanities foundation and strong writing, reading, critical thinking and research skills, are sought after in many careers, including advertising, business, public administration, communication and media, computer-based information and education, software and web development, social services, government civil service, law and criminal justice, and teaching/education.

#### PROGRAM ENTRANCE REQUIREMENTS

None

#### PROGRAM PERFORMANCE STANDARDS

##### Academic Requirements

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses in the program must be completed with a grade of C or higher.

#### PROGRAM COURSE REQUIREMENTS

##### General Education/Foundational

##### Health

3 credits with HHP or HHPA prefix <sup>1</sup> 3

##### Mathematics

MTH 105 Math in Society (or higher) 4

##### Oral Communication

Choose one course from the following: 3-4

SP 111	Fundamentals Public Speaking	
SP 114	Argumentation & Discourse	
SP 115	Intro Intercultural Commun	
SP 218	Interpersonal Communication	
SP 219	Small Group Communication	

##### Writing

WR 121	Academic Composition	4
WR 122	Argument, Research and Multimodal Composition	4

##### General Education/Discipline Studies

One course must be designated as Cultural Literacy.

##### Arts and Letters

Choose at least three courses from at least two prefixes <sup>2</sup> 9-12  
 Recommend: ENG 204 and ENG 205 or ENG 253 and ENG 254

##### Social Science

Choose at least four courses from at least two prefixes 12-16

#### Science/Math/Computer Science 12-20

Choose at least four courses from at least two prefixes including at least three laboratory courses in biological and/or physical science

#### Electives 39

Choose enough electives to reach 90 credits.

Recommend: ENG 201, ENG 202, ENG 204, ENG 205, ENG 253, ENG 254

**Total Credits 90-106**

<sup>1</sup> HHPA activity courses (1 credit each) are not to be duplicated.

<sup>2</sup> Plus one additional course from the Arts and Letters Discipline Studies list with a different prefix.

#### ADVISING NOTES

Lower-division requirements for majors, minors and related specializations in English/Literature vary among four-year institutions. To make wise elective course choices, students are advised to work closely with their advisors, consult college catalogs of the destination institution to which they wish to transfer and determine whether one or more of the following courses should be elected to fulfill their degree objectives.

Education programs may require or recommend:  
 ENG 221

English/Literature and Humanities degree programs may also require or recommend one of more courses in:

Western World Literature  
 ENG 107, ENG 108, ENG 109

Non-Western World Literature  
 HUM 210, HUM 211, HUM 212, HUM 213

American Multiculturalism  
 HUM 210, HUM 230, HUM 240, HUM 255, HUM 256

Introductory genre courses in Literature, Film, Popular Culture and/or Women's Studies courses  
 ENG 104, ENG 105, ENG 106, ENG 212, ENG 232, ENG 250, ENG 256, ENG 260, FA 101, FA 125, FA 257, HUM 105, HUM 106, HUM 261, HUM 262, HUM 263, HUM 264, HUM 265, HUM 267, HUM 268, HUM 269, WS 101

Creative Writing Courses  
 WR 240, WR 241, WR 242, WR 243

## Humanities

Associate of Arts Oregon Transfer

#### FOCUS AREA DESCRIPTION

The humanities encompass diverse subjects concerned with study of human experience and communication; philosophy, values, and beliefs; language arts and cultural traditions -- of the past, present, and future, in Western and non-Western cultures. The Associate of Arts Oregon Transfer (AAOT) with a focus in humanities includes courses that are commonly required for this major and meets lower division general education requirements at all Oregon public universities.

#### PROGRAM ENTRANCE REQUIREMENTS

None

#### PROGRAM PERFORMANCE STANDARDS

##### Academic Requirements

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses in the program must be completed with a grade of C or higher.

#### PROGRAM COURSE REQUIREMENTS

##### General Education/Foundational

##### Health

3 credits with HHP or HHPA prefix <sup>1</sup> 3

<b>Mathematics</b>		
MTH 105	Math in Society (or higher)	4
<b>Oral Communication</b>		
Choose one course from the following:		3-4
SP 111	Fundamentals Public Speaking	
SP 114	Argumentation & Discourse	
SP 115	Intro Intercultural Commun	
SP 218	Interpersonal Communication	
SP 219	Small Group Communication	
<b>Writing</b>		
WR 121	Academic Composition	4
WR 122 or WR 227	Argument, Research and Multimodal Composition Technical Writing	4
<b>General Education/Discipline Studies</b>		
One course must be designated as Cultural Literacy.		
<b>Arts and Letters</b>		9-12
Choose at least three courses from at least two prefixes		
<b>Social Science</b>		12-16
Choose at least four courses from at least two prefixes		
<b>Science/Math/Computer Science</b>		12-20
Choose at least four courses from at least two prefixes including at least three laboratory courses in biological and/or physical science		
<b>Electives</b>		39
Choose enough elective credits to reach a minimum total of 90 overall degree credits		
<b>Total Credits 90-106</b>		

<sup>1</sup> HHPA activity courses (1 credit each) are not to be duplicated.

**ADVISING NOTES**

Transfer students seeking a bachelor’s degree in specific or interdisciplinary humanities fields are advised to select general education/discipline studies and elective courses that will also fulfill major and minor requirements at the destination university to which they intend to transfer. COCC transfer students are encouraged to consult college catalogs and work closely with their advisors.

**Liberal Arts/Liberal Studies**  
Associate of Arts Oregon Transfer

**FOCUS AREA DESCRIPTION**

The Associate of Arts Oregon Transfer (AAOT) degree meets the state of Oregon transfer degree requirements, allowing students to transfer to an Oregon public university and some out-of-state universities having met all lower-division general education requirements. With appropriate course planning, all lower-division major requirements may also be met. Students should work closely with an advisor to select the best degree option and to review specific transfer requirements.

Liberal studies, also known as liberal arts, is a program of study in higher education that varies between institutions but generally encompasses a broad array of arts and letters, social science, and science courses. As a major, liberal studies frequently encourages connections between the disciplines and includes a focus on strong communication and critical thinking skills. Some schools define a variety of liberal studies choices for students, while others, like Oregon State University-Cascades, support students to self-design a major around a theme. This major is a good choice for students who have specific career or personal goals, who enjoy a wide range of disciplines, and who appreciate the flexibility provided. The flexibility in the degree makes it difficult to provide guidance without identifying a transfer institution. For this reason, students should check with each school to ensure that the latest transfer information is used when designing their program. The guidance below focuses on general education requirements and using electives to meet BA/BS requirement and begin to build a theme.

**PROGRAM ENTRANCE REQUIREMENTS**

None

**PROGRAM PERFORMANCE STANDARDS**

**Academic Requirements**

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses in the program must be completed with a grade of C or higher.

**PROGRAM COURSE REQUIREMENTS**

<b>General Education/Foundational Health</b>		
3 credits with HHP or HHPA prefix <sup>1</sup>		3
<b>Mathematics</b>		
MTH 105	Math in Society (or higher)	4
<b>Oral Communication</b>		
Choose one course from the following:		3-4
SP 111	Fundamentals Public Speaking	
SP 114	Argumentation & Discourse	
SP 115	Intro Intercultural Commun	
SP 218	Interpersonal Communication	
SP 219	Small Group Communication	
<b>Writing</b>		
WR 121	Academic Composition	4
WR 122 or WR 227	Argument, Research and Multimodal Composition Technical Writing	4
<b>General Education/Discipline Studies</b>		
One course must be designated as Cultural Literacy.		
<b>Arts and Letters</b>		9-12
Choose at least three courses from at least two prefixes		
<b>Social Science</b>		12-16
Choose at least four courses from at least two prefixes		
<b>Science/Math/Computer Science</b>		12-20
Choose at least four courses from at least two prefixes including at least three laboratory courses in biological and/or physical science		
<b>Electives</b>		39
Choose enough elective credits to reach a minimum total of 90 overall degree credits		
<b>Total Credits 90-106</b>		

<sup>1</sup> HHPA activity courses (1 credit each) are not to be duplicated

**ADVISING NOTES**

Students are encouraged to consider meeting BA or BS requirements for their transfer institution in the first two years. This requirement varies, but frequently the BA requirement is one or two years of a foreign language and the BS requirement is additional math (or math, science and computer science).

In choosing electives, students should consider their future liberal studies theme.

**MANUFACTURING TECHNOLOGY**  
Manufacturing Technology  
Associate of Applied Science

**PROGRAM DESCRIPTION**

The Manufacturing Technology Associate of Applied Science (AAS) degree and the two certificates of completion are designed to prepare students for technician-level employment in a variety of manufacturing environments.

**PROGRAM COSTS**

(beyond standard tuition/fees and textbooks)

**Material Costs**

- Welding personal protective equipment and tools, approximately \$400

**Enrollment Fees**

- Fees on specific MFG courses (estimated \$1100 total)

**PROGRAM ENTRANCE REQUIREMENTS**

**Academic Entrance Requirements**

- Recommended:
  - High School Diploma or GED
  - Minimum placement scores resulting in MTH 020 Pre-Algebra placement or prior completion of MTH 010 Developmental Mathematics or higher ("C" or higher)
  - Successful completion of or current enrollment in MATC new-student orientation class MFG 100 MATC Orientation.
  - Recommended completion of CIS 070 Intro to Computers: Windows or equivalent skills

**PROGRAM PERFORMANCE STANDARDS**

**Academic Requirements**

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses in the program must be completed with a grade of C or higher.

**PROGRAM COURSE REQUIREMENTS**

**Core Requirements<sup>1</sup>**

MFG 100	MATC Orientation	1
MFG 101	Blueprint Reading	2
MFG 103	Welding Technology I	3
MFG 105	Welding Technology II	3
MFG 107	Welding Technology III	3
MFG 109	Lean Practices	2
MFG 110	Manufacturing Processes I	3
MFG 112	Manufacturing Processes II	3
MFG 114	Manufacturing Processes III	3
MFG 115	Design Processes I	2
MFG 116	Manufacturing Electrical Systems	2
MFG 118	Fluid Power Systems I	2
MFG 133	Quality Assurance	3
MFG 160	Materials Engineering	2

**Manufacturing Electives<sup>1</sup>**

Choose 38 elective credits from the list below:	38	
Recommend: CIS 135S1, MFG 102, MFG 201, MFG 202, MFG 203, MFG 205, MFG 210, MFG 211, MFG 213, MFG 214, MFG 216, MFG 230, MFG 232, MFG 234, MFG 236, MFG 238, MFG 239, MFG 241, MFG 242, MFG 243, MFG 244, MFG 245, MFG 246, MFG 250, MFG 254, MFG 262, MFG 264, MFG 266, MFG 267, MFG 271, MFG 272, MFG 273, MFG 274, MFG 275, MFG 276, MFG 281, MFG 282, MFG 283, MFG 284, MFG 285, MFG 286, MFG 287, MFG 288, MFG 289, MFG 290, MFG 291		
MFG 280	CWE Manufacturing	3

**Other Requirements**

BA 285	Business Human Relations	3
or PSY 101	Applied Psychology	
or SP 218	Interpersonal Communication	
CIS 070	Intro to Computers: Windows (or higher)	2
CIS 120	Computer Concepts (or higher)	4
HHP 252A	Fitness/First Aid	3
MTH 085	Technical Mathematics I (or higher)	4
SP 219	Small Group Communication	4
SP 250	Listening	1
or SP 252	Team Skills	
or SP 253	Conflict Management	
WR 060	Rhetoric/Critical Thinking I (or higher)	4

**Total Credits 100**

<sup>1</sup> Most manufacturing courses carry a \$25-\$75 fee to cover software or lab materials (see class schedule for individual courses and fees).

**ADVISING NOTES**

Nearly all MATC courses are self-directed, outcome-based curricula. This provides students with a greater degree of flexibility than most other COCC programs. The MATC hours of operation provide students with ample time to complete their coursework during a term.

Upon starting their program, students review their desired certificate or degree outcome with their advisor and a sequence of coursework is identified for them. With the exception of classes in a series (e.g. Manufacturing Processes I, II, III) or those with specific prerequisites (as identified in the catalog) most classes can be taken in any order, provided that instructor permission is obtained.

This certificate is designed for students planning to enter their chosen career upon graduation. Often only selected credits are considered transferable to public or private baccalaureate institutions. Prior to starting any MATC program, students are advised to contact the institution to which they intend to transfer and identify what credits may be transferable.

**CNC Machining**  
Certificate of Completion

**PROGRAM DESCRIPTION**

The CNC Machining one-year certificate of completion program is a self-directed, outcome-based program designed to prepare students for technician-level employment in manufacturing environments using CNC equipment.

**PROGRAM COSTS**

(beyond standard tuition/fees and textbooks)

**Material Costs**

- Welding personal protective equipment and tools, approximately \$400

**Enrollment Fees**

- Fees on specific MFG courses (\$410 total)

**PROGRAM ENTRANCE REQUIREMENTS**

**Academic Entrance Requirements**

- Required:
  - None
- Recommended:
  - High school diploma or GED
  - Minimum placement scores resulting in MTH 020 Pre-Algebra placement or prior completion of MTH 010 Developmental Mathematics or higher ("C" or higher)
  - Successful completion of or current enrollment in MATC new-student orientation class MFG 100 MATC Orientation
  - Recommended completion of CIS 070 Intro to Computers: Windows or equivalent skills

**PROGRAM PERFORMANCE STANDARDS**

**Academic Requirements**

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses in the program must be completed with a grade of C or higher.

**PROGRAM COURSE REQUIREMENTS**

**Core Courses<sup>1</sup>**

MFG 100	MATC Orientation	1
MFG 101	Blueprint Reading	2
MFG 103	Welding Technology I	3
MFG 110	Manufacturing Processes I	3
MFG 112	Manufacturing Processes II	3
MFG 114	Manufacturing Processes III	3
MFG 115	Design Processes I	2

MFG 133	Quality Assurance	3
MFG 202	Metals Preparation	2
MFG 211	CNC Mill Operator	2
MFG 213	CNC Turning Operator	2
MFG 230	CNC Programming Mill	2
MFG 232	CNC Programming Lathe	2
MFG 234	CAD/CAM Mill	2
MFG 236	CAD/CAM Lathe	2

**Other Required Courses**

CIS 070	Intro to Computers: Windows (or higher)	2
MTH 085	Technical Mathematics I (or higher)	4
WR 060	Rhetoric/Critical Thinking I (or higher)	4

**Total Credits 44**

<sup>1</sup> Most manufacturing courses carry a \$25-\$75 fee to cover software or lab materials (see class schedule for individual courses and fees).

**ADVISING NOTES**

Nearly all MATC courses are self-directed, outcome-based curricula. This provides students with a greater degree of flexibility than most other COCC programs. The MATC hours of operation provide students with ample time to complete their coursework during a term.

Upon starting their program, students review their desired certificate or degree outcome with their advisor and a sequence of coursework is identified for them. With the exception of classes in a series (e.g. Manufacturing Processes I, II, III) or those with specific prerequisites (as identified in the catalog) most classes can be taken in any order, provided that instructor permission is obtained.

This certificate is designed for students planning to enter their chosen career upon graduation. Often only selected credits are considered transferable to public or private baccalaureate institutions. Prior to starting any MATC program, students are advised to contact the institution to which they intend to transfer and identify what credits may be transferable.

## Industrial Maintenance

### Certificate of Completion

**PROGRAM DESCRIPTION**

The Industrial Maintenance one-year certificate of completion program is a self-directed, outcome-based program designed to prepare students for technician-level employment in industrial maintenance in a manufacturing environment.

**PROGRAM COSTS**

(beyond standard tuition/fees and textbooks)

**Material Costs**

- Welding personal protective equipment and tools, approximately \$400

**Enrollment Fees**

- Fees on specific MFG courses (\$150 total)

**PROGRAM ENTRANCE REQUIREMENTS****Academic Entrance Requirements**

- Recommended:
  - High school diploma or GED
  - Minimum placement scores resulting in MTH 020 Pre-Algebra placement or prior completion of MTH 010 Developmental Mathematics or higher ("C" or higher)
  - Successful completion of or current enrollment in MATC new-student orientation class MFG 100 MATC Orientation
  - Recommended completion of CIS 070 Intro to Computers: Windows or equivalent skills

**PROGRAM PERFORMANCE STANDARDS****Academic Requirements**

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.

- All courses in the program must be completed with a grade of C or higher.

**PROGRAM COURSE REQUIREMENTS****Core Courses<sup>1</sup>**

MFG 100	MATC Orientation	1
MFG 101	Blueprint Reading	2
MFG 102	Blueprint Reading Sheet Metal	2
MFG 103	Welding Technology I	3
MFG 109	Lean Practices	2
MFG 110	Manufacturing Processes I	3
MFG 116	Manufacturing Electrical Systems	2
MFG 118	Fluid Power Systems I	2
MFG 160	Materials Engineering	2
MFG 241	Electric Motor Control	2
MFG 242	Programmable Logic Controllers I	2
MFG 243	Industrial Sensors	2
MFG 244	Programmable Logic Controllers II	2
MFG 245	Electrical Control/Fluid Power	2
MFG 246	Mechanical Troubleshooting	2
MFG 267	Oxygen-Fuel and Plasma Cutting	2
MFG 289	Material Handling-Fork Lift Safety	1

**Other Required Courses**

CIS 070	Intro to Computers: Windows (or higher)	2
MTH 085	Technical Mathematics I (or higher)	4
WR 060	Rhetoric/Critical Thinking I (or higher)	4

**Total Credits 44**

<sup>1</sup> Most manufacturing courses carry a \$25-\$75 fee to cover software or lab materials (see class schedule for individual courses and fees).

**ADVISING NOTES**

Nearly all MATC courses are self-directed, outcome-based curricula. This provides students with a greater degree of flexibility than most other COCC programs. The MATC hours of operation provide students with ample time to complete their coursework during a term.

Upon starting their program, students review their desired certificate or degree outcome with their advisor and a sequence of coursework is identified for them. With the exception of classes in a series (e.g. Manufacturing Processes I, II, III) or those with specific prerequisites (as identified in the catalog) most classes can be taken in any order, provided that instructor permission is obtained.

This certificate is designed for students planning to enter their chosen career upon graduation. Often only selected credits are considered transferable to public or private baccalaureate institutions. Prior to starting any MATC program, students are advised to contact the institution to which they intend to transfer and identify what credits may be transferable.

## Manual Machining

### Certificate of Completion

**PROGRAM DESCRIPTION**

The Manual Machining one-year certificate of completion program is a self-directed, outcome-based program designed to prepare students for technician-level employment in manufacturing environments using manual machining equipment.

**PROGRAM COSTS**

(beyond standard tuition/fees and textbooks)

**Material Costs**

- Welding personal protective equipment and tools, approximately \$400

**Enrollment Fees**

- Fees on specific MFG courses (\$450 total)

**PROGRAM ENTRANCE REQUIREMENTS**

**Academic Entrance Requirements**

- Recommended:
  - High school diploma or GED
  - Minimum placement scores resulting in MTH 020 Pre-Algebra placement or prior completion of MTH 010 Developmental Mathematics or higher (“C” or higher)
  - Successful completion of or current enrollment in MATC new-student orientation class MFG 100 MATC Orientation
  - Recommended completion of CIS 070 Intro to Computers: Windows or equivalent skills

**PROGRAM PERFORMANCE STANDARDS**

**Academic Requirements**

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses in the program must be completed with a grade of C or higher.

**PROGRAM COURSE REQUIREMENTS**

**Core Courses<sup>1</sup>**

MFG 100	MATC Orientation	1
MFG 101	Blueprint Reading	2
MFG 103	Welding Technology I	3
MFG 110	Manufacturing Processes I	3
MFG 112	Manufacturing Processes II	3
MFG 114	Manufacturing Processes III	3
MFG 115	Design Processes I	2
MFG 133	Quality Assurance	3
MFG 202	Metals Preparation	2
MFG 203	Layout	2
MFG 205	Drill Press	2
MFG 210	Vertical Milling	2
MFG 214	Lathe Operator I	2
MFG 216	Lathe Operator II	2

**Other Required Courses**

CIS 070	Intro to Computers: Windows (or higher)	2
MTH 085	Technical Mathematics I (or higher)	4
WR 060	Rhetoric/Critical Thinking I (or higher)	4
<b>Total Credits</b>		<b>42</b>

<sup>1</sup> Most manufacturing courses carry a \$25-\$75 fee to cover software or lab materials (see class schedule for individual courses and fees).

**ADVISING NOTES**

Nearly all MATC courses are self-directed, outcome-based curricula. This provides students with a greater degree of flexibility than most other COCC programs. The MATC hours of operation provide students with ample time to complete their coursework during a term.

Upon starting their program, students review their desired certificate or degree outcome with their advisor and a sequence of coursework is identified for them. With the exception of classes in a series (e.g. Manufacturing Processes I, II, III) or those with specific prerequisites (as identified in the catalog) most classes can be taken in any order, provided that instructor permission is obtained.

This certificate is designed for students planning to enter their chosen career upon graduation. Often only selected credits are considered transferable to public or private baccalaureate institutions. Prior to starting any MATC program, students are advised to contact the institution to which they intend to transfer and identify what credits may be transferable.

**Manufacturing Technology I**  
Certificate of Completion

**PROGRAM DESCRIPTION**

The one-year certificate of completion in Manufacturing Technology is designed to prepare students for technician-level employment in a variety of manufacturing environments.

**PROGRAM COSTS**

(beyond standard tuition/fees and textbooks)

**Material Costs**

- Welding personal protective equipment and tools, approximately \$400

**Enrollment Fees**

- Fees on specific MFG courses (\$740 total)

**PROGRAM ENTRANCE REQUIREMENTS**

**Academic Entrance Requirements**

- Recommended:
  - High school diploma or GED
  - Minimum placement scores resulting in MTH 020 Pre-Algebra placement or prior completion of MTH 010 Developmental Mathematics or higher (“C” or higher)
  - Successful completion of or current enrollment in MATC new-student orientation class MFG 100 MATC Orientation
  - Recommended completion of CIS 070 Intro to Computers: Windows or equivalent skills

**PROGRAM PERFORMANCE STANDARDS**

**Academic Requirements**

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses in the program must be completed with a grade of C or higher.

**PROGRAM COURSE REQUIREMENTS**

**Core Courses<sup>1</sup>**

MFG 100	MATC Orientation	1
MFG 101	Blueprint Reading	2
MFG 103	Welding Technology I	3
MFG 105	Welding Technology II	3
MFG 107	Welding Technology III	3
MFG 109	Lean Practices	2
MFG 110	Manufacturing Processes I	3
MFG 112	Manufacturing Processes II	3
MFG 114	Manufacturing Processes III	3
MFG 115	Design Processes I	2
MFG 116	Manufacturing Electrical Systems	2
MFG 118	Fluid Power Systems I	2
MFG 133	Quality Assurance	3
MFG 160	Materials Engineering	2

**Other Required Courses**

BA 285	Business Human Relations	3
or PSY 101	Applied Psychology	
or SP 218	Interpersonal Communication	
CIS 070	Intro to Computers: Windows (or higher)	2
MTH 085	Technical Mathematics I (or higher)	4
WR 060	Rhetoric/Critical Thinking I (or higher)	4
<b>Total Credits</b>		<b>47</b>

<sup>1</sup> Most manufacturing courses carry a \$25-\$75 fee to cover software or lab materials (see class schedule for individual courses and fees).

**ADVISING NOTES**

Nearly all MATC courses are self-directed, outcome-based curricula. This provides students with a greater degree of flexibility than most other COCC programs. The MATC hours of operation provide students with ample time to complete their coursework during a term.

Upon starting their program, students review their desired certificate or degree outcome with their advisor and a sequence of coursework



is identified for them. With the exception of classes in a series (e.g. Manufacturing Processes I, II, III) or those with specific prerequisites (as identified in the catalog) most classes can be taken in any order, provided that instructor permission is obtained.

This certificate is designed for students planning to enter their chosen career upon graduation. Often only selected credits are considered transferable to public or private baccalaureate institutions. Prior to starting any MATC program, students are advised to contact the institution to which they intend to transfer and identify what credits may be transferable.

## Manufacturing Technology II Certificate of Completion

### PROGRAM DESCRIPTION

The Manufacturing Technology two-year certificate of completion program is a self-directed, outcome-based program designed to prepare students for technician-level employment in a variety of manufacturing environments.

### PROGRAM COSTS

(beyond standard tuition/fees and textbooks)

#### Material Costs

- Welding personal protective equipment and tools, approximately \$400

#### Enrollment Fees

- Fees on specific MFG courses (estimate \$1100 total)

### PROGRAM ENTRANCE REQUIREMENTS

#### Academic Entrance Requirements

- Recommended:
  - High school diploma or GED
  - Minimum placement scores resulting in MTH 020 Pre-Algebra placement or prior completion of MTH 010 Developmental Mathematics or higher ("C" or higher)
  - Successful completion of or current enrollment in MATC new-student orientation class MFG 100 MATC Orientation
  - Recommended completion of CIS 070 Intro to Computers: Windows or equivalent skills

### PROGRAM PERFORMANCE STANDARDS

#### Academic Requirements

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses in the program must be completed with a grade of C or higher.

### PROGRAM COURSE REQUIREMENTS

#### Core Courses<sup>1</sup>

MFG 100	MATC Orientation	1
MFG 101	Blueprint Reading	2
MFG 103	Welding Technology I	3
MFG 105	Welding Technology II	3
MFG 107	Welding Technology III	3
MFG 109	Lean Practices	2
MFG 110	Manufacturing Processes I	3
MFG 112	Manufacturing Processes II	3
MFG 114	Manufacturing Processes III	3
MFG 115	Design Processes I	2
MFG 116	Manufacturing Electrical Systems	2
MFG 118	Fluid Power Systems I	2
MFG 133	Quality Assurance	3
MFG 160	Materials Engineering	2

#### Manufacturing Electives:<sup>1</sup>

Choose at least 38 credits from the list below: 38  
 Recommend: CIS 135S1, MFG 102, MFG 201, MFG 202, MFG 203, MFG 205, MFG 210, MFG 211, MFG 213, MFG 214, MFG 216, MFG 230, MFG 232, MFG 234, MFG 236, MFG 238, MFG 239, MFG 241,

MFG 242, MFG 243, MFG 244, MFG 245, MFG 246, MFG 250, MFG 254, MFG 262, MFG 264, MFG 266, MFG 267, MFG 271, MFG 272, MFG 273, MFG 274, MFG 275, MFG 276, MFG 281, MFG 282, MFG 283, MFG 284, MFG 285, MFG 286, MFG 287, MFG 288, MFG 289, MFG 290, MFG 291

#### Other Required Courses

BA 285	Business Human Relations	3
or PSY 101	Applied Psychology	
or SP 218	Interpersonal Communication	
CIS 070	Intro to Computers: Windows (or higher)	2
MTH 085	Technical Mathematics I (or higher)	4
WR 060	Rhetoric/Critical Thinking I (or higher)	4

**Total Credits 85**

<sup>1</sup> Most manufacturing courses carry a \$25-\$75 fee to cover software or lab materials (see class schedule for individual courses and fees).

### ADVISING NOTES

Nearly all MATC courses are self-directed, outcome-based curricula. This provides students with a greater degree of flexibility than most other COCC programs. The MATC hours of operation provide students with ample time to complete their coursework during a term.

Upon starting their program, students review their desired certificate or degree outcome with their advisor and a sequence of coursework is identified for them. With the exception of classes in a series (e.g. Manufacturing Processes I, II, III) or those with specific prerequisites (as identified in the catalog) most classes can be taken in any order, provided that instructor permission is obtained.

This certificate is designed for students planning to enter their chosen career upon graduation. Often only selected credits are considered transferable to public or private baccalaureate institutions. Prior to starting any MATC program, students are advised to contact the institution to which they intend to transfer and identify what credits may be transferable.

## Quality Assurance Certificate of Completion

### PROGRAM DESCRIPTION

The Quality Assurance one-year certificate of completion program is a self-directed, outcome-based program designed to prepare students for technician-level employment in manufacturing in the quality assurance field.

### PROGRAM COSTS

(beyond standard tuition/fees and textbooks)

#### Material Costs

- Welding personal protective equipment and tools, approximately \$400

#### Enrollment Fees

- Fees on specific MFG courses (\$260 total)

### PROGRAM ENTRANCE REQUIREMENTS

#### Academic Entrance Requirements

- Recommended:
  - High school diploma or GED
  - Minimum placement scores resulting in MTH 020 Pre-Algebra placement or prior completion of MTH 010 Developmental Mathematics or higher ("C" or better)
  - Successful completion of or current enrollment in MATC new-student orientation class MFG 100 MATC Orientation
  - Recommended completion of CIS 070 Intro to Computers: Windows or equivalent skills

### PROGRAM PERFORMANCE STANDARDS

#### Academic Requirements

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.

- All courses in the program must be completed with a grade of C or higher.

**PROGRAM COURSE REQUIREMENTS**

**Core Courses<sup>1</sup>**

MFG 100	MATC Orientation	1
MFG 101	Blueprint Reading	2
MFG 102	Blueprint Reading Sheet Metal	2
MFG 103	Welding Technology I	3
MFG 109	Lean Practices	2
MFG 110	Manufacturing Processes I	3
MFG 112	Manufacturing Processes II	3
MFG 115	Design Processes I	2
MFG 133	Quality Assurance	3
MFG 160	Materials Engineering	2
MFG 202	Metals Preparation	2
MFG 203	Layout	2
MFG 238	Optical Comparator	1
MFG 239	Coordinate Measurement Machine	1
MFG 254	Manufacturing Jigs and Fixtures	2
MFG 262	Welding Inspection/Quality Control	2

**Other Required Courses**

CIS 070	Intro to Computers: Windows (or higher)	2
MTH 085	Technical Mathematics I (or higher)	4
WR 060	Rhetoric/Critical Thinking I (or higher)	4

**Total Credits 43**

<sup>1</sup> Most manufacturing courses carry a \$25-\$75 fee to cover software or lab materials (see class schedule for individual courses and fees).

**ADVISING NOTES**

Nearly all MATC courses are self-directed, outcome-based curricula. This provides students with a greater degree of flexibility than most other COCC programs. The MATC hours of operation provide students with ample time to complete their coursework during a term.

Upon starting their program, students review their desired certificate or degree outcome with their advisor and a sequence of coursework is identified for them. With the exception of classes in a series (e.g. Manufacturing Processes I, II, III) or those with specific prerequisites (as identified in the catalog) most classes can be taken in any order, provided that instructor permission is obtained.

This certificate is designed for students planning to enter their chosen career upon graduation. Often only selected credits are considered transferable to public or private baccalaureate institutions. Prior to starting any MATC program, students are advised to contact the institution to which they intend to transfer and identify what credits may be transferable.

**Welding**  
Certificate of Completion

**PROGRAM DESCRIPTION**

The Welding one-year certificate of completion program is a self-directed, outcome-based program designed to prepare students for technician-level employment in manufacturing environments using welding equipment.

**PROGRAM COSTS**

(beyond standard tuition/fees and textbooks)

**Material Costs**

- Welding personal protective equipment and tools, approximately \$400

**Enrollment Fees**

- Fees on specific MFG courses (\$740 total)

**PROGRAM ENTRANCE REQUIREMENTS**

**Academic Entrance Requirements**

- Recommended:
  - High school diploma or GED
  - Minimum placement scores resulting in MTH 020 Pre-Algebra placement or prior completion of MTH 010 Developmental Mathematics or higher ("C" or higher)
  - Successful completion of or current enrollment in MATC new-student orientation class MFG 100 MATC Orientation
  - Recommended completion of CIS 070 Intro to Computers: Windows or equivalent skills

**PROGRAM PERFORMANCE STANDARDS**

**Academic Requirements**

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses in the program must be completed with a grade of C or higher.

**PROGRAM COURSE REQUIREMENTS**

**Core Courses<sup>1</sup>**

MFG 100	MATC Orientation	1
MFG 101	Blueprint Reading	2
MFG 103	Welding Technology I	3
MFG 105	Welding Technology II	3
MFG 107	Welding Technology III	3
MFG 110	Manufacturing Processes I	3
MFG 202	Metals Preparation	2
MFG 262	Welding Inspection/Quality Control	2
MFG 267	Oxygen-Fuel and Plasma Cutting	2
MFG 271	SMAW I	2
MFG 272	GMAW I	2
MFG 273	SMAW II	2
MFG 274	GMAW II	2
MFG 281	GTAW I	2
MFG 282	FCAW I	2
MFG 283	GTAW II	2
MFG 284	FCAW II	2

**Other Required Courses**

MTH 085	Technical Mathematics I (or higher)	4
WR 060	Rhetoric/Critical Thinking I (or higher)	4

**Total Credits 45**

<sup>1</sup> Most manufacturing courses carry a \$25-\$75 fee to cover software or lab materials (see class schedule for individual courses and fees).

**ADVISING NOTES**

Nearly all MATC courses are self-directed, outcome-based curricula. This provides students with a greater degree of flexibility than most other COCC programs. The MATC hours of operation provide students with ample time to complete their coursework during a term.

Upon starting their program, students review their desired certificate or degree outcome with their advisor and a sequence of coursework is identified for them. With the exception of classes in a series (e.g. Manufacturing Processes I, II, III) or those with specific prerequisites (as identified in the catalog) most classes can be taken in any order, provided that instructor permission is obtained.

This certificate is designed for students planning to enter their chosen career upon graduation. Often only selected credits are considered transferable to public or private baccalaureate institutions. Prior to starting any MATC program, students are advised to contact the institution to which they intend to transfer and identify what credits may be transferable.

# MASSAGE THERAPY

## Massage Therapy

Associate of Applied Science

### PROGRAM DESCRIPTION

The Massage Therapy program focuses on integrating the sciences relating to the human body with the theories and practice of massage therapy. Massage therapy students develop many skills that include a variety of massage techniques and modalities, methods to maintain client and business records, understanding the importance of client/practitioner boundaries, client communication skills and the use of universal sanitation practices.

The Associate of Applied Science (AAS) degree includes the Certificate of Completion in massage therapy and will qualify a student to sit for the licensing exams as required by the Oregon Board of Massage Therapists. The AAS builds skills for graduates to perform a wide variety of massage therapy modalities as well as business competencies.

### ACCREDITATION

Commission on Massage Therapy Accreditation (COMTA)

### PROGRAM COSTS

(beyond standard tuition/fees and textbooks)

#### Material Costs

- Massage table (\$400-\$700)
- Black COCC logo polo shirt (\$40)

#### Enrollment Fees

- \$17 per credit for first year LMT prefix courses
- \$25 per credit for all other LMT prefix courses

### PROGRAM ENTRANCE REQUIREMENTS

#### Academic Entrance Requirements

- Required:
  - Minimum placement score into MTH 020 Pre-Algebra or complete MTH 010 Developmental Mathematics or higher ("C" or better)
  - Minimum placement scores resulting in WR 121 Academic Composition placement or completion of WR 065 Rhetoric/Critical Thinking II/WR 095 Basic Writing II ("C" or better)
- Recommended:
  - BI 121 Anatomy and Function I or BI 122 Anatomy and Function II, or BI 231 Human Anatomy and Physiology I

#### Other Entrance Requirements

- Required:
  - Must be a minimum of 18 years of age
  - Earned high school diploma or GED

### PROGRAM PERFORMANCE STANDARDS

#### Academic Requirements

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses in the program must be completed with a grade of C or higher.

#### Additional Requirements

- Verification of contact hours is required by the Oregon Board of Massage Therapists licensing requirements. Students must meet the Oregon Board of Massage Therapists attendance requirement of 90% contact hour completion for each LMT course contact hours as identified on all LMT course syllabi.
- Students are required to adhere to the professional conduct standards outlined within the student handbook.

### PROGRAM COURSE REQUIREMENTS

#### Core Courses

Choose one option from the following:

8-12

#### Option 1:

BI 121	Anatomy and Function I
& BI 122	Anatomy and Function II

#### Option 2:

BI 231	Human Anatomy and Physiology I
& BI 232	Human Anatomy and Physiology II
& BI 233	Human Anatomy and Physiology III

BA 214	Business Communications	3
CIS 120	Computer Concepts (or Computer Competency Test)	0-4
LMT 113	Kinesiology: Massage Ther I	4
LMT 118	Kinesiology for Massage Therapy II	4
LMT 124	Kinesiology for Massage Therapy III	4
LMT 130	Massage Fundamentals	2
LMT 135	Managing a Massage Practice	3
LMT 140	Pathology for Massage Therapy	4
LMT 145	Massage I	4
LMT 150	Massage II	4
LMT 155	Eastern Theory & Practice	2
LMT 160	Hydrotherapy	1
LMT 170	Professional Ethics & Rules	2
LMT 175	Swedish Relaxation Clinic	2
LMT 180	Therapeutic Clinic	3
LMT 200	Level Electives	17
LMT 210	Community Outreach	2
LMT 245	Effective Office Decisions	2

#### Other Required Courses

Two Courses from the Discipline Studies List

6-10

Choose one of the following:

3-4

HHP 252A Fitness/First Aid or

Any one course listed below and an activity/health module:

HHP 231	Human Sexuality	
HHP 242	Stress Management	
HHP 258	Holistic Wellness	
HHP 266	Nutrition for Health	
HHP 295	Health and Fitness	
MTH 020	Pre-Algebra (or higher)	4
SP 218	Interpersonal Communication	3
or BA 178	Customer Service	
WR 121	Academic Composition	4

**Total Credits 91-104**

### ADVISING NOTES

Students are offered two opportunities to enter the Massage Therapy program each year including a Fall day-program start and a Spring evening-program start. Each program start requires the block of courses to be completed before moving to the next sequence of related courses. Students may take non-massage therapy courses (any course that does not begin with a LMT prefix) at any time prior to enrollment into the LMT program or during enrollment in the LMT program if time is available.

## Massage Therapy Certificate of Completion

### PROGRAM DESCRIPTION

The Massage Therapy program focuses on integrating the sciences relating to the human body with the theories and practice of massage therapy. Massage therapy students develop many skills that include a variety of massage techniques and modalities, methods to maintain client and business records, understanding the importance of client/practitioner boundaries, client communication skills and the use of universal sanitation practices.

**ACCREDITATION**

Commission on Massage Therapy Accreditation (COMTA)

**PROGRAM COSTS**

(beyond standard tuition/fees and textbooks)

**Material Costs**

- Massage table (\$400-\$700)
- Black COCC logo polo shirt (\$40)

**Enrollment Fees**

- \$17 per credit for first year LMT prefix courses
- \$25 per credit for all other LMT prefix courses

**PROGRAM ENTRANCE REQUIREMENTS**

**Academic Entrance Requirements**

- Required:
  - Minimum placement score into MTH 020 Pre-Algebra or complete MTH 010 Developmental Mathematics or higher (“C” or better)
  - Minimum placement scores resulting in WR 121 Academic Composition placement or completion of WR 065 Rhetoric/Critical Thinking II/WR 095 Basic Writing II (“C” or better)
- Recommended:
  - BI 121 Anatomy and Function I or BI 122 Anatomy and Function II, or BI 231 Human Anatomy and Physiology I.

**Other Entrance Requirements**

- Required:
  - Must be a minimum of 18 years of age
  - Earned high school diploma or GED

**PROGRAM PERFORMANCE STANDARDS**

**Academic Requirements**

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses in the program must be completed with a grade of C or higher.

**Additional Requirements**

- Verification of contact hours is required by the Oregon Board of Massage Therapists licensing requirements. Students must meet the Oregon Board of Massage Therapists attendance requirement of 90% contact hour completion for each LMT course contact hours as identified on all LMT course syllabi.
- Students must adhere to the professional conduct standards outlined within the student handbook.

**PROGRAM COURSE REQUIREMENTS**

**Core Courses**

Choose one option from the following: 8-12

**Option 1:**

BI 121	Anatomy and Function I
& BI 122	Anatomy and Function II

**Option 2:**

BI 231	Human Anatomy and Physiology I
& BI 232	Human Anatomy and Physiology II
& BI 233	Human Anatomy and Physiology III

LMT 113	Kinesiology: Massage Ther I	4
LMT 118	Kinesiology for Massage Therapy II	4
LMT 124	Kinesiology for Massage Therapy III	4
LMT 130	Massage Fundamentals	2
LMT 135	Managing a Massage Practice	3
LMT 140	Pathology for Massage Therapy	4
LMT 145	Massage I	4
LMT 150	Massage II	4
LMT 155	Eastern Theory & Practice	2
LMT 160	Hydrotherapy	1
LMT 170	Professional Ethics & Rules	2
LMT 175	Swedish Relaxation Clinic	2
LMT 180	Therapeutic Clinic	3

**Other Required Courses**

MTH 020	Pre-Algebra (or higher)	4
SP 218	Interpersonal Communication	3
or BA 178	Customer Service	
WR 121	Academic Composition	4
		<b>Total Credits 58-62</b>

**ADVISING NOTES**

Students are offered two opportunities to enter the Massage Therapy program each year including a Fall day-program start and a Spring evening-program start. Each program start requires the block of courses to be completed before moving to the next sequence of related courses. Students may take non-massage therapy courses (any course that does not begin with a LMT prefix) at any time prior to enrollment into the LMT program or during enrollment in the LMT program if time is available.

**MATHEMATICS**

**Mathematics**

**Associate of Arts Oregon Transfer**

**FOCUS AREA DESCRIPTION**

The study of mathematics develops analytic and quantitative skills which are valuable in today’s data-driven economy. The Associate of Arts Oregon Transfer (AAOT) with a focus in mathematics includes courses that are commonly required for a math major and meets lower division general education requirements at all Oregon public universities. A bachelor’s degree with a major in math is great preparation for graduate school (such as schools of law, medicine, education, or business) as well as direct employment in industry, government, research and business.

**PROGRAM ENTRANCE REQUIREMENTS**

None

**PROGRAM PERFORMANCE STANDARDS**

**Academic Requirements**

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses in the program must be completed with a grade of C or higher.

**PROGRAM COURSE REQUIREMENTS**

**General Education/Foundational**

<b>Health</b>	
3 credits with HHP or HHPA prefix <sup>1</sup>	3

**Mathematics**

MTH 105	Math in Society (or higher)	4
---------	-----------------------------	---

**Oral Communication**

Choose one course from the following:	3-4
SP 111	Fundamentals Public Speaking
SP 114	Argumentation & Discourse
SP 115	Intro Intercultural Commun
SP 218	Interpersonal Communication
SP 219	Small Group Communication

**Writing**

WR 121	Academic Composition	4
WR 122	Argument, Research and Multimodal Composition	4
or WR 227	Technical Writing	

**General Education/Discipline Studies**

One course must be designated as Cultural Literacy.

**Arts and Letters**

Choose at least three courses from at least two prefixes 9-12

**Social Science**

Choose at least four courses from at least two prefixes 12-16

**Science/Math/Computer Science** 12-20  
 Choose at least four courses from at least two prefixes including at least three laboratory courses in biological and/or physical science  
 Recommend: MTH 112, PH 211, PH 212, PH 213

**Electives** 39  
 Choose enough electives to reach the 90 minimum required credits.  
 Recommend: CIS 122, MTH 113, MTH 231, MTH 243, MTH 244, MTH 251, MTH 252, MTH 253, MTH 254, MTH 255, MTH 256<sup>2</sup>

**Total Credits 90-106**

<sup>1</sup> HHPA activity courses (1 credit each) are not to be duplicated  
<sup>2</sup> Related courses to consider: CIS 120 Computer Concepts, MTH 105 Math in Society, MTH 245 Mathematics for Management, Life and Social Sciences.

## MEDICAL ASSISTANT

### Medical Assistant Certificate of Completion

#### PROGRAM DESCRIPTION

The Medical Assistant program is a five- to six-term program that trains individuals to assist with clinical and administrative procedures in outpatient medical settings under the direction of a health care provider. Medical Assistant program courses begin once per year in the Fall. All program courses offered each term must be taken together and in sequence. Upon successful completion of the program, students receive a certificate of completion from COCC and are eligible to submit an application to sit for the AAMA Certified Medical Assistant (CMA) certification examination. Upon passing the AAMA exam, medical assistants earn the CMA.

#### ACCREDITATION

The Central Oregon Community College Medical Assistant Program is accredited by the Commission on Accreditation of Allied Health Education Programs, CAAHEP, upon the recommendation of the Medical Assisting Education Review Board, MAERB.

Commission on Accreditation of Allied Health Education Programs  
 25400 US Highway 19 North, Suite 158  
 Clearwater, FL 33763  
 caahep.org | 727.210.2350

#### PROGRAM COSTS

(beyond standard tuition/fees and textbooks)

##### Material Costs

Due to the rapidly changing nature of health care and associated costs, the following are only estimates and are subject to change.

- Stethoscope \$30
- Blood pressure cuff \$20
- Uniform and watch with second hand \$75
- Books average \$200-300 per term (will be more during first term of core MA courses, but generally less during subsequent terms)
- Course and lab packets \$15 per term
- Immunizations & titers \$0-685 (some may be covered by insurance or subsidized by other funding sources)
- Immunizations tracking \$10
- Criminal background check \$65
- Urine drug screen \$45

##### Enrollment Fee

- Lab fees \$ 660

#### PROGRAM ENTRANCE REQUIREMENTS

##### Academic Entrance Requirements

- Required:
  - A high school diploma, GED, or a high school transcript noting successful graduation
  - Completion of all prerequisite classes with a grade of "C" or better.

##### Other Entrance Requirements

- Required:
  - Must be 18 years of age or older
  - Criminal History Check and 10-Panel Drug Screen with vendor chosen by COCC. See [cocc.edu/programs/medical-assistant](http://cocc.edu/programs/medical-assistant) for more details.
  - Documentation of current immunizations: TB Blood Titer, MMR, Hep B, Varicella, Tdap, Flu
  - American Heart Association or American Red Cross "Basic Life Support for Healthcare Providers" CPR (BLS) and first aid training will need to be completed prior to entrance into practicum if not completed in MA140. Students will be given the option to complete both CPR and first aid certification in MA140.
  - Additional immunizations or background checks may be required by practicum sites at the student's expense.
  - Refer to [cocc.edu/programs/medical-assistant](http://cocc.edu/programs/medical-assistant) for program technical standards (physical, medical, safety and other requirements that an individual must meet in order to be eligible for admission).

#### PROGRAM PERFORMANCE STANDARDS

##### Academic Requirements

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses in the program must be completed with a grade of C or higher.

##### Additional Requirements

- Students must maintain an average of 75% on tests and 75% overall in each class to progress to subsequent core program classes. Students must pass 75% of lab skills check-offs on the first attempt to progress to subsequent core program classes. Students must demonstrate medication administration proficiency through a high score on a drug calculation exam prior to entering practicum. Students must complete 100% of psychomotor and affective competencies as identified by the program's accrediting body and complete a minimum of 160 hours of practicum to complete the program.

#### PROGRAM COURSE REQUIREMENTS

##### Prerequisite Courses

AH 111	Medical Terminology I	3
AH 112	Medical Terminology II	3
AH 113	Introduction Study of Disease	5
	Choose one option from the following:	8-12
Option 1:		
BI 121	Anatomy and Function I	
& BI 122	Anatomy and Function II	

##### Option 2:

BI 231	Human Anatomy and Physiology I	
& BI 232	Human Anatomy and Physiology II	
& BI 233	Human Anatomy and Physiology III	

CIS 120	Computer Concepts (or Computer Competency Test)	0-4
MTH 095	Intermediate Algebra	4
SP 218	Interpersonal Communication	3
WR 121	Academic Composition	4

##### Other Required Courses

CIS 010	Computer Keyboarding	1
---------	----------------------	---

##### Core Courses

MA 110	Introduction to Clinical Medical Assisting	7
MA 111	Introduction to Professional Medical Assisting	5
MA 120	Clinical Medical Assisting II	7
MA 121	Administrative Medical Assisting	5
MA 137	Application of Professional Medical Assisting	4
MA 140	Nutrition, CPR and First Aid for Medical Assistants	3
MA 147	Medical Assisting Practicum	5
MA 150	Pharmacology for Medical Assistants	3

**Total Credits 70-78**



**ADVISING NOTES**

Program (MA) courses begin once per year in fall term. Students wishing to register in the fall MA cohort must meet the basic prerequisite competencies and may register according to seat availability on a first-come, first-served basis, determined by the priority registration schedule.

Students who leave or are dropped from the program may re-enter the next fall with the permission of the program director. In rare cases, a student may re-enter at a different point in the program on a space available basis and with permission from the director of the program. Students may be required to repeat demonstrations of previous competencies to ensure they retained the required skills and knowledge to progress in the program.

This certificate is designed for students planning to enter their chosen career upon graduation. Often, only selected credits are considered transferable to public or private baccalaureate institutions.

# MUSIC

## Music

Associate of Arts Oregon Transfer

**FOCUS AREA DESCRIPTION**

The mission of COCC’s Music program is to provide the opportunity for music majors pursuing a transfer degree (and those simply interested in music) to take the core courses that are typically required in the first two years of a bachelor’s of music program. This includes music fundamentals, class piano, two years of music theory and musicianship and a listening-based class called Understanding Music. Additionally, most music schools require participation in a major ensemble and private lessons in voice or instrument every term. To that end, we have no fewer than six ensembles in which a student can participate, including the Cascade Chorale, College Choir, Central Singers, Big Band Jazz, Cascade Winds Symphonic Band and Central Oregon Symphony.

**PROGRAM ENTRANCE REQUIREMENTS**

None

**PROGRAM PERFORMANCE STANDARDS**

**Academic Requirements**

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses in the program must be completed with a grade of C or higher.

**PROGRAM COURSE REQUIREMENTS**

**General Education/Foundation**

**Health**

3 credits with HHP or HHPA prefix<sup>1</sup> 3

**Mathematics**

MTH 105 Math in Society (or higher) 4

**Oral Communication**

Choose one course from the following: 3-4

- SP 111 Fundamentals Public Speaking
- SP 114 Argumentation & Discourse
- SP 115 Intro Intercultural Commun
- SP 218 Interpersonal Communication
- SP 219 Small Group Communication

**Writing**

WR 121 Academic Composition 4  
 WR 122 Argument, Research and Multimodal Composition 4  
 or WR 227 Technical Writing

**General Education/Discipline Studies**

One course must be designated as Cultural Literacy.

**Arts and Letters**

9-12

Choose at least three courses from at least two prefixes  
 Recommend: MUS 101, MUS 201, MUS 111<sup>2</sup>

**Social Science**

12-16

Choose at least four courses from at least two prefixes

**Science/Math/Computer Science**

12-20

Choose at least four courses from at least two prefixes including at least three laboratory courses in biological and/or physical science

**Electives**

39

Choose enough electives to reach the minimum of 90 credits for the AAOT<sup>3</sup>

**Total Credits 90-106**

<sup>1</sup> HHPA activity courses (1 credit each) are not to be duplicated.

<sup>2</sup> Additional MUS courses are related courses to consider and will be applied to the AAOT as elective credits.

<sup>3</sup> Music majors should participate in a performing ensemble each term and take Musicianship IA, IB, IC, IIA, IIB and IIC, Music Theory IA, IB, IC, IIA, IIB and IIC and have proficient keyboard skills, which can be gained by taking Piano Class I, II and III.

**ADVISING NOTES**

MUS 201 Understanding Music, MUS 202 Understanding Music and MUS 203 Understanding Music, while not required, are excellent survey courses of music history, providing a solid background for future in-depth studies of music history.

Private lessons, (applied voice, violin, trombone, et cetera), while not required for the AAOT degree, are an integral part of the music major. Studying with a private teacher will foster individual growth, technique development, provide a solid background in solo repertoire, proper language enunciation as well as in-depth studies of music genres. A second year of a world language is also recommended.

All music schools have slightly different requirements and expectations of their music majors. While it is true that an Oregon college or university will accept the AAOT degree as a package, which allows students to transfer with junior class status, most music schools will not accept a direct transfer of credits for courses intended specifically for music majors, such as Music Theory. Instead, they will test students upon arrival to see what they have learned in their previous courses and then place them at the appropriate level for their program. It has been our experience that students who perform well in COCC music theory and musicianship courses regularly meet or exceed the requirements to continue on with the next level of study at the transfer institution (i.e., students who have completed the first year of theory typically test into the second year of theory at their new school).

# NURSING

## Nursing

Associate of Arts Oregon Transfer

**FOCUS AREA DESCRIPTION**

COCC students may choose from several paths to transfer into upper-division Bachelor of Science in Nursing (BSN) programs. This AAOT path includes nursing school prerequisites for applying to the majority of Oregon’s BSN programs.

**PROGRAM ENTRANCE REQUIREMENTS**

None

**PROGRAM PERFORMANCE STANDARDS**

**Academic Requirements**

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses in the program must be completed with a grade of C or higher.

**PROGRAM COURSE REQUIREMENTS****General Education/Foundational****Health**

3 credits with HHP or HHPA Prefix<sup>1</sup> 3  
 Recommend: HHP 295

**Mathematics**

MTH 105 Math in Society (or higher) 4  
 Recommend: MTH 111

**Oral Communication**

Choose one course from the following: 3-4  
 SP 111 Fundamentals Public Speaking  
 SP 114 Argumentation & Discourse  
 SP 115 Intro Intercultural Commun  
 SP 218 Interpersonal Communication  
 SP 219 Small Group Communication

**Writing**

WR 121 Academic Composition 4  
 WR 122 Argument, Research and Multimodal Composition 4  
 or WR 227 Technical Writing

**General Education/Discipline Studies**

One course must be designated as Cultural Literacy.

**Arts and Letters**

Choose at least three courses from at least two prefixes 9-12  
 Recommend: ARH 201 or ARH 202 or ARH 203, ENG 107  
 or ENG 108 or ENG 109, PHL 202

**Social Science**

Choose at least four courses from at least two prefixes 12-16  
 Recommend: ANTH 103, PSY 201, PSY 215, SOC 201

**Science/Math/Computer Science**

Choose at least four courses from at least two prefixes including at least 12-20  
 three laboratory courses in biological and/or physical science  
 Recommend: BI 231, BI 232, BI 233, FN 225 or HHP 240

**Electives**

Choose enough elective credits to reach a minimum 39  
 total of 90 overall degree credits<sup>2</sup>  
 Recommend: BI 101, BI 234, CH 104, CIS 120, MTH 243

**Total Credits 90-106**

<sup>1</sup> HHPA activity courses (1 credit each) are not to be duplicated.

<sup>2</sup> Students should take two terms of the same world language. Students who completed two years of the same world language in high school with a "C" or better, may choose 8 elective credits numbered 100+ instead of world language.

**ADVISING NOTES**

Oregon has six baccalaureate degree programs (offered at nine universities or colleges). For specific information, contact the school. The following programs are approved by the Oregon State Board of Nursing.

Concordia University  
[cu-portland.edu/hhs/undergraduate/nursing](http://cu-portland.edu/hhs/undergraduate/nursing)

George Fox University  
[georgefox.edu/academics/undergrad/departments/nursing/index.html](http://georgefox.edu/academics/undergrad/departments/nursing/index.html)

Linfield-Good Samaritan School of Nursing  
[linfield.edu/portland](http://linfield.edu/portland) - also offers an online RN-to-BSN program

Oregon Health & Science University (OHSU) School of Nursing-Portland  
[ohsu.edu/xd/education/schools/school-of-nursing](http://ohsu.edu/xd/education/schools/school-of-nursing)

OHSU School of Nursing at Eastern Oregon University  
[eou.edu/ohsu](http://eou.edu/ohsu)

OHSU School of Nursing at Oregon Institute of Technology  
[oit.edu/academics/degrees/nursing](http://oit.edu/academics/degrees/nursing)

OHSU School of Nursing at Southern Oregon University  
[ohsu.edu/xd/education/schools/school-of-nursing/about/campuses/ashland-campus-page.cfm](http://ohsu.edu/xd/education/schools/school-of-nursing/about/campuses/ashland-campus-page.cfm)

OHSU School of Nursing at Western Oregon University  
[ohsu.edu/xd/education/schools/school-of-nursing/about/campuses/monmouth-campus.cfm](http://ohsu.edu/xd/education/schools/school-of-nursing/about/campuses/monmouth-campus.cfm)

University of Portland School of Nursing  
[nursing.up.edu](http://nursing.up.edu)

Walla Walla University School of Nursing  
[wallawalla.edu/nursing](http://wallawalla.edu/nursing)

**Nursing (RN)****Associate of Applied Science****PROGRAM DESCRIPTION**

Students enrolled in Nursing can exit after the first year with preparation to be a practical nurse (PN) or after the second year with preparation to be a registered nurse (RN). The Practical Nursing certificate qualifies students to take the NCLEX-PN national licensure examination and apply for licensure as a practical nurse (PN) from a State Board of Nursing. Students who successfully complete the first year of nursing courses may continue into the RN sequence of courses without additional application requirements.

**PROGRAM COSTS**

(beyond standard tuition/fees and textbooks)

**Material Costs**

- Nursing textbooks and online resources \$1,750
- Specialized clothing or uniform \$150
- Tools and equipment \$80
- State exam/licensure fee \$520 (\$160 LPN-OR, \$160 RN-OR, \$200 NCLEX exam cost)
- State fingerprinting fee \$129 (\$64.50 LPN, \$64.50 RN)
- Background check and drug screen (VCI) \$120
- Immunizations and screenings (VCI) \$300
- CPR certification \$50

**Enrollment Fees**

- Nursing courses \$450 per term fee

**PROGRAM ENTRANCE REQUIREMENTS****Academic Entrance Requirements**

- Required:
  - Selective admission, see website for more details.
  - Nursing program application, scores from the Test of Essential Academic Skills (TEAS-V)<sup>™</sup>, scores from the Health Science Reasoning Test—Associate Degree (HSRT—AD) test and completion of program prerequisite courses.
  - Applications are accepted annually during Spring term for admission to the Nursing program the following Fall term.
- Must be completed with a "C" grade or better, with a cumulative GPA of 3.0 or higher:
  - BI 231 Human Anatomy and Physiology I
  - BI 232 Human Anatomy and Physiology II
  - BI 233 Human Anatomy and Physiology III
  - BI 234 Microbiology
  - MTH 105 Math in Society (or higher)
  - WR 121 Academic Composition
  - CIS 120 Computer Concepts or Computer Competency Test
  - Chemistry, Biology (Anatomy and Physiology and Microbiology) and Computer and Information Systems courses must be no older than five years at the time of application.
- Recommended:
  - Students are recommended to complete the following courses prior to admission to be better prepared for nursing courses and because points are awarded for completion of these additional courses during

the application process. Students must complete these courses with a "C" grade or better.

- CH 104 Introduction to Chemistry I or CH 221 General Chemistry I
- FN 225 Human Nutrition or HHP 240 Science of Nutrition
- PSY 215 Developmental Psychology
- WR 122 Argument, Research and Multimodal Composition or WR 227 Technical Writing

**Other Entrance Requirements**

- Required:
  - Must have in-district residency status
  - Must provide documentation of completion of immunizations and screenings listed on the nursing website.
  - Must have current Healthcare provider CPR certification (and must be maintained throughout the duration of the program).
  - Complete Criminal History Checks (CHC) as a condition of their acceptance into the Nursing program; see website for details.
  - Must complete a 10 panel urine drug screen with Verified Credentials, Inc.

**PROGRAM PERFORMANCE STANDARDS**

**Academic Requirement**

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses in the program must be completed with a grade of C or higher.
- Greater than or equal to a 3.0 cumulative GPA for BI 231 Human Anatomy and Physiology I, BI 232 Human Anatomy and Physiology II, BI 233 Human Anatomy and Physiology III, BI 234 Microbiology, WR 121 Academic Composition and MTH 105 Math in Society (or higher).
- Once admitted to the Nursing program, students must pass Nursing Theory greater than or equal to a 76.55 percent or 77 percent to pass the Nursing course and pass practicum (LRC and Clinical) to remain in the Nursing program.

**Additional Requirements**

- Must adhere to the Nurse Practice Act of the state of Oregon.
- Additionally, students are required to consistently meet the outcomes, technical standards, policies and/or safety standards of the program and College. Failure to do so may result in probation or removal from the program. It is the COCC student's responsibility to know and abide by the Nursing Program and College policies including Student Rights and Responsibilities which can be found at [cocc.edu/student-life](http://cocc.edu/student-life).

**PROGRAM COURSE REQUIREMENTS**

**Prerequisite Courses**

BI 231	Human Anatomy and Physiology I	4
BI 232	Human Anatomy and Physiology II	4
BI 233	Human Anatomy and Physiology III	4
BI 234	Microbiology	4
CIS 120	Computer Concepts (or Computer Competency Test)	0-4
MTH 105	Math in Society (or higher)	4
WR 121	Academic Composition	4

**Support Courses**

CH 104	Introduction to Chemistry I	5
or CH 221	General Chemistry I	
FN 225	Human Nutrition	3-4
or HHP 240	Science of Nutrition	
PSY 215	Developmental Psychology	4
WR 122	Argument, Research and Multimodal Composition	4
or WR 227	Technical Writing	

**Core Courses**

NUR 106	Nursing I	12
NUR 107	Nursing II	10
NUR 108	Nursing III	11
NUR 206	Nursing IV	11
NUR 207	Nursing V	10
NUR 208	Nursing VI	9

**Total Credits 103-108**

**ADVISING NOTES**

Students seeking transfer admission into COCC's Nursing program must meet with the pre-admission advisor and advanced placement program coordinator to determine eligibility prior to entry. Students transferring out of COCC should know that often only selected credits from a community college program are considered transferrable to public or private baccalaureate institutions.

**Practical Nursing  
Certificate of Completion**

**PROGRAM DESCRIPTION**

Students enrolled in Nursing can exit after the first year with preparation to be a practical nurse (PN) or after the second year with preparation to be a registered nurse (RN). The Practical Nursing certificate qualifies students to take the NCLEX-PN national licensure examination and apply for licensure as a practical nurse (PN) from a State Board of Nursing. Students who successfully complete the first year of nursing courses may continue into the RN sequence of courses without additional application requirements.

**PROGRAM COSTS**

(beyond standard tuition/fees and textbooks)

**Material Costs**

- Nursing textbooks \$1,500
- Nursing course supplies \$90 first year, \$45 second year
- Specialized clothing or uniform \$150
- Tools and equipment \$80
- State exam/licensure fee \$520 (\$160 LPN-OR, \$160 RN-OR, \$200 NCLEX exam cost)
- State fingerprinting fee \$129 (\$64.50 LPN, \$64.50 RN)
- Background check (VCI) \$55
- Drug screen (VCI) \$45-60
- Immunizations & screenings (VCI) \$300
- CPR certification \$50

**Enrollment Fees**

- Nursing courses \$450 per term fee

**PROGRAM ENTRANCE REQUIREMENTS**

**Academic Entrance Requirements**

- Required:
  - Nursing program application, scores from the Test of Essential Academic Skills (TEAS-V)<sup>™</sup>, short-answer essay questions and completion of program prerequisite courses.
  - Applications are accepted annually during Spring term for admission to the Nursing program the following Fall term.
- Must be completed with a "C" grade or better, with a cumulative GPA of 3.0 or higher:
  - BI 231 Human Anatomy and Physiology I
  - BI 232 Human Anatomy and Physiology II
  - BI 233 Human Anatomy and Physiology III
  - BI 234 Microbiology
  - MTH 105 Math in Society (or higher)
  - WR 121 Academic Composition
  - CIS 120 Computer Concepts or Computer Competency Test
  - Chemistry, Biology (Anatomy and Physiology and Microbiology) and Computer and Information Systems courses must be no older than five years at the time of application.
- Recommended:
  - Students are recommended to complete the following courses prior to admission to be better prepared for nursing courses and because points are awarded for completion of these additional courses during the application process. Students must complete these courses with a "C" grade or better.
  - CH 104 Introduction to Chemistry I or CH 221 General Chemistry I
  - FN 225 Human Nutrition or HHP 240 Science of Nutrition
  - PSY 215 Developmental Psychology

- WR 122 Argument, Research and Multimodal Composition or WR 227 Technical Writing

#### Other Entrance Requirements

- Required:
  - Must have in-district residency status
  - Must provide documentation of completion of immunizations and screenings listed on the website.
  - Must have current Healthcare provider CPR certification (and must be maintained throughout the duration of the program).
  - Complete Criminal History Checks (CHC) as a condition of their acceptance into the Nursing program; see website for details.
  - Must complete a 10 panel urine drug screen with Verified Credentials, Inc.

#### PROGRAM PERFORMANCE STANDARDS

##### Academic Requirements

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses in the program must be completed with a grade of C or higher.
- Greater than or equal to a 3.0 cumulative GPA for BI 231 Human Anatomy and Physiology I, BI 232 Human Anatomy and Physiology II, BI 233 Human Anatomy and Physiology III, BI 234 Microbiology, WR 121 Academic Composition and MTH 105 Math in Society or higher.
- Once admitted to the Nursing program, students must pass Nursing Theory greater than or equal to a 76.55 percent or 77 percent to pass the Nursing course and pass practicum (LRC and Clinical) to remain in the Nursing program.

##### Additional Requirements:

- Must adhere to the Nurse Practice Act of the state of Oregon.
- Additionally, students are required to consistently meet the outcomes, technical standards, policies and/or safety standards of the program and College. Failure to do so may result in probation or removal from the program. It is the COCC student's responsibility to know and abide by the Nursing Program and College policies including Student Rights and Responsibilities which can be found at [cocc.edu/student-life](http://cocc.edu/student-life).

#### PROGRAM COURSE REQUIREMENTS

##### Prerequisite Courses

BI 231	Human Anatomy and Physiology I	4
BI 232	Human Anatomy and Physiology II	4
BI 233	Human Anatomy and Physiology III	4
BI 234	Microbiology	4
CIS 120	Computer Concepts	4
MTH 105	Math in Society (or higher)	4
WR 121	Academic Composition	4

##### Support Courses

PSY 215	Developmental Psychology	4
---------	--------------------------	---

##### Core Courses

NUR 106	Nursing I	12
NUR 107	Nursing II	10
NUR 108	Nursing III	11

**Total Credits 65**

#### ADVISING NOTES

Students seeking transfer admission into COCC's Nursing program must meet with the pre-admission advisor and advanced placement program coordinator to determine eligibility prior to entry. Students transferring out of COCC should know that often only selected credits from a community college program are considered transferrable to public or private baccalaureate institutions.

Upon completion of the COCC Practical Nurse (first year Nursing) certificate program, students may continue to the second year of COCC's Nursing program or seek admission or advanced placement at other Oregon community colleges with whom COCC has partnerships. Articulation agreements are in place for graduates of the AAS degree Nursing program wanting to continue on to a Bachelor of Science in Nursing degree with Linfield College and Oregon Health Sciences

University. Several other universities and colleges in Oregon and Washington offer RN-BSN completion. A co-admission agreement is in place with Linfield College for students admitted to the COCC Nursing program.

## NURSING ASSISTANT

### Nursing Assistant Certificate of Completion

#### PROGRAM DESCRIPTION

The Nursing Assistant program is a three-term program that trains individuals to perform authorized duties of the Nursing Assistant in acute care, sub-acute care and skilled nursing facilities and in other health care settings. Upon successful completion of all required support courses, Nursing Assistant level 1 with successful certification by the Oregon State Board of Nursing and CNA level 2, students are awarded a certificate of completion from COCC. The COCC Nursing Assistant level 1 and CNA level 2 courses are approved by the Oregon State Board of Nursing (971.673.0685 or [oregon.gov/osbn](http://oregon.gov/osbn)).

#### PROGRAM COSTS

(beyond standard tuition/fees and textbooks)

##### Material Costs

- Stethoscope \$30
- Uniform \$30-\$80
- Books \$500 per term
- Course and lab packets \$100 per term
- Immunizations & titers \$600
- Immunizations tracking \$10
- Criminal background check \$55
- Urine drug screen \$45
- Nursing Assistant Competency Examination \$106
- Electronic fingerprinting \$65
- AHA BLS Provider CPR card \$60

#### PROGRAM ENTRANCE REQUIREMENTS

##### Other Entrance Requirements

- Required:
  - Documentation of current immunizations (CDC adult schedule) by the assigned due date.
  - Complete Criminal History Checks (CHC) as a condition of enrollment in NUR 103 Nursing Assistant and NUR 104 CNA Level 2; see website for details.
  - Students must complete a 10-panel urine drug screen, with Verified Credentials, Inc., prior to entry into the Nursing Assistant Program. With the exception of certain prescribed medications, students with a positive drug screen which prevents them from attending clinical, will be disqualified from entering the program. Please refer to the Nursing Assistant Handbook for more detailed information.
  - Successful acquisition of a current American Heart Association (ILCOR compliant) BLS Provider CPR card by the assigned due date.

#### PROGRAM PERFORMANCE STANDARDS

- Academic Requirements
  - Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
  - All courses in the program must be completed with a grade of C or higher.

#### PROGRAM COURSE REQUIREMENTS

##### Core Courses

HD 101	Study Strategies	3
or HD 100CS	College Success	
HD 109	Effective Job Search Strategies	2
HHP 248	Health Psychology	3-4
or HHP 210	Intro to Health Care System	
NUR 103	Nursing Assistant	7

NUR 104	CNA Level 2	6
PSY 215	Developmental Psychology	4

**Other Required Courses**

CIS 120	Computer Concepts (or Computer Competency Test)	0-4
MTH 020	Pre-Algebra <sup>1</sup>	4
or MTH 058	Math Literacy I	
SP 218	Interpersonal Communication	3
WR 065	Rhetoric/Critical Thinking II	4
or WR 121	Academic Composition	

**Total Credits 36-41**

<sup>1</sup> Or higher than MTH 058

**ADVISING NOTES**

This certificate is designed for students planning to enter the workforce upon graduation; most courses are not intended to transfer. However, some courses may be transferable to public or private baccalaureate institutions for students who choose to pursue higher degrees.

The courses in the Nursing Assistant program should be carefully planned. Students must successfully complete NUR 103 before they can enroll in NUR 104. For patient and personnel safety reasons, students are discouraged from working more than 20 hours or working a night shift during the term(s) they are taking NUR 103 and NUR 104. Please contact the Nursing Assistant program director and/or CAP Services for questions regarding the program.

# OUTDOOR LEADERSHIP

## Outdoor Leadership

Associate of Arts Oregon Transfer

**FOCUS AREA DESCRIPTION**

The COCC outdoor leadership program is grounded in the principles of lifelong learning, environmental stewardship, personal growth and leadership. The program emphasizes experiential methodologies to combine theory and practice in a strong field-based curriculum. Students will develop current and accepted skills, understand comprehensive knowledge and standards in the professional field, while being taught by highly skilled and knowledgeable faculty who exemplify the highest level of standards, integrity and ethics.

The general area of outdoor leadership includes specific careers in outdoor recreation, outdoor education, wilderness therapy and tourism and leisure enterprises. A student can earn an AAOT or AS degree with a focus in outdoor leadership at COCC to prepare to transfer to a baccalaureate institution to pursue a higher degree in any one of the areas mentioned above.

**PROGRAM ENTRANCE REQUIREMENTS**

None

**PROGRAM PERFORMANCE STANDARDS**

**Academic Requirements**

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses in the program must be completed with a grade of C or higher.

**PROGRAM COURSE REQUIREMENTS**

**General Education/Foundational**

**Health**

3 credits with HHP or HHPA prefix <sup>1</sup>	3
--	---

**Mathematics**

MTH 105 Math in Society (or higher)	4
-------------------------------------	---

**Oral Communication**

Choose one course from the following: 3-4

SP 111	Fundamentals Public Speaking	
SP 114	Argumentation & Discourse	
SP 115	Intro Intercultural Commun	
SP 218	Interpersonal Communication	
SP 219	Small Group Communication	

**Writing**

WR 121	Academic Composition	4
WR 122	Argument, Research and Multimodal Composition	4
or WR 227	Technical Writing	

**General Education/Discipline Studies**

One course must be designated as Cultural Literacy.

**Arts and Letters**

Choose at least three courses from at least two prefixes 9-12

**Social Science**

Choose at least four courses from at least two prefixes 12-16

**Science/Math/Computer Science**

Choose at least four courses from at least two prefixes including at least three laboratory courses in biological and/or physical science 12-20

**Electives**

Choose enough elective credits to reach a minimum 39

total of 90 overall degree credit\*

Recommend: FOR 240A, FOR 251, FOR 255, GEOG 212, OL 111, OL 171, OL 194AA, OL 207, OL 244, OL 255, OL 263, OL 271, OL 273, OL 280, OL 294AC, OL 294CA, OL 294MB, OL 294RC, OL 294WG

**Total Credits 90-106**

<sup>1</sup> HHPA activity courses (1 credit each) are not to be duplicated.

<sup>2</sup> Elective courses must be numbered 100 or above and can be any combination of general electives, Career and Technical Education (CTE) courses (12 credits maximum) or CWE/HHP activity courses (15 credits maximum).

**ADVISING NOTES**

The OL program models a cohort program, whereby students complete a set of courses each term with a single peer group. It is advised that students complete as much of their general education requirements prior to beginning their OL courses.

Students begin their OL work in the Fall, completing a set of introductory/fundamental courses. Fall is particularly special as students attend class for the entirety of the term, in an outdoor classroom, every day of the week and complete an 8 day expedition in November. Once students begin in the Fall, they complete a prescribed set of courses in both the following Winter and Spring terms. During Winter term, students work on advanced theory and application courses, gaining more extensive understanding about the practices of professional outdoor leaders. Finally, in Spring, students complete advanced skills courses, aimed at developing students' practice of professional standards within specific activities.

First year completion requirements for enrollment into the second year level include: completion of the OL prefix courses (OL 271 Facilitating Group Experiences, OL 273 Outdoor Recreation Leadership, OL 280 Co-op Work Experience-OL, OL 294 guide courses) with a grade of "C" or better; completion of a minimum of 36 college credits made up, in part, by the above courses, appropriate prerequisites. See advisor for details.



## Outdoor Leadership (OSU Transfer)

### Emphasis AS

Associate of Science

#### FOCUS AREA DESCRIPTION

This associate of science degree is designed specifically for transfer to OSU-Cascades and their Tourism and Outdoor Leadership bachelor's degree program. The COCC outdoor leadership program is grounded in the principles of lifelong learning, environmental stewardship, personal growth and leadership. The program emphasizes experiential methodologies to combine theory and practice in a strong field-based curriculum. Students will develop current and accepted skills, understand comprehensive knowledge and standards in the professional field, while being taught by highly skilled and knowledgeable faculty who exemplify the highest level of standards, integrity and ethics.

#### PROGRAM ENTRANCE REQUIREMENTS

None

#### PROGRAM PERFORMANCE STANDARDS

##### Academic Requirements

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses in the program must be completed with a grade of C or higher.

#### PROGRAM COURSE REQUIREMENTS

##### Baccalaureate Core

HP 295	Health and Fitness	3
Choose one course from the Mathematics list <sup>1</sup>		
WR 121	Academic Composition	4
WR 122	Argument, Research and Multimodal Composition	4
SP 111	Fundamentals Public Speaking	4

##### Perspectives Courses<sup>1,2</sup>

Choose one course from each of the following categories:

Physical Science <sup>1</sup>	4-5
Biological Science <sup>1</sup>	4-5
Physical or Biological Science <sup>1</sup>	4-5
Western Culture <sup>1</sup>	3-4
Cultural Diversity <sup>1</sup>	4
Literature and the Arts <sup>1</sup>	3-4
Social Processes and Institutions <sup>1</sup>	3-4
Difference, Power and Discrimination <sup>1</sup>	4

#### PROGRAM REQUIREMENTS

BA 101	Intro to Business	4
FOR 255	Resource Interpretation	3
OL 111	Introduction to Outdoor Leadership	3
OL 171	Technical Skills for Outdoor Leadership	2
OL 207	Seminar in Outdoor Leadership	2
OL 244	Psych. of Risk & Adventure	3
OL 255	Outdoor Living Skills	5
OL 263	Basic Wilderness Life Support	5
OL 271	Facilitating Group Experiences	5
OL 273	Outdoor Recreation Leadership	5
OL 280	Co-op Work Experience-OL	2
Choose one guide course from the following list:		
OL 294AC	Alpine Climbing	3
OL 294CA	Canoe Instructing and Guiding	
OL 294MB	Mountain Bike Guiding	
OL 294RC	Teaching Rock Climbing	
OL 294WG	Whitewater Raft Guiding	

##### Electives

4

Choose enough elective credits to reach a minimum of 94 overall degree credits<sup>3</sup>

**Total Credits 94-100**

<sup>1</sup> Select from the appropriate category in the OSU Baccalaureate Core course list in the COCC catalog.

<sup>2</sup> No more than two courses (or lecture/lab combinations) from any one department may be used by a student to satisfy the Perspectives category of the core. GEO courses listed under Physical Science are considered to be from a different department than GEO courses listed under any other Perspective category.

<sup>3</sup> Elective courses must be numbered 100 or above and can be any combination of general elective, Career and Technical Education (CTE) courses (12 credits maximum) or CWE/HHP activity classes (15 credits maximum).

#### ADVISING NOTES

The OL program models a cohort program, whereby students complete a set of courses each term with a single peer group. It is advised that students complete as much of their general education requirements prior to beginning their OL courses.

Students begin their OL work in the Fall, completing a set of introductory/fundamental courses. Fall is particularly special as students attend class for the entirety of the term, in an outdoor classroom, everyday of the week and complete an 8 day expedition in November. Once students begin in the Fall, they complete a prescribed set of courses in both the following Winter and Spring terms. During Winter term, students work on advanced theory and application courses, gaining more extensive understanding about the practices of professional outdoor leaders. Finally, in Spring, students complete advanced skills courses, aimed at developing students' practice of professional standards within specific activities.

First year completion requirements for enrollment into the second year level include: completion of the OL prefix courses (OL 271 Facilitating Group Experiences, OL 273 Outdoor Recreation Leadership, OL 280 Co-op Work Experience-OL, OL 294 guide course) with a grade of "C" or better; completion of a minimum of 36 college credits made up, in part, by the above courses, appropriate prerequisites. See advisor for details.

## PHARMACY TECHNICIAN

### Pharmacy Technician

Certificate of Completion

#### PROGRAM DESCRIPTION

The Pharmacy Technician training program prepares individuals for employment in the pharmacy industry. Pharmacy technicians are skilled workers who are educated and trained to work in a pharmacy and assist in all areas of the pharmacy not requiring the professional judgment of the registered pharmacist. Some current practice areas for the pharmacy technician include retail, hospital, manufacturing, disease state management and mail order and insurance claim specialists. The pharmacy technician processes prescriptions and medication orders and plays an integral role in maintaining the pharmacy department.

Courses in the Pharmacy Technician program are offered in an online and hybrid format. The curriculum focuses on the abilities needed to assist the pharmacist and provide the skills necessary to process prescriptions accurately, participate in administration and management of a pharmacy and maintain inventory. Topics of study include medical terminology, anatomy and functions of the human body, therapeutic classification and drug names, pharmacy procedures, pharmaceutical calculations, pharmacy law and interpersonal communication. Students will have a working knowledge of sterile technique, standards of practice, quality assurance and patient confidentiality. In addition, students will develop and practice communication skills needed to function in a professional setting. In order to gain workplace experience, students will also participate in a hospital and retail pharmacy practicum.

The Pharmacy Technician certificate program prepares students to pass the National Pharmacy Technician Certification exam required by the Oregon Board of Pharmacy to practice as a pharmacy technician in the state of Oregon.

**ACCREDITATION**

American Society of Health-System Pharmacists (ASHP)

**PROGRAM COSTS**

(beyond standard tuition/fees and textbooks)

**Material Costs**

- In some cases \$150 to \$300 for fees associated with required immunizations and tuberculosis screening
- \$45-65 drug screening
- \$55 background check
- \$65 for American Heart Association CPR for Health Care Providers certificate
- Distance students will be responsible for the cost of travel and expenses to the COCC campus for the two lecture labs in the Fall and Winter terms.

**Enrollment Fees**

- Program fee of \$150 per term (or a total of \$450 for the three-term pharmacy technician cohort)

**PROGRAM ENTRANCE REQUIREMENTS**

**Academic Entrance Requirements**

- Required:
  - MTH 058 Math Literacy I, MTH 065 Algebra II or higher or minimum placement into MTH 095 Intermediate Algebra (4 credits)
  - Recommended pathway MTH 010 Developmental Mathematics (if needed), MTH 058 Math Literacy I, MTH 098 Math Literacy II
  - WR 065 Rhetoric/Critical Thinking II/WR 095 Basic Writing II or minimum placement scores resulting in WR 121 Academic Composition placement (4 credits)
  - Complete COCC's online orientation available at [cocc.edu/onlineorientation](http://cocc.edu/onlineorientation).

**Other Entrance Requirements**

- Required:
  - A high school diploma, a high school transcript noting successful graduation, or a GED
  - 18 years of age or older
  - All COCC students enrolled in Pharmacy Technician Program (which includes requirements for practical experience) may have to pass Criminal History Checks (CHC) as a condition of their acceptance into a medical or other facility for training. Students who do not pass the CHC may not be eligible to complete training at affiliated practicum sites, to sit for licensure or certification exams, or to be hired for some professional positions. Students who believe that their past history may interfere with their ability to complete the program of study or to obtain licensure or certification in their chosen field should contact the appropriate state board or the program director.
  - 10 panel drug screen completed as a condition of acceptance into the program. Students must complete a 10 panel urine drug screen with the vendor chosen by COCC prior to entry into the Pharmacy Technician Program. With the exception of certain prescribed medications, students with a positive drug screen, which prevents them from attending clinical, will be disqualified from entering the program. Please refer to the Pharmacy Technician Handbook website for more detailed information [cocc.edu/programs/pharmacy-tech/pharmacy-tech-advising-information](http://cocc.edu/programs/pharmacy-tech/pharmacy-tech-advising-information).
  - Documentation of current immunizations (MMR, Tdap, Varicella, Hep B, Flu, TB, Blood Titer)
  - American Heart Association Health Care Provider or American Red Cross CPR card

**PROGRAM PERFORMANCE STANDARDS**

**Academic Requirements**

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All prerequisites courses must be completed with a grade of C or higher.

**Additional Requirements**

- Students must maintain a minimum 2.0 GPA while enrolled in the Pharmacy Technician program. Students who do not meet this standard may be dismissed from the program.
- If a student is arrested for any reason while in the Pharmacy Technician program it should be reported to the program director immediately. The information will be reviewed and may affect the student's ability to obtain a pharmacy technician license. If a student is unable to obtain a pharmacy technician license he/she will be unable to complete the practicum and will be dismissed from the Pharmacy Technician program.

**PROGRAM COURSE REQUIREMENTS**

**Prerequisite Courses**

AH 115	Cultural Responsiveness in Allied Health	3
MTH 095	Intermediate Algebra (or higher)	4
WR 121	Academic Composition	4

**Core Courses**

PHM 100	Pharmacy Technician Practice I	5
PHM 101	Pharmacy Tech Law and Ethics	3
PHM 110	Pharmacy Calculations	3
PHM 115	Retail Simulation Lab	2
PHM 120	Pharmacology I	5
PHM 130	Pharmacology II	5
PHM 140	Pharmacy Technician Practice II	5
PHM 145	Institutional Simulation Lab	2
PHM 181	Pharmacy Technician Seminar	2
PHM 190	Pharm Tech Practicum I	4
PHM 191	Pharm Tech Practicum II	4

**Total Credits 51**

**ADVISING NOTES**

Program (PHM) courses begin once per year in fall term. Students wishing to register in the fall Pharmacy Technician cohort must meet the basic prerequisite competencies and may register according to seat availability on a first-come, first-served basis, determined by the priority registration schedule.

Once admitted to the program, students must obtain a two-year nonrenewable Pharmacy Technician License from the Oregon Board of Pharmacy. This license is required to participate in the Pharmacy Technician practicum courses. Applicants must have a high school diploma, a high school transcript noting successful graduation, or a GED and be at least 18 years of age. Application for the license will require a background check and fingerprinting. Students unable to obtain a pharmacy technician license will not be able to complete training at affiliated practicum sites or obtain employment in a pharmacy. Students who believe their personal history may interfere with their ability to obtain a license should contact the program director. Information for licensure is available from the Oregon Board of Pharmacy and can be found at [pharmacy.state.or.us](http://pharmacy.state.or.us) or by calling 971.673.0001.

Students must be flexible during the spring term to participate in the practicum. Students must perform a three-week block of practicum in a hospital or institution and a three-week block of practicum in a retail or community pharmacy. The practicum will be scheduled by the Pharmacy Technician department and the student must be free of commitments to complete the practicum.

Students must be at least 18 years of age, have a high school diploma, a high school transcript noting successful graduation, or a GED, have no criminal record and pass a National Pharmacy Technician Certification Exam to apply to the Oregon Board of Pharmacy for a Certified Pharmacy Technician License to practice as a pharmacy technician in Oregon.

This certificate is designed for students planning to enter the pharmacy technician field upon graduation. Often only selected credits are considered transferable to public or private baccalaureate institutions.

## POLITICAL SCIENCE

### Political Science

#### Associate of Arts Oregon Transfer

##### PROGRAM DESCRIPTION

Political Science is a social science, which deals with the distribution of power and resources through systems of governance. The Associate of Arts Oregon Transfer (AAOT) with a focus in political science includes courses that are commonly required for this major and meets lower division general education requirements at all Oregon public universities.

##### PROGRAM ENTRANCE REQUIREMENTS

None

##### PROGRAM PERFORMANCE STANDARDS

###### Academic Requirements

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses in the program must be completed with a grade of C or higher.

##### PROGRAM COURSE REQUIREMENTS

###### General Education/Foundational

###### Health

3 credits with HHP or HHPA prefix<sup>1</sup> 3

###### Mathematics

MTH 105 Math in Society (or higher) 4

###### Oral Communication

Choose one course from the following: 3-4

SP 111 Fundamentals Public Speaking

SP 114 Argumentation & Discourse

SP 115 Intro Intercultural Commun

SP 218 Interpersonal Communication

SP 219 Small Group Communication

###### Writing

WR 121 Academic Composition 4

WR 122 Argument, Research and Multimodal Composition 4

or WR 227 Technical Writing

###### General Education/Discipline Studies

One course must be designated as Cultural Literacy.

###### Arts and Letters 9-12

Choose at least three courses from at least two prefixes

###### Social Science 12-16

Choose at least four courses from at least two prefixes<sup>2</sup>

Recommend: PS 201, PS 204

###### Science/Math/Computer Science 12-20

Choose at least four courses from at least two prefixes including at least three laboratory courses in biological and/or physical science

###### Electives 39

Choose enough electives to reach 90 credits

Recommend: PS 206

**Total Credits 90-106**

<sup>1</sup> HHPA activity courses (1 credit each) are not to be duplicated.

<sup>2</sup> Take another course from the Social Science Discipline Studies list that does not have a PS prefix.

##### ADVISING NOTES

Political Science courses do not need to be taken in sequence.

Students pursuing a BA after transfer should consider completing three terms of a 200-level language course. The 100-level language courses will count as electives. The 200-level language courses will partially fulfill the Arts and Letters requirement.

Students pursuing a BS after transfer should consider taking more math and science courses. Language is not necessary. For specific details, speak with an advisor. It is recommended that students pursuing a political science major take additional social sciences courses to fulfill some of their elective credits. Economics, geography and history courses are particularly helpful in this regard.

## PSYCHOLOGY

### Psychology

#### Associate of Arts Oregon Transfer

##### FOCUS AREA DESCRIPTION

Psychology is a broad discipline that considers properties of the brain and seeks to understand humans as individuals and in groups. The Associate of Arts Oregon Transfer (AAOT) with a focus in psychology includes courses that are commonly required for this major and meets lower division general education requirements at all Oregon public universities.

##### PROGRAM ENTRANCE REQUIREMENTS

None

##### PROGRAM PERFORMANCE STANDARDS

###### Academic Requirements

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses in the program must be completed with a grade of C or higher.

##### PROGRAM COURSE REQUIREMENTS

###### General Education/Foundational

###### Health

3 credits with HHP or HHPA prefix<sup>1</sup> 3

###### Mathematics

MTH 105 Math in Society (or higher) 4

###### Oral Communication

Choose one course from the following: 3-4

SP 111 Fundamentals Public Speaking

SP 114 Argumentation & Discourse

SP 115 Intro Intercultural Commun

SP 218 Interpersonal Communication

SP 219 Small Group Communication

###### Writing

WR 121 Academic Composition 4

WR 122 Argument, Research and Multimodal Composition 4

or WR 227 Technical Writing

###### General Education/Discipline Studies

One course must be designated as Cultural Literacy.

###### Arts and Letters 9-12

Choose at least three courses from at least two prefixes

###### Social Science 12-16

Choose at least four courses from at least two prefixes

Recommend: PSY 201, PSY 202

###### Science/Math/Computer Science 12-20

Choose at least four courses from at least two prefixes including at least three laboratory courses in biological and/or physical science

###### Electives 39

Choose enough elective credits to reach a minimum

total of 90 overall degree credits

**Total Credits 90-106**

<sup>1</sup> HHPA activity courses (1 credit each) are not to be duplicated.

**ADVISING NOTES**

If a student has graduated high school or earned a GED after 1997, two years of the same world language earned at the high school level or two quarters of the same world language at the undergraduate level is required for admittance to most Oregon public universities. For specific details, speak with an advisor.

Students pursuing a BA after transfer should consider completing three terms of a 200-level language course. The 100-level language courses will count as electives. The 200-level language courses will partially fulfill the Arts and Letters requirement.

Students pursuing a BS after transfer should consider taking more math and science courses. In general, two 100-level or higher math courses beyond the foundational mathematics requirement fulfills the Bachelor of Science. These will also partially fulfill the Science/Math/Computer Science Discipline Studies requirement. Language beyond entrance requirements is not required.

Although students may take whichever science sequence they prefer, it is recommended to take BI 101 General Biology: Cells & Genes-BI 103 General Biology: Ecology or BI 231 Human Anatomy and Physiology I-BI 233 Human Anatomy and Physiology III due to the relevance these courses have to upper-division psychology courses.

PSY 204 Research Methods, PSY 213 Introduction to Physiological Psychology and PSY 227 Animal Behavior fulfill the science lab requirement if a sequence is not essential.

Students are advised to consider the following psychology courses as electives to gain further insight into the field and to help them determine what area of psychology they may be interested in pursuing: PSY 204 Research Methods, PSY 213 Introduction to Physiological Psychology, PSY 214 Personality Psychology, PSY 215 Developmental Psychology, PSY 216 Social Psychology, PSY 219 Abnormal Psychology, PSY 227 Animal Behavior, PSY 233 Psych of Violence & Aggression. With the exception of PSY 204 Research Methods, PSY 213 Introduction to Physiological Psychology and PSY 227 Animal Behavior (see Science/Math/Computer Science lab course fulfillment), these courses will also partially satisfy the Social Science AAOT requirements. Any other potential special topics courses that are offered from time to time will be electives as well.

Students who are considering clinical or counseling psychology might consider the following electives: EMT 195 Crisis Intervention, ED 265 Children at Risk, HS 161 Ethics for Human Services, HS 162 Effective Helping Skills I, HS 201 Families and Addictions, HS 206 Group Counseling Skills for Human Services, HS 209 Introduction to Psychological Trauma: Theory and Practice, HS 224 Psychopharmacology, HS 260 Counseling Theories and HS 262 Effective Helping Skills II. HS 224 Psychopharmacology will meet a non-lab Science/Math/Computer Science requirement. HS 206 Group Counseling Skills for Human Services and HS 208 Multicultural Issues Hum Serv will partially complete the Social Science requirement.

Psychology students will be required to take Statistics when they transfer. Although MTH 111 College Algebra is sufficient for the math requirement, advisors recommend taking one or both of MTH 243 Introduction to Probability and Statistics I and MTH 244 Introduction to Probability and Statistics 2 to finish the science requirement and to allow students to be exposed to statistics beforehand. However, for OSU, MTH 243 Introduction to Probability and Statistics I and MTH 244 Introduction to Probability and Statistics 2 currently do not fulfill the BS math requirements. PSY 204 Research Methods is also a good preparation for upper division statistics required for a PSY BA or BS.

Note that individual institutions may have additional requirements or will change the category that a course satisfies if the AAOT is not completed, or is transferred to an out-of-state college or university. For admission into a particular program, courses may be added. Students who plan to transfer should contact the institution they plan to attend to ensure they have fulfilled the specific requirements for their program.

Students have the option of pursuing a bachelor’s degree in psychology through Oregon State University – Cascades (contact 541.322.3100) or through a distance program with Eastern Oregon University (contact EOU advisor, 541.385.1137); both programs are available in Central Oregon. Students planning to attend OSU should include in their AA degree the following OSU major requirements: BI 101 General Biology: Cells & Genes-BI 103 General Biology: Ecology, PSY 201 Mind and Brain, PSY 202 Mind and Society, WR 227 Technical Writing.

**PUBLIC HEALTH**

**Public Health**  
Associate of Arts Oregon Transfer

**FOCUS AREA DESCRIPTION**

This Associate of Arts Oregon Transfer (AAOT) program is designed as a broad-based degree in public health for maximum transferability in the third year to Oregon State University’s College of Public Health & Human Sciences Bachelor of Science in Public Health. This BSPH degree offers two tracks: 1) Health Promotion & Health Behavior and 2) Health Management & Policy.

**PROGRAM ENTRANCE REQUIREMENTS**

None

**PROGRAM PERFORMANCE STANDARDS**

**Academic Requirements**

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses in the program must be completed with a grade of C or higher.

**PROGRAM COURSE REQUIREMENTS**

**General Education/Foundational Health**

3 credits with HHP or HHPA prefix<sup>1</sup> 3

**Mathematics**

MTH 105 Math in Society (or higher)<sup>2</sup> 4

**Oral Communication**

Choose one course from the following: 3-4

- SP 111 Fundamentals Public Speaking
- SP 114 Argumentation & Discourse
- SP 115 Intro Intercultural Commun
- SP 218 Interpersonal Communication
- SP 219 Small Group Communication

**Writing**

WR 121 Academic Composition 4  
WR 122 Argument, Research and Multimodal Composition 4  
or WR 227 Technical Writing

**General Education/Discipline Studies**

One course must be designated as Cultural Literacy.

**Arts and Letters** 9-12

Choose at least three courses from at least two prefixes

**Social Science** 12-16

Choose at least four courses from at least two prefixes  
Recommend: HHP 100, HHP 210, HHP 248 and either PSY 201 or SOC 201

**Science/Math/Computer Science** 12-20

Choose at least four courses from at least two prefixes including at least three laboratory courses in biological and/or physical science<sup>3</sup>



**Electives**

39

Choose enough elective credits to reach a minimum total of 90 overall degree credits  
 Recommend: EC 201, HHP 231, HHP 240, HHP 267, HHP 268, HHP 281, SOC 212

**Total Credits 90-106**

- <sup>1</sup> HHPA activity courses (1 credit each) which can not to be duplicated.
- <sup>2</sup> For OSU’s HPHB Track take MTH 105 Math in Society. For OSU’s HM&P Track take MTH 111 College Algebra and MTH 245 Mathematics for Management, Life, and Social Sciences
- <sup>3</sup> For OSU’s HPHB Track take BI 101 General Biology: Cells & Genes, BI 102 General Biology: Evolution OR BI 103 General Biology: Ecology. For OSU’s HM&P Track take BI 234 Microbiology

**ADVISING NOTES**

The following provides a list of the essential lower division core courses for students intending to transfer to OSU’s Bachelor of Science in Public Health or to the new joint School of Public Health at Oregon Health Sciences University and Portland State University. Students should always check with specific universities to ensure the most current transfer information is accessed when designing their program.

**Public Health Core Courses for Both Tracks at OSU:** HHP 100 Intro to Public Health, HHP 210 Intro to Health Care System, HHP 248 Health Psychology and MTH 243 Introduction to Probability and Statistics I. In addition, the following courses are strongly recommended for the each of the BSPH tracks at OSU.

**Health Promotion & Health Behavior track (HBHB):** MTH 105 Math in Society, WR 122 Argument, Research and Multimodal Composition, WR 227 Technical Writing, HHP 231 Human Sexuality, FN 225 Human Nutrition and/or HHP 240 Science of Nutrition (for those wanting to focus on Nutrition & Public Health) as well as HHP 268 Sustainable Food and Nutrition, HHP 267 Wellness Coaching Fundamentals, HHP 281 Practicum-HP/Public Health, PSY 201 Mind and Brain, SOC 201 Introduction to Sociology, ES 101 Intro to Ethnic Studies and SOC 212 Race, Class and Gender.

**Health Management & Policy Track (HM&P):** MTH 111 College Algebra, MTH 245 Mathematics for Management, Life and Social Sciences, WR 122 Argument, Research and Multimodal Composition, WR 227 Technical Writing, CS 160 Computer Science Orientation, BA 111 Applied Accounting I, EC 201 Microeconomics, EC 202 Macroeconomics, BI 234 Microbiology and any other courses listed above for the HPHB Track.

**SOCIOLOGY**

**Pre-Law**

**Associate of Arts Oregon Transfer**

**FOCUS AREA DESCRIPTION**

Law school is graduate level study that does builds on a bachelor’s degree but does not require a specific major. The Associate of Arts Oregon Transfer (AAOT) with a focus in pre-law includes courses that are useful to a pre-law student and meets lower division general education requirements at all Oregon public universities. Students are encouraged to combine this focus with preparation for a major that they find interesting and challenging and that develops skills in research and writing, problem solving, oral communication and listening, organization and exposure to law.

**PROGRAM ENTRANCE REQUIREMENTS**

None

**PROGRAM PERFORMANCE STANDARDS**

**Academic Requirements**

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses in the program must be completed with a grade of C or higher.

**PROGRAM COURSE REQUIREMENTS**

**General Education/Foundational**

**Health**

3 credits with HHP or HHPA prefix<sup>1</sup> 3

**Mathematics**

MTH 105 Math in Society (or higher) 4

**Oral Communication**

Choose one course from the following: 3-4

SP 111 Fundamentals Public Speaking

SP 114 Argumentation & Discourse

SP 115 Intro Intercultural Commun

SP 218 Interpersonal Communication

SP 219 Small Group Communication

**Writing**

WR 121 Academic Composition 4

WR 122 Argument, Research and Multimodal Composition 4

or WR 227 Technical Writing

**General Education/Discipline Studies**

One course must be designated as Cultural Literacy.

**Arts and Letters**

Choose at least three courses from at least two prefixes 9-12

**Social Science**

Choose at least four courses from at least two prefixes 12-16

**Science/Math/Computer Science**

Choose at least four courses from at least two prefixes including at least three laboratory courses in biological and/or physical science 12-20

**Electives**

Choose any college-level course that brings the total credits to 90 quarter hours<sup>2</sup> 39

**Total Credits 90-106**

<sup>1</sup> HHPA activity courses (1 credit each) are not to be duplicated.

<sup>2</sup> This may include up to 12 credits of Career and Technical Education courses designated by COCC as acceptable.

**ADVISING NOTES**

Most law schools have no requirements for a pre-law curriculum and will accept a bachelor’s degree in any major. Students should develop an educational program that is broad, yet provides depth of understanding in at least one subject area, along with fundamental insights into human institutions and values. The emphasis should be on a degree program that meets students’ needs and interests, that students find challenging and in which students will do their best work and will earn good grades.

Legal educators agree that the development of particular skills and habits will contribute more to success in law school than a major in any one subject. Therefore, coursework should focus on strengthening habits of thoroughness, intellectual curiosity, scholarship, the ability to research a topic, write concisely, analyze information and think critically. Verbal and written communication skills are very important.

Courses in literature, language, composition, logic and linguistics are directly concerned with the cultivation of these skills. In addition, lawyers must be adept at problem solving and organizing information to support a point of view. Courses in political science, economics, American and British history, journalism, philosophy and business principles will provide an opportunity to practice these skills and to gain an understanding of social institutions and values.



Students pursuing a BA after transfer should consider completing three terms of a 200-level language course. The 100-level language courses will count as electives. The 200-level language courses will partially fulfill the Arts and Letters requirement.

Students pursuing a BS after transfer should consider taking more math and science courses. Language is not necessary. For specific details, speak with an advisor.

## Sociology

### Associate of Arts Oregon Transfer

#### FOCUS AREA DESCRIPTION

Sociology is the study of human social relationships and institutions and includes subject matter such as race, religion, families, government, and social change. The Associate of Arts Oregon Transfer (AAOT) with a focus in sociology includes courses that are commonly required for this major and meets lower division general education requirements at all Oregon public universities. A bachelor's degree with a major in sociology is great preparation for graduate school (such as schools of law and education) as well as direct employment in government, research and human services.

#### PROGRAM ENTRANCE REQUIREMENTS

None

#### PROGRAM PERFORMANCE STANDARDS

##### Academic Requirements

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses in the program must be completed with a grade of C or higher.

#### PROGRAM COURSE REQUIREMENTS

##### General Education/Foundational

##### Health

3 credits with HHP or HHPA prefix<sup>1</sup> 3

##### Mathematics

MTH 105 Math in Society (or higher) 4  
Recommend: MTH 111

##### Oral Communication

Choose one course from the following: 3-4  
 SP 111 Fundamentals Public Speaking  
 SP 114 Argumentation & Discourse  
 SP 115 Intro Intercultural Commun  
 SP 218 Interpersonal Communication  
 SP 219 Small Group Communication

##### Writing

WR 121 Academic Composition 4  
 WR 122 Argument, Research and Multimodal Composition 4  
 or WR 227 Technical Writing

##### General Education/Discipline Studies

One course must be designated as Cultural Literacy.

##### Arts and Letters

Choose at least three courses from at least two prefixes 9-12

##### Social Science

Choose at least four courses from at least two prefixes 12-16  
 Recommend: SOC 201, SOC 211, SOC 212, SOC 250

##### Science/Math/Computer Science

Choose at least four courses from at least two prefixes including at least three laboratory courses in biological and/or physical science 12-20

##### Electives

Choose any college-level course that brings the total credits to 90 quarter hours<sup>2</sup> 39

**Total Credits 90-106**

<sup>1</sup> HHPA activity courses (1 credit each) are not to be duplicated.

<sup>2</sup> This may include up to 12 credits of Career and Technical Education courses designated by COCC as acceptable.

#### ADVISING NOTES

Students pursuing a BA after transfer should consider completing three terms of a 200-level language course. The 100-level language courses will count as electives. The 200-level language courses will partially fulfill the arts and letters requirement.

Students pursuing a BS after transfer should consider taking more math and science courses. Language is not necessary. For specific details, speak with an advisor.

Students are advised to consider the following sociology courses as electives to gain further insight into the field and to help them determine what area of sociology they may be interested in pursuing: SOC 208 Sport and Society, SOC 211 Social Deviance, SOC 212 Race, Class and Gender, SOC 215 Social Issues and Social Movements, SOC 219 Sociology of Religion, SOC 250 Sociology of Popular Culture and any other potential special topics courses that are offered from time to time.

Sociology students typically will be required to take Statistics when they transfer. Although MTH 111 College Algebra is sufficient for the math requirement, advisors recommend taking one or both of MTH 243 Introduction to Probability and Statistics I and MTH 244 Introduction to Probability and Statistics 2 to finish the science requirement and to allow students to be exposed to statistics beforehand.

Note that individual institutions may have additional requirements or will change the category that a course satisfies if the AAOT is not completed, or is transferred to an out-of-state college or university. For admission into a particular program, courses may be added. Students who plan to transfer should contact the institution they plan to attend to ensure they have fulfilled the specific requirements for their program.

## STRUCTURAL FIRE SCIENCE

### Structural Fire Science

#### Associate of Applied Science

#### PROGRAM DESCRIPTION

The AAS degree in Structural Fire Science is designed for students seeking a career in the fire service industry or upgrading their skills for current fire service employment. The AAS degree is designed for students planning to enter their chosen career upon graduation.

#### ACCREDITATION

International Fire Service Accreditation Congress (IFSAC)  
 Department of Public Safety Standards & Training (DPSST)  
 Fire & Emergency Services Higher Education (FESHE)

#### PROGRAM COSTS

(beyond standard tuition/fees and textbooks)

##### Material Costs

- CPR for Healthcare Provider card \$55, must remain current throughout EMT class.
- Background check, immunization upload and 10-panel drug screen is required for all students entering into the EMT class at an approximate cost of \$110.
- In some cases fees associated with immunizations can range from \$20-\$200.
- Fee for State Certification Testing and National Registry Test (currently \$170-\$350).
- Materials (boots, ear protection, gloves, etc.), \$200-\$350
- Other special equipment and clothing may be required as part of this program.

##### Enrollment Fees

- None

**PROGRAM ENTRANCE REQUIREMENTS****Academic Entrance Requirements**

- Recommended:
  - Minimum placement scores resulting in WR 121 Academic Composition placement or completion of WR 065 Rhetoric/Critical Thinking II/WR 095 Basic Writing II with a grade "C" or better
  - Minimum placement scores resulting in MTH 060 Algebra I/ MTH 085 Technical Mathematics I placement or completion of MTH 020 Pre-Algebra with a grade "C" or better
  - High school diploma or GED

**Other Entrance Requirements**

- Required:
  - Students must be 18 or older for state and national testing for EMT and affiliation with a fire agency. Students do NOT need to be 18 to begin taking SFS courses.
  - All COCC students seeking enrollment in the EMT course and/or agency affiliation that requires practical experience will have to pass a Criminal History Check (CHC) as a condition of their acceptance into a medical, fire or other facility for training. Students who do not pass the CHC may not be eligible to complete training at affiliated sites, to sit for licensure or certification exams, or to be hired for some professional positions. Students who believe their personal history may interfere with their ability to complete the program of study or to obtain licensure or certification in their chosen field should contact the appropriate state board or the program director.
  - Complete a 10 panel urine drug screen with Verified Credentials, Inc. With the exception of certain prescribed medications, students with a positive drug screen, which prevents them from attending clinical, will be disqualified from entering the program. Please refer to the Structure Fire Science website and/or program handbook for more detailed information.

**PROGRAM PERFORMANCE STANDARDS****Academic Requirements:**

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses with the program prefix must be completed with a grade of C or higher.

**Additional Requirements**

- All students will undergo drug screening, background check and immunization verification with the vendor approved by Central Oregon Community College, prior to entrance into the EMT courses, at their expense. Students will be administratively withdrawn from the program and the seat given to an alternate student if requirements are not initiated with the specified vendor by the due date indicated by the SFS program. Students with a positive urine drug screen will be disqualified from entering the EMT courses at Central Oregon Community College, with the exception of certain prescribed medications. The director of EMS/SFS will notify the student of positive drug screens and their resulting disqualification from the program. Students have a right to appeal the decision.
- Students must maintain a minimum 2.0 GPA while enrolled in the program and if affiliated and receiving a scholarship will be held to a higher GPA standard; students who do not meet this standard may be dismissed from the program. Students may also be dismissed if the student has violated a criminal or ethical standard.

**PROGRAM COURSE REQUIREMENTS****Core Courses**

EMT 151	EMT Basic Part A	5
EMT 152	EMT Basic Part B	5
SFS 101	Introduction to Emergency Services	4
SFS 102	Firefighter Safety & Survival	3
SFS 105	Fire Behavior & Combustion I	3
SFS 110	Bldg Const. for Fire Personnel	3
SFS 112	Public Ed. & Fire Prevention	3
SFS 120	Fixed Systems & Extinguishers	3
SFS 123	HazMat Awareness & Operations	3
SFS 133	Fire Entry Exams	3

SFS 210	Fire Investigation	3
SFS 212	Fire Codes and Ordinances	3
SFS 230	Rescue Practices	3
SFS 232	Fire Protection Hydraulics and Water Supply	4
SFS 275	Capstone: Tactics & Strategies	3
WF 215	S-215 Fire Operations in the Urban Interface	3
Choose 9 credits from the SFS Technical Electives:		9
AH 111	Medical Terminology I	
EMT 170	Emergency Response Communication/Documentation	
EMT 171	Emerg Response Pt Transport	
EMT 195	Crisis Intervention	
FOR 130	Chainsaw Use and Maintenance	
SFS 121	Fire Law	
SFS 122	Fire Department Budget	
SFS 205	Fire Behavior and Combustion II	
SFS 263	Human Behavior in Fire	
Any course with a WF prefix		

**Other Required Courses**

CH 104	Introduction to Chemistry I	4-5
or GS 105	Physical Science: Chemistry	
FOR 211	Supervision and Leadership	3
HHP 242	Stress Management	3
or HHP 266	Nutrition for Health	
or HHP 295	Health and Fitness	
HHPA Activity Course		1
MTH 065	Algebra II (or higher) <sup>1</sup>	4
PH 201	General Physics I	4-5
or GS 104	Physical Science: Physics	
Choose one of the following:		3-4
SP 111	Fundamentals Public Speaking	
SP 115	Intro Intercultural Commun	
SP 218	Interpersonal Communication	
SP 219	Small Group Communication	
Discipline Studies Course		3-4
Choose one of the following:		
ANTH 103	Cultural Anthropology	
BI 234	Microbiology	
CJ 100	Survey of the Criminal Justice System	
OL 244	Psych. of Risk & Adventure	
PSY 201	Mind and Brain	
PSY 202	Mind and Society	
PSY 216	Social Psychology	
SOC 201	Introduction to Sociology	
WR 121	Academic Composition	4
WR 227	Technical Writing	4

**Total Credits 96-100**

<sup>1</sup> Students planning to earn a four-year degree should take MTH 105 or higher.

**ADVISING NOTES**

The program requires hands-on training in fire and emergency medical skills and NFPA Firefighter I certification which requires a significant amount of on-the-job training (OJT) by joining a fire agency that require students to work with and around mechanical equipment, ropes, fire pumps, fire hose and appliances, ladders, various apparatus and hand tools (both manual and powered). Most local fire agencies have student and volunteer positions. Students must apply and compete for these positions. Passing a written and physical agility exam is required for acceptance into these positions. Students desiring to complete a degree in Structural Fire Science and Paramedicine must follow a specific course of study. Please see the program director for information.

This degree is designed for students planning to enter their chosen career upon graduation. Often only selected credits are considered transferable to public or private baccalaureate institutions. Currently, the COCC Structural Fire Science program has articulation agreements with Eastern Oregon University.

Prior to taking the Emergency Medical Technician exam, students must answer background information questions concerning felony convictions, any regulatory discipline, ethical violations and mental competence. For more information, contact the SFS director at 541.383.7404.

The following are required for graduation in the SFS program and are only obtainable through affiliation in a fire agency:

- NFPA Firefighter I
- NFPA Hazmat Awareness & Operations
- I-200 FEMA or NWCG certified course

Upon Completion of EMT 151 EMT Basic Part A and EMT 152 EMT Basic Part B, student must pass the National Registry of EMT's written and Oregon Practical exams. Currently certified students do not need to retake the courses for the degree.

Students must hold a current EMT or higher Oregon certification for graduation with an SFS degree.

## Fire Service Administration (EOU Transfer) Associate of Science

### FOCUS AREA DESCRIPTION

The AS degree is intended to prepare students to transfer to Eastern Oregon University's Fire Service Administration (FSA) degree and is designed for students seeking a career in the fire service industry or upgrading their skills for current fire service employment. The program meets or exceeds the required technical skills and knowledge necessary for employment in many fire service organizations throughout the country.

### PROGRAM ENTRANCE REQUIREMENTS

#### Academic Entrance Requirements

- Recommended:
  - Minimum placement scores resulting in WR 121 Academic Composition placement OR completion of WR 065 Rhetoric/Critical Thinking II/WR 095 Basic Writing II (Grade "C" or better)
  - Minimum placement scores resulting in MTH 060 Algebra I/MTH 085 Technical Mathematics I placement OR completion of MTH 020 Pre-Algebra (Grade "C" or better)

#### Other Entrance Requirements

- Required:
  - All COCC students enrolled in the EMT course and/or seeking agency affiliation, or any course requiring practical experience, will have to pass a criminal history check (CHC) as a condition of their acceptance into a medical, fire or other facility for training. Information regarding CHC standards can be found at cocc.edu. Students who do not pass the CHC may not be eligible to complete training at affiliated sites, to sit for licensure or certification exams, or to be hired for some professional positions. Students who believe their personal history may interfere with their ability to complete the program of study or to obtain licensure or certification in their chosen field should contact the appropriate state board or the program director.
- Recommended:
  - High school diploma or GED
  - Students must be 18 or older for state and national testing for EMT and for affiliation with a fire agency. Students do NOT need to be 18 to begin taking SFS courses.
  - Documentation of completion of immunizations (Hepatitis B or release, current TB, MMR immunizations at least two of the three shots)

### PROGRAM PERFORMANCE STANDARDS

#### Academic Requirements

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree. Students affiliated with a local Fire/EMS agency who are receiving a scholarship will be held to a higher GPA standard

depending on affiliation location. Students who do not meet this standard may be dismissed from the program.

- All courses must be completed with a C grade or higher.

#### Additional Requirements

- Students may also be dismissed if the student has violated a criminal or ethical standard or guideline established by the college and/or program.
- Prior to taking the National Register of EMT exam and applying for Oregon EMT licensure, students must answer background information questions concerning felony convictions, any regulatory discipline, ethical violations and mental competence on the state of Oregon EMS Licensure application. For more information, contact the Paramedicine/SFS director, 541.383.7404.

### PROGRAM COURSE REQUIREMENTS

#### General Education/Foundational

##### Mathematics

MTH 105	Math in Society (or higher)	4
---------	-----------------------------	---

##### Oral Communication

SP 111 or SP 218	Fundamentals Public Speaking Interpersonal Communication	3-4
---------------------	---	-----

##### Writing

WR 121	Academic Composition	4
WR 122 or WR 227	Argument, Research and Multimodal Composition Technical Writing	4

#### General Education/Discipline Studies

Aesthetics and Humanities <sup>1</sup>	3-4
Artistic Process and Creation <sup>2</sup>	6-8
Natural, Mathematical and Information Systems <sup>3</sup>	6-20
Social Science <sup>4</sup>	4
Recommend: ANTH 103, PSY 201, PSY 202, SOC 201	

### PROGRAM REQUIREMENTS

FOR 211 or BA 285	Supervision and Leadership Business Human Relations	3
SFS 101	Introduction to Emergency Services	4
SFS 110	Bldg Const. for Fire Personnel	3
SFS 112	Public Ed. & Fire Prevention	3
SFS 120	Fixed Systems & Extinguishers	3
SFS 205	Fire Behavior and Combustion II	3
SFS 212	Fire Codes and Ordinances	3
SFS 275	Capstone: Tactics & Strategies	3

#### Electives

31  
Choose any course numbered 100 or above that brings the total credits to 90 quarter hours. This may include up to 12 credits of Career and Technical Education courses designated by COCC as acceptable.  
Recommend: SFS 121, SFS 122

**Total Credits 90-108**

<sup>1</sup> Choose one course from Eastern Oregon Education Transfer Guide Gen Ed-Aesthetics & Humanities List.

<sup>2</sup> Choose two courses with different subject prefixes. See Eastern Oregon General Education Transfer Guide Gen Ed-Art Process/Creation.

<sup>3</sup> Choose two courses with different subject prefixes, including at least one physical or biological science. See Eastern Oregon General Education Transfer Guide Gen Ed-Nat/Math/Info Sciences.

<sup>4</sup> Choose one course from the Eastern Oregon General Education Transfer Guide Gen Ed-Social Science.

### ADVISING NOTES

This degree is designed for students who wish to transfer to Eastern Oregon University's Fire Service Administration degree upon completion. For more information on this bachelor degree program, please contact the Fire Programs director at 541.383.7404.

Most Fire Service Administration program-specific courses begin once per year in fall term; there are a few entry-level courses offered several times per year and non-program support courses can begin in a term other

than fall or if students need to build skills related to the prerequisites. As a general rule, all SFS specific courses should be taken in sequence in term offered during the second year of program. Exceptions can be made based on individual student education and experience.

The following are required for graduation in the FSA program and are only obtainable through affiliation in a fire agency:

- NFPA Firefighter I
- NFPA Hazmat Awareness & Operations
- I-200 FEMA or NWCG certified course

The program requires hands-on training in fire and emergency medical skills and significant on-the-job training (OJT) by joining a fire agency. Most local fire agencies have student and volunteer positions. Students must apply and compete for these positions. Passing a physical training exam is required. Students are required to work with and around mechanical equipment, ropes, fire pumps, fire hose and appliances, ladders, various apparatus and hand tools (both manual and powered). Students need to be aware of the College insurance policy prior to participation in the program. A statement concerning College insurance policies is listed on all Structural Fire Science (SFS) degree syllabi. Students desiring to complete a dual degree – a degree in Paramedicine and a degree in SFS – must follow a specific course of study. Please see the program director for information.

For those pursuing only the AS Fire Service Administration degree, the following courses are recommended as electives. Only 12 CTE credits will count toward AS elective requirements. SFS 102 Firefighter Safety & Survival, SFS 105 Fire Behavior & Combustion I, SFS 210 Fire Investigation, SFS 232 Fire Protection Hydraulics and Water Supply, WF 215 S-215 Fire Operations in the Urban Interface.

For those pursuing the AAS Paramedicine degree as well as the AS Fire Service Administration degree, the following courses are recommended to count as electives. Only 12 CTE credits will count toward AS elective requirements. AH 111 Medical Terminology I, BI 231 Human Anatomy and Physiology I, BI 232 Human Anatomy and Physiology II, BI 233 Human Anatomy and Physiology III, EMT 151 EMT Basic Part A, EMT 152 EMT Basic Part B, EMT 170 Emergency Response Communication/Documentation, EMT 171 Emerg Response Pt Transport, EMT 195 Crisis Intervention.

In addition to standard tuition, student fees and textbooks, students should anticipate the following estimated program costs:

- CPR for Healthcare Provider card \$55, must remain current throughout Basic and Paramedic classes
- Background check \$55. This will be required prior to Basic and Paramedic classes
- EMT 151 EMT Part A: program uniform shirt \$25; FIDAP account \$30; lab equipment \$27.50; badges \$5
- EMT 152 EMT Part B: lab equipment \$27.50
- Fee for State Certification Testing and National Registry Test, currently \$170-\$250
- Materials (boots, ear protection, gloves, etc.) \$200-\$350
- In some cases fees associated with immunizations \$222
- Other special equipment and clothing may be required as part of this program.

## VETERINARY TECHNICIAN

### Veterinary Technician

Associate of Applied Science

#### PROGRAM DESCRIPTION

The Veterinary Technician Associate of Applied Science (AAS) degree is a two-year program designed to prepare students to take the Veterinary Technician National Examination (VTNE) to become a Certified Veterinary Technician (CVT). The Veterinary Technician program is accredited by the AVMA Committee on Veterinary Technician Education and Activities as a program for educating veterinary technicians.

The Veterinary Technician program provides education in subjects such as animal husbandry, nursing, nutrition, animal handling, parasitology, hematology, microbiology, radiology, pharmacology, anesthesiology, dental prophylaxis, surgical assisting, office procedures and includes externships designed to give students practical hands-on experience to build on the skills learned in the classroom.

#### ACCREDITATION

The Central Oregon Community College Veterinary Technician Program is accredited by the American Veterinarian Medical Association (AVMA) Committee on Veterinary Technician Education and Activities (CVTEA) as a program for educating veterinary technicians.

#### PROGRAM COSTS

(beyond standard tuition/fees and textbooks)

##### Material Costs

- Criminal history check, drug screening, immunization verification \$110
- In some cases, immunization cost for Tetanus and Rabies \$100-\$900
- Supplies, such as scrubs, lab jacket, coveralls, farm boots, stethoscope, thermometer, bandage scissors, wrist watch, name badge, calculator, laptop or tablet computer \$300-\$500
- Transportation costs are variable

##### Enrollment Fees

- Student lab fee, per term \$300

#### PROGRAM ENTRANCE REQUIREMENTS

##### Academic Entrance Requirements

- Required:
  - Students must possess a high school diploma or GED equivalency.
  - The following prerequisite courses must be completed with a "C" grade or higher, with a cumulative GPA of 3.0 or higher prior to applying to the Veterinary Technician program.
    - BI 101 General Biology: Cells & Genes or BI 211 Principles of Biology I
    - GS 105 Physical Science: Chemistry or CH 104 Introduction to Chemistry I MTH 095 Intermediate Algebra or MTH 111 College Algebra or higher
    - SP 218 Interpersonal Communication
    - WR 121 Academic Composition
  - 40 hours of observation in a veterinary clinic

##### Other Entrance Requirements

- Required:
  - For a detailed description of admissions requirements, refer to the current year Veterinary Technician Program Admissions Handbook on the Veterinary Technician website. Students must complete a Veterinary Technician program application, which includes completion of the Assessment Technologies Institute Test of Essential Academic Skills (ATI-TEAS) and submit any required documentation as part of their application packet. Admission packets are available at [cocc.edu/programs/vet-tech](http://cocc.edu/programs/vet-tech). Applications are accepted biennially during Spring term for admission to the Veterinary Technician program for the following Fall term.
  - Once admitted into the Veterinary Technician program, students will need to complete the following before the start of Fall term:
    - 10 panel urine drug screen
    - Criminal history check
    - Documentation of immunizations
    - Tdap (required)
    - Rabies (recommended)

#### PROGRAM PERFORMANCE STANDARDS

##### Academic Requirements

- Students must earn a cumulative 3.0 of higher GPA in prerequisite courses.
- All courses in the program must be completed with a grade of C or higher.
- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.



**Additional Requirements**

- Students must enroll full time in all courses listed for each term.
- In order to progress to the next term, students must pass all previous coursework with a grade of 75% or better.
- All Veterinary Technician coursework must be successfully completed prior to entering the clinical practicum courses.

**PROGRAM COURSE REQUIREMENTS**

**Prerequisite Courses**

BI 101	General Biology: Cells & Genes	4
or BI 211	Principles of Biology I	
GS 105	Physical Science: Chemistry	4-5
or CH 104	Introduction to Chemistry I	
SP 218	Interpersonal Communication	3
MTH 095	Intermediate Algebra (or MTH 111 or higher)	4
WR 121	Academic Composition	4
40 hours of observation in a veterinary clinic		

**Core Courses**

VT 101	Intro to Veterinary Technician	3
VT 102	Veterinary Terminology	3
VT 103	Animal Hospital and Office Procedures	2
VT 108	Small Animal Nursing	4
VT 110	Parasitology and Pathology	4
VT 111	Hematology and Urinalysis	5
VT 112	Advanced Small Animal Nursing	4
VT 113	Exotic and Lab Animal Medicine	3
VT 114	Pharmaceutical Math	3
VT 116	Pharmacology	4
VT 117	Veterinary Anatomy & Physiology I	6
VT 118	Veterinary Anatomy & Physiology II	5
VT 200	Radiation Safety	2
VT 201	Anesthesiology and Surgery Techniques	4
VT 202	Surgical Nursing and Dentistry	4
VT 203	Large Animal Nursing	4
VT 204	Diagnostic Imaging	3
VT 206	Small Animal Diseases	4
VT 208	Animal Nutrition	2
VT 209	Large Animal Diseases	3
VT 212	Veterinary Microbiology	4
VT 280	Clinical Practicum I	6
VT 281	Clinical Practicum II	4
360 hours on-site at veterinary practices		

**Total Credits 105-106**

**ADVISING NOTES**

Students are admitted to the Veterinary Technician program through a selective admission process. Admission to the Veterinary Technician program is competitive and enrollment is limited. Program courses must be taken in sequence.

Students are strongly recommended to attend a Veterinary Technician program information session to learn about COCC's Veterinary Technician program and admission requirements prior to application submission. Information session dates and times can be found on the veterinary technician website. Currently, a cohort begins every other Fall term.

This program is intended for students seeking employment as veterinary technicians. These courses are not intended as preparation for a doctor of veterinary medicine degree (see Pre-Vet program). Some courses may transfer to other veterinary technician programs. Please contact your transfer institution for more information.

# WILDLAND FIRE/FUELS MANAGEMENT

## Wildland Fire/Fuels Management Associate of Applied Science

**PROGRAM DESCRIPTION**

The Associate of Applied Science degree in Wildland Fire/Fuels Management is designed to prepare a student for a job in Fire/Fuels management. Students will learn importance of how fire/fuels management fits in the managing of ecosystems and natural resources as one of the more important aspects of fire management, including the reintroduction of fire as an ecosystem process.

**ACCREDITATION**

National Wildfire Coordinating Group (NWCG), monitored by the Pacific Northwest Coordinating Group (PNWCG)

**PROGRAM COSTS**

(beyond standard tuition/fees and textbooks)

**Material Costs**

- Hard hat, gloves, 12" leather boots with Vibram soles, fire clothes, ear protection, eye protection: \$250-\$500. (Some fire clothes may be provided by the College, check with the program director. Boots will NOT be provided.)

**PROGRAM ENTRANCE REQUIREMENTS**

**Academic Entrance Requirements**

- Strongly Recommended:
  - Minimum placement scores resulting in WR 121 Academic Composition placement or completion of WR 065 Rhetoric/Critical Thinking II/WR 095 Basic Writing II with a grade "C" or better
  - Minimum placement scores resulting in MTH 060 Algebra I/MTH 085 Technical Mathematics I placement or completion of MTH 020 Pre-Algebra with a grade "C" or better
- Recommended:
  - High school diploma or GED

**Other Entrance Requirements**

- Required:
  - Current employment with a wildland fire suppression organization

**PROGRAM PERFORMANCE STANDARDS**

**Academic Requirements**

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses in the program must be completed with a grade of C or higher.

**PROGRAM COURSE REQUIREMENTS**

**Core Courses**

FOR 100	Forestry Program Orientation	1
FOR 110	Wildland Fire Science I	2
FOR 111	Forestry Perspectives	4
or SFS 101	Introduction to Emergency Services	
FOR 208	Soils: Sustainable Ecosystems	4
FOR 209	Fire Ecology and Effects	3
FOR 210	Wildland Fire Science II	2
FOR 211	Supervision and Leadership	3
FOR 230A	Map, Compass and GPS	3
FOR 231	GPS Mapping	1
FOR 235	Resource Measurements	4
FOR 236	Aerial Photo	3
FOR 240A	Forest Ecology	3
FOR 241A	Field Dendrology	3
FOR 241B	Dendrology	3
FOR 260	Conservation of Natural Resources	3
FOR 271	Applied Forest Ecology	3
FOR 272	Forest Entomology/Pathology	3



FOR 273	Silviculture and Harvesting Systems	5
GEOG 265	Geographic Information Systems	4
GEOG 273	Spatial Data Collection	5
WF 101	Firefighter Type II Training	3
WF 111	Tactical Decision Simulations	2
WF 290	S-290 Intermediate Wildfire Behavior	3
WF 298	S-390 Fire Behavior Calculation	3
Choose six credits from the Wildland Fire Electives:		6
Any course with a WF prefix		
BA 101	Intro to Business	
FOR 130	Chainsaw Use and Maintenance	
SFS 101	Introduction to Emergency Services	
SFS 102	Firefighter Safety & Survival	

**Other Requirements**

CIS 120	Computer Concepts (or Computer Competency Test)	0-4
Discipline Studies Course		3-4
HHPA Activity Course		1
HHP 295	Health and Fitness	3
or HHP 242 Stress Management		
or HHP 266 Nutrition for Health		
MTH 085	Technical Mathematics I	4-8
& MTH 086 Technical Mathematics II		
or MTH 111 College Algebra		
Choose one course from the following:		3-4
SP 111	Fundamentals Public Speaking	
SP 115	Intro Intercultural Commun	
SP 218	Interpersonal Communication	
SP 219	Small Group Communication	
WR 121	Academic Composition	4

A minimum of 60 days fire-related work experience approved by the Wildland Fire Science director

**Total Credits 97-107**

**ADVISING NOTES**

This degree is designed for students planning to enter their chosen career upon graduation. Often only selected credits are considered transferable to public or private baccalaureate institutions.

A minimum of 60 days fire-related work experience approved by the Wildland Fire Science director is required for graduation.

All Suppression short courses (S-courses), students will be given National Wildfire Coordinating Group (NWCG) certification.

- Minimum qualifications for entry into the occupation is Firefighter Type II (FFT2) which is offered fall/winter term for the less-than-one-year Firefighter Type II certificate.
- Students will need to be physically fit for employment in the occupation of Wildland Firefighter. For an FFT2 position, students will be required to pass the arduous "pack test" (three miles in 45 minutes carrying 45 pounds).

Because the short courses are sponsored by the East Slope Training region, the short courses (S-courses) are available to students in the following order:

1. Sponsored government and state employees, including structural fire agencies, from within the East Slope Training area;
2. Sponsored government and state employees, including structural fire agencies, from outside the East Slope Training area; and
3. Full-time COCC students/part-time COCC students/private contractors (in that order) who meet the qualifications of the course. Students must provide a copy of training records to the program director.

**Wildland Fire Suppression  
Certificate of Completion**

**PROGRAM DESCRIPTION**

The one-year certificate is designed to provide basic skills for students interested in working in the wildland fire profession. Courses are open to all students and the certificate takes three terms/quarters to complete for

students attending full time. The Wildland Fire program also offers more extensive training with an Associate of Applied Science (AAS) degree in Wildland Fire/ Fuels Management.

**PROGRAM COSTS**

(beyond standard tuition/fees and textbooks)

**Material Costs**

- Hard hat, gloves, 12" leather boots with Vibram soles, fire clothes, ear protection, eye protection: \$250-\$500. (Some fire clothes may be provided by the College, check with the program director. Boots will NOT be provided.)

**PROGRAM ENTRANCE REQUIREMENTS**

**Academic Entrance Requirements**

- Strongly Recommended:
  - Minimum placement scores resulting in WR 121 Academic Composition placement or completion of WR 065 Rhetoric/Critical Thinking II/WR 095 Basic Writing II with a grade "C" or higher
  - Minimum placement scores resulting in MTH 060 Algebra I/MTH 085 Technical Mathematics I placement or completion of MTH 020 Pre-Algebra with a grade "C" or higher
- Recommended:
  - High school diploma or GED

**PROGRAM PERFORMANCE STANDARDS**

**Academic Requirements**

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses in the program must be completed with a grade of C or higher.

**PROGRAM COURSE REQUIREMENTS**

**Core Courses**

FOR 100	Forestry Program Orientation	1
FOR 110	Wildland Fire Science I	2
FOR 111	Forestry Perspectives	4
or SFS 101 Introduction to Emergency Services		
FOR 211	Supervision and Leadership	3
FOR 230A	Map, Compass and GPS	3
HHPA Activity Course		1
HHP 295	Health and Fitness	3
or HHP 242 Stress Management		
or HHP 266 Nutrition for Health		
WF 101	Firefighter Type II Training	3
WF 103	Safety for Survival	3
or SFS 102 Firefighter Safety & Survival		
WF 111	Tactical Decision Simulations	2
WF 215	S-215 Fire Operations in the Urban Interface	3
WF 290	S-290 Intermediate Wildfire Behavior	3
Choose from the courses below for a total of 4 credits:		4
FOR 130	Chainsaw Use and Maintenance	
Any WF prefix course not required for degree		

**Other Requirements**

MTH 085	Technical Mathematics I (or higher)	4
WR 121	Academic Composition	4

**Total Credits 43**

**ADVISING NOTES**

This certificate is designed for students planning to enter their chosen career upon graduation. Often only selected credits are considered transferable to public or private baccalaureate institutions.

For all Suppression short courses (S-courses), students will be given National Wildfire Coordinating Group (NWCG) certification.

Minimum qualifications for entry into the occupation is Firefighter Type II (FFT2) which is offered fall/winter term for the less-than-one-year Firefighter Type II certificate.

Students will need to be physically fit for employment in the occupation of wildland firefighter. For an FFT2 position, students will be required to pass the arduous "pack test" (three miles in 45 minutes carrying 45 pounds).

Because the short courses are sponsored by the East Slope Training region, the short courses (S-courses) are available to students in the following order:

1. Sponsored government and state employees, including structural fire agencies, from within the East Slope Training area
2. Sponsored government and state employees, including structural fire agencies, from outside the East Slope Training area; and
3. Full-time COCC students/part-time COCC students/private contractors (in that order) who meet the qualifications of the course. Students must provide a copy of training records to the program director.

## Wildland Firefighter Type II

### Short term Certificate of Completion

#### PROGRAM DESCRIPTION

The short-term certificate is designed to provide basic skills for students interested in working in the wildland fire profession. Courses are open to all students and the certificate takes one to two terms/quarters to complete.

Students will meet the standards set forth by the National Wildfire Coordinating Group under the Wildland Qualifications System for the courses that taught using NWCG curriculum and provides certification. The Wildland Fire program also offers more extensive training with a Certificate of Completion in Wildland Fire Suppression as well as an Associate of Applied Science (AAS) degree in Wildland Fire/Fuels Management.

#### PROGRAM COSTS

(beyond standard tuition/fees and textbooks)

##### Material Costs

- Hard hat, gloves, 12" leather boots with Vibram soles, fire clothes, ear protection, eye protection: \$250-\$500. (Some fire clothes may be provided by the College, check with the program director. Boots will NOT be provided.)

#### PROGRAM ENTRANCE REQUIREMENTS

##### Academic Entrance Requirements

- Required:
  - Minimum placement scores resulting in WR 121 Academic Composition placement or completion of WR 065 Rhetoric and Critical Thinking II/WR 095 Basic Writing II with a grade "C" or better
  - Minimum placement scores resulting in MTH 060 Algebra I/MTH 085 Technical Mathematics I placement or completion of MTH 020 Pre-Algebra with a grade "C" or better
- Recommended:
  - High school diploma or GED

#### PROGRAM PERFORMANCE STANDARDS

##### Academic Requirements

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses in the program must be completed with a grade of C or higher.

#### PROGRAM COURSE REQUIREMENTS

##### Core Courses

FOR 100	Forestry Program Orientation	1
FOR 110	Wildland Fire Science I	2
FOR 111	Forestry Perspectives	4
or SFS 101	Introduction to Emergency Services	
FOR 230A	Map, Compass and GPS	3
WF 101	Firefighter Type II Training	3
WF 103	Safety for Survival	3
or SFS 102	Firefighter Safety & Survival	
WF Elective or FOR 130		2-4
<b>Total Credits 18-20</b>		

#### ADVISING NOTES

For all Suppression short courses (S-courses), students will be given National Wildfire Coordinating Group (NWCG) certification. Minimum qualifications for entry into the occupation is Firefighter Type II (FFT2) which is offered fall term for the less-than-one-year Firefighter Type II certificate.

Students will need to be physically fit for employment in the occupation of wildland firefighter. For an FFT2 position, students are required to pass the arduous "pack test" (three miles in 45 minutes carrying 45 pounds).

This certificate is designed for students planning to enter their chosen career upon graduation. Often only selected credits are considered transferable to public or private baccalaureate institutions.

## WORLD LANGUAGES

### World Languages

#### Associate of Arts Oregon Transfer

#### FOCUS AREA DESCRIPTION

In today's globally interconnected world and increasingly competitive job market, students with proficiency in more than one language, supported by cultural knowledge and empathetic experience of diverse U.S. and world cultures, have a decided advantage in whatever career they may pursue. Bachelor's degree requirements at most Oregon and other universities include demonstrating proficiency at the second-year level in a world language.

The World Languages and Cultures department offers first- and second-year French, Spanish, German, Italian, Chinese and other courses needed to satisfy lower-division requirements for bachelor's degrees and to prepare transfer students for success in achieving their academic and professional goals. Students seeking a bachelor's degree in French, Spanish, German, Italian, Chinese, or a related degree, or a teaching endorsement featuring world language, literature and culture studies are often best served by pursuing the Associate of Arts Oregon Transfer degree (AAOT).

#### PROGRAM ENTRANCE REQUIREMENTS

None

#### PROGRAM PERFORMANCE STANDARDS

##### Academic Requirements

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses in the program must be completed with a grade of C or higher.

#### PROGRAM COURSE REQUIREMENTS

##### General Education/Foundational

**Health**  
3 credits with HHP or HHPA prefix <sup>1</sup> 3

**Mathematics**  
MTH 105 Math in Society (or higher) 4

**Oral Communication**  
Choose one course from the following: <sup>2</sup> 3-4  
 SP 111 Fundamentals Public Speaking  
 SP 114 Argumentation & Discourse  
 SP 115 Intro Intercultural Commun  
 SP 218 Interpersonal Communication  
 SP 219 Small Group Communication

**Writing**  
 WR 121 Academic Composition 4  
 WR 122 Argument, Research and Multimodal Composition 4  
 or WR 227 Technical Writing

**General Education/Discipline Studies**

One course must be designated as Cultural Literacy.

**Arts and Letters**

9-12

Choose at least three courses from at least two prefixes<sup>3</sup>

Recommend: Second year world language courses<sup>3</sup>

**Social Science**

12-16

Choose at least four courses from at least two prefixes<sup>4</sup>

**Science/Math/Computer Science**

12-20

Choose at least three courses from at least two prefixes including at least three laboratory courses in biological and/or physical science

**Electives**

39

Choose enough electives to reach the minimum of 90 credits required for the AAOT

**Total Credits 90-106**

<sup>1</sup> HHPA activity courses (1 credit each) are not to be duplicated.

<sup>2</sup> Related course to consider: SP 115 Intro Intercultural Communication

<sup>3</sup> Second-year world language courses fit into this category. Any second-year world language course not used to satisfy this requirement may be counted as an elective. First-year language courses are counted as electives.

<sup>4</sup> Related course to consider: ANTH 240 Language and Culture

**ADVISING NOTES**

Oregon public universities that offer bachelor's degrees, minors, certificates or endorsements in world languages and related fields:

- Eastern Oregon University
- Oregon State University-Corvallis
- Portland State University
- Southern Oregon University
- University of Oregon
- Western Oregon University