Clackamas Community College

Hours, Instructional Method, Credits Change

Course	Current Hours/Credits	Proposed Hours/Credits
GIS-101	44 LE/LA/2 Credits	33 LECT, 33 LAB/4 Credits
GIS-201	66 LE/LA/3 Credits	33 LECT, 33 LAB/4 Credits
GIS-202	66 LE/LA/3 Credits	33 LECT, 33 LAB/4 Credits
GIS-232	44 LE/LA/2 Credits	33 LECT, 33 LAB/4 Credits
GIS-236	66 LE/LA/3 Credits	33 LECT, 33 LAB/4 Credits
GIS-238	44 LE/LA/2 Credits	33 LECT, 33 LAB/4 Credits
GIS-270	66 LE/LA/3 Credits	33 LECT, 33 LAB/4 Credits
GIS-286	60 LE/LA/3 Credits	33 LECT, 33 LAB/4 Credits

Course Change Request

Date Submitted: 03/20/25 3:15 pm

Viewing: **GIS-101 : Maps and ~~Principles of~~ Geospatial Technology**

Last approved: 11/04/23 4:53 am

Last edit: 04/02/25 11:29 am

Changes proposed by: Angela Armen (angela.armen)

Catalog Pages referencing this course

Geographic Information Systems (GIS)

Programs referencing this course

CC.WILDSURVIVAL: Wilderness Survival & Leadership
CC.FIREFOREST: Wildland Fire Forestry
AAS.WLDLNDMGMT: Wildland Fire Management
CC.FSWILDLAND: Wildland Fire Science
CC.FIREFIGHT1: Wildland Firefighter 1
CC.EMP: Emergency Management Professional
AAS.EMP: Emergency Management Professional
CC.GIS: Geographic Information Systems (GIS) Technology

Credits/Hours/Instructional Method Change

Yes

In Workflow

1. **Curriculum Office**
2. **DTPS Curriculum Committee Outline Review Team**
3. **Curriculum Office**
4. Curriculum Committee Approval
5. Colleague

Approval Path

1. 03/20/25 6:21 am Megan Feagles (megan.feagles): Rollback to Initiator
2. 03/26/25 8:27 am Megan Feagles (megan.feagles): Approved for Curriculum Office
3. 04/02/25 11:30 am Erin Gravelle (erin.gravelle): Approved for DTPS Curriculum Committee Outline Review Team

History

1. Nov 4, 2023 by Megan Feagles (megan.feagles)

Reason for proposal

Updating course to reflect the work students are already completing.

Is Topic Shell Course?

Are you the Faculty Contact Person?

Yes

Course Prefix	GIS - Geographic Information Systems
Course Number	101
Department	Emergency Management/GIS
Division	Technology, Applied Science and Public Services (TAPS)
Course Title	Maps and ~~Principles of~~ Geospatial Technology

Grading

Grade Scheme	Standard (STND)
Credit Type	Credit Course
Allow Pass/No Pass	Yes
Only Pass/No Pass	No
Audit	No
Min Credit	4.00 ~~2.00~~
Variable Credit	No

Contact hours

Lecture	33.00
Lec/Lab	~~44.00~~
Lab	33.00
Activity	
Clinical	

Field	
CWE Seminar	
CPR	
Seminar	
Community Education/Drivers Ed	
Community Education/Adult	
Total	66 ~~44~~
Proposed Effective Term	Summer 2025

I acknowledge that this course, for the average student, will be a time commitment of 3 hours per week per credit in combination of in-class and out-of-class activity.

Course Description

This course provides ~~serves as~~ an overview of the concepts and principles of geospatial technology using lab activities to explore maps, geospatial data, and geospatial software. Major themes include ~~include:~~ maps and cartography, ~~geodesy,~~ geographic information systems, spatial data, ~~data privacy,~~ global navigation satellite systems, remote sensing, ~~sensing/image interpretation,~~ terrain analysis, web maps, and the geospatial industry.

Type of Course (ACTI Code)

210 - Career Technical Preparatory

Is this class challengeable?

Yes

Can this course be repeated for credit in a degree?

No

Course Requisites

Required

Prerequisites

Corequisites

Prerequisites or Corequisites

Recommended

Prerequisites

Corequisites

Prerequisites or Corequisites

Non-Course Requisites

Required

Recommended

Is Student Petition required?

No

Show course in Schedule: Print in Schedule

Hide course in catalog: No

When do you plan to offer this course?

Fall/Winter/Spring ~~Fall~~

Will this class use library resources?

Yes

Have you talked with a librarian regarding that impact?

Yes

Course Certifications

Is this a Related Instruction course?

No

Are you going to seek General Education Certification after course approval?

No

General Education Outcome(s)

Equivalent Courses

Equivalent Active Courses

Equivalent Inactive Courses

Student Learning Outcomes

Student Learning Outcomes

	Upon successful completion of this course, students should be able to:
1	describe the role of geospatial technology as tools integral to society;
2	connect fundamental cartographic and mapping concepts to geospatial technologies;
3	articulate key geospatial technology terms and concepts;
4	use a variety of geospatial software.

Major Topic Outline

1. Geospatial Technologies and Software 2. Map Forms and Uses 3. Map Scale, Generalization, and Elements 4. Geodesy 5. Spatial Data and Privacy 6. Geographic Information Systems and the Future of Geospatial Capabilities 7. Global Navigation Satellite Systems 8. Remote Sensing and Image Interpretation 9. Digital Terrain and the Physical Landscape 10. Career Opportunities in the Geospatial Industry

Green Course Management

Does the content of this class relate to job skills in any of the following areas:

Increased Energy Efficiency

No

Produce Renewable Energy

No

Prevent Environmental Degradation

Yes

Clean up Natural Environment

Yes

Supports Green Services

Yes

Percent of Course 20

Reviewer Comments

Megan Feagles (megan.feagles) (03/20/25 6:21 am): Rollback: Please enter a reason for the credit change in the "Reason for Proposal" field and resubmit the course to workflow. Please also reach out to the programs that this course is listed in so that they can submit program amendments to reflect the credit change. Thanks.

Key: 848

Preview Bridge

Course Change Request

Date Submitted: 03/19/25 3:23 pm

Viewing: GIS-201 : Introduction to Geographic Information Systems

Last approved: 10/03/23 4:27 am

Last edit: 03/31/25 1:20 pm

Changes proposed by: Angela Armen (angela.armen)

Catalog Pages referencing this course

Geographic Information Systems (GIS)

Programs referencing this course

AAS.WATERENVIRONTECH: Water & Environmental Technology

CC.WATERENVIRONTECH: Water & Environmental Technology

AAS.WLDLNDMGMT: Wildland Fire Management

AS.OSUCIVILENGR: AS, Civil Engineering, OSU

AAS.EMP: Emergency Management Professional

CC.GIS: Geographic Information Systems (GIS) Technology

Credits/Hours/Instructional Method Change

Yes

In Workflow

1. **Curriculum Office**
2. **DTPS Curriculum Committee Outline Review Team**
3. **Curriculum Office**
4. Curriculum Committee Approval
5. Colleague

Approval Path

1. 03/19/25 2:32 pm Megan Feagles (megan.feagles): Rollback to Initiator
2. 03/26/25 8:27 am Megan Feagles (megan.feagles): Approved for Curriculum Office
3. 04/02/25 11:27 am Erin Gravelle (erin.gravelle): Approved for DTPS Curriculum Committee Outline Review Team

History

1. Oct 3, 2023 by Megan Feagles (megan.feagles)

Reason for proposal

Updating curriculum and program. Updating our instructional methods and credits to better reflect what students are doing in the class.

Is Topic Shell Course?

Are you the Faculty Contact Person?

Yes

Course Prefix	GIS - Geographic Information Systems
Course Number	201
Department	Emergency Management/GIS
Division	Technology, Applied Science and Public Services (TAPS)
Course Title	Introduction to Geographic Information Systems

Grading

Grade Scheme	Standard (STND)
Credit Type	Credit Course
Allow Pass/No Pass	Yes
Only Pass/No Pass	No
Audit	No
Min Credit	4.00 ~~3.00~~
Variable Credit	No

Contact hours

Lecture	33.00
Lec/Lab	~~66.00~~
Lab	33.00
Activity	

Clinical	
Field	
CWE Seminar	
CPR	
Seminar	
Community Education/Drivers Ed	
Community Education/Adult	
Total	66
Proposed Effective Term	Summer 2025

I acknowledge that this course, for the average student, will be a time commitment of 3 hours per week per credit in combination of in-class and out-of-class activity.

Course Description

This course explores fundamental geographic information systems (GIS) concepts utilizing hands-on application through various laboratory exercises with industry-standard ArcGIS software. The class explores basic map principles, cartographic design, geodesy, and geospatial data manipulation while exploring ArcGIS Online to create, display, query, relate, classify, and analyze spatial data to create maps and answer geographic questions.

Type of Course (ACTI Code)

210 - Career Technical Preparatory

Is this class challengeable?

Yes

Can this course be repeated for credit in a degree?

No

Course Requisites

Required

Prerequisites

Corequisites

Prerequisites or Corequisites

Recommended

Prerequisites

Corequisites

Prerequisites or Corequisites

Non-Course Requisites

Required

Recommended

Is Student Petition required?

No

Show course in Schedule: Print in Schedule

Hide course in catalog

No

When do you plan to offer this course?

Summer/Fall

Will this class use library resources?

Yes

Have you talked with a librarian regarding that impact?

Yes

Course Certifications

Is this a Related Instruction course?

No

Are you going to seek General Education Certification after course approval?

No

General Education Outcome(s)

Equivalent Courses

Equivalent Active Courses

Equivalent Inactive Courses

Student Learning Outcomes

Student Learning Outcomes

	Upon successful completion of this course, students should be able to:
1	explain different map types and elements;
2	query features using logical expressions;
3	find features using spatial relationships;
4	research and obtain spatial data and non-spatial data;
5	explore and apply geodetic principles to GIS data;

	Upon successful completion of this course, students should be able to:
6	use joins to solve geospatial problems;
7	create and use a geodatabase in the ArcGIS environment;
8	create maps and present analysis findings.

Major Topic Outline

1. Basics of ArcGIS. 2. Locating and processing spatial data. 3. Displaying and georeferencing data in ArcGIS. 4. Table and spatial joins in ArcGIS. 5. Vector ~~and raster~~ analysis in ArcGIS. 6. Working with attributes in ArcGIS. 7. Spatial and attribute queries. 8. Presenting data in ArcGIS. 9. Basic cartographic principles.

Green Course Management

Does the content of this class relate to job skills in any of the following areas:

Increased Energy Efficiency

No

Produce Renewable Energy

No

Prevent Environmental Degradation

Yes

Clean up Natural Environment

Yes

Supports Green Services

Yes

Percent of Course 20

Reviewer Comments

Megan Feagles (megan.feagles) (03/19/25 2:32 pm): Rollback: Please enter a reason for the credit change in the "Reason for Proposal" field and resubmit the course to workflow.

Key: 849

Preview Bridge

Course Change Request

Date Submitted: 03/19/25 3:42 pm

Viewing: GIS-202 : GIS Applications ~~Intermediate Geographic Information Systems~~

Last approved: 11/04/23 4:53 am

Last edit: 03/19/25 6:59 pm

Changes proposed by: Angela Armen (angela.armen)

Catalog Pages
referencing this
course
Geographic Information Systems (GIS)

Programs
referencing this
course
CC.GIS: Geographic Information Systems (GIS) Technology

Credits/Hours/Instructional Method Change

Yes

In Workflow

1. **Curriculum Office**
2. **DTPS Curriculum Committee Outline Review Team**
3. **Curriculum Office**
4. Curriculum Committee Approval
5. Colleague

Approval Path

1. 03/19/25 2:45 pm Megan Feagles (megan.feagles): Rollback to Initiator
2. 03/19/25 7:00 pm Megan Feagles (megan.feagles): Approved for Curriculum Office
3. 04/02/25 11:26 am Erin Gravelle (erin.gravelle): Approved for DTPS Curriculum Committee Outline Review Team

History

1. Nov 4, 2023 by Megan Feagles (megan.feagles)

Reason for proposal

Updating course to better reflect the work students are already completing.

Is Topic Shell Course?

Are you the Faculty Contact Person?

Yes

Course Prefix	GIS - Geographic Information Systems
Course Number	202
Department	Emergency Management/GIS
Division	Technology, Applied Science and Public Services (TAPS)
Course Title	GIS Applications ~~Intermediate Geographic Information Systems~~

Grading

Grade Scheme	Standard (STND)
Credit Type	Credit Course
Allow Pass/No Pass	Yes
Only Pass/No Pass	No
Audit	Yes
Min Credit	4.00 ~~3.00~~
Variable Credit	No

Contact hours

Lecture	33.00
Lec/Lab	~~66.00~~
Lab	33.00
Activity	
Clinical	

Field	
CWE Seminar	
CPR	
Seminar	
Community Education/Drivers Ed	
Community Education/Adult	
Total	66
Proposed Effective Term	Summer 2025

I acknowledge that this course, for the average student, will be a time commitment of 3 hours per week per credit in combination of in-class and out-of-class activity.

Course Description

This class follows the introductory course as a continuation of Geographic Information Systems (GIS). ~~(GIS) principles using the ArcGIS Pro software platform.~~ Topics explored include working with geodatabases, topology, vector and raster analysis, and creating and editing data. Students also practice key GIS project management processes, workflows, and best practices through an analysis project.

Type of Course (ACTI Code)

210 - Career Technical Preparatory

Is this class challengeable?

Yes

Can this course be repeated for credit in a degree?

No

Course Requisites

Required

Prerequisites

~~GIS-201~~

Corequisites

Prerequisites or Corequisites

Recommended

Prerequisites

GIS-201

Corequisites

Prerequisites or Corequisites

Non-Course Requisites

Required

Recommended

Is Student Petition required?

No

Show course in Schedule: Print in Schedule

Hide course in catalog: No

When do you plan to offer this course?

Winter

Will this class use library resources?

Yes

Have you talked with a librarian regarding that impact?

Yes

Course Certifications

Is this a Related Instruction course?

No

Are you going to seek General Education Certification after course approval?

No

General Education Outcome(s)

Equivalent Courses

Equivalent Active Courses

Equivalent Inactive Courses

Student Learning Outcomes

Student Learning Outcomes

	Upon successful completion of this course, students should be able to:
1	acquire and manage geographic data;
2	create and manage geodatabases (feature, subtypes, domains, topology);
3	create and edit GIS data;
4	place labels using advanced labeling properties;
5	perform vector and raster analysis;
6	utilize models and analysis workflows;
~~7~~	~~use ArcGIS ModelBuilder for process automation;~~

	Upon successful completion of this course, students should be able to:
7 ~~8~~	explore advanced spatial analysis concepts (geostatistics, networks, etc);
8 ~~9~~	complete a comprehensive real world GIS project;
9 ~~10~~	produce high-quality maps and visualizations.

Major Topic Outline

1. Geodatabase components (feature datasets, domains, subtypes, topology). 2. Design and create a geodatabase schema. 3. ~~Automating GIS processes in ArcGIS ModelBuilder. 4.~~ Using models for process documentation and workflow management. 4. ~~5.~~ Creating and editing GIS data. 5. ~~6.~~ Spatial extraction. 6. ~~7.~~ Proximity and overlay analysis. 7. ~~8.~~ Advanced cartographic methods and techniques. 8. ~~9.~~ Managing a GIS project. 9. ~~10.~~ Presenting results.

Green Course Management

Does the content of this class relate to job skills in any of the following areas:

Increased Energy Efficiency

No

Produce Renewable Energy

No

Prevent Environmental Degradation

Yes

Clean up Natural Environment

Yes

Supports Green Services

Yes

Percent of Course 20

Reviewer Comments

Megan Feagles (megan.feagles) (03/19/25 2:45 pm): Rollback: Please enter a reason for the credit change in the "Reason for Proposal" field and resubmit the course to workflow.

Key: 850

Preview Bridge

Course Change Request

Date Submitted: 03/20/25 3:12 pm

Viewing: GIS-232 : Data Collection & Application

Last approved: 11/04/23 4:53 am

Last edit: 03/20/25 3:12 pm

Changes proposed by: Angela Armen (angela.armen)

Catalog Pages
referencing this
course
Geographic Information Systems (GIS)

Programs
referencing this
course
CC.GIS: Geographic Information Systems (GIS) Technology

Credits/Hours/Instructional Method Change

In Workflow

1. **Curriculum Office**
2. **DTPS Curriculum Committee Outline Review Team**
3. **Curriculum Office**
4. Curriculum Committee Approval
5. Colleague

Approval Path

1. 03/17/25 11:00 am Megan Feagles (megan.feagles): Approved for Curriculum Office
2. 03/19/25 3:15 pm Dru Urbassik (dru.urbassik): Rollback to Initiator
3. 03/20/25 6:21 am Megan Feagles (megan.feagles): Rollback to Initiator
4. 03/20/25 3:15 pm Megan Feagles (megan.feagles): Approved for Curriculum Office
5. 04/02/25 11:23 am Erin Gravelle (erin.gravelle): Approved for DTPS Curriculum

Committee Outline Review Team

History

1. Nov 4, 2023 by Megan Feagles (megan.feagles)

Yes

Reason for proposal

Updating course to reflect the work students are already completing.

Is Topic Shell Course?

Are you the Faculty Contact Person?

Yes

Course Prefix	GIS - Geographic Information Systems
Course Number	232
Department	Emergency Management/GIS
Division	Technology, Applied Science and Public Services (TAPS)
Course Title	Data Collection & Application

Grading

Grade Scheme	Standard (STND)
Credit Type	Credit Course
Allow Pass/No Pass	Yes
Only Pass/No Pass	No
Audit	Yes
Min Credit	4.00 ~~2.00~~
Variable Credit	No

Contact hours

Lecture	33.00
Lec/Lab	~~44.00~~
Lab	33.00
Activity	
Clinical	
Field	
CWE Seminar	
CPR	
Seminar	
Community Education/Drivers Ed	
Community Education/Adult	
Total	66 ~~44~~
Proposed Effective Term	Summer 2025

I acknowledge that this course, for the average student, will be a time commitment of 3 hours per week per credit in combination of in-class and out-of-class activity.

Yes

Course Description

This course introduces data collection techniques and application of those techniques. This course explores different techniques to collect spatial and attribute data. The class focuses on GPS (Global Positioning System) data collection using a combination of recreational/mapping-grade GPS units and standard mobile devices (with embedded GPS) used in industry. The class will emphasize the capabilities and strengths of each type of data collection equipment.

Type of Course (ACTI Code)

210 - Career Technical Preparatory

Is this class challengeable?

No

Can this course be repeated for credit in a degree?

No

Course Requisites

Required

Prerequisites

~~GIS-101~~

Corequisites

Prerequisites or Corequisites

Recommended

Prerequisites

Corequisites

Prerequisites or Corequisites

Non-Course Requisites

Required

Recommended

Is Student Petition required?

No

Show course in Schedule: Print in Schedule

Hide course in catalog

No

When do you plan to offer this course?

Spring

Will this class use library resources?

Yes

Have you talked with a librarian regarding that impact?

Yes

Course Certifications

Is this a Related Instruction course?

No

Are you going to seek General Education Certification after course approval?

No

General Education Outcome(s)

Equivalent Courses

Equivalent Active Courses

Equivalent Inactive Courses

Student Learning Outcomes

Student Learning Outcomes

	Upon successful completion of this course, students should be able to:
1	demonstrate proficiency in data collection techniques;
2	effectively plan for data collection;
3	effectively collect different types of data;
4	use GIS hardware and software in data collection;
5	transfer and display the data in a GIS system.

Major Topic Outline

1. Gather data with GPS equipment. 2. Database design for data collection. 3. Import external data into a GIS. 4. Creating reports from collected data. 5. Present the collected data in as a GIS project.

Green Course Management

Does the content of this class relate to job skills in any of the following areas:

Increased Energy Efficiency

No

Produce Renewable Energy

No

Prevent Environmental Degradation

No

Clean up Natural Environment

No

Supports Green Services

No

Percent of Course 0

Reviewer Comments

Key: 852

Preview Bridge

Course Change Request

Date Submitted: 03/19/25 3:38 pm

Viewing: GIS-236 : ~~Introduction to~~ Programming for GIS

Last approved: 11/04/23 4:53 am

Last edit: 03/19/25 3:38 pm

Changes proposed by: Angela Armen (angela.armen)

Catalog Pages
referencing this
course
Geographic Information Systems (GIS)

Programs
referencing this
course
CC.GIS: Geographic Information Systems (GIS) Technology

Credits/Hours/Instructional Method Change

Yes

In Workflow

1. **Curriculum Office**
2. **DTPS Curriculum Committee Outline Review Team**
3. **Curriculum Office**
4. Curriculum Committee Approval
5. Colleague

Approval Path

1. 03/19/25 2:33 pm Megan Feagles (megan.feagles): Rollback to Initiator
2. 03/19/25 7:01 pm Megan Feagles (megan.feagles): Approved for Curriculum Office
3. 04/02/25 11:22 am Erin Gravelle (erin.gravelle): Approved for DTPS Curriculum Committee Outline Review Team

History

1. Nov 4, 2023 by Megan Feagles (megan.feagles)

Reason for proposal

Updating program and credits to better reflect what students are completing in the class.

Is Topic Shell Course?

Are you the Faculty Contact Person?

Yes

Course Prefix	GIS - Geographic Information Systems
Course Number	236
Department	Emergency Management/GIS
Division	Technology, Applied Science and Public Services (TAPS)
Course Title	~~Introduction to~~ Programming for GIS

Grading

Grade Scheme	Standard (STND)
Credit Type	Credit Course
Allow Pass/No Pass	Yes
Only Pass/No Pass	No
Audit	Yes
Min Credit	4.00 ~~3.00~~
Variable Credit	No

Contact hours

Lecture	33.00
Lec/Lab	~~66.00~~
Lab	33.00
Activity	
Clinical	

Field	
CWE Seminar	
CPR	
Seminar	
Community Education/Drivers Ed	
Community Education/Adult	
Total	66
Proposed Effective Term	Summer 2025

I acknowledge that this course, for the average student, will be a time commitment of 3 hours per week per credit in combination of in-class and out-of-class activity.

Yes

Course Description

An introduction to computer programming and Object Orientated Programming (OOP) with Python. Covers basic computer programming concepts including data types, loops, control structures, functions, classes, and program development. Use Python for problem solving by creating basic scripts for more advanced object-oriented programs.

Type of Course (ACTI Code)

210 - Career Technical Preparatory

Is this class challengeable?

Yes

Can this course be repeated for credit in a degree?

No

Course Requisites

Required

Prerequisites

Corequisites

Prerequisites or Corequisites

Recommended

Prerequisites

~~GIS-101~~

Corequisites

Prerequisites or Corequisites

Non-Course Requisites

Required

Recommended

Is Student Petition required?

No

Show course in Schedule: Print in Schedule

Hide course in catalog

No

When do you plan to offer this course?

Winter

Will this class use library resources?

Yes

Have you talked with a librarian regarding that impact?

No

Course Certifications

Is this a Related Instruction course?

No

Are you going to seek General Education Certification after course approval?

No

General Education Outcome(s)

Equivalent Courses

Equivalent Active Courses

Equivalent Inactive Courses

Student Learning Outcomes

Student Learning Outcomes

	Upon successful completion of this course, students should be able to:
1	describe how computers and computer programs work;
2	write scripts using the Python programming language;
3	apply Python coding best practices and software development methodology;
4	demonstrate how to design, write, and implement a Python program to solve a given problem.

Major Topic Outline

1. Basic of computer programming and how to communicate with the computer 2. Data types, variables, expressions, and statements 3. strings 4. Control structures, conditional execution, loops, and iterations 5. Data structures, lists, dictionaries, tuples 6. Reading and writing from files 7. Functions 8. Object-oriented programming. Classes, modules, and site-packages 9. Advanced Python. Comprehensions, decorators, context managers 10. Error handling and logging 11. Network, web, database access and manipulation.

Green Course Management

Does the content of this class relate to job skills in any of the following areas:

Increased Energy Efficiency

No

Produce Renewable Energy

No

Prevent Environmental Degradation

No

Clean up Natural Environment

No

Supports Green Services

No

Percent of Course 0

Reviewer Comments

Megan Feagles (megan.feagles) (03/19/25 2:33 pm): Rollback: 33 LECT and 33 LAB hours should be 4 credits. Please update the credits and enter a reason for the credit change in the "Reason for Proposal" field and resubmit the course to workflow.

Key: 853

Preview Bridge

Course Change Request

Date Submitted: 03/19/25 3:39 pm

Viewing: GIS-238 : GIS Web Mapping ~~and Services~~

Last approved: 02/15/24 3:49 am

Last edit: 03/19/25 3:39 pm

Changes proposed by: Angela Armen (angela.armen)

Catalog Pages
referencing this
course
Geographic Information Systems (GIS)

Programs
referencing this
course
CC.GIS: Geographic Information Systems (GIS) Technology

Credits/Hours/Instructional Method Change

Yes

In Workflow

1. **Curriculum Office**
2. **DTPS Curriculum Committee Outline Review Team**
3. **Curriculum Office**
4. Curriculum Committee Approval
5. Colleague

Approval Path

1. 03/19/25 2:34 pm Megan Feagles (megan.feagles): Rollback to Initiator
2. 03/20/25 6:22 am Megan Feagles (megan.feagles): Approved for Curriculum Office
3. 04/02/25 11:15 am Erin Gravelle (erin.gravelle): Approved for DTPS Curriculum Committee Outline Review Team

History

1. Feb 15, 2024 by Megan Feagles (megan.feagles)

Reason for proposal

Updating course to better reflect work students are already completing.

Is Topic Shell Course?

Are you the Faculty Contact Person?

Yes

Course Prefix	GIS - Geographic Information Systems
Course Number	238
Department	Emergency Management/GIS
Division	Technology, Applied Science and Public Services (TAPS)
Course Title	GIS Web Mapping ~~and Services~~

Grading

Grade Scheme	Standard (STND)
Credit Type	Credit Course
Allow Pass/No Pass	Yes
Only Pass/No Pass	No
Audit	No
Min Credit	4.00 ~~2.00~~
Variable Credit	No

Contact hours

Lecture	33.00
Lec/Lab	~~44.00~~
Lab	33.00
Activity	
Clinical	

Field	
CWE Seminar	
CPR	
Seminar	
Community Education/Drivers Ed	
Community Education/Adult	
Total	66 ~~44~~
Proposed Effective Term	Summer 2025

I acknowledge that this course, for the average student, will be a time commitment of 3 hours per week per credit in combination of in-class and out-of-class activity.

Course Description

This class is an introduction to interactive map making using ArcGIS Online. Topics for online map making will be explored including web cartography, interactive map elements, mobile data collection, geospatial data from community science, and ArcGIS Online apps. Students will get the chance to create interactive map products. ~~This course presents the basic practices involved with GIS Web development. Gain an understanding of web GIS fundamentals. Introduces building GIS web maps, services, and applications. Focuses on developing and publishing on the web using the ESRI suite of web GIS technologies.~~

Type of Course (ACTI Code)

210 - Career Technical Preparatory

Is this class challengeable?

No

Can this course be repeated for credit in a degree?

No

Course Requisites

Required

Prerequisites

Corequisites

Prerequisites or Corequisites

Recommended

Prerequisites

Corequisites

Prerequisites or Corequisites

Non-Course Requisites

Required

Recommended

Familiarity with GIS software and applications

Is Student Petition required?

No

Show course in Schedule: Print in Schedule

Hide course in catalog

No

When do you plan to offer this course?

Not Offered Every Term

Will this class use library resources?

Yes

Have you talked with a librarian regarding that impact?

No

Course Certifications

Is this a Related Instruction course?

No

Are you going to seek General Education Certification after course approval?

No

General Education Outcome(s)

Equivalent Courses

Equivalent Active Courses

Equivalent Inactive Courses

Student Learning Outcomes

Student Learning Outcomes

	Upon successful completion of this course, students should be able to:
1	demonstrate how GIS web services, applications, and basic development works;
2	create sharable web maps online;
3	develop and publish map and geoprocessing web services;
4	apply basic javascript to customize GIS web apps;
5	build a web app to tell a story, perform analysis, or solve a GIS problem.

Major Topic Outline

1. Fundaments of web services, development, and applications 2. Creating web maps a. Preparing data b. Publishing layers c. Editing symbology d. Configuring map and web app 3. Map services and time animation 4. Cached map services 5. Feature services and user editing functionality 6. Spatial analytics online and geoprocessing services 7. Web app development with ArcGIS API for JavaScript 8. Building web applications a. Developing with and without templates b. Configuration c. Administration

Green Course Management

Does the content of this class relate to job skills in any of the following areas:

Increased Energy Efficiency

No

Produce Renewable Energy

No

Prevent Environmental Degradation

No

Clean up Natural Environment

No

Supports Green Services

No

Percent of Course 0

Reviewer Comments

Key: 855

Preview Bridge

Course Change Request

Date Submitted: 03/19/25 3:44 pm

Viewing: GIS-270 : GIS Capstone

Last approved: 03/29/24 3:35 am

Last edit: 03/19/25 3:44 pm

Changes proposed by: Angela Armen (angela.armen)

Catalog Pages
referencing this
course
Geographic Information Systems (GIS)

Programs
referencing this
course
CC.GIS: Geographic Information Systems (GIS) Technology

Credits/Hours/Instructional Method Change

In Workflow

1. **Curriculum Office**
2. **DTPS Curriculum Committee Outline Review Team**
3. **Curriculum Office**
4. Curriculum Committee Approval
5. Colleague

Approval Path

1. 03/19/25 2:54 pm Megan Feagles (megan.feagles): Rollback to Initiator
2. 03/19/25 7:02 pm Megan Feagles (megan.feagles): Approved for Curriculum Office
3. 04/02/25 11:13 am Erin Gravelle (erin.gravelle): Approved for DTPS Curriculum Committee Outline Review Team

History

1. Nov 4, 2023 by Megan Feagles (megan.feagles)
2. Mar 29, 2024 by Megan Feagles

(megan.feagles)

Yes

Reason for proposal

Updating course to better reflect work students are already doing.

Is Topic Shell Course?

Are you the Faculty Contact Person?

Yes

Course Prefix	GIS - Geographic Information Systems
Course Number	270
Department	Emergency Management/GIS
Division	Technology, Applied Science and Public Services (TAPS)
Course Title	GIS Capstone

Grading

Grade Scheme	Standard (STND)
Credit Type	Credit Course
Allow Pass/No Pass	Yes
Only Pass/No Pass	No
Audit	No
Min Credit	4.00 ~~3.00~~
Variable Credit	No

Contact hours

Lecture	33.00
Lec/Lab	~~66.00~~
Lab	33.00

Activity	
Clinical	
Field	
CWE Seminar	
CPR	
Seminar	
Community Education/Drivers Ed	
Community Education/Adult	
Total	66
Proposed Effective Term	Summer 2025

I acknowledge that this course, for the average student, will be a time commitment of 3 hours per week per credit in combination of in-class and out-of-class activity.

Course Description

The Geographic Information Systems (GIS) Capstone course is the culmination of the Geographic Information Systems Technology (GIS) Certificate. Working with the instructor, students begin the course by researching and proposing a project. After developing a project plan and working through the analysis necessary, students will present their findings in an oral and written presentation. Additionally, scenario-based assignments will reinforce the project-based analysis process. Throughout the course, portfolio building strategies are explored with an emphasis on developing a professional portfolio demonstrating their work as preparation for entering the GIS profession.

Type of Course (ACTI Code)

210 - Career Technical Preparatory

Is this class challengeable?

No

Can this course be repeated for credit in a degree?

No

Course Requisites

Required

Prerequisites

Corequisites

Prerequisites or Corequisites

Recommended

Prerequisites

Corequisites

Prerequisites or Corequisites

Non-Course Requisites

Required

Recommended

Is Student Petition required?

No

Show course in Schedule

Print in Schedule

Hide course in catalog

No

When do you plan to offer this course?

Spring

Will this class use library resources?

No

Course Certifications

Is this a Related Instruction course?

No

Are you going to seek General Education Certification after course approval?

No

General Education Outcome(s)

Equivalent Courses

Equivalent Active Courses

Equivalent Inactive Courses

Student Learning Outcomes

Student Learning Outcomes

	Upon successful completion of this course, students should be able to:
1	apply Geographic Information Systems Technology (GIST) principles to perform spatial analysis and produce quality visualizations of results;
2	employ critical thinking in order to apply appropriate methodologies that answer spatial questions;

	Upon successful completion of this course, students should be able to:
3	develop a project management plan to include project outline, data compilation and management, analysis methodology documentation, and final deliverables;
4	present project results using effective cartographic principles and design techniques in a professional work environment;
5	create and maintain a professional portfolio that demonstrates relevant analytical and cartographic abilities.

Major Topic Outline

1. Spatial thinking. 2. GIS Analysis. 3. Project management. 4. Project documentation and metadata. 5. Presenting results. 6. Building a portfolio.

Green Course Management

Does the content of this class relate to job skills in any of the following areas:

Increased Energy Efficiency

No

Produce Renewable Energy

No

Prevent Environmental Degradation

Yes

Clean up Natural Environment

Yes

Supports Green Services

Yes

Percent of Course 20

Reviewer Comments

Megan Feagles (megan.feagles) (03/19/25 2:54 pm): Rollback: Please enter a reason for the credit change in the "Reason for Proposal" field and resubmit the course to workflow

Course Change Request

Date Submitted: 03/17/25 11:04 am

Viewing: GIS-286 : Remote Sensing

Last approved: 11/04/23 4:53 am

Last edit: 03/17/25 11:04 am

Changes proposed by: Angela Armen (angela.armen)

Catalog Pages
referencing this
course
Geographic Information Systems (GIS)

Programs
referencing this
course
CC.GIS: Geographic Information Systems (GIS) Technology

Credits/Hours/Instructional Method Change

Yes

In Workflow

1. **Curriculum Office**
2. **DTPS Curriculum Committee Outline Review Team**
3. **Curriculum Office**
4. Curriculum Committee Approval
5. Colleague

Approval Path

1. 03/17/25 11:00 am Megan Feagles (megan.feagles): Rollback to Initiator
2. 03/17/25 11:20 am Megan Feagles (megan.feagles): Approved for Curriculum Office
3. 04/02/25 11:12 am Erin Gravelle (erin.gravelle): Approved for DTPS Curriculum Committee Outline Review Team

History

1. Nov 4, 2023 by Megan Feagles (megan.feagles)

Reason for proposal

We are updating credits to reflect the amount of work students are currently completing in this course.

Is Topic Shell Course?

Are you the Faculty Contact Person?

Yes

Course Prefix	GIS - Geographic Information Systems
Course Number	286
Department	Emergency Management/GIS
Division	Technology, Applied Science and Public Services (TAPS)
Course Title	Remote Sensing

Grading

Grade Scheme	Standard (STND)
Credit Type	Credit Course
Allow Pass/No Pass	Yes
Only Pass/No Pass	No
Audit	Yes
Min Credit	4.00 ~~3.00~~
Variable Credit	No

Contact hours

Lecture	33.00
Lec/Lab	~~60.00~~
Lab	33.00
Activity	

Clinical

Field

CWE Seminar

CPR

Seminar

Community Education/Drivers Ed

Community Education/Adult

Total	66 ~~60~~
Proposed Effective Term	Summer 2025

I acknowledge that this course, for the average student, will be a time commitment of 3 hours per week per credit in combination of in-class and out-of-class activity.

Yes

Course Description

This course is an introduction to the science of remote sensing. The course explores the techniques used to acquire, interpret, and process remotely sensed data. It provides a historical analysis of the technology, the interpretation of remotely sensed data, and the use of remote sensing data in GIS. ~~Active and passive systems are explored as well as methodologies to transform and rectify remotely sensed raster data.~~ Students explore applications of remote sensing using real-world examples and data.

Type of Course (ACTI Code)

210 - Career Technical Preparatory

Is this class challengeable?

Yes

Can this course be repeated for credit in a degree?

No

Course Requisites

Required

Prerequisites

~~GIS-201~~

Corequisites

Prerequisites or Corequisites

Recommended

Prerequisites

Corequisites

Prerequisites or Corequisites

Non-Course Requisites

Required

Recommended

Is Student Petition required?

No

Show course in Schedule: Print in Schedule

Hide course in catalog

No

When do you plan to offer this course?

Spring

Will this class use library resources?

Yes

Have you talked with a librarian regarding that impact?

Yes

Course Certifications

Is this a Related Instruction course?

No

Are you going to seek General Education Certification after course approval?

No

General Education Outcome(s)

Equivalent Courses

Equivalent Active Courses

Equivalent Inactive Courses

Student Learning Outcomes

Student Learning Outcomes

	Upon successful completion of this course, students should be able to:
1	explain how remote sensing data is acquired;
2	perform data analysis using remotely sensed data;
3	discuss LIDAR data and how to use it in a GIS;
4	explain how the acquisition of remotely sensed data works with Unmanned Aerial Vehicles (UAVs);

	Upon successful completion of this course, students should be able to:
5	process remotely sensed data;
6	explore and acquire remote sensing data;
7	explain Spectral Remote Sensing (SRS);
8	apply Land Observation Satellite (Landsat) data in a GIS environment.

Major Topic Outline

1. The history of aerial photography and remote sensing. 2. Acquisition of remote sensing data. 3. Stereo Photography. 4. Orthophotography. 5. Transfer of Detail from the camera to your computer. 6. Analyzing aerial photographs - principles and techniques. 7. LIDAR data. 8. 3D remotely sensed data. 9. Raster analysis in GIS. 10. Remote sensing data from UAVs. 11. Spectral Remote Sensing. 12. Land Observation Satellite (Landsat) data.

Green Course Management

Does the content of this class relate to job skills in any of the following areas:

Increased Energy Efficiency

Yes ~~No~~

Produce Renewable Energy

No

Prevent Environmental Degradation

Yes

Clean up Natural Environment

Yes

Supports Green Services

Yes

Percent of Course 20

Reviewer Comments

Megan Feagles (megan.feagles) (03/17/25 11:00 am): Rollback: 1. Please provide a reason for the credit change in the Reason for Proposal field and resubmit the course to workflow. 2. Please update the credits for this course in any programs it is in.

Key: 858

Preview Bridge

Clackamas Community College

New Courses

Course Number	Title	Implementation
GIS-260	GIS and The Environment	2025/SU

Course Change Request

New Course Proposal

Date Submitted: 05/07/25 11:42 am

Viewing: GIS-260 : GIS and The Environment

Last edit: 05/07/25 12:14 pm

Changes proposed by: Angela Armen (angela.armen)

Programs referencing this course

CC.GIS: Geographic Information Systems (GIS) Technology

Is Topic Shell Course?

Are you the Faculty Contact Person?

Yes

Course Prefix	GIS - Geographic Information Systems
Course Number	260
Department	Emergency Management/GIS
Division	Technology, Applied Science and Public Services (TAPS)

Course Title

GIS and The Environment

In Workflow

1. **Curriculum Office**
2. **DTPS Dean**
3. **DTPS Curriculum Committee Outline Review Team**
4. **Curriculum Office**
5. Curriculum Committee Approval
6. Colleague

Approval Path

1. 03/19/25 2:53 pm Megan Feagles (megan.feagles): Rollback to Initiator
2. 03/20/25 6:24 am Megan Feagles (megan.feagles): Rollback to Initiator
3. 03/20/25 3:17 pm Megan Feagles (megan.feagles): Approved for Curriculum Office
4. 03/25/25 3:06 pm Armetta Burney (armetta.burney): Approved for DTPS Dean
5. 04/02/25 1:13 pm Erin Gravelle (erin.gravelle): Rollback to Initiator

6. 04/17/25 12:42 pm Megan Feagles (megan.feagles): Approved for Curriculum Office
7. 04/17/25 2:46 pm Armetta Burney (armetta.burney): Approved for DTPS Dean
8. 05/02/25 2:21 pm Erin Gravelle (erin.gravelle): Rollback to Initiator
9. 05/07/25 12:14 pm Megan Feagles (megan.feagles): Approved for Curriculum Office
10. 05/07/25 1:24 pm Armetta Burney (armetta.burney): Approved for DTPS Dean
11. 05/22/25 9:08 am Erin Gravelle (erin.gravelle): Approved for DTPS Curriculum Committee Outline Review Team

Grading

Grade Scheme	Standard (STND)
Credit Type	Credit Course
Allow Pass/No Pass	No
Audit	No
Min Credit	4.00

Variable Credit	No

Contact hours

Lecture	33.00
Lec/Lab	
Lab	33.00
Activity	
Clinical	
Field	
CWE Seminar	
CPR	
Seminar	
Community Education/Drivers Ed	
Community Education/Adult	
Total	66
Proposed Effective Term	Summer 2025

I acknowledge that this course, for the average student, will be a time commitment of 3 hours per week per credit in combination of in-class and out-of-class activity.

Course Description

This course covers environmental science and how GIS is used in the field. Each week, a new topic will be explored, including climate change, wildfires, demography for public policy, water resource management, and more.

Type of Course (ACTI Code)

210 - Career Technical Preparatory

Reason for the Proposal

New GIS Certificate.

Is this class challengeable?

No

Can this course be repeated for credit in a degree?

No

Course Requisites

Required

Prerequisites

Corequisites

Prerequisites or Corequisites

Recommended

Prerequisites

Corequisites

Prerequisites or Corequisites

Non-Course Requisites

Required

Recommended

Is Student Petition required?

No

Show course in Schedule: Print in Schedule

Hide course in catalog

No

When do you plan to offer this course?

Summer/Fall/Winter/Spring

Will this class use library resources?

No

Course Certifications

Is this a Related Instruction course?

No

Are you going to seek General Education Certification after course approval?

No

General Education Outcome(s)

Equivalent Courses

Equivalent Active Courses

Equivalent Inactive Courses

Student Learning Outcomes

Student Learning Outcomes

	Upon successful completion of this course, students should be able to:
1	explain key environmental science principles, including climate change, wildfire management, water resource management, and demographic analysis;
2	utilize Geographic Information Systems (GIS) tools to analyze and interpret environmental data related to climate, wildfires, water resources, and more;
3	evaluate spatial datasets to support decision-making in environmental science and public policy contexts;
4	assess and communicate trends in environmental data, such as climate change impacts, wildfire risks, and water resource distribution;
5	design GIS-based approaches to address environmental challenges;
6	demonstrate proficiency in GIS software, data visualization, and spatial analysis techniques relevant to environmental applications.

Major Topic Outline

1. Introduction to Environmental Science and GIS
2. Climate Change and GIS Applications
3. Wildfires and Land Management
4. Demography, Public Policy, and GIS
5. Water Resource Management and GIS
6. Biodiversity and Conservation GIS
7. Natural Disaster Risk Assessment and Mitigation
8. Pollution and Environmental Health GIS
9. Sustainable Development and GIS
10. Final Project and Course Wrap-Up

Green Course Management

Does the content of this class relate to job skills in any of the following areas:

Increased Energy Efficiency

Yes

Produce Renewable Energy

Yes

Prevent Environmental Degradation

Yes

Clean up Natural Environment

	No
Supports Green Services	
	Yes
Percent of Course	80%

Reviewer Comments

Erin Gravelle (erin.gravelle) (04/02/25 1:13 pm): Rollback: Hi Angela, Thanks so much for your work on the course proposal—we know that designing a course is no easy task. It takes a lot of time, thought, and effort, and we really appreciate all that you've done so far. As the review team looked through the proposal, we noticed a couple of areas where some revision would help bring everything into alignment with the curriculum guidelines: Student Learning Outcomes (SLOs): Each SLO currently contains two objectives separated by a dash, which essentially turns each into two outcomes. To stay within best practices, each SLO should reflect just one measurable learning objective. Right now, the proposal includes 12 distinct outcomes, which is more than needed for the scope of the course. Simplifying and focusing these will make them more impactful and manageable. Major Topics Outline: Right now, the outline includes a lot of detailed information that reads more like weekly outcomes or a full instructional plan. While this level of detail is definitely helpful for teaching, the outline in the proposal should be a high-level overview of the major topics covered in the course. If you'd like to talk through any of this or get additional input as you revise, I'm more than happy to help. Please don't hesitate to reach out—this is a collaborative process, and we're here to support you! Warmly, Erin

Erin Gravelle (erin.gravelle) (05/02/25 2:21 pm): Rollback: Hi Angela, your student learning outcomes still have two verbs in them which makes them two separate objectives in one outcome. Please remove one verb from each SLO and then resubmit. Thanks!

Key: 4497

Preview Bridge

Program Change Request

Date Submitted: 03/26/25 5:28 pm

Viewing: CC.GIS : Geographic Information Systems (GIS) Technology

Last approved: 03/21/24 1:23 pm

Last edit: 04/18/25 7:21 am

Changes proposed by: Angela Armen (angela.armen)

Catalog Pages Using this Program

Geographic Information Systems (GIS) Technology, Certificate

Change Type	Substantial
College Council Review	No

Program Contact Information

Are you the Faculty Contact Person?

Yes

In Workflow

1. **Curriculum Office**
2. **EGIS Chair**
3. **DTPS Dean**
4. **Curriculum Office**
5. Curriculum Committee Approval

Approval Path

1. 04/10/25 7:51 am Megan Feagles (megan.feagles): Approved for Curriculum Office
2. 04/14/25 2:16 pm Kari Nixon (kari.nixon): Approved for EGIS Chair
3. 04/15/25 9:46 am Armetta Burney (armetta.burney): Approved for DTPS Dean

History

1. Oct 6, 2022 by clmig-kxayasene
2. Jun 5, 2023 by Megan Feagles (megan.feagles)
3. Mar 21, 2024 by Megan Feagles (megan.feagles)

Program Overview

Name of Proposed Program

Geographic Information Systems (GIS) Technology

Program Code	CC.GIS
Award (CCWD)	Certificate (31-35 ~~(12-30~~ credits) (CC0) ~~(CC)~~
Type of Program (CCC)	Certificate of Completion (CC)
Educational Focus Area	Natural Resources
Effective Catalog Edition	2025-2026
Career Area	Industrial and Engineering Systems
Department	Emergency Management/GIS
Division	Technology, Applied Science and Public Services (TAPS)

Other locations (institutions) this Program will be offered

CIP Code	15.1102 - Surveying Technology/Surveying.

Labor Market

Labor Market Need

The GIS (Geographic Information Systems) certificate program at Clackamas Community College is necessary for several reasons, especially for professionals or students looking to gain expertise in spatial data analysis, mapping, and geospatial technologies.

Here's why such a program is necessary at Clackamas Community College:

1. Specialized Skill Development – GIS is a complex field that requires proficiency in software (such as ArcGIS, QGIS), spatial analysis, and cartographic principles. A certificate program provides structured learning to build these skills.

2. Career Advancement – Many employers prefer or require GIS certifications as proof of competency. It can help professionals in wildfire management, emergency management, environmental science, urban planning, transportation, engineering and other industries stand out.

3. Industry Demand – GIS is widely used in various sectors, including government, healthcare, real estate, and emergency management. A certification demonstrates that you have the technical skills needed in these fields.

4. Hands-On Experience– This certificate programs offer practical training with real-world applications, which can be crucial for job readiness.

5. Faster Than a Degree – Compared to a full degree program, a GIS certificate is a quicker and more affordable way to gain expertise.

6. Networking Opportunities – Enrolling in the GIS certificate program allows students to connect with professionals, instructors, and peers in the geospatial industry.

Labor Market Attachment

GIS Occ Profile 1.docx
CCC GIS Advisory Committee.xlsx
GIS Occ Profile 2.docx

Program Award Information

Program Learning Outcomes (PLOs)

Upon successful completion of this program, students should be able to:

	Outcome(s)
1	apply geographic knowledge and GIS software techniques to create high quality analysis, data, applications, and maps;
2	design and create geodatabases;
3	automate geoprocessing tools to manipulate, generate, display, and analyze GIS data;
4	analyze and interpret remotely sensed data including aerial and satellite imagery, LIDAR and GPS data;
5	apply programming skills to create and customize applications and tools.

Related Instruction Courses in the Program

Computation

Communication

Human Relations

Program-Level Assesment Plan

Assesment Plan Details

This assessment plan ensures that the GIS certificate program effectively prepares students for careers in geospatial technology while maintaining academic rigor.
1. Feedback-Create opportunities to get feedback from our current students, existing partners, new partners, and the advisory committee.
1a. Student Surveys – Collect feedback on the effectiveness of the program.
1b. Industry Feedback – Input from our advisory board, employers or internship supervisors regarding student readiness.
2. Evaluation-Necessary measures to ensure evaluation and quantification must be implemented.
2a. Instructor Evaluations – Faculty assess student engagement and competency development.
3. Ongoing integration of GIS courses (through focus areas) in the Wildfire Management, Emergency Management, and other CCC programs to increase enrollment and meet the needs of employers to hire employees with GIS skills.
4. We believe that engagement with diverse and underserved communities is the key, specifically, high school outreach, social media presence, and an engaged advisory board.
5. Continuous Improvement-Annual program review based on assessment data.

Attach Additional Information

Marketing Plan

Marketing Plan Details

1. This marketing plan outlines strategies to promote the CCC Geographic Information Systems (GIS) program to target audiences, including students, professionals, and organizations that require geospatial solutions. The goal is to increase enrollment, brand awareness, and engagement with the program.
2. Market Analysis
Target Audience: Students and professionals interested in geography, wildfire management, emergency management, public works, urban planning, and environmental science.
Professionals in engineering, real estate, public policy, and disaster management. Government agencies and businesses needing GIS expertise. Increase partnerships with high school students.
Industry Trends: Increasing demand for GIS skills across multiple industries. Advancements in GIS technology (AI, cloud computing, and big data integration).
Competitive Analysis: Review of similar programs offered by academic institutions.
Differentiators: Hands-on experience, industry partnerships, and certification options.
3. Marketing Strategy
Branding and Positioning: Emphasize the program's practical applications, job opportunities, flexibility and bridge to employment. Highlight success stories of graduates and industry partnerships.
Digital Marketing:
Website: Develop a landing page with program details, testimonials, and career prospects.
Social Media: Regular posts, student spotlights, and interactive GIS on Instagram.
Email Campaigns: Send targeted emails to prospective students and professionals.
Content Marketing: Blog posts, case studies, on GIS trends and innovations.
Offline Marketing:
Workshops and webinars featuring industry experts.
Partnerships with organizations for internships and sponsorships.
Attendance at GIS conferences, job fairs, and university expos.

Attach Additional Information

Will there be revenues associated with the new program?

No

Do new courses need to be created for this new program?

Yes

New Courses

Course Code
GIS 260

Are new sections of exisiting courses needed to support this new program?

Yes ~~No~~

Additional Sections

Course Code	Explain
GIS 101	To accommodate increased entry level students.
GIS 201	To accommodate increased entry level students.

Additional faculty needed?

Yes ~~No~~

Additional Faculty

Duration	Number	Term
Part-time	1	Fall 2025

New Physical facilities and equipment needed?

No

Please explain how the current physical facilities and equipment will be allocated to meet the needs of the new program

We currently use C 134 Lab to meet our in person technological needs.

New Student Services needed?

No

Please explain how the current Student Services will accommodate the needs of the new program

Student Services will continue to accommodate GIS Students in their registration, advising, counseling, financial, accessibility and learning needs.

Other expenses?

No

Financial Assistance Options Sought for and/or Approved for the Program

Federal Financial Aid Options

No

Workforce Investment Act – Individual Training Account

No

Veterans Benefits

No

State of Oregon Financial Aid

No

College Financial Aid

No

Private Business, Foundation Aid

No

Other

No

Program Approval Standards

Standard A: Need - The community college provides clear evidence of the need for the program.

The GIS (Geographic Information Systems) certificate program at Clackamas Community College is necessary for several reasons, especially for professionals or students looking to gain expertise in spatial data analysis, mapping, and geospatial technologies.

Here's why such a program is necessary at Clackamas Community College:

1. Specialized Skill Development – GIS is a complex field that requires proficiency in software (such as ArcGIS, QGIS), spatial analysis, and cartographic principles. A certificate program provides structured learning to build these skills.

2. Career Advancement – Many employers prefer or require GIS certifications as proof of competency. It can help professionals in wildfire management, emergency management, environmental science, urban planning, transportation, engineering and other industries stand out.

3. Industry Demand – GIS is widely used in various sectors, including government, healthcare, real estate, and emergency management. A certification demonstrates that you have the technical skills needed in these fields.

4. Hands-On Experience– This certificate programs offer practical training with real-world applications, which can be crucial for job readiness.

5. Faster Than a Degree – Compared to a full degree program, a GIS certificate is a quicker and more affordable way to gain expertise.

6. Networking Opportunities – Enrolling in the GIS certificate program allows students to connect with professionals, instructors, and peers in the geospatial industry.

Standard B: Collaboration - The community college utilizes systemic methods for meaningful and ongoing involvement of the appropriate constituencies.

The program has been developed through joint ventures and significant systemic working relationships with business, industry, labor communities, and/or workforce development partners, such as:

1. Advisory Board
2. Cooperative Work Experience
3. Educational Partnerships
4. Partnerships with external constituents.
5. The program is proactive in creating a supportive environment for minority students, and students with disabilities.

Standard C: Alignment - The program is aligned with appropriate education, workforce development, and economic development activities.

1. Program is aligned with appropriate PK-20 educational programs and related activities.
2. Program supports workforce and economic development initiatives as identified by the local economic and workforce development boards or agencies, state appointed task forces, the Workforce Investment Board, business, and industry associations, and HECC priorities.
3. The program is part of a clear career ladder or career pathway with education and training options leading to the program identified and continuing training and career advancement opportunities identified.
4. The program and/or related occupations are clearly identified within the appropriate career learning area, career cluster, and career focus area.

Standard D: Design - The program leads to student achievement of academic and technical knowledge, skills, and related proficiencies.

1. The curriculum demonstrates a cohesive instructional program that will lead to the attainment of the academic, and career and technical exit proficiencies and clearly documented program and learner outcomes needed for success in the field of study for the occupational area.
2. CTE academic and technical skill performance indicators are used as measurements of program effectiveness.
3. The instructional design for the program is planned for optimal learning and accessible scheduling with identifiable components of professional technical instruction and applicable related instruction or general education.
4. The program is designed or may be delivered in distinct segments that contribute to increase student completion and success.
5. The instructional methods used reflect current research in education and training practices, (e.g., authentic instruction and assessment, problem and project base learning, mentoring, the development of student's critical thinking skills, varied teaching and learning styles).

Standard E: Capacity - The community college identifies and has the resources to develop, implement, and sustain the program.

1. The college demonstrates the capacity to offer the program and will provide the necessary and accessible facilities and services to assure that all students can attain the skills and knowledge necessary to fulfill program objectives.
2. There are sufficient and accessible facilities, instructional materials, and equipment for the program.
3. Adequate internship, work-based learning experience and/or Cooperative Work Experience sites are available.

Proposed Curriculum

Plan of Study Grid		
First Term		Credits
GIS-101	Maps and Geospatial Technology	4.00
GIS-201	Introduction to Geographic Information Systems	4.00
GIS-238	GIS Web Mapping	4.00
	Credits	12
Second Term		
GIS-202	GIS Applications	4.00
~~GIS-205~~	~~Cartography and Map Making~~	~~3.00~~
GIS-236	Programming for GIS	4.00
Select one of the following:		4.00
GIS-260	Course GIS-260 Not Found	-
GIS-280	GIS/CWE	-
GIS-286	Remote Sensing	-
	Credits	12
Third Term		
GIS-232	Data Collection & Application	4.00
~~GIS-286~~	~~Remote Sensing~~	~~3.00~~
GIS-270	GIS Capstone	4.00
Electives		3.00-4.00
	Credits	11-12
	Total Credits	35-36

Electives

EMP-204	Foundations of Emergency Planning	4.00
FRP-130	Introduction to Wildland Firefighting (S-130/S-190/S-110/ICS-100/IS-700/L-180)	3.00
FRP-200	Basic Incident Command System (I-100, I-200, IS-700, IS-800)	4.00
GEO-100	Introduction to Physical Geography	4.00
GEO-130	Introduction to Environmental Geography	4.00

Reviewer Comments

Clackamas Community College

Program Amendments

Program	Implementation
Wildland Fire Management AAS	2025/SU
Wildland Fire Science CC	2025/SU
Wilderness Survival & Leadership CPCC	2025/SU
Wildland Fire Forestry CPCC	2025/SU
Wildland Firefighter 1 CPCC	2025/SU
AS, Civil Engineering, OSU	2025/SU
AS, Civil Engineering, PSU	2025/SU
AS, Environmental Engineering, PSU	2025/SU
AS, Civil Engineering, OSU	2025/SU

Program Change Request

Date Submitted: 04/23/25 11:23 am

Viewing: AAS.WLDLNDMGMT : Wildland Fire Management

Last approved: 03/07/25 8:56 am

Last edit: 04/23/25 11:23 am

Changes proposed by: Kari Nixon (kari.nixon)

Catalog Pages Using this Program

Wildland Fire Management, AAS

Change Type

College Council Review

No

Program Contact Information

Are you the Faculty Contact Person?

No

In Workflow

1. **Curriculum Office**
2. **WLDF Chair**
3. **DTPS Dean**
4. **Curriculum Office**
5. Curriculum Committee Approval

Approval Path

1. 04/23/25 11:25 am Megan Feagles (megan.feagles): Approved for Curriculum Office
2. 04/23/25 11:26 am Kari Nixon (kari.nixon): Approved for WLDF Chair
3. 04/28/25 10:46 am Armetta Burney (armetta.burney): Approved for DTPS Dean

History

1. Oct 6, 2022 by clmig-kxayasene
2. Feb 6, 2023 by Megan Feagles (megan.feagles)
3. Apr 4, 2023 by Megan Feagles (megan.feagles)

4. Apr 18, 2023 by Megan Feagles (megan.feagles)
5. Jun 5, 2023 by Megan Feagles (megan.feagles)
6. Oct 30, 2023 by Megan Feagles (megan.feagles)
7. Apr 1, 2024 by Megan Feagles (megan.feagles)
8. May 3, 2024 by Jordan Gulley (jordan.gulley)
9. Mar 7, 2025 by Jordan Gulley (jordan.gulley)

Faculty Contact Email

jordan.gulley@clackamas.edu

Program Overview

Name of Proposed Program

Wildland Fire Management

Program Code	AAS.WLDLNDMGMT
Award (CCWD)	AAS Degree (90-108 credits) (AAS)
Type of Program (CCC)	Associate of Applied Science (AAS)
Educational Focus Area	Natural Resources
Effective Catalog Edition	2025-2026
Career Area	Human Resources
Department	Wildland Fire

Division	Technology, Applied Science and Public Services (TAPS)
Other locations (institutions) this Program will be offered	
CIP Code	43.0203 - Fire Science/Fire-fighting.

Program Award Information

Program Learning Outcomes (PLOs)

Upon successful completion of this program, students should be able to:

	Outcome(s)
1	evaluate hazards in the wilderness, forest and fire environments;
2	design a plan appropriate to the fire or incident situation;
3	execute the plan based on the appropriate strategy, tactics and incident objectives;
4	effectively communicate with pertinent individuals to accomplish the mission and/or incident objectives;
5	successfully lead, supervise and direct incident personnel at the appropriate level of organization.

Proposed Curriculum

Plan of Study Grid

First Year		
Fall Term		Credits
FRP-101	Basic Forest Management	3.00
FRP-102	Basic Forest Management Lab	1.00
FRP-130	Introduction to Wildland Firefighting (S-130/S-190/S-110/ICS-100/IS-700/L-180)	3.00
FYE-101	First Year Experience Level I	2.00
GIS-101	Maps and Geospatial Technology	4.00
WR-101	Workplace Writing	4.00
or WR-121Z	or Composition I	
	Credits	17
Winter Term		
EMT-105	Introduction to Emergency Medical Services	3.00
FRP-110	Basic Wildland Fire Investigation (FI-110)	1.00

FRP-244	Wilderness II: Basic Land Navigation (S-244)	3.00
FRP-246	Wilderness IV: Backcountry CPR/First Aid/AED	4.00
FRP-250	Wilderness VI: Basic Tool Use and Care	1.00
MTH-050	Technical Mathematics I	4.00
or MTH-065	or Algebra II	
	Credits	16
Spring Term		
BI-103	General Biology; Plants & The Ecosystem	4.00
COMM-111Z	Public Speaking	4.00
FRP-201	Advanced Forest Management	3.00
FRP-212	Wildfire Power Saws (S-212)	3.00
FRP-249	Followership to Leadership (L-280)	2.00
	Credits	16
Second Year		
Fall Term		
EMT-101	Emergency Medical Technician Part I	6.00
FRP-243	Wilderness I: Psychology of Survival	3.00
FRP-245	Wilderness III: Weather of the Northwest	2.00
FRP-255	Physical Fitness and Nutrition for First Responders	2.00
GIS-201	Introduction to Geographic Information Systems	4.00
	Credits	17
Winter Term		
CJA-203	Crisis Intervention	3.00
EMT-102	Emergency Medical Technician Part II	6.00
FRP-265	Wildland Fire Prevention Education 1 (P-101)	3.00
Electives		3.00-4.00
	Credits	15-16
Spring Term		
EMT-109	Emergency Response Communication/Documentation	2.00
FRP-131	Advanced Firefighter Training (S-131/S-133)	1.00
FRP-200	Basic Incident Command System (I-100, I-200, IS-700, IS-800)	4.00
FRP-211	Portable Pumps and Water Use (S-211)	2.00
FRP-270	Basic Air Operations (S-270)	1.00
FRP-290	Intermediate Wildland Fire Behavior (S-290)	3.00
Electives		3.00-4.00
	Credits	16-17
	Total Credits	97-99

Electives

Any EMT, FRP, GEO, or GIS course not included in the program, or any of the following:

BI-112	General Biology for Health Sciences	4.00
BI-231	Human Anatomy & Physiology I	4.00
BI-232	Human Anatomy & Physiology II	4.00
BI-233	Human Anatomy & Physiology III	4.00
CH-112	Chemistry for Health Sciences	4.00
CJA-206	Trauma Informed Practices	3.00
HP-110	Medical Terminology	4.00

Reviewer
Comments

Program Change Request

Date Submitted: 04/23/25 11:24 am

Viewing: CC.FSWILDLAND : Wildland Fire Science

Last approved: 03/07/25 8:56 am

Last edit: 04/23/25 11:24 am

Changes proposed by: Kari Nixon (kari.nixon)

Catalog Pages Using this Program

Wildland Fire Science, Certificate

Change Type

College Council Review

No

Program Contact Information

Are you the Faculty Contact Person?

No

In Workflow

1. **Curriculum Office**
2. **WLDF Chair**
3. **DTPS Dean**
4. **Curriculum Office**
5. Curriculum Committee Approval

Approval Path

1. 04/23/25 11:26 am Megan Feagles (megan.feagles): Approved for Curriculum Office
2. 04/23/25 11:26 am Kari Nixon (kari.nixon): Approved for WLDF Chair
3. 04/28/25 10:47 am Armetta Burney (armetta.burney): Approved for DTPS Dean

History

1. Oct 6, 2022 by clmig-kxayasene
2. Feb 6, 2023 by Megan Feagles (megan.feagles)
3. Apr 4, 2023 by Megan Feagles (megan.feagles)

4. Apr 18, 2023 by Megan Feagles (megan.feagles)
5. Jun 5, 2023 by Megan Feagles (megan.feagles)
6. Oct 30, 2023 by Megan Feagles (megan.feagles)
7. Mar 11, 2024 by Megan Feagles (megan.feagles)
8. Mar 21, 2024 by Megan Feagles (megan.feagles)
9. May 3, 2024 by Jordan Gulley (jordan.gulley)
10. Mar 7, 2025 by Jordan Gulley (jordan.gulley)

Faculty Contact Email

jordan.gulley@clackamas.edu

Program Overview

Name of Proposed Program

Wildland Fire Science

Program Code	CC.FSWILDLAND
Award (CCWD)	Certificate (45-60 credits) (CC1)
Type of Program (CCC)	Certificate of Completion (CC)
Educational Focus Area	Natural Resources
Effective Catalog Edition	2025-2026

Career Area	Human Resources
Department	Wildland Fire
Division	Technology, Applied Science and Public Services (TAPS)

Other locations (institutions) this Program will be offered

CIP Code	43.0203 - Fire Science/Fire-fighting.

Program Award Information

Program Learning Outcomes (PLOs)

Upon successful completion of this program, students should be able to:

	Outcome(s)
1	evaluate hazards in the wilderness, forest, and fire environments and take appropriate actions to ensure personal safety;
2	design a plan appropriate to the fire or incident situation;
3	demonstrate safe operation of firefighting tools and equipment;
4	execute the plan based on the appropriate strategy, tactics, and incident objectives;
5	successfully lead, supervise, and direct personnel at the appropriate level of organization.

Proposed Curriculum

Plan of Study Grid

First Term		Credits
FRP-101	Basic Forest Management	3.00
FRP-102	Basic Forest Management Lab	1.00
FRP-130	Introduction to Wildland Firefighting (S-130/S-190/S-110/ICS-100/IS-700/L-180)	3.00
FRP-243	Wilderness I: Psychology of Survival	3.00
FRP-245	Wilderness III: Weather of the Northwest	2.00
FRP-255	Physical Fitness and Nutrition for First Responders	2.00
GIS-101	Maps and Geospatial Technology	4.00
	Credits	18

Second Term		
FRP-110	Basic Wildland Fire Investigation (FI-110)	1.00
FRP-244	Wilderness II: Basic Land Navigation (S-244)	3.00
FRP-246	Wilderness IV: Backcountry CPR/First Aid/AED	4.00
FRP-250	Wilderness VI: Basic Tool Use and Care	1.00
FRP-265	Wildland Fire Prevention Education 1 (P-101)	3.00
MTH-050	Technical Mathematics I	4.00
or MTH-065	or Algebra II	
WR-101	Workplace Writing	4.00
or WR-121Z	or Composition I	
	Credits	20
Third Term		
BI-103	General Biology; Plants & The Ecosystem	4.00
COMM-111Z	Public Speaking	4.00
FRP-201	Advanced Forest Management	3.00
FRP-212	Wildfire Power Saws (S-212)	3.00
FRP-249	Followership to Leadership (L-280)	2.00
Electives		2.00-3.00
	Credits	18-19
	Total Credits	56-57

Electives

Any EMT, FRP, GEO, or GIS course not included in the program, or any of the following:

BI-112	General Biology for Health Sciences	4.00
BI-231	Human Anatomy & Physiology I	4.00
BI-232	Human Anatomy & Physiology II	4.00
BI-233	Human Anatomy & Physiology III	4.00
CH-112	Chemistry for Health Sciences	4.00
CJA-206	Trauma Informed Practices	3.00
HP-110	Medical Terminology	4.00

Reviewer Comments

Program Change Request

Date Submitted: 04/23/25 11:19 am

Viewing: CC.WILDSURVIVAL : Wilderness Survival & Leadership

Last approved: 03/07/25 8:56 am

Last edit: 04/23/25 11:19 am

Changes proposed by: Kari Nixon (kari.nixon)

Catalog Pages Using this Program

Wilderness Survival & Leadership, Career Pathway Certificate

Change Type

College Council Review

No

Program Contact Information

Are you the Faculty Contact Person?

No

In Workflow

1. **Curriculum Office**
2. **WLDF Chair**
3. **DTPS Dean**
4. **Curriculum Office**
5. Curriculum Committee Approval

Approval Path

1. 04/23/25 11:22 am Megan Feagles (megan.feagles): Approved for Curriculum Office
2. 04/23/25 11:26 am Kari Nixon (kari.nixon): Approved for WLDF Chair
3. 04/28/25 10:47 am Armetta Burney (armetta.burney): Approved for DTPS Dean

History

1. Oct 6, 2022 by clmig-kxayasene
2. Jun 5, 2023 by Megan Feagles (megan.feagles)
3. Mar 21, 2024 by Megan Feagles (megan.feagles)

4. May 3, 2024 by Jordan Gulley (jordan.gulley)
5. Mar 7, 2025 by Jordan Gulley (jordan.gulley)

Faculty Contact Email

jordan.gulley@clackamas.edu

Program Overview

Name of Proposed Program

Wilderness Survival & Leadership

Program Code	CC.WILDSURVIVAL
Award (CCWD)	Career Pathway Certificate (12-44 credits) (CPCC)
Parent Program	CC.FSWILDLAND
Type of Program (CCC)	Certificate of Completion (CC)
Educational Focus Area	Natural Resources
Effective Catalog Edition	2025-2026
Career Area	Human Resources
Department	Wildland Fire
Division	Technology, Applied Science and Public Services (TAPS)

Other locations (institutions) this Program will be offered

CIP Code	43.0203 - Fire Science/Fire-fighting.

Program Award Information

Program Learning Outcomes (PLOs)

Upon successful completion of this program, students should be able to:

	Outcome(s)
1	evaluate hazards in the wilderness environments and take appropriate actions to ensure personal safety;
2	demonstrate first aid and CPR skills used in the field;
3	demonstrate the basics of land navigation;
4	effectively communicate with pertinent individuals to accomplish the mission and/or incident objectives;
5	lead, supervise, and direct personnel successfully at the appropriate level of organization.

Proposed Curriculum		
FRP-243	Wilderness I: Psychology of Survival	3.00
FRP-244	Wilderness II: Basic Land Navigation (S-244)	3.00
FRP-245	Wilderness III: Weather of the Northwest	2.00
FRP-246	Wilderness IV: Backcountry CPR/First Aid/AED	4.00
FRP-249	Followership to Leadership (L-280)	2.00
FRP-250	Wilderness VI: Basic Tool Use and Care	1.00
GIS-101	Maps and Geospatial Technology	4.00
Total Credits		19

Reviewer
Comments

Program Change Request

Date Submitted: 04/23/25 11:21 am

Viewing: CC.FIREFOREST : Wildland Fire Forestry

Last approved: 03/07/25 8:56 am

Last edit: 04/23/25 11:21 am

Changes proposed by: Kari Nixon (kari.nixon)

Catalog Pages Using this Program

Wildland Fire Forestry, Career Pathway Certificate

Change Type

College Council Review

No

Program Contact Information

Are you the Faculty Contact Person?

No

In Workflow

1. **Curriculum Office**
2. **WLDF Chair**
3. **DTPS Dean**
4. **Curriculum Office**
5. Curriculum Committee Approval

Approval Path

1. 04/23/25 11:23 am Megan Feagles (megan.feagles): Approved for Curriculum Office
2. 04/23/25 11:26 am Kari Nixon (kari.nixon): Approved for WLDF Chair
3. 04/28/25 10:47 am Armetta Burney (armetta.burney): Approved for DTPS Dean

History

1. Oct 6, 2022 by clmig-kxayasene
2. Jun 5, 2023 by Megan Feagles (megan.feagles)
3. Mar 21, 2024 by Megan Feagles (megan.feagles)

4. May 3, 2024 by Jordan Gulley (jordan.gulley)
5. Mar 7, 2025 by Jordan Gulley (jordan.gulley)

Faculty Contact Email

jordan.gulley@clackamas.edu

Program Overview

Name of Proposed Program

Wildland Fire Forestry

Program Code	CC.FIREFOREST

Award (CCWD)

Career Pathway Certificate (12-44 credits) (CPCC)

Parent Program

CC.FSWILDLAND

Type of Program (CCC)	Certificate of Completion (CC)
Educational Focus Area	Natural Resources
Effective Catalog Edition	2025-2026
Career Area	Human Resources
Department	Wildland Fire
Division	Technology, Applied Science and Public Services (TAPS)

Other locations (institutions) this Program will be offered

CIP Code	43.0203 - Fire Science/Fire-fighting.

Program Award Information

Program Learning Outcomes (PLOs)

Upon successful completion of this program, students should be able to:

	Outcome(s)
1	summarize use of silviculture and regeneration practices;
2	identify trees and shrubs commonly found in Oregon;
3	explain the basics of forest road development;
4	demonstrate use of forest measurement tools;
5	explain the principles of marketing timber;
6	identify logging systems.

Proposed Curriculum		
BI-103	General Biology; Plants & The Ecosystem	4.00
FRP-101	Basic Forest Management	3.00
FRP-102	Basic Forest Management Lab	1.00
FRP-201	Advanced Forest Management	3.00
FRP-244	Wilderness II: Basic Land Navigation (S-244)	3.00
FRP-246	Wilderness IV: Backcountry CPR/First Aid/AED	4.00
GIS-101	Maps and Geospatial Technology	4.00
Total Credits		22

Reviewer
Comments

Key: 169

Program Change Request

Date Submitted: 04/23/25 11:25 am

Viewing: CC.FIREFIGHT1 : Wildland Firefighter 1

Last approved: 03/07/25 8:56 am

Last edit: 04/23/25 11:25 am

Changes proposed by: Kari Nixon (kari.nixon)

Catalog Pages Using this Program

Wildland FireFighter 1, Career Pathway Certificate

Change Type

College Council Review

No

Program Contact Information

Are you the Faculty Contact Person?

No

In Workflow

1. **Curriculum Office**
2. **WLDF Chair**
3. **DTPS Dean**
4. **Curriculum Office**
5. Curriculum Committee Approval

Approval Path

1. 04/23/25 11:26 am Megan Feagles (megan.feagles): Approved for Curriculum Office
2. 04/29/25 10:02 am Kari Nixon (kari.nixon): Approved for WLDF Chair
3. 05/05/25 5:05 pm Armetta Burney (armetta.burney): Approved for DTPS Dean

History

1. Oct 6, 2022 by clmig-kxayasene
2. Jun 5, 2023 by Megan Feagles (megan.feagles)
3. Jun 5, 2023 by Megan Feagles (megan.feagles)

4. Mar 21, 2024 by Megan Feagles (megan.feagles)
5. May 3, 2024 by Jordan Gulley (jordan.gulley)
6. Mar 7, 2025 by Jordan Gulley (jordan.gulley)

Faculty Contact Email

jordan.gulley@clackamas.edu

Program Overview

Name of Proposed Program

Wildland Firefighter 1

Program Code	CC.FIREFIGHT1
Award (CCWD)	Career Pathway Certificate (12-44 credits) (CPCC)
Parent Program	CC.FSWILDLAND
Type of Program (CCC)	Certificate of Completion (CC)
Educational Focus Area	Natural Resources
Effective Catalog Edition	2025-2026
Career Area	Human Resources
Department	Wildland Fire
Division	Technology, Applied Science and Public Services (TAPS)

Other locations (institutions) this Program will be offered

CIP Code	43.0203 - Fire Science/Fire-fighting.

Program Award Information

Program Learning Outcomes (PLOs)

Upon successful completion of this program, students should be able to:

	Outcome(s)
1	evaluate hazards in the wilderness environments and take appropriate actions to ensure personal safety;
2	demonstrate safe operation of firefighting tools and equipment;
3	effectively communicate with pertinent individuals to accomplish the mission and/or incident objectives;
4	successfully lead, supervise, and direct incident personnel at the appropriate level of organization.

Proposed Curriculum		
FRP-110	Basic Wildland Fire Investigation (FI-110)	1.00
FRP-130	Introduction to Wildland Firefighting (S-130/S-190/S-110/ICS-100/IS-700/L-180)	3.00
FRP-212	Wildfire Power Saws (S-212)	3.00
FRP-244	Wilderness II: Basic Land Navigation (S-244)	3.00
FRP-246	Wilderness IV: Backcountry CPR/First Aid/AED	4.00
FRP-249	Followership to Leadership (L-280)	2.00
FRP-250	Wilderness VI: Basic Tool Use and Care	1.00
FRP-255	Physical Fitness and Nutrition for First Responders	2.00
GIS-101	Maps and Geospatial Technology	4.00
Total Credits		23

Reviewer
Comments

Program Change Request

Date Submitted: 04/05/25 9:55 am

Viewing: AS.OSUCIVILENGR : AS, Civil Engineering, OSU

Last approved: 04/04/25 8:41 am

Last edit: 04/05/25 9:55 am

Changes proposed by: Eric Lee (elee)

Catalog Pages Using this Program

Civil Engineering Emphasis, AS - with Oregon State University

Change Type

College Council Review

No

Program Contact Information

Are you the Faculty Contact Person?

Yes

In Workflow

1. **Curriculum Office**
2. **ENGR Chair**
3. **DASC Dean**
4. **Curriculum Office**
5. Curriculum Committee Approval

Approval Path

1. 04/07/25 8:35 am Megan Feagles (megan.feagles): Approved for Curriculum Office
2. 04/07/25 9:02 am Matt LaForce (laforce): Approved for ENGR Chair
3. 04/07/25 10:03 am Sue Goff (sue.goff): Approved for DASC Dean

History

1. Oct 6, 2022 by clmig-kxayasene
2. Nov 28, 2022 by Megan Feagles (megan.feagles)
3. Apr 18, 2023 by Megan Feagles (megan.feagles)
4. Jun 5, 2023 by Megan Feagles (megan.feagles)

5. Dec 1, 2023 by Eric Lee (elee)
6. Feb 16, 2024 by Eric Lee (elee)
7. Mar 11, 2024 by Megan Feagles (megan.feagles)
8. Mar 18, 2024 by Megan Feagles (megan.feagles)
9. Apr 5, 2024 by Megan Feagles (megan.feagles)
10. Apr 4, 2025 by Megan Feagles (megan.feagles)

Program Overview

Name of Proposed Program

AS, Civil Engineering, OSU

Program Code	AS.OSUCIVILENGR

Award (CCWD)

Associate of Science (90-108 credits) (AS)

Type of Program (CCC)	Associate of Science (AS)
Educational Focus Area	Science, Technology, Engineering and Math (STEM)
Effective Catalog Edition	2025-2026
Career Area	Industrial and Engineering Systems
Department	Engineering Sciences
Division	Arts and Sciences

Other locations (institutions) this Program will be offered

CIP Code	14.0101 - Engineering, General.

Program Award Information

Program Learning Outcomes (PLOs)

Upon successful completion of this program, students should be able to:

	Outcome(s)
1	apply the fundamental elements of engineering design;
2	employ mathematics, science, and computing techniques in a systematic and rigorous manner to support the study and solution of engineering problems;
3	conduct and document laboratory experiments in the sciences and engineering, effectively communicating determined quantitative relationships using both graphs and equations;
4	exhibit good teamwork skills and serve as effective members of laboratory and project teams;
5	articulate and justify graphical, numerical, and analytical solutions to an audience through oral and written communication.

Proposed Curriculum

Plan of Study Grid

First Year		
Fall Term		Credits
CH-221	General Chemistry	5.00
ENGR-111	Introduction to Engineering	3.00
MTH-251Z	Differential Calculus	4.00
WR-121Z	Composition I	4.00
	Credits	16
Winter Term		
CDT-103	Computer-Aided Drafting I	3.00
CH-222	General Chemistry	5.00
ENGR-112	Engineering Programming	3.00
MTH-252Z	Integral Calculus	4.00
	Credits	15
Spring Term		
COMM-111Z	Public Speaking	4.00
EC-201Z	Principles of Microeconomics	4.00
MTH-254	Vector Calculus	5.00

WR-227Z	Technical Writing	4.00
	Credits	17
Second Year		
Fall Term		
CS-161	Computer Science I	4.00
ENGR-211	Statics	4.00
GIS-201	Introduction to Geographic Information Systems	4.00
PH-211	General Physics With Calculus	5.00
	Credits	17
Winter Term		
ENGR-212	Dynamics	4.00
MTH-256	Differential Equations	4.00
PH-212	General Physics With Calculus	5.00
Literature and the Arts Electives		3.00-4.00
	Credits	16-17
Spring Term		
ENGR-213	Strength of Materials	4.00
HPE-295	Health & Fitness for Life	3.00
PH-213	General Physics With Calculus	5.00
Western Culture Electives		4.00
	Credits	16
	Total Credits	97-98

Literature and the Arts Electives

ART-101	Art Appreciation	3.00
ART-204	History of Art/Ancient Through Medieval	4.00
ART-205	History of Art/Romanesque Through Baroque	4.00
ART-206	History of Art/Enlightenment Through Contemporary	4.00
ENG-104Z	Introduction to Fiction	4.00
ENG-105Z	Introduction to Drama	4.00
ENG-106Z	Introduction to Poetry	4.00
ENG-107	World Literature: Ancient Through Classical Times	4.00
ENG-108	World Literature: Early Middle Ages through the 18th Century	4.00
ENG-109	World Literature: The 19th through 21st Centuries	4.00
ENG-194	Introduction to Film	4.00

ENG-195	American Film	4.00
ENG-201	Shakespeare	4.00
ENG-202	Shakespeare	4.00
ENG-204	British Literature: Ancient to Enlightenment	4.00
ENG-205	British Literature: Romantic to Contemporary	4.00
ENG-213	U.S. Latinx Literature	4.00
ENG-226	Popular Literature	4.00
ENG-230	Documentary Film	4.00
ENG-241	Norse Mythology	4.00
ENG-250	Greek Mythology	4.00
ENG-251	Celtic Mythology	4.00
ENG-252	Hindu Mythology	4.00
ENG-253	American Literature: Pre-Columbian to Civil War	4.00
ENG-254	American Literature: 1865 to Present	4.00
ENG-255	American Literature: Topics in American Literature	4.00
ENG-260	Introduction to Women Writers	4.00
ENG-270	Introduction to Literary Criticism	4.00
MUS-105	Music Appreciation	3.00
MUS-205	Music Literature: History of Jazz	4.00
MUS-206	Music Literature: History of Rock	4.00

Western Culture Electives

ART-204	History of Art/Ancient Through Medieval	4.00
ART-205	History of Art/Romanesque Through Baroque	4.00
ART-206	History of Art/Enlightenment Through Contemporary	4.00
ENG-107	World Literature: Ancient Through Classical Times	4.00
ENG-108	World Literature: Early Middle Ages through the 18th Century	4.00
ENG-109	World Literature: The 19th through 21st Centuries	4.00
ENG-201	Shakespeare	4.00

ENG-202	Shakespeare	4.00
ENG-204	British Literature: Ancient to Enlightenment	4.00
ENG-205	British Literature: Romantic to Contemporary	4.00
ENG-250	Greek Mythology	4.00
ENG-251	Celtic Mythology	4.00
ENG-253	American Literature: Pre-Columbian to Civil War	4.00
ENG-254	American Literature: 1865 to Present	4.00
ENG-255	American Literature: Topics in American Literature	4.00
GEO-208	Geography of the United States & Canada	4.00
HST-101	History of Western Civilization	4.00
HST-102	History of Western Civilization	4.00
HST-103	History of Western Civilization	4.00
HST-132	History of Language and the Written Word in Western Civilization	4.00
HST-201	History of the United States	4.00
HST-202	History of the United States	4.00
HST-203	History of the United States	4.00
PHL-102	Ethics	4.00
R-204	History of Christianity	4.00

Optional

While not required for the AS degree, students may complete additional coursework at CCC that will meet requirements for the Bachelor of Science degree at Oregon State University. The Bachelor of Science degree requires the completion of one course from each category below.

Biological Science Electives

BI-101	General Biology; Cellular Biology	4.00
BI-102	General Biology; Animal Systems	4.00
BI-103	General Biology; Plants & The Ecosystem	4.00
BI-165CL	Natural History of the Oregon Coast with Lab	4.00
BI-175	Integrated Science Inquiry	4.00

BI-176	Integrated Science Inquiry	4.00
BI-177	Integrated Science Inquiry	4.00
BI-204	Elementary Microbiology	4.00
BI-221Z	Principles of Biology: Cells	5.00
BI-222Z	Principles of Biology: Organisms	5.00
BI-223Z	Principles of Biology: Ecology and Evolution	5.00
BI-234	Introductory Microbiology	4.00
ESR-171	Introduction to Environmental Science	4.00
ESR-172	Introduction to Climate Change	4.00
ESR-173	Introduction to Sustainability	4.00
Z-201	General Zoology	4.00
Z-202	General Zoology	4.00
Z-203	General Zoology	4.00

Cultural Diversity Electives

ANT-232	Native Americans of North America	4.00
ENG-213	U.S. Latinx Literature	4.00
ENG-252	Hindu Mythology	4.00
GEO-110	Cultural & Human Geography	4.00
R-101	Judaism and Foundations of Religion	4.00
R-102	Christianity and Islam	4.00
R-103	Asian Religions	4.00
R-210	World Religions	4.00

Difference, Power, and Discrimination Electives

HST-201	History of the United States	4.00
HST-202	History of the United States	4.00
HST-203	History of the United States	4.00
SOC-206Z	Social Problems	4.00

Program Change Request

Date Submitted: 05/29/25 10:16 am

Viewing: AS.PSUCIVILENGR : AS, Civil Engineering, PSU

Last approved: 04/04/25 8:41 am

Last edit: 05/29/25 10:19 am

Changes proposed by: Eric Lee (elee)

Catalog Pages Using this Program

Civil Engineering Emphasis, AS - with Portland State University

Change Type

College Council Review

No

Program Contact Information

Are you the Faculty Contact Person?

Yes

In Workflow

1. **Curriculum Office**
2. **ENGR Chair**
3. **DASC Dean**
4. **Curriculum Office**
5. Curriculum Committee Approval

Approval Path

1. 04/24/25 1:18 pm Dru Urbassik (dru.urbassik): Approved for Curriculum Office
2. 04/24/25 9:23 pm Matt LaForce (laforce): Approved for ENGR Chair
3. 04/29/25 2:50 pm Sue Goff (sue.goff): Approved for DASC Dean
4. 05/27/25 6:46 am Megan Feagles (megan.feagles): Approved for Curriculum Office
5. 05/29/25 10:03 am Megan Feagles (megan.feagles): Rollback to Curriculum Office for Curriculum Committee Approval

6. 05/29/25 10:04 am Megan Feagles (megan.feagles): Rollback to Initiator
7. 05/29/25 10:20 am Megan Feagles (megan.feagles): Approved for Curriculum Office
8. 05/29/25 11:42 am Matt LaForce (laforce): Approved for ENGR Chair
9. 05/29/25 11:54 am Sue Goff (sue.goff): Approved for DASC Dean

History

1. Oct 6, 2022 by clmig-kxayasene
2. Nov 28, 2022 by Megan Feagles (megan.feagles)
3. Dec 2, 2022 by Megan Feagles (megan.feagles)
4. Apr 18, 2023 by Megan Feagles (megan.feagles)
5. Jun 5, 2023 by Megan Feagles (megan.feagles)
6. Nov 3, 2023 by Eric Lee (elee)
7. Feb 16, 2024 by Eric Lee (elee)
8. Mar 11, 2024 by Megan Feagles (megan.feagles)

9. Mar 22, 2024 by Megan Feagles (megan.feagles)
10. Oct 17, 2024 by Megan Feagles (megan.feagles)
11. Jan 17, 2025 by Megan Feagles (megan.feagles)
12. Apr 4, 2025 by Megan Feagles (megan.feagles)

Program Overview

Name of Proposed Program

AS, Civil Engineering, PSU

Program Code	AS.PSUCIVILENGR
Award (CCWD)	Associate of Science (90-108 credits) (AS)
Type of Program (CCC)	Associate of Science (AS)
Educational Focus Area	Science, Technology, Engineering and Math (STEM)
Effective Catalog Edition	2025-2026
Career Area	Industrial and Engineering Systems
Department	Engineering Sciences
Division	Arts and Sciences

Other locations (institutions) this Program will be offered

CIP Code	14.0101 - Engineering, General.

Program Award Information

Program Learning Outcomes (PLOs)

Upon successful completion of this program, students should be able to:

	Outcome(s)
1	apply the fundamental elements of engineering design;
2	employ mathematics, science, and computing techniques in a systematic and rigorous manner to support the study and solution of engineering problems;
3	conduct and document laboratory experiments in the sciences and engineering, effectively communicating determined quantitative relationships using both graphs and equations;
4	exhibit good teamwork skills and serve as effective members of laboratory and project teams;
5	articulate and justify graphical, numerical, and analytical solutions to an audience through oral and written communication.

Proposed Curriculum

Plan of Study Grid

First Year		
Fall Term		Credits
CH-221	General Chemistry	5.00
ENGR-111	Introduction to Engineering	3.00
MTH-251Z	Differential Calculus	4.00
WR-121Z	Composition I	4.00
	Credits	16
Winter Term		
CH-222	General Chemistry	5.00
ENGR-112	Engineering Programming	3.00
MTH-252Z	Integral Calculus	4.00
	Credits	12
Spring Term		
COMM-111Z	Public Speaking	4.00
MTH-254	Vector Calculus	5.00
WR-227Z	Technical Writing	4.00
Arts & Letters Electives		4.00
	Credits	17
Second Year		
Fall Term		

ENGR-211	Statics	4.00
~~GIS-201~~	~~Introduction to Geographic Information Systems~~	~~3.00~~
PH-211	General Physics With Calculus	5.00
Social Science Electives		4.00
	Credits	13
Winter Term		
CDT-103	Computer-Aided Drafting I	3.00
ENGR-212	Dynamics	4.00
MTH-256	Differential Equations	4.00
PH-212	General Physics With Calculus	5.00
	Credits	16
Spring Term		
ENGR-213	Strength of Materials	4.00
MTH-261	Linear Algebra	4.00
PH-213	General Physics With Calculus	5.00
Select one of the following:		3.00-4.00
Arts & Letters Electives		
Social Science Electives		
	Credits	16-17
	Total Credits	90-91

Arts & Letters Electives

All courses in ASL, COMM, ENG, FR, GER, HUM, PHL, SPN, WR. Note that native speakers should only take advanced (300 level or above) world language courses.
Non-performance based courses in art, journalism, music, and theater also meet this requirement:

ART-101	Art Appreciation	3.00
ART-204	History of Art/Ancient Through Medieval	4.00
ART-205	History of Art/Romanesque Through Baroque	4.00
ART-206	History of Art/Enlightenment Through Contemporary	4.00
J-211	Mass Media & Society	4.00
MUS-105	Music Appreciation	3.00
MUS-141	Introduction to the Music Business	3.00
MUS-205	Music Literature: History of Jazz	4.00
MUS-206	Music Literature: History of Rock	4.00
TA-101	Appreciation of Theatre	4.00
TA-102	Appreciation of Theatre	4.00

Social Science Electives

All courses in ANT, EC, GEO, HST, PS, PSY, SOC, SSC, and WS or ~~WS.~~

GIS-201	Introduction to Geographic Information Systems (Recommended)	4.00

Recommended

~~Take CE-211 Plane Surveying and Mapping at PSU before beginning their junior year at PSU.~~ Take one additional Arts & Letters or Social Science elective.

Reviewer

Comments

Key: 24

Program Change Request

Date Submitted: 05/29/25 10:18 am

Viewing: AS.PSUENVIRENGR : AS, Environmental Engineering, PSU

Last approved: 04/04/25 8:41 am

Last edit: 05/29/25 10:19 am

Changes proposed by: Eric Lee (elee)

Catalog Pages Using this Program

Environmental Engineering Emphasis, AS - with Portland State University

Change Type

College Council Review

No

Program Contact Information

Are you the Faculty Contact Person?

Yes

In Workflow

1. **Curriculum Office**
2. **ENGR Chair**
3. **DASC Dean**
4. **Curriculum Office**
5. Curriculum Committee Approval

Approval Path

1. 04/24/25 1:18 pm Dru Urbassik (dru.urbassik): Approved for Curriculum Office
2. 04/24/25 9:23 pm Matt LaForce (laforce): Approved for ENGR Chair
3. 04/25/25 9:13 am Sue Goff (sue.goff): Approved for DASC Dean
4. 05/27/25 6:46 am Megan Feagles (megan.feagles): Approved for Curriculum Office
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6. 05/29/25 10:20 am Megan Feagles (megan.feagles):

Approved for Curriculum Office
7. 05/29/25 11:42 am Matt LaForce (laforce): Approved for ENGR Chair
8. 05/29/25 11:54 am Sue Goff (sue.goff): Approved for DASC Dean

History

1. Oct 6, 2022 by clmig-kxayasene
2. Nov 28, 2022 by Megan Feagles (megan.feagles)
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8. Mar 11, 2024 by Megan Feagles (megan.feagles)
9. Mar 22, 2024 by Megan Feagles (megan.feagles)
10. Oct 17, 2024 by Megan Feagles (megan.feagles)
11. Jan 17, 2025 by Megan Feagles

(megan.feagles)
12. Apr 4, 2025 by Megan Feagles (megan.feagles)

Program Overview

Name of Proposed Program

AS, Environmental Engineering, PSU

Program Code	AS.PSUENVIRENGR
Award (CCWD)	Associate of Science (90-108 credits) (AS)
Type of Program (CCC)	Associate of Science (AS)
Educational Focus Area	Science, Technology, Engineering and Math (STEM)
Effective Catalog Edition	2025-2026
Career Area	Industrial and Engineering Systems
Department	Engineering Sciences
Division	Arts and Sciences

Other locations (institutions) this Program will be offered

CIP Code	14.0101 - Engineering, General.

Program Description

Program Award Information

Program Learning Outcomes (PLOs)

Upon successful completion of this program, students should be able to:

	Outcome(s)
1	apply the fundamental elements of engineering design;
2	employ mathematics, science, and computing techniques in a systematic and rigorous manner to support the study and solution of engineering problems;
3	conduct and document laboratory experiments in the sciences and engineering, effectively communicating determined quantitative relationships using both graphs and equations;
4	exhibit good teamwork skills and serve as effective members of laboratory and project teams;
5	articulate and justify graphical, numerical, and analytical solutions to an audience through oral and written communication.

Financial Assistance Options Sougl for and/or

Program

Proposed Curriculum

Plan of Study Grid

First Year

Fall Term		Credits
CH-221	General Chemistry	5.00
ENGR-111	Introduction to Engineering	3.00
MTH-251Z	Differential Calculus	4.00
WR-121Z	Composition I	4.00
	Credits	16

Winter Term

BI-204	Elementary Microbiology	4.00
CH-222	General Chemistry	5.00
ENGR-112	Engineering Programming	3.00
MTH-252Z	Integral Calculus	4.00
	Credits	16

Spring Term		
COMM-111Z	Public Speaking	4.00
MTH-254	Vector Calculus	5.00
WR-227Z	Technical Writing	4.00
Arts & Letters Electives		4.00
	Credits	17
Second Year		
Fall Term		
ENGR-211	Statics	4.00
~~GIS-201~~	~~Introduction to Geographic Information Systems~~	~~3.00~~
PH-211	General Physics With Calculus	5.00
Social Science Electives		4.00
	Credits	13
Winter Term		
CDT-103	Computer-Aided Drafting I	3.00
ENGR-212	Dynamics	4.00
MTH-256	Differential Equations	4.00
PH-212	General Physics With Calculus	5.00
	Credits	16
Spring Term		
ENGR-213	Strength of Materials	4.00
MTH-261	Linear Algebra	4.00
PH-213	General Physics With Calculus	5.00
Select one of the following:		3.00-4.00
Arts & Letters Electives		
Social Science Electives		
	Credits	16-17
	Total Credits	94-95

Arts & Letters Electives

All courses in ASL, COMM, ENG, FR, GER, HUM, PHL, SPN, WR. Note that native speakers should only take advanced (300 level or above) world language courses.

Non-performance based courses in art, journalism, music, and theater also meet this requirement:

ART-101	Art Appreciation	3.00
ART-204	History of Art/Ancient Through Medieval	4.00
ART-205	History of Art/Romanesque Through Baroque	4.00
ART-206	History of Art/Enlightenment Through Contemporary	4.00
J-211	Mass Media & Society	4.00

MUS-105	Music Appreciation	3.00
MUS-141	Introduction to the Music Business	3.00
MUS-205	Music Literature: History of Jazz	4.00
MUS-206	Music Literature: History of Rock	4.00
TA-101	Appreciation of Theatre	4.00
TA-102	Appreciation of Theatre	4.00

Social Science Electives

All courses in ANT, EC, GEO, HST, PS, PSY, SOC, SSC, and WS or ~~WS.~~

GIS-201	Introduction to Geographic Information Systems (Recommended)	4.00

Recommended

Take one additional Arts & Letters or Social Science elective.

Reviewer

Comments

Program Change Request

Date Submitted: 04/24/25 3:51 pm

Viewing: AAS.WATERENVIRONTECH : Water & Environmental Technology

Last approved: 06/11/24 7:47 am

Last edit: 04/28/25 9:16 am

Changes proposed by: Matt LaForce (laforce)

Catalog Pages Using this Program

Water & Environmental Technology, AAS

Change Type

College Council Review

No

Program Contact Information

Are you the Faculty Contact Person?

Yes

In Workflow

1. **Curriculum Office**
2. **ENGR Chair**
3. **DASC Dean**
4. **Curriculum Office**
5. Curriculum Committee Approval

Approval Path

1. 04/25/25 7:13 am Dru Urbassik (dru.urbassik): Approved for Curriculum Office
2. 04/29/25 12:28 pm Matt LaForce (laforce): Approved for ENGR Chair
3. 04/29/25 2:49 pm Sue Goff (sue.goff): Approved for DASC Dean

History

1. Oct 6, 2022 by clmig-kxayasene
2. Jan 17, 2023 by Megan Feagles (megan.feagles)
3. Feb 6, 2023 by Megan Feagles (megan.feagles)
4. Apr 18, 2023 by Megan Feagles (megan.feagles)

5. Jun 5, 2023 by Megan Feagles (megan.feagles)
6. Mar 11, 2024 by Megan Feagles (megan.feagles)
7. Mar 21, 2024 by Megan Feagles (megan.feagles)
8. Jun 11, 2024 by Megan Feagles (megan.feagles)

Program Overview

Name of Proposed Program

Water & Environmental Technology

Program Code	AAS.WATERENVIRONTECH

Award (CCWD)

AAS Degree (90-108 credits) (AAS)

Type of Program (CCC)	Associate of Applied Science (AAS)
Educational Focus Area	Natural Resources
Effective Catalog Edition	2025-2026
Career Area	Agriculture, Food & Natural Resources Systems
Department	Engineering Sciences
Division	Arts and Sciences

Other locations (institutions) this Program will be offered

CIP Code	15.0506 - Water Quality and Wastewater Treatment Management and Recycling Technology/Technician.

Program Award Information

Program Learning Outcomes (PLOs)

Upon successful completion of this program, students should be able to:

	Outcome(s)
1	successfully pass the state required level-1 certificate/licensure exams for Oregon water treatment and water distribution (note: these exams can only be taken after completion of the WET AAS degree);
2	pass the Oregon Operator in Training certificate wastewater treatment and collection systems examinations;
3	maintain and operate water and waste water treatment facilities and collection and water distribution systems;
4	utilize mathematical skills to solve certification exam problems as well as situations experienced at water and waste water facilities;
5	conduct and document scientific laboratory experiments as applied to the water and waste water industry and effectively communicate determined quantitative relationships using both graphs and equations;
6	exhibit good teamwork skills and serve as effective members of laboratory and project teams;
7	articulate and justify technical solutions to an audience through oral, written, and graphical communication;
8	communicate the importance of safety in operator daily activities and be good stewards of ethical and professionally work place interactions;
9	be more marketable through a second career related work experience;
10	attain higher grade certification which will lead to higher wages;
11	be certified and licensed as a State of Oregon approved Backflow Assembly Tester;
12	develop a thorough understanding of the principles of hydraulics as applied to the water and wastewater industry;
13	obtain increased knowledge of bacterial processes used in water and wastewater systems;

	Outcome(s)
14	obtain hands-on experience with instrumentation and control systems used in water and wastewater plant operations.

Proposed Curriculum

Plan of Study Grid

First Year		
Fall Term		Credits
MTH-082A	Wastewater Math I	1.00
MTH-082B	Waterworks Math I	1.00
WET-110	Wastewater Operations I	3.00
WET-111	Waterworks Operations I	3.00
WET-112	Computer Applications for Water and Wastewater Operations	4.00
~~WR-101~~	~~Workplace Writing~~	~~4.00~~
~~or WR-121Z~~	~~or Composition I~~	
Human Relations requirement		3.00
PSY-101	Human Relations (Recommended)	
	Credits	15
Winter Term		
BI-204	Elementary Microbiology	4.00
MTH-082C	Wastewater Math II	1.00
MTH-082D	Waterworks Math II	1.00
WET-120	Wastewater Operations II	3.00
WET-121	Waterworks Operations II	3.00
WET-122	Water Distribution and Wastewater Collection Systems	3.00
WET-123	Environmental Chemistry I	3.00
	Credits	18
Spring Term		
~~WET-109~~	~~Backflow Assembly Operation and Testing~~	~~4.00~~
WET-130	Wastewater Operations III	4.00
WET-131	Water Treatment	4.00
WET-132	Collection & Distribution Lab	1.00
WET-134	Environmental Chemistry II	3.00
~~WET-180~~	~~Water & Environmental Projects I~~	~~5.00~~
WR-101	Workplace Writing	4.00
or WR-121Z	or Composition I	
	Credits	16
Summer Term		
GIS-201	Introduction to Geographic Information Systems	4.00
WET-108	Cross-Connection Control Program Specialist	3.00
WET-109	Backflow Assembly Operation and Testing	4.00

WET-180	Water & Environmental Projects I	5.00
	Credits	16
Second Year		
Fall Term		
~~GIS-201~~	~~Introduction to Geographic Information Systems~~	~~3.00~~
MTH-082E	Math for High Purity Water	1.00
WET-125	High Purity Water Production I	3.00
WET-241	Aquatic Microbiology	4.00
WET-242	Hydraulics for Water & Wastewater	3.00
WET-245	Instrumentation & Control	4.00
~~WET-280~~	~~Water & Environmental Projects II~~	~~5.00~~
	Credits	15
Winter Term		
HE-252	First Aid/CPR/AED [1]	3.00
~~MTH-082E~~	~~Math for High Purity Water~~	~~1.00~~
~~WET-108~~	~~Cross-Connection Control Program Specialist~~	~~3.00~~
WET-135	High Purity Water Production II	4.00
WET-280	Water & Environmental Projects II	5.00
	Credits	12
	Total Credits	92

1 May be waived with current CPR card

Professional Upgrade Courses

The following courses are designed to upgrade professional skills and in some cases assist in preparation for state certification examinations.

WET-010	Wastewater Operations I	3.00
WET-011	Waterworks Operations I	3.00
WET-020	Wastewater Operations II	3.00
WET-021	Waterworks Operations II	3.00
WET-030	Wastewater Operations III	3.00
WET-031	Water Treatment	3.00
XWET-C001	1-Day Cross Connection Specialist Update	0.7 CEUs
XWET-C002	1-Day Tester Renewal	0.7 CEUs
XWET-C003	2-Day Tester Retrain/Renewal	1.4 CEUs
XWET-C004	4-Day Cross Connection Specialist Course	3.2 CEUs

XWET-C005	5-Day Backflow Tester Course	4.0 CEUs
XWET-C007	Water Environment School	2.1 CEUs
XWET-C008	Waterworks School	2.0 CEUs

Reviewer Comments

Key: 162

Program Change Request

Date Submitted: 05/02/25 9:45 am

Viewing: CC.WATERENVIRONTECH : Water & Environmental Technology

Last approved: 06/05/24 7:06 am

Last edit: 05/06/25 8:22 am

Changes proposed by: Matt LaForce (laforce)

Catalog Pages Using this Program

Water & Environmental Technology, Certificate

Change Type

College Council Review

No

Program Contact Information

Are you the Faculty Contact Person?

Yes

In Workflow

1. **Curriculum Office**
2. **ENGR Chair**
3. **DASC Dean**
4. **Curriculum Office**
5. Curriculum Committee Approval

Approval Path

1. 04/25/25 7:13 am Dru Urbassik (dru.urbassik): Approved for Curriculum Office
2. 04/29/25 12:28 pm Matt LaForce (laforce): Approved for ENGR Chair
3. 04/29/25 2:50 pm Sue Goff (sue.goff): Approved for DASC Dean
4. 04/29/25 3:14 pm Dru Urbassik (dru.urbassik): Rollback to Initiator
5. 05/02/25 9:49 am Megan Feagles (megan.feagles): Approved for Curriculum Office
6. 05/02/25 9:53 am Matt LaForce (laforce): Approved for ENGR Chair

7. 05/15/25 2:07 pm Sue Goff (sue.goff): Approved for DASC Dean

History

1. Oct 6, 2022 by clmig-kxayasene
2. Jan 17, 2023 by Megan Feagles (megan.feagles)
3. Feb 6, 2023 by Megan Feagles (megan.feagles)
4. Feb 7, 2023 by Megan Feagles (megan.feagles)
5. Apr 18, 2023 by Megan Feagles (megan.feagles)
6. Jun 5, 2023 by Megan Feagles (megan.feagles)
7. Mar 11, 2024 by Megan Feagles (megan.feagles)
8. Mar 21, 2024 by Megan Feagles (megan.feagles)
9. Jun 5, 2024 by Megan Feagles (megan.feagles)

Program Overview

Name of Proposed Program

Water & Environmental Technology

Program Code CC.WATERENVIRONTECH

Award (CCWD)
Certificate, Related to a Parent Program (45-60 credits) (CC1R)

Parent Program
AAS.WATERENVIRONTECH

Type of Program (CCC)	Certificate of Completion (CC)
Educational Focus Area	Natural Resources
Effective Catalog Edition	2025-2026
Career Area	Agriculture, Food & Natural Resources Systems
Department	Engineering Sciences
Division	Arts and Sciences

Other locations (institutions) this Program will be offered

CIP Code	15.0506 - Water Quality and Wastewater Treatment Management and Recycling Technology/Technician.

Program Award Information

Program Learning Outcomes (PLOs)

Upon successful completion of this program, students should be able to:

	Outcome(s)
1	successfully pass the state required level-1 certificate/licensure ~~certificate/ licensure~~ exams for Oregon water treatment and water distribution;
2	pass the Oregon Operator in Training certificate wastewater treatment and collection systems examinations;
3	maintain and operate water and waste water treatment facilities and collection and water distribution systems;

	Outcome(s)
4	utilize mathematical skills to solve certification exam problems as well as situations experienced at water and waste water facilities;
5	conduct and document scientific laboratory experiments as applied to the water and waste water industry and effectively communicate determined quantitative relationships using both graphs and equations;
6	exhibit good teamwork skills and serve as effective members of laboratory and project teams;
7	articulate and justify technical solutions to an audience through oral, written, and graphical communication;
8	communicate the importance of safety in operator daily activities and be good stewards of ethical and professionally work place interactions.

Proposed Curriculum

Plan of Study Grid

Fall Term		Credits
MTH-082A	Wastewater Math I	1.00
MTH-082B	Waterworks Math I	1.00
WET-110	Wastewater Operations I	3.00
WET-111	Waterworks Operations I	3.00
WET-112	Computer Applications for Water and Wastewater Operations	4.00
~~WR-101~~	~~Workplace Writing~~	~~4.00~~
~~or WR-121Z~~	~~or Composition I~~	
Human Relations requirement		3.00
PSY-101	Human Relations (Recommended)	
	Credits	15
Winter Term		
BI-204	Elementary Microbiology	4.00
MTH-082C	Wastewater Math II	1.00
MTH-082D	Waterworks Math II	1.00
WET-120	Wastewater Operations II	3.00
WET-121	Waterworks Operations II	3.00
WET-122	Water Distribution and Wastewater Collection Systems	3.00
WET-123	Environmental Chemistry I	3.00
	Credits	18
Spring Term		
~~WET-109~~	~~Backflow Assembly Operation and Testing~~	~~4.00~~
WET-130	Wastewater Operations III	4.00
WET-131	Water Treatment	4.00

WET-132	Collection & Distribution Lab	1.00
WET-134	Environmental Chemistry II	3.00
~~WET-180~~	~~Water & Environmental Projects I~~	~~5.00~~
WR-101	Workplace Writing	4.00
or WR-121Z	or Composition I	
	Credits	16
Summer Term		
WET-109	Backflow Assembly Operation and Testing	4.00
WET-180	Water & Environmental Projects I	5.00
	Credits	9
	Total Credits	58

Reviewer Comments

Clackamas Community College

New Courses

Course Number	Title	Implementation
EMP-170	EMP Capstone	2025/SU
EMP-270	EMP Capstone	2025/SU

Course Change Request

New Course Proposal

Date Submitted: 05/18/25 10:35 am

Viewing: EMP-170 : EMP Capstone

Last edit: 05/22/25 9:23 am

Changes proposed by: Kari Nixon (kari.nixon)

Programs referencing this course

AAS.EMP: Emergency Management Professional

Is Topic Shell Course?

Are you the Faculty Contact Person?

Yes

Course Prefix	EMP - Emergency Management Professional
Course Number	170
Department	Emergency Management/GIS
Division	Technology, Applied Science and Public Services (TAPS)

Course Title

EMP Capstone

In Workflow

1. **Curriculum Office**
2. **DTPS Dean**
3. **DTPS Curriculum Committee Outline Review Team**
4. **Curriculum Office**
5. Curriculum Committee Approval
6. Colleague

Approval Path

1. 05/19/25 6:47 am Megan Feagles (megan.feagles): Approved for Curriculum Office
2. 05/19/25 7:56 am Armetta Burney (armetta.burney): Approved for DTPS Dean
3. 05/22/25 9:23 am Erin Gravelle (erin.gravelle): Approved for DTPS Curriculum Committee Outline Review Team

Grading

Grade Scheme	Standard (STND)
Credit Type	Credit Course

Allow Pass/No Pass	Yes
Only Pass/No Pass	No
Audit	No
Min Credit	3.00
Variable Credit	No

Contact hours

Lecture	
Lec/Lab	66.00
Lab	
Activity	
Clinical	
Field	
CWE Seminar	
CPR	
Seminar	
Community Education/Drivers Ed	
Community Education/Adult	
Total	66
Proposed Effective Term	Summer 2025

I acknowledge that this course, for the average student, will be a time commitment of 3 hours per week per credit in combination of in-class and out-of-class activity.

Yes

Course Description

This course gives students the opportunity to showcase the skills they have learned during previous terms. Students develop a project management plan and work through the analysis necessary to present their findings in an oral and written presentation. Additionally, scenario-based assignments will reinforce the project-based analysis process. Throughout the course, portfolio building strategies are explored with an emphasis on developing a professional portfolio demonstrating their work as preparation for entering the EMP profession. May be repeated for up to 6 credits.

Type of Course (ACTI Code)

210 - Career Technical Preparatory

Reason for the Proposal

To demonstrate learned skills to ensure students have a clear understanding before completion of the Certificate of Completion to move into entry level Emergency Management industry positions.

Is this class challengeable?

No

Can this course be repeated for credit in a degree?

Yes

Up to how many credits can this course be repeated to satisfy a degree requirement? 6.00

Course Requisites

Required

Prerequisites

COMM-140, EMP-201, EMP-202, EMP-208, EMP-210, EMP-212, EMP-218, GIS-101, and WR-121Z

Corequisites

Prerequisites or Corequisites

Recommended

Prerequisites

Corequisites

Prerequisites or Corequisites

Non-Course Requisites

Required

Recommended

Is Student Petition required?

No

Show course in Schedule: Print in Schedule

Hide course in catalog

No

When do you plan to offer this course?

Spring

Will this class use library resources?

No

Course Certifications

Is this a Related Instruction course?

No

Are you going to seek General Education Certification after course approval?

No

General Education Outcome(s)

Equivalent Courses

Equivalent Active Courses

Equivalent Inactive Courses

Student Learning Outcomes

Student Learning Outcomes

	Upon successful completion of this course, students should be able to:
1	employ critical thinking in order to apply appropriate methodologies in situations that utilize emergency management planners, field agents and those in the emergency management field;
2	develop a project management plan that includes, but not limited to, a project outline, data extraction and compilation, analysis of scenarios in the field of emergency management and how their knowledge would impact example scenario;
3	develop and present project details and results;
4	create and maintain a professional portfolio that demonstrates skills learned in previous terms and skills current industry requires for entry into the field of Emergency Management.

Major Topic Outline

Informed decision-making
Importance of resource allocation
Communication strategies with agency & the public
Presentation of project results
Building portfolio during Capstone course

Adaptation to changing circumstances

Rapid situational analysis

Green Course Management

Does the content of this class relate to job skills in any of the following areas:

Increased Energy Efficiency

No

Produce Renewable Energy

No

Prevent Environmental Degradation

No

Clean up Natural Environment

No

Supports Green Services

No

Percent of Course 0

Reviewer Comments

Key: 4552

Preview Bridge

Course Change Request

New Course Proposal

Date Submitted: 05/19/25 10:40 am

Viewing: EMP-270 : EMP Capstone

Last edit: 05/22/25 9:22 am

Changes proposed by: Kari Nixon (kari.nixon)

Programs referencing this course

CC.EMP: Emergency Management Professional

AAS.EMP: Emergency Management Professional

Is Topic Shell Course?

Are you the Faculty Contact Person?

Yes

Course Prefix	EMP - Emergency Management Professional
Course Number	270
Department	Emergency Management/GIS
Division	Technology, Applied Science and Public Services (TAPS)

Course Title

EMP Capstone

In Workflow

1. **Curriculum Office**
2. **DTPS Dean**
3. **DTPS Curriculum Committee Outline Review Team**
4. **Curriculum Office**
5. Curriculum Committee Approval
6. Colleague

Approval Path

1. 03/13/25 11:05 am Megan Feagles (megan.feagles): Approved for Curriculum Office
2. 03/13/25 11:22 am Armetta Burney (armetta.burney): Approved for DTPS Dean
3. 04/02/25 1:08 pm Erin Gravelle (erin.gravelle): Rollback to Initiator
4. 04/14/25 2:01 pm Megan Feagles (megan.feagles): Approved for Curriculum Office
5. 04/15/25 9:47 am Armetta Burney (armetta.burney):

Approved for DTPS Dean

6. 05/02/25 2:13 pm Erin Gravelle (erin.gravelle): Rollback to DTPS Dean for DTPS Curriculum Committee Outline Review Team
7. 05/05/25 7:17 am Megan Feagles (megan.feagles): Rollback to Initiator
8. 05/19/25 11:05 am Megan Feagles (megan.feagles): Approved for Curriculum Office
9. 05/19/25 12:36 pm Armetta Burney (armetta.burney): Approved for DTPS Dean
10. 05/22/25 9:22 am Erin Gravelle (erin.gravelle): Approved for DTPS Curriculum Committee Outline Review Team

Grading

Grade Scheme	Standard (STND)
Credit Type	Credit Course
Allow Pass/No Pass	Yes
Only Pass/No Pass	No
Audit	No

Min Credit	3.00
Variable Credit	No

Contact hours

Lecture	
Lec/Lab	66.00
Lab	
Activity	
Clinical	
Field	
CWE Seminar	
CPR	
Seminar	
Community Education/Drivers Ed	
Community Education/Adult	
Total	66
Proposed Effective Term	Summer 2025

I acknowledge that this course, for the average student, will be a time commitment of 3 hours per week per credit in combination of in-class and out-of-class activity.

Yes

Course Description

This course gives students the opportunity to showcase the skills they have learned during previous terms. Students develop a project management plan and work through the analysis necessary to present their findings in an oral and written presentation. Additionally, scenario-based assignments will reinforce the project-based analysis process. Throughout the course, portfolio building strategies are explored with an emphasis on developing a professional portfolio demonstrating their work as preparation for entering the EMP profession. May be repeated for up to 6 credits.

Type of Course (ACTI Code)

210 - Career Technical Preparatory

Reason for the Proposal

Helping prepare our students for industry work by working with an expert in the field (their instructor) and developing a portfolio to use for the transition.

Is this class challengeable?

No

Can this course be repeated for credit in a degree?

Yes

Up to how many credits can this course be repeated to satisfy a degree requirement? 6.00

Course Requisites

Required

Prerequisites

COMM-218Z, EMP-170, EMP-206, EMP-214, EMP-216, EMP-224, and WR-227Z

Corequisites

Prerequisites or Corequisites

Recommended

Prerequisites

Corequisites

Prerequisites or Corequisites

Non-Course Requisites

Required

Recommended

Is Student Petition required?

No

Show course in Schedule

Print in Schedule

Hide course in catalog

No

When do you plan to offer this course?

Spring

Will this class use library resources?

No

Course Certifications

Is this a Related Instruction course?

No

Are you going to seek General Education Certification after course approval?

No

General Education Outcome(s)

Equivalent Courses

Equivalent Active Courses

Equivalent Inactive Courses

Student Learning Outcomes

Student Learning Outcomes

	Upon successful completion of this course, students should be able to:
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3	develop and present project details and results;
4	create and maintain a professional portfolio that demonstrates skills learned in previous terms and skills current industry requires for entry into the field of Emergency Management.

Major Topic Outline

Informed decision-making
Importance of resource allocation
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Rapid situational analysis

Green Course Management

Does the content of this class relate to job skills in any of the following areas:

Increased Energy Efficiency

No

Produce Renewable Energy

No

Prevent Environmental Degradation

No

Clean up Natural Environment

No

Supports Green Services

No

Percent of Course 0

Reviewer Comments

Erin Gravelle (erin.gravelle) (04/02/25 1:08 pm): Rollback: Hi Kari, The TAPS curriculum review team met this morning and we're sending your course proposal back with a few suggestions before it heads to the college-wide committee. We totally recognize how much work goes into course design—it's no small feat—and we really appreciate all the thought and effort you've already put into this. To make sure everything's as aligned and detailed as possible, here are a few things to take a look at: The Course Description doesn't yet reflect Student Learning Outcomes 2 and 3, which focus on the Capstone project—since that's a major component of the course, it should be mentioned in the description. SLO #3 just needs a verb at the beginning—something like "present" or "develop and present" would work great. SLO #4 isn't currently measurable, so it might need a bit of rewording to meet that requirement. One question that came up regarding SLO #4 is: how can students "maintain" a professional portfolio while they're still creating it? A small clarification there might help. In the Major Topics Outline, terms like "critical thinking" and "project management" are a little broad—are there specific course topics or activities you could list that reflect those skills? Also, it would be great to explicitly include the Capstone project there, too. If anything's unclear or you'd like more input from the team, I'm happy to talk it through. Let me know how I can help! Warmly, Erin

Erin Gravelle (erin.gravelle) (05/02/25 2:13 pm): Rollback: Please include prerequisites as this course is a culmination of work from other courses in other terms.

Megan Feagles (megan.feagles) (05/05/25 7:17 am): Rollback: I think this was accidentally rolled back to Armetta. Erin's note said: Please include prerequisites as this course is a culmination of work from other courses in other term.

Program Amendments

Program	Implementation
Emergency Management Professional AAS	2025/SU

Program Change Request

Date Submitted: 03/25/25 8:26 am

Viewing: **AAS.EMP : Emergency Management Professional**

Last approved: 06/11/24 7:59 am

Last edit: 03/26/25 10:10 am

Changes proposed by: Kari Nixon (kari.nixon)

Change Type	Substantial
College Council Review	No

Program Contact Information

Are you the Faculty Contact Person?

Yes

In Workflow

1. **Curriculum Office**
2. **EGIS Chair**
3. **DTPS Dean**
4. **Curriculum Office**
5. Curriculum Committee Approval

Approval Path

1. 03/26/25 10:06 am Megan Feagles (megan.feagles): Approved for Curriculum Office
2. 03/26/25 10:11 am Kari Nixon (kari.nixon): Approved for EGIS Chair
3. 03/26/25 2:20 pm Armetta Burney (armetta.burney): Approved for DTPS Dean

History

1. Oct 6, 2022 by clmig-kxayasene
2. Feb 14, 2023 by Megan Feagles (megan.feagles)
3. Apr 18, 2023 by Megan Feagles (megan.feagles)

4. Jun 5, 2023 by Megan Feagles (megan.feagles)
5. Jun 5, 2023 by Megan Feagles (megan.feagles)
6. Oct 30, 2023 by Megan Feagles (megan.feagles)
7. Feb 6, 2024 by Megan Feagles (megan.feagles)
8. Apr 5, 2024 by Virginia Chambers (virginia.chambers)
9. Jun 11, 2024 by Megan Feagles (megan.feagles)

Program Overview

Name of Proposed Program

Emergency Management Professional

Program Code	AAS.EMP
Award (CCWD)	AAS Degree (90-108 credits) (AAS)
Type of Program (CCC)	Associate of Applied Science (AAS)
Educational Focus Area	Natural Resources
Effective Catalog Edition	2025-2026
Career Area	Business and Management
Department	Emergency Management/GIS
Division	Technology, Applied Science and Public Services (TAPS)

Other locations (institutions) this Program will be offered

CIP Code	43.0302 - Crisis/Emergency/Disaster Management.

Labor Market

Labor Market Need

Careers in emergency management are crucial in Oregon (and throughout the US) to protect lives, property & the environment by mitigating, preparing for, responding to, and recovering from natural and man-made disasters. Oregon's geography and climate expose it to various hazards making these roles essential for ensuring community safety and resilience. Emergency management professionals play a key role in developing and implementing preparedness plans, educating the public and reducing potential impact, through mitigation, of future disasters. Careers can include, but are not limited, to Public Information Officer, Emergency Response Manager, Planning Specialist, Public Safety Managers, Emergency Management Coordinators. Bureau of Labor reports jobs in this industry are projected to grow at a much faster rate than the statewide average growth rate through 2033. Overall, statewide, there is a 3.7%-16.7% projected growth in employment in Emergency Management.

Advisory Board:
Emergency Management Advisory Board-Clackamas Community College
Kari Nixon-Director of Emergency Management, GIS, Wildland Fire & Apprenticeship/Clackamas Community College
Armetta Burney-Dean of TAPS Division/Clackamas Community College
Douglas Cummins-Emergency Coordinator/Clackamas Community College
Dennis Marks-Director of College Safety/Clackamas Community College
Mike Harryman-Resilence Manager-Director of COOP/COG
Mark Reese-Radiological Emergency Planning Coordinator/Oregon Department of Energy
James Merten-Crisis Manager/Port Recovery US Coast Guard
Jamie Poole-Deputy Disaster Manager/Clackamas County
Raymond Watkins-Emergency Management Coordinator/Willamette Valley Medical Center
Krista Carter-Emergency Program Coordinator II/Marion County
Juan Benavidez-Emergency Manager/Salem Keizer School District
Dave Busby-President/OEMA (Oregon Emergency Management Asssociation)

Labor Market Attachment

Occupation & Wage Information - QualityInfo, Emergency Management.pdf

Supplemental Occupation Profiles Form.docx

Program Award Information

Program Learning Outcomes (PLOs)

Upon successful completion of this program, students should be able to:

	Outcome(s)
1	demonstrate critical thinking to identify and reduce disaster risk through a proactive, anticipatory and innovative approach for guiding public policy and the application of homeland security and emergency management framework and principles;
2	identify the social determinants of risk, as both the risks for and the effects of disasters are socially produced;
3	demonstrate knowledge in scientific processes, geographic configurations, social-cultural issues and interdependent relationships as they pertain to emergency management;
4	explain communication and facilitation modes including evolving technologies and methods for disaster risk awareness, assessment, measurement and reduction for a broad spectrum of stakeholders;
5	identify civic and legal processes, ethical considerations, policies and politics important in Emergency Management;
6	develop an individual learning development plan.

Related Instruction Courses in the Program

Computation

3-4 Credits

Communication

WR-121Z

Human Relations

COMM-140 or COMM-218Z

Health/PE

1 credit

Program-Level Assesment Plan

Assesment Plan Details

The department plans to launch the new certificate and amended AAS degree and spend time revising, if and as needed, based on feedback from our Advisory Board and through surveys to students and faculty. After the first three years of offering these programs, a formal program review and assessment will be created with the help of the Center for Teaching & Learning.

Attach Additional Information

Marketing Plan

Marketing Plan Details

We plan to work with our community partners & Advisory Board to help market the programs initially. As well, we will work with College Relations & Marketing to advertise through any avenue allowed through the college.

Attach Additional Information

Will there be revenues associated with the new program?

Yes

Describe revenues associated

Tuition

Do new courses need to be created for this new program?

Yes

New Courses

Course Code
EMP-270

Are new sections of exisiting courses needed to support this new program?

No

Additional faculty needed?

No

New Physical facilities and equipment needed?

No

Please explain how the current physical facilities and equipment will be allocated to meet the needs of the new program

The core classes for this program will all be offered online via Zoom. There are no physical facilities needed.

New Student Services needed?

No

Please explain how the current Student Services will accommodate the needs of the new program

We are hoping to have 10-13 students initially and don't foresee an impact on Student Services.

Other expenses?

No

Financial Assistance Options Sought for and/or Approved for the Program

Federal Financial Aid Options

No

Workforce Investment Act – Individual Training Account

No

Veterans Benefits

No

State of Oregon Financial Aid

No

College Financial Aid

No

Private Business, Foundation Aid

No

Other

No

Program Approval Standards

Standard A: Need - The community college provides clear evidence of the need for the program.

According to various sources (OEM, Bureau of Labor & Oregon.gov) the need for Emergency Management professionals is expected to continue a 4% growth as communities strive to prepare for and mitigate risks from potential emergencies. OEM (Oregon Department of Emergency Management) is actively seeking to expand its capacity & support to residents, indicating a need for more Emergency Management professionals. The Emergency Management program advisory board (comprised of 10-12 professionals currently in higher level Emergency Management positions) has expressed need for more entry level workers into the field. The field offers competitive wages starting at $36.99-$84.66 per hour dependent on local, state or federal positions. Careers in this field could include, but are not limited to, Emergency Communications Dispatcher, Public Information Officer, Emergency Planning Coordinator or Manager.

Standard B: Collaboration - The community college utilizes systemic methods for meaningful and ongoing involvement of the appropriate constituencies.

The Emergency Management program advisory board (comprised of 10-12 professionals currently in higher level Emergency Management positions) has expressed need for more entry level workers into the field. Also expressed is the need, within their own businesses, to work with students in this program to do Capstone projects, Cooperative Work Experience and, eventually, Internships to ease the path of students into the important work of Emergency Management positions. Through this advisory board there is the intent to meet at the end of each term through our first two years to assure we are continuing to offer the most updated and necessary curriculum but making sure we are preparing our students to seamlessly move into this career pathway and make changes as needed. We have also partnered with multiple college departments: advising, veterans office, curriculum office, financial aid. We have the support and involvement of Associate Faculty currently working in the field of Emergency Management who express the need for more workers and the Dean of our division. We are confident our students will be well prepared and help fill the gap of workers needed.

Standard C: Alignment - The program is aligned with appropriate education, workforce development, and economic development activities.

Students will receive a Certificate of Completion after 1 year or an AAS after 2 years. This program can work with, be a benefit to and benefit from programs under our Wildland Fire and GIS programs. From partners and advisory board members and meetings it has become clear that Emergency Management positions are in demand within local, state and federal agencies and local business of a certain size.

Standard D: Design - The program leads to student achievement of academic and technical knowledge, skills, and related proficiencies.

The program will be open admission and core classes will be offered online for those that struggle to accommodate scheduling class time on campus. We will continue, through surveys, to assess content & instruction of classes each term. We will share this data at our Advisory Board meetings getting feedback from those industry experts. We want to ensure we are making any changes necessary to how classes are taught or what we could be doing better to better prepare & instruct students. Core classes have been arranged, with Advisory Board input, to ensure that after 3 successfully completed terms of core class students can move into an entry level position & after completion of the 2nd year of core classes students can move into roles centered around leadership and/or management. We have worked closely with our Advisory Board to ensure that the technology associated with each unit of study is included in the syllabi so that students are exposed and prepared as they move into the industry.

Standard E: Capacity - The community college identifies and has the resources to develop, implement, and sustain the program.

The AAS program was originally developed in 2018. We have taken that outline and spent 14 month meeting with industry experts to streamline, rearrange and get feedback about changes and, importantly, sustainability. There has been example after example, from our partners, of the need for new workers in the Emergency Management field and we have been approached by potential students already in industry who want to participate to increase their skill in these areas. We have hired two Associate Faculty, who have participated on the Advisory Board as they are currently in the Emergency Management field, who have worked alongside me in giving feedback and are prepared to teach the curriculum prepared in the fall of 2025. Once this is approved through our internal Curriculum Committee, my intention is to start the conversation with our marketing team to see what avenues I can utilize once this is approved and all steps complete through external agencies. We also have our Advisory Board members and OEMA (Oregon Emergency Management Association) very excited to share out that this program is ready to enrollment as they either have people that may just be getting into industry or colleagues already in industry that want to increase or refine their skill and knowledge.

Proposed Curriculum

Plan of Study Grid

First Year		
Fall Term		Credits
EMP-201	Introduction to Homeland Security and Emergency Management	4.00
EMP-202	Threat and Hazard Assessment for Emergency Management Professionals	3.00
~~EMP-204~~	~~Foundations of Emergency Planning~~	~~4.00~~
~~Computation requirement~~		~~4.00~~

EMP-208	Disaster Response and Recovery	4.00
GIS-101	Maps and Geospatial Technology	4.00
	Credits	15
Winter Term		
~~COMM-218Z~~	~~Interpersonal Communication~~	~~4.00~~
~~EMP-206~~	~~Hazard Mitigation~~	~~3.00~~
~~EMP-208~~	~~Disaster Response and Recovery~~	~~4.00~~
~~EMP-222~~	~~Terrorism Awareness and Response~~	~~2.00~~
~~EMP-224~~	~~Science of Disasters~~	~~2.00~~
COMM-140	Introduction to Intercultural Communication	4.00
EMP-210	Developing and Managing Volunteer Resources	4.00
EMP-212	Public Health and Medical Emergency Management	3.00
EMP-218	Public Information Officer and External Affairs	2.00
WR-121Z	Composition I	4.00
	Credits	17
Spring Term		
~~EMP-210~~	~~Developing and Managing Volunteer Resources~~	~~4.00~~
~~EMP-212~~	~~Public Health and Medical Emergency Management~~	~~3.00~~
~~EMP-214~~	~~Technology in Emergency Management~~	~~4.00~~
~~EMP-216~~	~~Emergency Management Laws and Ethics~~	~~2.00~~
~~Elective (100 level or above)~~ [1]		~~2.00-4.00~~
EMP-204	Foundations of Emergency Planning	4.00
EMP-222	Terrorism Awareness and Response	2.00
EMP-226	Business Continuity Fundamentals	4.00
EMP-270	Course EMP-270 Not Found	3.00
Computation requirement		3.00-4.00
	Credits	16-17
Second Year		
Fall Term		
~~EMP-218~~	~~Public Information Officer and External Affairs~~	~~2.00~~
~~GIS-101~~	~~Maps and Geospatial Technology~~	~~2.00~~
EMP-206	Hazard Mitigation	3.00
EMP-224	Science of Disasters	2.00
GIS-201	Introduction to Geographic Information Systems	4.00
WR-227Z	Technical Writing	4.00
~~Focus Area Courses~~		~~7.00~~
	Credits	13
Winter Term		
~~COMM-140~~	~~Introduction to Intercultural Communication~~	~~4.00~~
~~EMP-220~~	~~Introduction to Emergency Management Public Administration and Policy~~	~~2.00~~
~~Focus Area Courses~~		~~9.00~~

COMM-218Z	Interpersonal Communication	4.00
EMP-214	Technology in Emergency Management	4.00
EMP-216	Emergency Management Laws and Ethics	2.00
Electives		6.00-8.00
	Credits	16-18
Spring Term		
~~EMP-226~~	~~Business Continuity Fundamentals~~	~~4.00~~
EMP-220	Introduction to Emergency Management Public Administration and Policy	2.00
EMP-270	Course EMP-270 Not Found	3.00
PE/Health/Safety/First Aid requirement		1.00
~~Focus Area Courses~~		~~10.00~~
Electives		8.00
	Credits	14
	Total Credits	91-94

electives

BA-119	Project Management Practices	2.00
BA-120	Project Management Fundamentals	4.00
BA-128	Project Management: Leadership Strategies	4.00
BA-214	Business Communications	3.00
BA-224	Human Resource Management	4.00
BA-264	Project Management Tools	3.00
BA-285	Human Relations in Business	4.00
COMM-100Z	Introduction to Communication	4.00
COMM-111Z	Public Speaking	4.00
COMM-126	Intro to Communication, Gender, and Sexuality	4.00
COMM-212	Mass Media & Society	4.00
COMM-227	Nonverbal Communication	4.00
FRP-130	Introduction to Wildland Firefighting (S-130/S-190/S-110/ICS-100/IS-700/L-180)	3.00
FRP-200	Basic Incident Command System (I-100, I-200, IS-700, IS-800)	4.00
FRP-248	Wilderness V: Introduction to Search and Rescue	2.00
FRP-249	Followership to Leadership (L-280)	2.00
PHL-103	Critical Reasoning	4.00

PSY-101	Human Relations	3.00
PSY-219	Introduction to Psychological Disorders	4.00
WR-101	Workplace Writing	4.00

[1]Students who have not satisfied WR-121Z%7C or equivalent should take it in spring term.

Focus Areas

Complete all courses from one of the following Focus Areas

Wildland Fire

FRP-130	Introduction to Wildland Firefighting (S-130/S-190/S-110/ICS-100/IS-700/L-180)	2.00
FRP-131	Advanced Firefighter Training (S-131/S-133)	1.00
FRP-200	Basic Incident Command System (I-100, I-200, IS-700, IS-800)	4.00
FRP-211	Portable Pumps and Water Use (S-211)	2.00
FRP-244	Wilderness II: Basic Land Navigation (S-244)	3.00
FRP-246	Wilderness IV: Backcountry CPR/First Aid/AED	2.00
FRP-249	Followership to Leadership (L-280)	2.00
FRP-250	Wilderness VI: Basic Tool Use and Care	1.00
FRP-270	Basic Air Operations (S-270)	1.00
FRP-294	Intermediate Incident Command System (I-300)	2.00
Any BA, CJA, EC, EMP, EMT, FRP, GIS, or HS course not included in the program		6.00

Emergency Medical Technician

BI-231	Human Anatomy & Physiology I	4.00
EMT-101	Emergency Medical Technician Part I	6.00
EMT-102	Emergency Medical Technician Part II	6.00
EMT-105	Introduction to Emergency Medical Services	3.00
EMT-109	Emergency Response Communication/Documentation	2.00
HP-110	Medical Terminology	4.00
Any BA, CJA, EC, EMP, EMT, FRP, GIS, or HS course not included in the program		1.00

Management

BA-120	Project Management Fundamentals	4.00
BA-123	Course BA-123 Not Found	3.00
BA-223	Principles of Marketing	4.00
BA-224	Human Resource Management	4.00
BA-251	Supervisory Management	3.00
PSY-101	Human Relations	3.00
Any BA, CJA, EC, EMP, EMT, FRP, GIS, or HS course not included in the program		5.00

Fire Service Administration

FRP-200	Basic Incident Command System (I-100, I-200, IS-700, IS-800)	4.00
FST-202	Principles of Emergency Services	3.00
FST-204	Fire Protection Systems	3.00
FST-206	Fire Behavior and Combustion	3.00
FST-212	Fire Prevention	3.00
FST-214	Building Construction for Fire Protection	3.00
FST-216	Principles of Fire and Emergency Services Safety and Survival	3.00
Any BA, CJA, EC, EMP, EMT, FRP, GIS, or HS course not included in the program		4.00

Geographic Information Systems (GIS)

BA-120	Project Management Fundamentals	4.00
GEO-100	Introduction to Physical Geography	4.00
GIS-101	Maps and Geospatial Technology	2.00
GIS-201	Introduction to Geographic Information Systems	3.00
GIS-202	GIS Applications	3.00
GIS-205	Cartography and Map Making	3.00
GIS-232	Data Collection & Application	2.00
GIS-238	GIS Web Mapping	2.00
Any BA, CJA, EC, EMP, EMT, FRP, GIS, or HS course not included in the program		3.00

Criminal Justice

~~CJA-101~~	~~Criminology~~	~~4.00~~
~~CJA-110~~	~~Introduction to Law Enforcement~~	~~3.00~~
~~CJA-122~~	~~Criminal Law~~	~~4.00~~
~~PSY-219~~	~~Introduction to Psychological Disorders~~	~~4.00~~
~~SOC-204~~	~~Course SOC-204 Not Found~~	~~4.00~~
~~Any BA, CJA, EC, EMP, EMT, FRP, GIS, or HS course not included in the program~~		~~7.00~~

Reviewer

Comments

Key: 71

Program Amendments

Program	Implementation
Emergency Management Professional CC	2025/SU

Program Change Request

New Program Proposal

Date Submitted: 03/25/25 8:26 am

Viewing: **CC.EMP : Emergency Management Professional**

Last edit: 03/26/25 8:13 am

Changes proposed by: Kari Nixon (kari.nixon)

College Council Review

No

In Workflow

1. **Curriculum Office**
2. **EGIS Chair**
3. **DTPS Dean**
4. **Curriculum Office**
5. Curriculum Committee Approval

Approval Path

1. 03/26/25 10:06 am Megan Feagles (megan.feagles): Approved for Curriculum Office
2. 03/26/25 10:11 am Kari Nixon (kari.nixon): Approved for EGIS Chair
3. 03/26/25 2:20 pm Armetta Burney (armetta.burney): Approved for DTPS Dean

Program Contact Information

Are you the Faculty Contact Person?

No

Faculty Contact Email

kari.nixon@clackamas.edu

Program Overview

Name of Proposed Program

Emergency Management Professional

Program Code CC.EMP

Award (CCWD)

Certificate, Related to a Parent Program (45-60 credits) (CC1R)

Parent Program

Emergency Management Professional (AAS.EMP)

Type of Program (CCC)	Certificate of Completion (CC)
Educational Focus Area	Natural Resources
Effective Catalog Edition	2025-2026
Student Estimate	7
Career Area	Business and Management
Department	Emergency Management/GIS
Division	Technology, Applied Science and Public Services (TAPS)

Other locations (institutions) this Program will be offered

CIP Code	43.0302 - Crisis/Emergency/Disaster Management.

Program Description

Help build a culture of preparedness and ready communities for catastrophic disasters with the Emergency Management Professional (EMP) Certificate at CCC. This program is ideal for incumbent workers looking to benchmark their experience while engaging in meaningful learning opportunities.
This program guides students to understanding the interactions between the evolving social, built, and physical environments that are creating greater risk complexities. Through a diverse curriculum, students will identify what foundations are needed for emergency management professionals to address evolving risks.

Target Population

Target Population

Those interested or currently working in emergency management adjacent professions.

Program Award Information

Program Learning Outcomes (PLOs)

Upon successful completion of this program, students should be able to:

	Outcome(s)
1	demonstrate critical thinking to identify and reduce disaster risk through a proactive, anticipatory and innovative approach for guiding public policy and the application of homeland security and emergency management framework and principles;
2	identify the social determinants of risk, as both the risks for and the effects of disasters are socially produced;
3	demonstrate knowledge in scientific processes, geographic configurations, social-cultural issues and interdependent relationships as they pertain to emergency management;
4	explain communication and facilitation modes including evolving technologies and methods for disaster risk awareness, assessment, measurement, and reduction for a broad spectrum of stakeholders;
5	identify civic and legal processes, ethical considerations, policies and politics important in Emergency Management;
6	develop an individual learning development plan.

Related Instruction Courses in the Program

Computation

3-4 credits

Communication

WR-121Z

Human Relations

COMM-140 OR COMM-218Z

Program-Level Assesment Plan

Assesment Plan Details

Attach Additional Information

Marketing Plan

Marketing Plan Details

Attach Additional Information

Will there be revenues associated with the new program?

Yes

Describe revenues associated

Tuition

Do new courses need to be created for this new program?

No

Are new sections of exisiting courses needed to support this new program?

No

Additional faculty needed?

No

New Physical facilities and equipment needed?

No

Please explain how the current physical facilities and equipment will be allocated to meet the needs of the new program

These are going to be predominantly online learning classes, so no physical learning facilities are needed. There is no additional equipment needed.

New Student Services needed?

No

Please explain how the current Student Services will accommodate the needs of the new program

The same Student Services and Advisors that are being used for the AAS EM will be used for this program.

Other expenses?

No

Financial Assistance Options Sought for and/or Approved for the Program

Federal Financial Aid Options

Yes

Describe

The certificate is above the credit limit to qualify for federal financial aid.

Workforce Investment Act – Individual Training Account

No

Veterans Benefits

Yes

Describe

Classes are either full term length and more than 1 credit per week so will qualify for veterans benefits.

State of Oregon Financial Aid

Yes

Describe

The certificate is above the credit limit to qualify for federal financial aid.

College Financial Aid

No

Private Business, Foundation Aid

No

Other

No

Program Approval Standards

Standard A: Need - The community college provides clear evidence of the need for the program.

According to various sources (OEM, Bureau of Labor & Oregon.gov) the need for Emergency Management professionals is expected to continue a 4% growth as communities strive to prepare for and mitigate risks from potential emergencies. OEM (Oregon Department of Emergency Management) is actively seeking to expand its capacity & support to residents, indicating a need for more Emergency Management professionals. The Emergency Management program advisory board (comprised of 10-12 professionals currently in higher level Emergency Management positions) has expressed need for more entry level workers into the field. The field offers competitive wages starting at $36.99-$84.66 per hour dependent on local, state or federal positions. Careers in this field could include, but are not limited to, Emergency Communications Dispatcher, Public Information Officer, Emergency Planning Coordinator or Manager.

Standard B: Collaboration - The community college utilizes systemic methods for meaningful and ongoing involvement of the appropriate constituencies.

The Emergency Management program advisory board (comprised of 10-12 professionals currently in higher level Emergency Management positions) has expressed need for more entry level workers into the field. Also expressed is the need, within their own businesses, to work with students in this program to do Capstone projects, Cooperative Work Experience and, eventually, Internships to ease the path of students into the important work of Emergency Management positions. Through this advisory board there is the intent to meet at the end of each term through our first two years to assure we are continuing to offer the most updated and necessary curriculum but making sure we are preparing our students to seamlessly move into this career pathway and make changes as needed. We have also partnered with multiple college departments: advising, veterans office, curriculum office, financial aid. We have the support and involvement of Associate Faculty currently working in the field of Emergency Management who express the need for more workers and the Dean of our division. We are confident our students will be well prepared and help fill the gap of workers needed.

Standard C: Alignment - The program is aligned with appropriate education, workforce development, and economic development activities.

Students will receive a Certificate of Completion after 1 year or an AAS after 2 years. This program can work with, be a benefit to and benefit from programs under our Wildland Fire and GIS programs. From partners and advisory board members and meetings it has become clear that Emergency Management positions are in demand within local, state and federal agencies and local business of a certain size.

Standard D: Design - The program leads to student achievement of academic and technical knowledge, skills, and related proficiencies.

The program will be open admission and core classes will be offered online for those that struggle to accommodate scheduling class time on campus. We will continue, through surveys, to assess content & instruction of classes each term. We will share this data at our Advisory Board meetings getting feedback from those industry experts. We want to ensure we are making any changes necessary to how classes are taught or what we could be doing better to better prepare & instruct students. Core classes have been arranged, with Advisory Board input, to ensure that after 3 successfully completed terms of core class students can move into an entry level position & after completion of the 2nd year of core classes students can move into roles centered around leadership and/or management. We have worked closely with our Advisory Board to ensure that the technology associated with each unit of study is included in the syllabi so that students are exposed and prepared as they move into the industry.

Standard E: Capacity - The community college identifies and has the resources to develop, implement, and sustain the program.

The AAS program was originally developed in 2018. We have taken that outline and spent 14 months meeting with industry experts to streamline, rearrange and get feedback about changes and, importantly, sustainability. This included adding this 3 term certificate to enable students to enter into the workforce at an entry level. There has been example after example, from our partners, of the need for new workers in the Emergency Management field and we have been approached by potential students already in industry who want to participate to increase their skill in these areas. We have hired two Associate Faculty, who have participated on the Advisory Board as they are currently in the Emergency Management field, who have worked alongside me in giving feedback and are prepared to teach the curriculum prepared in the fall of 2025. Once this is approved through our internal Curriculum Committee, my intention is to start the conversation with our marketing team to see what avenues I can utilize once this is approved and all steps complete through external agencies. We also have our Advisory Board members and OEMA (Oregon Emergency Management Association) very excited to share out that this program is ready to enrollment as they either have people that may just be getting into industry or colleagues already in industry that want to increase or refine their skill and knowledge.

Proposed Curriculum

Plan of Study Grid

Fall Term		Credits
EMP-201	Introduction to Homeland Security and Emergency Management	4.00
EMP-202	Threat and Hazard Assessment for Emergency Management Professionals	3.00
EMP-208	Disaster Response and Recovery	4.00
GIS-101	Maps and Geospatial Technology	4.00

	Credits	15
Winter Term		
COMM-140	Introduction to Intercultural Communication	4.00
or COMM-218Z	or Interpersonal Communication	
EMP-210	Developing and Managing Volunteer Resources	4.00
EMP-212	Public Health and Medical Emergency Management	3.00
EMP-218	Public Information Officer and External Affairs	2.00
WR-121Z	Composition I	4.00
	Credits	17
Spring Term		
EMP-204	Foundations of Emergency Planning	4.00
EMP-222	Terrorism Awareness and Response	2.00
EMP-226	Business Continuity Fundamentals	4.00
EMP-270	Course EMP-270 Not Found	3.00
Computation requirement		3.00-4.00
	Credits	16-17
	Total Credits	48-49

Reviewer Comments

Program Change Request

Date Submitted: 05/27/25 11:02 am

Viewing: AS.TBIOLOGY : Biology (AST)

Last approved: 05/03/25 6:26 am

Last edit: 05/27/25 1:23 pm

Changes proposed by: Tory Blackwell (toryb)

Catalog Pages Using this Program

Biology (AST)

Change Type

College Council Review

No

Program Contact Information

Are you the Faculty Contact Person?

Yes

In Workflow

1. Curriculum Office
2. SCNC Chair
3. DASC Dean
4. Curriculum Office
5. Curriculum Committee Approval

Approval Path

1. 05/16/25 10:15 am Megan Feagles (megan.feagles): Approved for Curriculum Office
2. 05/19/25 10:50 am Tory Blackwell (toryb): Approved for SCNC Chair
3. 05/19/25 10:53 am Sue Goff (sue.goff): Approved for DASC Dean
4. 05/19/25 11:06 am Megan Feagles (megan.feagles): Approved for Curriculum Office
5. 05/27/25 9:14 am Dru Urbassik (dru.urbassik): Rollback to Initiator
6. 05/27/25 11:39 am Megan Feagles (megan.feagles): Approved for Curriculum Office

7. 05/27/25 1:24 pm Tory Blackwell (toryb): Approved for SCNC Chair
8. 05/27/25 1:25 pm Sue Goff (sue.goff): Approved for DASC Dean

History

1. Oct 6, 2022 by clmig-kxayasene
2. Jan 5, 2023 by Megan Feagles (megan.feagles)
3. Jan 24, 2023 by Megan Feagles (megan.feagles)
4. Jan 25, 2023 by Megan Feagles (megan.feagles)
5. Apr 18, 2023 by Megan Feagles (megan.feagles)
6. Aug 1, 2023 by Megan Feagles (megan.feagles)
7. Feb 16, 2024 by Megan Feagles (megan.feagles)
8. Mar 11, 2024 by Megan Feagles (megan.feagles)
9. Mar 15, 2024 by Megan Feagles (megan.feagles)
10. Apr 5, 2024 by Megan Feagles (megan.feagles)
11. May 17, 2024 by Megan Feagles

(megan.feagles)
12. Jun 7, 2024 by Megan Feagles (megan.feagles)
13. Jun 10, 2024 by Megan Feagles (megan.feagles)
14. Nov 19, 2024 by Megan Feagles (megan.feagles)
15. Jan 17, 2025 by Megan Feagles (megan.feagles)
16. Feb 7, 2025 by Megan Feagles (megan.feagles)
17. Apr 4, 2025 by Megan Feagles (megan.feagles)
18. Apr 18, 2025 by Megan Feagles (megan.feagles)
19. May 3, 2025 by Megan Feagles (megan.feagles)

Program Overview

Name of Proposed Program

Biology (AST)

Program Code	AS.TBIOLOGY

Award (CCWD)

Associate of Science (90-108 credits) (AS)

Type of Program (CCC)	Associate of Science (AS)
Educational Focus Area	Science, Technology, Engineering and Math (STEM)

Effective Catalog Edition	2025-2026
Career Area	Agriculture, Food & Natural Resources Systems
Department	Science
Division	Arts and Sciences

Other locations (institutions) this Program will be offered

CIP Code	26.0101 - Biology/Biological Sciences, General.

Program Award Information

Program Learning Outcomes (PLOs)

Upon successful completion of this program, students should be able to:

	Outcome(s)
1	apply the process of science to biological phenomenon;
2	use quantitative reasoning to present evidence-based arguments;
3	communicate an emerging understanding of the impact of scientific discovery and research on society.

Proposed Curriculum

Complete 90 credits from the following:

Foundational Skills

Writing

2 courses

Information literacy will be included in the Writing requirement

=

~~2 courses~~

~~Information literacy will be included in the Writing requirement~~

~~OSU accepts WR-122Z Composition II and WR-227Z Technical Writing but recommends WR-227Z Technical Writing~~

~~WOU & UO accept WR-122Z Composition II and WR-227Z Technical Writing but recommend WR-122Z Composition II~~

WR-121Z	Composition I	4.00
~~WR-122Z~~	~~Composition II~~	~~4.00~~
~~or WR-227Z~~	~~Technical Writing~~	
WR-227Z	Technical Writing	4.00

Mathematics

2 courses

~~Students who test out of MTH-111Z Precalculus I: Functions should take MTH-112Z Precalculus II: Trigonometry~~

Students who test out of MTH-112Z Precalculus II: Trigonometry may substitute a recommended elective with a MTH prefix (see recommended electives below)

Strongly recommend seeing an advisor for assistance with choosing sequences that best match your specific academic, pre-professional, and career goals

MTH-111Z	Precalculus I: Functions (or higher)	4.00
MTH-112Z	Precalculus II: Trigonometry (or higher)	4.00

Biology

3 courses

Each course must be at least 4 credits

BI-221Z	Principles of Biology: Cells	5.00
BI-222Z	Principles of Biology: Organisms	5.00
BI-223Z	Principles of Biology: Ecology and Evolution	5.00

Chemistry

3-course sequence with lab

Each course must be at least 4 credits

Strongly recommend seeing an advisor for assistance with choosing additional chemistry courses that best match your specific academic, pre-professional, and career goals

Students considering pre-medical, pre-dental, and pre-pharmacy programs should consider taking the Organic Chemistry sequence. Courses in sequence must be taken at the same institution.

~~3-course sequence with lab~~

~~Each course must be at least 4 credits~~

CH-221	General Chemistry	5.00
CH-222	General Chemistry	5.00
CH-223	General Chemistry	5.00

Physics ~~Physics/Math/Chemistry~~

1 sequence

~~2 sequences~~

~~Strongly recommend seeing an advisor for assistance with choosing sequences that best match your specific academic, pre-professional, and career goals~~

Physics Sequence 1		
PH-201	General Physics	5.00
PH-202	General Physics	5.00
PH-203	General Physics	5.00
Physics Sequence 2		
PH-211	General Physics With Calculus	5.00
PH-212	General Physics With Calculus	5.00
PH-213	General Physics With Calculus	5.00
~~**Math Sequence** [1,2]~~		
~~MTH-251Z~~	~~Differential Calculus~~	~~4.00~~
~~MTH-252Z~~	~~Integral Calculus~~	~~4.00~~
~~**Chemistry Sequence** [3,4]~~		
~~CH-241~~	~~Organic Chemistry I~~	~~5.00~~
~~CH-242~~	~~Organic Chemistry II~~	~~5.00~~
~~CH-243~~	~~Organic Chemistry III~~	~~5.00~~

~~[1]Students transferring to PSU may substitute STAT-243Z%7C & MTH-244%7C for MTH-251Z%7C & MTH-252Z%7C.~~ [2]

~~Students transferring to EOU are required to take MATH-241 instead of MTH-251Z%7C and MTH-252Z%7C. MTH-251Z%7C may serve as a substitute for MATH-241.~~

~~[3]Students transferring to OSU are strongly recommended to take the Organic Chemistry sequence.~~ [4]

~~Students considering pre-medical, pre-dental, and pre-pharmacy programs should consider taking the Organic Chemistry sequence. Courses in sequence must be taken at the same institution.~~

General Education Distribution Areas

Arts & Letters

2 courses

Each course must be at least 3 credits

Arts & Letters Course List

ART-101	Art Appreciation	3.00

ART-115	Basic Design: 2-Dimensional Design	4.00
ART-117	Basic Design: 3-Dimensional Composition	4.00
ART-131	Introduction to Drawing	4.00
ART-204	History of Art/Ancient Through Medieval	4.00
ART-205	History of Art/Romanesque Through Baroque	4.00
ART-206	History of Art/Enlightenment Through Contemporary	4.00
ART-232	Life Drawing (Figure Emphasis)	4.00
ART-233	Drawing for Comics	4.00
ART-250	Ceramics/Beginning	4.00
ART-251	Ceramics/Hand-Building I	4.00
ART-252	Ceramics/Wheel-Throwing I	4.00
ART-253	Ceramics/Intermediate	4.00
ART-254	Ceramics/Hand-Building II	4.00
ART-255	Ceramics/Wheel-Throwing II	4.00
ART-257	Metalsmithing/Jewelry	4.00
ART-281	Painting: Still Life/Beginning	4.00
ART-282	Painting: The Figure/Beginning	4.00
ART-283	Painting: Landscapes/Beginning	4.00
ART-284	Painting: Still Life/Intermediate	4.00
ART-285	Painting: The Figure/Intermediate	4.00
ART-286	Painting: Landscapes/Intermediate	4.00
ART-291	Sculpture	4.00
ART-292	Sculpture (Figure Emphasis)	4.00
ART-293	Sculpture (Metal Emphasis)	4.00
ASL-201	Second-Year American Sign Language I	4.00
ASL-202	Second-Year American Sign Language II	4.00
ASL-203	Second-Year American Sign Language III	4.00
COMM-112	Persuasive Speaking	4.00
COMM-126	Intro to Communication, Gender, and Sexuality	4.00

COMM-140	Introduction to Intercultural Communication	4.00
COMM-212	Mass Media & Society	4.00
COMM-218Z	Interpersonal Communication	4.00
COMM-219	Small Group Discussion	4.00
COMM-227	Nonverbal Communication	4.00
ENG-104Z	Introduction to Fiction	4.00
ENG-105Z	Introduction to Drama	4.00
ENG-106Z	Introduction to Poetry	4.00
ENG-107	World Literature: Ancient Through Classical Times	4.00
ENG-108	World Literature: Early Middle Ages through the 18th Century	4.00
ENG-109	World Literature: The 19th through 21st Centuries	4.00
ENG-116	Introduction to Literature: Comics	4.00
ENG-121	Mystery Fiction	4.00
ENG-194	Introduction to Film	4.00
ENG-195	American Film	4.00
ENG-201	Shakespeare	4.00
ENG-202	Shakespeare	4.00
ENG-204	British Literature: Ancient to Enlightenment	4.00
ENG-205	British Literature: Romantic to Contemporary	4.00
ENG-213	U.S. Latinx Literature	4.00
ENG-218	Arthurian Literature	4.00
ENG-222	Children's and Young Adult Literature	4.00
ENG-226	Popular Literature	4.00
ENG-240	Native American Mythology	4.00
ENG-241	Norse Mythology	4.00
ENG-243	African Mythology	4.00
ENG-250	Greek Mythology	4.00
ENG-251	Celtic Mythology	4.00
ENG-252	Hindu Mythology	4.00

ENG-253	American Literature: Pre-Columbian to Civil War	4.00
ENG-254	American Literature: 1865 to Present	4.00
ENG-255	American Literature: Topics in American Literature	4.00
ENG-260	Introduction to Women Writers	4.00
ENG-261	Literature of Science Fiction	4.00
ENG-270	Introduction to Literary Criticism	4.00
ENG-271	World Literature: Ancient Through Classical Times	4.00
ENG-272	World Literature: Early Middle Ages through the 18th Century	4.00
ENG-273	World Literature: the 19th Through 21st Centuries	4.00
ENG-295	Revolutionary Film	4.00
ENG-296	Adaptation: Literature Into Film	4.00
FR-201	Second-Year French I	4.00
FR-202	Second-Year French II	4.00
FR-203	Second-Year French III	4.00
HUM-235	Perspectives on Terrorism	4.00
HUM-237	Perspectives on Democracy and Dialogue	4.00
J-211	Mass Media & Society	4.00
J-216	Writing for Media	4.00
MUS-105	Music Appreciation	3.00
MUS-111	Music Theory I	3.00
MUS-112	Music Theory I	3.00
MUS-113	Music Theory I	3.00
MUS-205	Music Literature: History of Jazz	4.00
MUS-206	Music Literature: History of Rock	4.00
MUS-211	Music Theory II	3.00
MUS-212	Music Theory II	3.00
MUS-213	Music Theory II	3.00
PHL-101	Philosophical Problems	4.00
PHL-102	Ethics	4.00

PHL-103	Critical Reasoning	4.00
PHL-205	Moral Issues	4.00
PHL-210	Philosophy of Religion	4.00
PHL-213	Asian Philosophy	4.00
PHL-216	Ancient Philosophy	4.00
R-101	Judaism and Foundations of Religion	4.00
R-102	Christianity and Islam	4.00
R-103	Asian Religions	4.00
R-204	History of Christianity	4.00
R-210	World Religions	4.00
R-211	History of the Old Testament	4.00
R-212	History of the New Testament	4.00
SPN-201	Second-Year Spanish I	4.00
SPN-202	Second-Year Spanish II	4.00
SPN-203	Second-Year Spanish III	4.00
SSC-237	Perspectives on Democracy and Dialogue	4.00
TA-101	Appreciation of Theatre	4.00
TA-102	Appreciation of Theatre	4.00
TA-103	Appreciation of Theatre	4.00
TA-111	Fundamentals of Technical Theatre	4.00
TA-122	Costuming II	3.00
TA-123	Costuming III	3.00
TA-141	Acting I	4.00
TA-142	Acting II	4.00
TA-143	Acting III	4.00
TA-153	Theatre Rehearsal & Performance	3.00
WR-240	Creative Nonfiction Writing I	4.00
WR-241	Fiction Writing I	4.00
WR-242	Poetry Writing I	4.00

WR-243	Playwriting I	4.00
WR-244	Fiction Writing II	4.00
WR-245	Poetry Writing II	4.00
WR-246	Publishing Literature: Reading and Revising for Publication	4.00
WR-247	Playwriting II	4.00
WR-248	Publishing Literature: Editing and Marketing for Publication	4.00
WR-250	Publishing Literature: Designing and Promoting for Publication	4.00
WR-262	Introduction to Screenwriting	4.00
WR-263	Screenwriting II	4.00
WR-265	Digital Storytelling	4.00
WR-270	Creative Nonfiction Writing II: Food Writing	4.00
WS-101	Introduction to Women's Studies	4.00

Social Science

2 courses

Each course must be at least 3 credits

Social Science Course List

ANT-101	Biological Anthropology	4.00
ANT-102	Archaeology & Prehistory	4.00
ANT-103	Cultural Anthropology	4.00
ANT-232	Native Americans of North America	4.00
CJA-101	Criminology	4.00
CJA-201	Juvenile Delinquency	4.00
EC-200	Contemporary Economic Issues	4.00
EC-201Z	Principles of Microeconomics	4.00
EC-202Z	Principles of Macroeconomics	4.00
ES-101	Introduction to Ethnic Studies	4.00
ES-211	Introduction to Latino/a/x Studies	4.00
ES-221	Introduction to Black Studies	4.00
ES-231	Course ES-231 Not Found	4.00

ES-241	Introduction to Native American Studies	4.00
GEO-100	Introduction to Physical Geography	4.00
GEO-110	Cultural & Human Geography	4.00
GEO-130	Introduction to Environmental Geography	4.00
GEO-208	Geography of the United States & Canada	4.00
HST-101	History of Western Civilization	4.00
HST-102	History of Western Civilization	4.00
HST-103	History of Western Civilization	4.00
HST-131	History of Crime & Punishment in Western Civilization	4.00
HST-132	History of Language and the Written Word in Western Civilization	4.00
HST-136	History of Popular Culture, Entertainment & Sports in Western Civilization	4.00
HST-137	History of Science, Medicine, & Technology in Western Civilization	4.00
HST-201	History of the United States	4.00
HST-202	History of the United States	4.00
HST-203	History of the United States	4.00
HUM-237	Perspectives on Democracy and Dialogue	4.00
PS-200	Introduction to Political Science	4.00
PS-201	American Government and Politics	4.00
PS-203	State and Local Governments	4.00
PS-204	Introduction to Comparative Politics	4.00
PS-205	International Relations	4.00
PS-225	Introduction to Political Ideologies	4.00
PS-297	Introduction to Environmental Politics	4.00
PSY-201Z	Introduction to Psychology I	4.00
PSY-202Z	Introduction to Psychology II	4.00
PSY-215	Introduction to Developmental Psychology	4.00
PSY-219	Introduction to Psychological Disorders	4.00
PSY-231	Introduction to Human Sexuality	4.00
SOC-204Z	Introduction to Sociology	4.00

SOC-205Z	Social Change and Institutions	4.00
SOC-206Z	Social Problems	4.00
SOC-207	Social Stratification & Social Systems	4.00
SOC-210	Marriage, Family, & Intimate Relations	4.00
SSC-235	Perspectives on Terrorism	4.00
SSC-237	Perspectives on Democracy and Dialogue	4.00
WS-101	Introduction to Women's Studies	4.00

Cultural Literacy

1 course

Cultural Literacy Course List

ANT-102	Archaeology & Prehistory	4.00
ANT-103	Cultural Anthropology	4.00
ANT-232	Native Americans of North America	4.00
ART-204	History of Art/Ancient Through Medieval	4.00
ART-205	History of Art/Romanesque Through Baroque	4.00
ART-206	History of Art/Enlightenment Through Contemporary	4.00
ASL-201	Second-Year American Sign Language I	4.00
ASL-202	Second-Year American Sign Language II	4.00
ASL-203	Second-Year American Sign Language III	4.00
COMM-126	Intro to Communication, Gender, and Sexuality	4.00
COMM-140	Introduction to Intercultural Communication	4.00
COMM-218Z	Interpersonal Communication	4.00
COMM-219	Small Group Discussion	4.00
ENG-107	World Literature: Ancient Through Classical Times	4.00
ENG-108	World Literature: Early Middle Ages through the 18th Century	4.00
ENG-109	World Literature: The 19th through 21st Centuries	4.00
ENG-213	U.S. Latinx Literature	4.00
ENG-240	Native American Mythology	4.00

ENG-241	Norse Mythology	4.00
ENG-243	African Mythology	4.00
ENG-250	Greek Mythology	4.00
ENG-251	Celtic Mythology	4.00
ENG-252	Hindu Mythology	4.00
ENG-261	Literature of Science Fiction	4.00
ENG-271	World Literature: Ancient Through Classical Times	4.00
ENG-272	World Literature: Early Middle Ages through the 18th Century	4.00
ENG-273	World Literature: the 19th Through 21st Centuries	4.00
ENG-295	Revolutionary Film	4.00
ES-211	Introduction to Latino/a/x Studies	4.00
ES-221	Introduction to Black Studies	4.00
ES-231	Course ES-231 Not Found	4.00
ES-241	Introduction to Native American Studies	4.00
FR-201	Second-Year French I	4.00
FR-202	Second-Year French II	4.00
FR-203	Second-Year French III	4.00
GEO-100	Introduction to Physical Geography	4.00
GEO-110	Cultural & Human Geography	4.00
GEO-130	Introduction to Environmental Geography	4.00
GEO-208	Geography of the United States & Canada	4.00
HST-101	History of Western Civilization	4.00
HST-102	History of Western Civilization	4.00
HST-103	History of Western Civilization	4.00
HST-131	History of Crime & Punishment in Western Civilization	4.00
HST-132	History of Language and the Written Word in Western Civilization	4.00
HST-136	History of Popular Culture, Entertainment & Sports in Western Civilization	4.00
HST-137	History of Science, Medicine, & Technology in Western Civilization	4.00
HST-201	History of the United States	4.00

HST-202	History of the United States	4.00
HST-203	History of the United States	4.00
HUM-235	Perspectives on Terrorism	4.00
HUM-237	Perspectives on Democracy and Dialogue	4.00
MUS-206	Music Literature: History of Rock	4.00
PHL-101	Philosophical Problems	4.00
PHL-102	Ethics	4.00
PHL-103	Critical Reasoning	4.00
PHL-205	Moral Issues	4.00
PHL-210	Philosophy of Religion	4.00
PHL-213	Asian Philosophy	4.00
PHL-216	Ancient Philosophy	4.00
PS-200	Introduction to Political Science	4.00
PSY-202Z	Introduction to Psychology II	4.00
PSY-219	Introduction to Psychological Disorders	4.00
PSY-231	Introduction to Human Sexuality	4.00
R-101	Judaism and Foundations of Religion	4.00
R-102	Christianity and Islam	4.00
R-103	Asian Religions	4.00
R-204	History of Christianity	4.00
R-210	World Religions	4.00
R-211	History of the Old Testament	4.00
R-212	History of the New Testament	4.00
SOC-204Z	Introduction to Sociology	4.00
SOC-205Z	Social Change and Institutions	4.00
SOC-206Z	Social Problems	4.00
SOC-207	Social Stratification & Social Systems	4.00
SOC-210	Marriage, Family, & Intimate Relations	4.00
SPN-201	Second-Year Spanish I	4.00

SPN-202	Second-Year Spanish II	4.00
SPN-203	Second-Year Spanish III	4.00
SSC-235	Perspectives on Terrorism	4.00
SSC-237	Perspectives on Democracy and Dialogue	4.00
WR-241	Fiction Writing I	4.00
WR-244	Fiction Writing II	4.00
WS-101	Introduction to Women's Studies	4.00

Other Requirements

Elective Courses

Recommended electives by transferring institution:

EOU: STAT-243Z Elementary Statistics I or an additional ~~Physics,~~ Math, or Chemistry sequence

OIT: 4-6 credits social science, 1-3 credits humanities, or 2 credits lower division health biology

OSU: COMM-111Z Public Speaking, 3 credits Fitness, 1 Difference Power and Discrimination course, or an additional ~~Physics,~~ Math, or Chemistry sequence

PSU: STAT-243Z Elementary Statistics I or an additional ~~Physics,~~ Math, or Chemistry sequence

SOU: STAT-243Z Elementary Statistics I or an additional ~~Physics,~~ Math, or Chemistry sequence

UO: WR-122Z Composition II or an additional ~~Physics,~~ Math, or Chemistry sequence

WOU: WR-122Z Composition II or an additional ~~Physics,~~ Math, or Chemistry sequence

Any college-level course that would bring total credits to 90 credits

Other courses numbered 100 or above may be used in this area, which may include up to 12 credits of career technical courses

Please refer to the Elective Course List for courses that may be included

Notes

All courses must be passed with a C or better

No course may be used to satisfy more than one requirement or distribution area

Reviewer

Comments

Dru Urbassik (dru.urbassik) (05/27/25 9:14 am): Rollback: Rolling back for MTM CAP updates.

Tory Blackwell (toryb) (05/27/25 1:23 pm): removed physics from the additional recommended electives list since physics is required in the sequence and no other physics options would apply

Program Change Request

Date Submitted: 05/23/25 2:34 pm

Viewing: AA.ENGLISH ~~AA.ENGLIT~~ : English ~~Literature~~ (AAT)

Last approved: 05/05/25 6:57 am

Last edit: 05/27/25 7:16 am

Changes proposed by: Carol Burnell (carolb)

Catalog Pages Using this Program

English Literature (AAT)

English AAT

Change Type

College Council Review

No

Program Contact Information

Are you the Faculty Contact Person?

Yes

In Workflow

1. Curriculum Office
2. ENGL Chair
3. DAFC Dean
4. Curriculum Office
5. Curriculum Committee Approval

Approval Path

1. 05/27/25 7:18 am Megan Feagles (megan.feagles): Approved for Curriculum Office
2. 05/27/25 9:21 am Amanda Coffey (amandac): Approved for ENGL Chair
3. 05/27/25 3:51 pm Danielle Hoffman (danielle.hoffman): Approved for DAFC Dean

History

1. Oct 6, 2022 by clmig-kxayasene
2. Jan 17, 2023 by Megan Feagles (megan.feagles)
3. Jan 26, 2023 by Megan Feagles (megan.feagles)

4. Jan 26, 2023 by Megan Feagles (megan.feagles)
5. Apr 18, 2023 by Megan Feagles (megan.feagles)
6. Feb 16, 2024 by Megan Feagles (megan.feagles)
7. Mar 15, 2024 by Megan Feagles (megan.feagles)
8. Apr 5, 2024 by Megan Feagles (megan.feagles)
9. Apr 16, 2024 by Megan Feagles (megan.feagles)
10. May 17, 2024 by Megan Feagles (megan.feagles)
11. Jun 7, 2024 by Megan Feagles (megan.feagles)
12. Jun 10, 2024 by Megan Feagles (megan.feagles)
13. Jun 10, 2024 by Megan Feagles (megan.feagles)
14. Jun 10, 2024 by Megan Feagles (megan.feagles)
15. Jan 17, 2025 by Megan Feagles (megan.feagles)
16. Feb 7, 2025 by Megan Feagles (megan.feagles)
17. Apr 4, 2025 by Megan Feagles (megan.feagles)

18. May 3, 2025 by Megan Feagles (megan.feagles)
19. May 5, 2025 by Megan Feagles (megan.feagles)

Program Overview

Name of Proposed Program

English ~~Literature~~ (AAT)

Program Code	AA.ENGLISH ~~AA.ENGLIT~~
Award (CCWD)	Associate of Arts Oregon Transfer (90-108 credits) (AAOT)
Type of Program (CCC)	Associate of Arts (AA)
Educational Focus Area	Creative Arts, Communication and Humanities
Effective Catalog Edition	2025-2026
Career Area	Arts, Information, and Communications
Department	English
Division	Academic Foundations and Connections (AFAC)

Other locations (institutions) this Program will be offered

CIP Code	23.0101 - English Language and Literature, General.

Program Award Information

Program Learning Outcomes (PLOs)

Upon successful completion of this program, students should be able to:

	Outcome(s)
1	demonstrate understanding of literary works in context, including the ways texts engage notions of genre, culture, history, class, race, gender, and/or ~~and~~ sexuality;
2	use a variety of written, verbal, and/or multimedia ~~and multimodal~~ forms to respond to, analyze, and/or produce texts. ~~to and analyze literary texts and contexts.~~

Proposed Curriculum

Complete 90 credits from the following:

Foundational Skills

Writing

2 courses

Information literacy will be included in the Writing requirement

WR-121Z	Composition I	4.00
WR-122Z	Composition II	4.00
or WR-227Z	Technical Writing	

Literature

2 courses

Each course must be at least 3 credits

~~2 courses~~

~~At PSU up to 12 credits of 200-level English Literature can count towards the major~~

~~ENG-204~~	~~British Literature: Ancient to Enlightenment~~	~~4.00~~
~~or ENG-205~~	~~British Literature: Romantic to Contemporary~~	
~~or ENG-253~~	~~American Literature: Pre-Columbian to Civil War~~	
~~or ENG-254~~	~~American Literature: 1865 to Present~~	
~~AND~~		
Any 200-Level English Course		

Mathematics

1 course

Not required at PSU for the BA; will count toward UNST placement

MTH-105Z	Math in Society	4.00

Higher Level Math or Statistics

General Education Distribution Areas

Arts & Letters

2 courses
Each course must be at least 3 credits
At SOU & UO, students need two different prefixes to meet general education requirements (one ENG & one WR)
~~2 courses, 200-level literature~~
~~Each course must be at least 3 credits~~
~~If students take American or British survey courses they will count towards major requirements at WOU~~
~~At OSU these courses only count towards the major and students will need to take another Arts and Letters course~~
~~At EOU, SOU, UO & PSU these courses also count toward major requirements (at PSU up to 12 credits of 200-level English Literature can count towards the major)~~

Arts & Letters Course List

ENG-201	Shakespeare	4.00
ENG-202	Shakespeare	4.00
ENG-204	British Literature: Ancient to Enlightenment	4.00
ENG-205	British Literature: Romantic to Contemporary	4.00
ENG-213	U.S. Latinx Literature	4.00
ENG-218	Arthurian Literature	4.00
ENG-222	Children's and Young Adult Literature	4.00
ENG-226	Popular Literature	4.00
ENG-240	Native American Mythology	4.00
ENG-241	Norse Mythology	4.00
ENG-243	African Mythology	4.00
ENG-250	Greek Mythology	4.00
ENG-251	Celtic Mythology	4.00
ENG-252	Hindu Mythology	4.00
ENG-253	American Literature: Pre-Columbian to Civil War	4.00
ENG-254	American Literature: 1865 to Present	4.00
ENG-255	American Literature: Topics in American Literature	4.00

ENG-260	Introduction to Women Writers	4.00
ENG-261	Literature of Science Fiction	4.00
ENG-270	Introduction to Literary Criticism	4.00
ENG-271	World Literature: Ancient Through Classical Times	4.00
ENG-272	World Literature: Early Middle Ages through the 18th Century	4.00
ENG-273	World Literature: the 19th Through 21st Centuries	4.00
ENG-295	Revolutionary Film	4.00
ENG-296	Adaptation: Literature Into Film	4.00
WR-240	Creative Nonfiction Writing I	4.00
WR-241	Fiction Writing I	4.00
WR-242	Poetry Writing I	4.00
WR-243	Playwriting I	4.00
WR-244	Fiction Writing II	4.00
WR-245	Poetry Writing II	4.00
WR-246	Publishing Literature: Reading and Revising for Publication	4.00
WR-247	Playwriting II	4.00
WR-248	Publishing Literature: Editing and Marketing for Publication	4.00
WR-250	Publishing Literature: Designing and Promoting for Publication	4.00
WR-262	Introduction to Screenwriting	4.00
WR-263	Screenwriting II	4.00
WR-265	Digital Storytelling	4.00
WR-270	Creative Nonfiction Writing II: Food Writing	4.00

Social Science

2 courses

Each course must be at least 3 credits

Social Science Course List

ANT-101	Biological Anthropology	4.00
ANT-102	Archaeology & Prehistory	4.00
ANT-103	Cultural Anthropology	4.00

ANT-232	Native Americans of North America	4.00
CJA-101	Criminology	4.00
CJA-201	Juvenile Delinquency	4.00
EC-200	Contemporary Economic Issues	4.00
EC-201Z	Principles of Microeconomics	4.00
EC-202Z	Principles of Macroeconomics	4.00
ES-101	Introduction to Ethnic Studies	4.00
ES-211	Introduction to Latino/a/x Studies	4.00
ES-221	Introduction to Black Studies	4.00
ES-231	Course ES-231 Not Found	4.00
ES-241	Introduction to Native American Studies	4.00
GEO-100	Introduction to Physical Geography	4.00
GEO-110	Cultural & Human Geography	4.00
GEO-130	Introduction to Environmental Geography	4.00
GEO-208	Geography of the United States & Canada	4.00
HST-101	History of Western Civilization	4.00
HST-102	History of Western Civilization	4.00
HST-103	History of Western Civilization	4.00
HST-131	History of Crime & Punishment in Western Civilization	4.00
HST-132	History of Language and the Written Word in Western Civilization	4.00
HST-136	History of Popular Culture, Entertainment & Sports in Western Civilization	4.00
HST-137	History of Science, Medicine, & Technology in Western Civilization	4.00
HST-201	History of the United States	4.00
HST-202	History of the United States	4.00
HST-203	History of the United States	4.00
HUM-237	Perspectives on Democracy and Dialogue	4.00
PS-200	Introduction to Political Science	4.00
PS-201	American Government and Politics	4.00
PS-203	State and Local Governments	4.00

PS-204	Introduction to Comparative Politics	4.00
PS-205	International Relations	4.00
PS-225	Introduction to Political Ideologies	4.00
PS-297	Introduction to Environmental Politics	4.00
PSY-201Z	Introduction to Psychology I	4.00
PSY-202Z	Introduction to Psychology II	4.00
PSY-215	Introduction to Developmental Psychology	4.00
PSY-219	Introduction to Psychological Disorders	4.00
PSY-231	Introduction to Human Sexuality	4.00
SOC-204Z	Introduction to Sociology	4.00
SOC-205Z	Social Change and Institutions	4.00
SOC-206Z	Social Problems	4.00
SOC-207	Social Stratification & Social Systems	4.00
SOC-210	Marriage, Family, & Intimate Relations	4.00
SSC-235	Perspectives on Terrorism	4.00
SSC-237	Perspectives on Democracy and Dialogue	4.00
WS-101	Introduction to Women's Studies	4.00

Natural Science

2 lab science courses

Each course must be at least 4 credits

~~At PSU the second Natural Lab Science course counts towards UNST placement~~

Natural Science Course List

ASC-175	Integrated Science Inquiry	4.00
ASC-176	Integrated Science Inquiry	4.00
ASC-177	Integrated Science Inquiry	4.00
BI-101	General Biology; Cellular Biology	4.00
BI-102	General Biology; Animal Systems	4.00
BI-103	General Biology; Plants & The Ecosystem	4.00
BI-112	General Biology for Health Sciences	4.00

BI-160L	Bird Identification & Taxonomy with Lab	4.00
BI-165CL	Natural History of the Oregon Coast with Lab	4.00
BI-165D	Natural History of the Western Deserts	4.00
BI-175	Integrated Science Inquiry	4.00
BI-176	Integrated Science Inquiry	4.00
BI-177	Integrated Science Inquiry	4.00
BI-204	Elementary Microbiology	4.00
BI-215	Course BI-215 Not Found	4.00
BI-216	Course BI-216 Not Found	4.00
BI-217	Course BI-217 Not Found	4.00
BI-221Z	Principles of Biology: Cells	5.00
BI-222Z	Principles of Biology: Organisms	5.00
BI-223Z	Principles of Biology: Ecology and Evolution	5.00
BI-231	Human Anatomy & Physiology I	4.00
BI-232	Human Anatomy & Physiology II	4.00
BI-233	Human Anatomy & Physiology III	4.00
BI-234	Introductory Microbiology	4.00
CH-104	Introductory Chemistry	5.00
CH-105	Introductory Chemistry	5.00
CH-106	Introductory Chemistry	5.00
CH-112	Chemistry for Health Sciences	4.00
CH-114	Chemistry in Art	4.00
CH-221	General Chemistry	5.00
CH-222	General Chemistry	5.00
CH-223	General Chemistry	5.00
ESR-171	Introduction to Environmental Science	4.00
ESR-172	Introduction to Climate Change	4.00
ESR-173	Introduction to Sustainability	4.00
G-101	General Geology	4.00

G-102	General Geology	4.00
G-103	General Geology	4.00
G-148	Volcanoes & Earthquakes	4.00
G-201	General Geology	4.00
G-202	General Geology	4.00
G-203	General Geology	4.00
GS-104	Earth System Science	4.00
GS-105	Earth System Science	4.00
GS-106	Earth System Science	4.00
GS-107	Astronomy	4.00
PH-121	Astronomy	4.00
PH-122	General Astronomy	4.00
PH-123	General Astronomy	4.00
PH-201	General Physics	5.00
PH-202	General Physics	5.00
PH-203	General Physics	5.00
PH-211	General Physics With Calculus	5.00
PH-212	General Physics With Calculus	5.00
PH-213	General Physics With Calculus	5.00
Z-201	General Zoology	4.00
Z-202	General Zoology	4.00
Z-203	General Zoology	4.00

Cultural Literacy

1 course

Cultural Literacy Course List

ANT-102	Archaeology & Prehistory	4.00
ANT-103	Cultural Anthropology	4.00
ANT-232	Native Americans of North America	4.00

ASL-203	Second-Year American Sign Language III	4.00
ENG-213	U.S. Latinx Literature	4.00
ENG-240	Native American Mythology	4.00
ENG-241	Norse Mythology	4.00
ENG-243	African Mythology	4.00
ENG-250	Greek Mythology	4.00
ENG-251	Celtic Mythology	4.00
ENG-252	Hindu Mythology	4.00
ENG-261	Literature of Science Fiction	4.00
ENG-271	World Literature: Ancient Through Classical Times	4.00
ENG-272	World Literature: Early Middle Ages through the 18th Century	4.00
ENG-273	World Literature: the 19th Through 21st Centuries	4.00
ENG-295	Revolutionary Film	4.00
ES-211	Introduction to Latino/a/x Studies	4.00
ES-221	Introduction to Black Studies	4.00
ES-231	Course ES-231 Not Found	4.00
ES-241	Introduction to Native American Studies	4.00
FR-203	Second-Year French III	4.00
GEO-100	Introduction to Physical Geography	4.00
GEO-110	Cultural & Human Geography	4.00
GEO-130	Introduction to Environmental Geography	4.00
GEO-208	Geography of the United States & Canada	4.00
HST-101	History of Western Civilization	4.00
HST-102	History of Western Civilization	4.00
HST-103	History of Western Civilization	4.00
HST-131	History of Crime & Punishment in Western Civilization	4.00
HST-132	History of Language and the Written Word in Western Civilization	4.00
HST-136	History of Popular Culture, Entertainment & Sports in Western Civilization	4.00
HST-137	History of Science, Medicine, & Technology in Western Civilization	4.00

HST-201	History of the United States	4.00
HST-202	History of the United States	4.00
HST-203	History of the United States	4.00
HUM-237	Perspectives on Democracy and Dialogue	4.00
PS-200	Introduction to Political Science	4.00
PSY-202Z	Introduction to Psychology II	4.00
PSY-219	Introduction to Psychological Disorders	4.00
PSY-231	Introduction to Human Sexuality	4.00
SOC-204Z	Introduction to Sociology	4.00
SOC-205Z	Social Change and Institutions	4.00
SOC-206Z	Social Problems	4.00
SOC-207	Social Stratification & Social Systems	4.00
SOC-210	Marriage, Family, & Intimate Relations	4.00
SPN-203	Second-Year Spanish III	4.00
SSC-235	Perspectives on Terrorism	4.00
SSC-237	Perspectives on Democracy and Dialogue	4.00
WR-241	Fiction Writing I	4.00
WR-244	Fiction Writing II	4.00
WS-101	Introduction to Women's Studies	4.00

Other Requirements

World Languages

1 course

Students transferring to EOU should be aware that they only offer Spanish

~~1 course~~

World Languages Course List

ASL-203	Second-Year American Sign Language III	4.00
FR-203	Second-Year French III	4.00
SPN-203	Second-Year Spanish III	4.00

Elective Courses

Any college-level course that would bring total credits to 90 credits
Other courses numbered 100 or above may be used in this area, which may include up to 12 credits of career technical courses
Please refer to the Elective Course List for courses that may be included
Students should take courses to satisfy their minor of choice that will transfer to the Oregon public university of their choice. Please work with an English Department Advisor to identify possible courses to satisfy a specific minor at a partnering institution

Recommended Elective Course List

~~COMM-111Z~~	~~Public Speaking~~	~~4.00~~
ENG-104Z	Introduction to Fiction	4.00
ENG-105Z	Introduction to Drama	4.00
ENG-106Z	Introduction to Poetry	4.00
ENG-116	Introduction to Literature: Comics	4.00
ENG-121	Mystery Fiction	4.00
ENG-194	Introduction to Film	4.00
ENG-195	American Film	4.00
ENG-230	Documentary Film	4.00
ENG-297	A.S. Degree Portfolio (Recommended)	1.00
WR-140	Introduction to Writing Creatively	4.00
WR-240	Creative Nonfiction Writing I	4.00
WR-241	Fiction Writing I	4.00
WR-242	Poetry Writing I	4.00
WR-243	Playwriting I	4.00
WR-244	Fiction Writing II	4.00
WR-245	Poetry Writing II	4.00
WR-246	Publishing Literature: Reading and Revising for Publication	4.00
WR-247	Playwriting II	4.00
WR-248	Publishing Literature: Editing and Marketing for Publication	4.00
WR-250	Publishing Literature: Designing and Promoting for Publication	4.00

WR-262	Introduction to Screenwriting	4.00
WR-263	Screenwriting II	4.00
WR-265	Digital Storytelling	4.00
WR-268	Creative Nonfiction Writing II: Nature Writing	4.00
WR-270	Creative Nonfiction Writing II: Food Writing	4.00

or any PHL, MUS, MUP, TA, HST, or additional BI or Physical Science courses

Notes

All courses must be passed with a C or better

No course may be used to satisfy more than one requirement or distribution area

Reviewer

Comments

Key: 80

Program Change Request

Date Submitted: 05/23/25 2:34 pm

Viewing: AA.ENGLISH ~~AA.ENGLIT~~ : English ~~Literature~~ (AAT)

Last approved: 05/05/25 6:57 am

Last edit: 05/27/25 7:16 am

Changes proposed by: Carol Burnell (carolb)

Catalog Pages Using this Program

English Literature (AAT)

English AAT

Change Type

College Council Review

No

Program Contact Information

Are you the Faculty Contact Person?

Yes

In Workflow

1. Curriculum Office
2. ENGL Chair
3. DAFC Dean
4. Curriculum Office
5. Curriculum Committee Approval

Approval Path

1. 05/27/25 7:18 am Megan Feagles (megan.feagles): Approved for Curriculum Office
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History

1. Oct 6, 2022 by clmig-kxayasene
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	Outcome(s)
1	demonstrate understanding of literary works in context, including the ways texts engage notions of genre, culture, history, class, race, gender, and/or ~~and~~ sexuality;
2	use a variety of written, verbal, and/or multimedia ~~and multimodal~~ forms to respond to, analyze, and/or produce texts. ~~to and analyze literary texts and contexts.~~

Proposed Curriculum

Complete 90 credits from the following:

Foundational Skills

Writing

2 courses

Information literacy will be included in the Writing requirement

WR-121Z	Composition I	4.00
WR-122Z	Composition II	4.00
or WR-227Z	Technical Writing	

Literature

2 courses

Each course must be at least 3 credits

~~2 courses~~

~~At PSU up to 12 credits of 200-level English Literature can count towards the major~~

~~ENG-204~~	~~British Literature: Ancient to Enlightenment~~	~~4.00~~
~~or ENG-205~~	~~British Literature: Romantic to Contemporary~~	
~~or ENG-253~~	~~American Literature: Pre-Columbian to Civil War~~	
~~or ENG-254~~	~~American Literature: 1865 to Present~~	
~~AND~~		
Any 200-Level English Course		

Mathematics

1 course

Not required at PSU for the BA; will count toward UNST placement

MTH-105Z	Math in Society	4.00