Curriculum Committee Agenda

October 18, 2024 (8-9:30am)

	Presenter	Action
1. Welcome and Introductions	**Chair**	
2. Approval of Minutes	**Chair**	Approval
3. Consent Agenda a. Course Number Changes b. Course Title Change c. Reviewed Outlines for Approval	**Chair**	Approval

4. Course and Program Approvals
  a. **Computer Science Program Amendments**
     a. AS, Computer Science, PSU
     b. Computer Science (AST)
  b. **Engineering Amendments**
     a. AS, Industrial/Manufacturing Engineering, OSU
     b. AS, Mechanical Engineering, OIT
  c. **Fitness Specialist CC Amendment**
	Jen Miller
	
	Eric Lee
	
	Tracy Nelson
		
		Approval/25.SU
		Approval/25.SU
		
		Approval/25.SU
		Approval/25.SU
		Approval/25.SU

5. Old Business a.		
6. New Business a. Associate of General Studies (AGS) Potential Changes	**Sarah Steidl**	Discussions
7. Closing Comments		

Curriculum Committee Minutes

October 4, 2024 (8-9:30am)

Present: ASG (Cadence Gillespie), Keely Baca, Dustin Bare, Nora Brodnicki (Co-Chair), Armetta Burney, Debra Carino, Elizabeth Carney, Virginia Chambers, Amanda Coffey, Juan Cortes, Ephanie Debey, SD DeWaay, Megan Feagles (Recorder), Sue Goff, Erin Gravelle, Jordan Gulley, Dawn Hendricks, Kari Hiatt, Danielle Hoffman, Eric Lee, Kara Leonard, Gentiana Loeffler, Kelly Mercer (Co-Chair), Deanna Myers, Tracy Nelson, David Plotkin, Lisa Reynolds, Terrie Sanne, Charles Siegfried, AJ Smith, April Smith, Aundrea Snitker, Sarah Steidl, Chris Sweet, Dru Urbassik, Wryann Van Riper

Guests:

Absent: Mike Mattson, Ashley Sears

1. **Welcome & Introductions**

2. **Approval of Minutes**
   a. Approval of the June 7, 2024 minutes
   Motion to approve, approved

3. **Consent Agenda**
   a. Course Number Changes
   b. Course Title Change
   c. Reviewed Outlines for Approval
   Motion to approve, approved

4. **Course and Program Approvals**
   a. **New Course – HPE-295ES**
       a. Dawn Hendricks presented
       b. Early Childhood Education wanted to offer a Spanish version of HPE-295 for their Spanish degree program.
       Motion to approve, approved
   b. **Related Instruction – HPE-295ES**
       a. The Related Instruction Review Team recommends HPE-295ES for Related Instruction approval for Physical Education/Health/Safety/First Aid since it has the same requirements and learning outcomes as the English HPE-295 course.
       Motion to approve, approved

5. **Old Business**
   a. **Courses Scheduled for Inactivation 2025**
       i. Curriculum Office presented
           1. This is the 2nd of 3 reminders
           2. Courses that haven't been offered since 2022/SP are scheduled for inactivation on 6/30/25.
           3. To prevent inactivation, the course must be offered during the 24-25 year, OR JUST ASK US NOT TO INACTIVATE IT.
           4. The list is posted under Additional Documents and is updated frequently. The link will be included in the Curriculum Committee approval email today.
           5. The 3rd and final reminder will be in November.

   b. **Courses Due and Overdue for Review 2024-2025**
       i. Courses must be reviewed at least once every 5 years per ISP 160.
       ii. While the Curriculum Office can facilitate the list of courses, Department Chairs are responsible for ensuring courses are reviewed.
       iii. Courses last reviewed in 2018-2019 are due for review. Please submit an outline even if there are no changes to the course.
       iv. The list is posted under Additional Documents and is updated frequently. The link will be included in the Curriculum Committee approval email today.

   c. **Review Membership Vacancies**
       i. Only one vacancy in Arts & Sciences. Deans are responsible for vacancies in their area.

    d. **Transfer Information for Courses**
        i. Dustin Bare presented
        ii. Working with Kara to update the Transfer webpage and include link to the transfer equivalency pages for the 7 state universities.
        iii. Info is posted under Additional Documents on the Curriculum Committee website. It's also linked in the help bubble in CourseLeaf on the question about Course Transferability.

6. **New Business**
    a. **Employment Skills Training and Occupational Skills Training Programs**
        i. What are the requirements for these programs?
        ii. These are student-specific, individualized programs. They haven't been looked at in awhile and could be cleaned up. We're looking for a group of people to look these over. Who should be involved?
        iii. They were sometimes used for students as teach-out plans for suspended programs.
        iv. Sub-Committee: Dru, Megan, Sarah, Virginia
        v. Dustin will try to recruit an advisor. Tom Brown maybe.
    b. **Orientation/Process Sharing**
        i. Orientation: reminder of mission, what the Committee does, responsibilities, where to find information.
        ii. Orientation to CourseLeaf right after this meeting.
        iii. Review Teams share how they review and approve course outlines in CIM
            1. Juan Cortes is taking over for AFAC this year
            2. Aundrea is lead for Arts and Sciences.
            3. Erin Gravelle is lead for TAPS.
            4. Related Instruction and General Education Review Teams are looking for more members. Let Lisa Reynolds know if you want to join these teams.
        iv. Shared Governance
            1. Teaching and Learning Council has met. Looking at different committees and determining which Committees report to which Councils. Curriculum Committee likely will report to the Teaching and Learning Council.

7. **Closing Comments**
    a. CourseLeaf Training right after this meeting
-Meeting Adjourned-

Next Meeting: October 18, 2024 (8-9:30am)

1. Course Title Change

Course	Current Title	Proposed Title

2. Course Number Change

Course	Title	Proposed Course Number

3. Outlines Reviewed for Approval

Course	Title	Implementation
MTH-050	Technical Mathematics I	2025/WI
PE-280	Physical Education/CWE	2025/WI

Course Change Request

Date Submitted: 10/08/24 1:52 pm

Viewing: **MTH-050 : Technical Mathematics I**

Last approved: 09/15/23 4:34 am

Last edit: 10/08/24 1:52 pm

Changes proposed by: Morgan Chase (morganc)

Catalog Pages
referencing this
course
  Medical Assistant, Certificate
  Accounting Clerk, Certificate
  Accounting, AAS
  Apprenticeship (APR)
  Auto Body/Collision Repair and Refinishing Technology, AAS
  Automotive Service Technology (AM)
  Automotive Service Technology, AAS
  Business Administration (BA)
  Computer-Aided Manufacturing, AAS
  Course Descriptions
  Dental Assistant, Certificate
  Digital Media Communications, AAS
  Early Childhood Education & Family Studies, AAS
  Early Childhood Education & Family Studies, Certificate
  Economics (EC)
  Fitness Specialist, Certificate
  Gerontology, Certificate
  Horticulture, AAS
  Horticulture, Certificate
  Horticulture/Arboriculture/Landscape/Organic Farming (HOR)
  Human Services Generalist, AAS
  Human Services Generalist, Certificate
  Industrial Maintenance Technology (IMT)
  Industrial Maintenance Technology Mechanical Maintenance,
  Certificate
  Industrial Maintenance Technology, AAS
  Industrial Maintenance Technology, Certificate
  Landscape Management, AAS

Approval Path

1. 10/08/24 1:53 pm Megan Feagles (megan.feagles): Approved for Curriculum Office
2. 10/11/24 11:24 am Juan Cortes (juan.cortes): Approved for DAFC Curriculum Committee Outline Review Team

History

1. Sep 15, 2023 by Megan Feagles (megan.feagles)

[Landscape Management, Arboriculture Option, AAS](#)
[Machine Tool Technology (MTT)](#)
[Machine Tool Technology, AAS](#)
[Machine Tool Technology, Certificate](#)
[Manufacturing Technology (MFG)](#)
[Math Course Pathways and Prerequisites](#)
[Mathematics (MTH)](#)
[Medical Assistant (MA)](#)
[Music Performance & Technology, AAS](#)
[Music Technology, AAS](#)
[Music Technology, Certificate](#)
[Occupational Skills Training, Certificate](#)
[Organic Farming, Certificate](#)
[Related Instruction](#)
[Renewable Energy Technology, AAS](#)
[Renewable Energy Technology, Certificate](#)
[Welding Technology, AAS](#)
[Welding Technology, Certificate](#)
[Wildland Fire Management, AAS](#)
[Wildland Fire Science, Certificate](#)

Programs referencing this course	[CC.ACNTGCLERK: Accounting Clerk](#)
	[CC.IMTMECHMAIN: Industrial Maintenance Technology Mechanical Maintenan](#)
	[AAS.INDMAINTECH: Industrial Maintenance Technology](#)
	[CC.INDMAINTECH: Industrial Maintenance Technology](#)
	[AAS.LANDSCAPEMGMT: Landscape Management](#)
	[AAS.LANDMGMTARBOR: Landscape Management AAS, Arboric Option](#)
	[AAS.AUTOSERTECH: Automotive Service Technology](#)
	[AAS.MACHTECH: Machine Tool Technology](#)
	[CC.MACHTECH: Machine Tool Technology](#)
	[CC.MEDASST: Medical Assistant](#)
	[AAS.MUSICPERFTECH: Music Performance & Technology](#)
	[CC.MUSICTECH: Music Technology](#)
	[CC.OCCSKILLSTRN: Occupational Skills Training](#)
	[CC.ORGANICFARM: Organic Farming](#)
	[AAS.RNEWNRGYTECH: Renewable Energy Technology](#)
	[CC.RNEWNRGYTECH: Renewable Energy Technology](#)
	[AAS.WELDINGTECH: Welding Technology](#)
	[CC.WELDINGTECH: Welding Technology](#)
	[AAS.WLDLNDMGMT: Wildland Fire Management](#)

CC.FSWILDLAND: Wildland Fire Science

AAS.MUSICTECH: Music Technology

AAS.ACCNTG: Accounting

CC.CNCOPERATOR: CNC Operator

CC.CAD: Computer-Aided Drafting (CAD)

AAS.COMPAIDEMFG: Computer-Aided Manufacturing

CC.DENTALASST: Dental Assistant

AAS.DMC1: Digital Media Communications

AAS.EARLYCHILDFAM: Early Childhood Education & Family Studies

CC.ECEFS: Early Childhood Education & Family Studies

EFA.ITECHAUTO: EFA, Industrial Technology & Automotive

CC.ENSYSMAIN: Energy Systems Maintenance

CC.FITNESSSPEC: Fitness Specialist

AAS.ABCOLRRTECH: Auto Body/Collision Repair and Refinishing
Technology

CC.GERONTOLOGY: Gerontology

AAS.HORT1: Horticulture

CC.HORT: Horticulture

AAS.HUMANSERVGEN: Human Services Generalist

CC.HUMANSERVGEN: Human Services Generalist

Credits/Hours/Instructional Method Change

Is Topic Shell Course?

Are you the Faculty Contact Person?

	Yes
Course Prefix	MTH - Mathematics
Course Number	050
Department	Mathematics
Division	Academic Foundations and Connections (AFAC)
Course Title	Technical Mathematics I

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
Variable Credit	No

Contact hours

Lecture	44.00
Lec/Lab	
Lab	
Activity	
Clinical	
Field	
CWE Seminar	
CPR	
Seminar	
Community Education/Drivers Ed	
Community Education/Adult	
Total	44
Proposed Effective Term	Winter 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

Designed for career-technical students. Topics focus on critical thinking, problem solving, and mathematical communication using applications of arithmetic, measurement, geometry, and statistics and probability.

Type of Course (ACTI Code)

351 - Post Secondary Remedial Math

Is this class challengeable?

No

Can this course be repeated for credit in a degree?

No

Course Requisites

Required

Prerequisites

MTH-020 with a C or better, or placement in MTH-050 or higher

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?

Yes

Related Instruction
Area

Computation

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

No

General Education Outcome(s)

Equivalent Courses

Equivalent Active Courses

Student Learning Outcomes

Student Learning Outcomes

	Upon successful completion of this course, students should be able to:
1	demonstrate rigorous and analytical thinking by reading, writing, and utilizing the technical and logical language and symbolism necessary to do mathematics and be effective problem solvers;
2	evaluate ~~use~~ formulas using ~~regardless of~~ the correct order of operations regardless of ~~field or discipline associated with~~ the field or discipline associated with the application;
3	solve applied problems using fractions, decimals, percents, ratios, and proportions; ~~use units of measure for length, mass, volume, and other properties;~~
4	convert within and between the U.S. and metric systems of measurement, including units of length, mass, capacity, area, and volume; ~~measurement;~~
5	solve applied problems using scientific notation and engineering notation, as well as large prefixes (e.g., mega, giga, tera) and small prefixes (e.g., micro, nano, pico); ~~use accuracy and precision with measurements;~~
6	solve applied problems involving geometrical figures, including angle measures, perimeter, area, ~~two~~ and volume; ~~three dimensional geometric figures;~~
7	solve applied problems using basic statistics such as mean, median, mode, independent probability, and the 68-95-99.7 standard deviation rule; ~~use descriptive statistics to describe and understand data sets;~~
8	use estimation to determine whether a result is reasonable, round a result based on either significant figures or place value, and determine whether a result is within an acceptable margin of error or tolerance. ~~determine the probability of an event.~~

Major Topic Outline

1. Applications-based review of arithmetic. 2. Measurement. 3. Geometry. 4. Statistics and Probability.

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

Course Transferability

Please attach documentation

Reviewer Comments

Course Change Request

Date Submitted: 09/19/24 1:31 pm

Viewing: **PE-280 : Physical Education/CWE**

Last approved: 03/22/24 3:51 am

Last edit: 09/19/24 1:31 pm

Changes proposed by: Tracy Nelson (tracyn)

Catalog Pages
referencing this
course
  Physical Education (PE)

Programs
referencing this
course
  CC.FITNESSSPEC: Fitness Specialist

Credits/Hours/Instructional Method Change

Approval Path

1. 09/12/24 1:15 pm
   Megan Feagles
   (megan.feagles):
   Rollback to Initiator
2. 09/19/24 1:34 pm
   Megan Feagles
   (megan.feagles):
   Approved for
   Curriculum Office
3. 10/07/24 8:16 am
   Juan Cortes
   (juan.cortes):
   Rollback to
   Curriculum Office
   for DAFC Curriculum
   Committee Outline
   Review Team
4. 10/07/24 8:32 am
   Megan Feagles
   (megan.feagles):
   Approved for
   Curriculum Office
5. 10/07/24 8:48 am
   Juan Cortes

History

1. Jun 8, 2023 by Megan Feagles (megan.feagles)
2. Feb 22, 2024 by Megan Feagles (megan.feagles)
3. Mar 22, 2024 by Megan Feagles (megan.feagles)

Is Topic Shell Course?

Are you the Faculty Contact Person?	
	Yes
Course Prefix	PE - Physical Education
Course Number	280
Department	Health/Physical Education/Athletics
Division	Academic Foundations and Connections (AFAC)
Course Title	Physical Education/CWE

Grading

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

Only Pass/No Pass	No
Audit	Yes
Min Credit	2.00
Variable Credit	Yes
Max Credit	6.00
Variable Credit Increment	1

Contact hours

Lecture	
Lec/Lab	
Lab	
Activity	
Clinical	
Field	216.00
CWE Seminar	
CPR	
Seminar	
Community Education/Drivers Ed	
Community Education/Adult	
Total	216
Proposed Effective Term	Winter 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

Cooperative work experience. Provides students with on-the-job experience and training related to the Physical Education field. Covers job problems and procedures, evaluation of students' job performance by qualified college staff and site supervision. May be repeated for up to 12 credits. Required: Student Petition.

Type of Course (ACTI Code)

100 - Lower Division Collegiate

Select at least one of the following:

Elective Only

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?   12

Course Requisites

Required

Prerequisites

Corequisites
  CWE-281

Prerequisites or Corequisites

Recommended

Prerequisites

Corequisites

Prerequisites or Corequisites

Non-Course Requisites

Required

Recommended

Is Student Petition required?

Yes

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?

Yes

Have you talked with a librarian regarding that impact?

No

Course Certifications

Is this a Related Instruction course?

Yes

Related Instruction
Area

Physical Education/Health/Safety/First Aid

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

No

General Education Outcome(s)

Equivalent Courses

Equivalent Active Courses

HE-280 - Health/CWE

Equivalent Inactive Courses

Student Learning Outcomes

Student Learning Outcomes

	Upon successful completion of this course, students should be able to:
1	apply academic knowledge, skills, and abilities to a work environment specific to their program of study;
2	demonstrate appropriate work habits (time management, interpersonal relationships, attendance, professional appearance, and problem solving) for their work environment;
3	apply career management strategies such as interviewing, resume writing, networking, and portfolio development.

Major Topic Outline

1. Find a place to complete the CWE 2. Hands on experience in a particular career field 3. Shadow and work closely with a supervisor 4. Gain valuable insight to the preferred career field

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

Course Transferability

OUS school to which the course will transfer

PSU - Portland State University

Comparable
course(s)

How does it transfer?

general elective

Evidence of transferability

Other. Please explain.

Explanation of other evidence of transferability

I checked in with our CWE coordinator at the college, Christina Shepherd, and she stated that
all Oregon state colleges and universities accept PE-280 as an elective.

OUS school to which the course will transfer

EOU - Eastern Oregon University

Comparable
course(s)

How does it transfer?

general elective

Evidence of transferability

Other. Please explain.

Explanation of other evidence of transferability

Same as explanation for PSU

OUS school to which the course will transfer

OSU - Oregon State University

Comparable
course(s)

How does it transfer?

general elective

Evidence of transferability

Other. Please explain.

Explanation of other evidence of transferability

Same as above

OUS school to which the course will transfer

SOU - Southern Oregon University

Comparable
course(s)

How does it transfer?

general elective

Evidence of transferability

Other. Please explain.

Explanation of other evidence of transferability

[Same as above](#)

OUS school to which the course will transfer

[UO - University of Oregon](#)

Comparable
course(s)

How does it transfer?

[general elective](#)

Evidence of transferability

[Other.](#) [Please explain.](#)

Explanation of other evidence of transferability

[Same as above](#)

OUS school to which the course will transfer

[WOU - Western Oregon University](#)

Comparable
course(s)

How does it transfer?

[general elective](#)

Evidence of transferability

[Other.](#) [Please explain.](#)

Explanation of other evidence of transferability

[Same as above](#)

Program Amendments

Program	Implementation
AS, Computer Science, PSU	2025/SU
AS Degree, Transfer Computer Science	2025/SU

Program Change Request

Date Submitted: 09/24/24 11:09 am

Viewing: **AS.PSUCOMPSCI : AS, Computer Science, PSU**

Last approved: 06/05/24 8:31 am

Last edit: 10/22/24 9:12 am

Changes proposed by: Jennifer Miller (jen.miller)

Catalog Pages Using
this Program

[Computer Science Emphasis, AS - with Portland State University](#)

Change Type

College Council Review

No

Program Contact Information

Are you the Faculty Contact Person?

Yes

Approval Path

1. 09/24/24 11:13 am
   Megan Feagles
   (megan.feagles):
   Approved for
   Curriculum Office
2. 09/30/24 1:24 pm
   Beverly Forney
   (beverlyf):
   Approved for BTBA
   Chair
3. 09/30/24 1:53 pm
   Sue Goff (sue.goff):
   Approved for DASC
   Dean
4. 10/07/24 9:10 am
   Megan Feagles
   (megan.feagles):
   Approved for
   Curriculum Office

History

1. Oct 6, 2022 by
   clmig-kxayasene
2. Oct 24, 2022 by
   Megan Feagles
   (megan.feagles)

3. Jan 18, 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. Aug 22, 2023 by Dru Urbassik (dru.urbassik)
7. Oct 30, 2023 by Megan Feagles (megan.feagles)
8. Feb 22, 2024 by Megan Feagles (megan.feagles)
9. Mar 11, 2024 by Megan Feagles (megan.feagles)
10. Mar 22, 2024 by Megan Feagles (megan.feagles)
11. Jun 5, 2024 by Megan Feagles (megan.feagles)

Program Overview

Name of Proposed Program

AS, Computer Science, PSU

Program Code   AS.PSUCOMPSCI

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

Type of Program   Associate of Science (AS)
(CCC)

Educational Focus Area	Science, Technology, Engineering and Math (STEM)
Effective Catalog Edition	2025-2026
Career Area	Industrial and Engineering Systems
Department	Business
Division	Arts and Sciences

Other locations (institutions) this Program will be offered

CIP Code	11.0701 - Computer Science.

Program Award Information

Program Learning Outcomes (PLOs)

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

	Outcome(s)
1	explain the software development lifecycle and the specific tools and processes used to create software;
2	describe the components, purposes, and benefits of both structured and object-oriented programming paradigms and demonstrate the development of software using them in a high-level language;
3	explain and demonstrate various ways information is stored and manipulated, at both a low and high level, in computer systems and software;
4	employ mathematics and computing techniques in a system and rigorous manner to solve technical problems;
5	exhibit good teamwork skills and serve as effective members of project teams.

Proposed Curriculum

Plan of Study Grid

First Year

Fall Term		Credits
CS-160	Computer Science Orientation	4.00
CS-161	Computer Science I	4.00

MTH-251	Calculus I	5.00
	Credits	13

Winter Term

CS-162	Computer Science II	4.00
MTH-252	Calculus II	5.00
Science Electives		4.00
	Credits	13

Spring Term

~~CS-140L~~	~~Linux for Programmers~~	~~4.00~~
CS-260	Data Structures	4.00
MTH-253	Calculus III	5.00
Race, Ethnicity, and Systemic Oppression Electives		4.00
Select one of the following:		3.00-4.00
	Arts & Letters Electives	
	Social Science Electives	
	Credits	16-17

Summer Term

~~COMM-111Z~~	~~Public Speaking~~	~~4.00~~
MTH-261	Linear Algebra	4.00
WR-121Z	Composition I	4.00
~~Select one of the following:~~		~~4.00~~
	~~Arts & Letters Electives~~	
	~~Social Science Electives~~	
	Credits	8

Second Year

Fall Term

~~Select one of the following:~~		~~5.00~~
~~BI-211~~	~~General Biology for Science Majors (Cellular Biology)~~	
~~CH-221~~	~~General Chemistry~~	
~~PH-211~~	~~General Physics With Calculus~~	
~~CS-205~~	~~System Programming and Architecture~~	~~4.00~~
CS-140L	Linux for Programmers	4.00
WR-227Z	Technical Writing	4.00
Laboratory Science Electives		4.00-5.00
Select one of the following:		4.00
	Arts & Letters Electives	
	Social Science Electives	
	Credits	16-17

Winter Term

~~Select one of the following:~~		~~5.00~~
~~BI-212~~	~~General Biology for Science Majors (Animal Biology)~~	

~~CH-222   General Chemistry~~
~~PH-212   General Physics With Calculus~~

COMM-111Z	Public Speaking	4.00
CS-205	System Programming and Architecture	4.00
CS-250	Discrete Structures I	4.00
~~WR-227Z~~	~~Technical Writing~~	~~4.00~~
Laboratory Science Electives		4.00-5.00
	Credits	16-17

Spring Term

CS-251	Discrete Structures II	4.00
Computer Science Electives		3.00-4.00
Laboratory Science Electives		5.00
~~BI-213~~	~~General Biology for Science Majors (Plant Biology & Ecology)~~	
~~CH-223~~	~~General Chemistry~~	
~~PH-213~~	~~General Physics With Calculus~~	
	Credits	12-13
	Total Credits	94-98

~~Arts & Letters Electives Non-performance-based courses in the prefixes of: ART , J , MUS , TA~~Arts & Letters Electives

Any 100 level or above course in ~~in the prefixes of:~~ ASL, COMM, ENG, ~~, ENG,~~FR, ~~,~~GER, ~~,~~HUM, ~~,~~PHL, ~~,~~SPN, ~~,~~WR. Note that native ~~Native~~ speakers should only take advanced (300 level ~~(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
MUS-230	Music and Media: Sex, Drugs, Rock & Roll	4.00
TA-101	Appreciation of Theatre	4.00
TA-102	Appreciation of Theatre	4.00

Social Science Electives

Any 100 level ~~100-level~~ or above course in ~~in the prefixes of:~~ ANT, ~~,~~EC, ~~,~~GEO, ~~,~~HST, ~~,~~PS, ~~,~~PSY, ~~,~~SOC, ~~,~~SSC, and WS.

Race, Ethnicity, and Systemic Oppression Electives

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-241 Introduction to Native American Studies 4.00

Computer Science Electives

Any CS course not already included in the program

Science Electives

Any General Education science course listed under prefixes: BI, CH, ESR, G, and PH in the AAOT

Laboratory Science Electives

BI-211 General Biology for Science Majors (Cellular Biology)   5.00
BI-212 General Biology for Science Majors (Animal Biology)   5.00
BI-213 General Biology for Science Majors (Plant Biology & Ecology) 5.00
CH-221 General Chemistry   5.00
CH-222 General Chemistry   5.00
CH-223 General Chemistry   5.00
G-201   General Geology   4.00
G-202   General Geology   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

Reviewer

Comments

Program Change Request

Date Submitted: 10/02/24 9:35 am

Viewing: **AS.TCOMPSCIESWO,**

AS.TCOMPSCIOSPSUO : Computer Science (AST)

Last approved: 06/10/24 1:43 pm

Last edit: 10/02/24 9:35 am

Changes proposed by: Jennifer Miller (jen.miller)

Catalog Pages Using
this Program
[Computer Science (AST)](#)

Change Type

College Council Review

No

Program Contact Information

Are you the Faculty Contact Person?

Yes

Approval Path

1. 10/02/24 9:36 am
   Megan Feagles
   (megan.feagles):
   Approved for
   Curriculum Office
2. 10/02/24 9:40 am
   Beverly Forney
   (beverlyf):
   Approved for CPSI
   Chair
3. 10/02/24 10:53 am
   Sue Goff (sue.goff):
   Approved for DASC
   Dean

History

1. Feb 16, 2023 by
   Megan Feagles
   (megan.feagles)
2. Feb 16, 2023 by
   Megan Feagles
   (megan.feagles)
3. Feb 16, 2023 by
   Megan Feagles
   (megan.feagles)

Program Overview

Name of Proposed Program

Computer Science (AST)

Program Code   AS.TCOMPSCIESWO,
                      AS.TCOMPSCIOSPSUO

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

Type of Program   Associate of Science (AS)
(CCC)

Educational Focus   Science, Technology, Engineering and Math
Area   (STEM)

Effective Catalog   2025-2026
Edition

Career Area   Industrial and Engineering Systems

Department   Computer Science

Division   Arts and Sciences

Other locations (institutions) this Program will be offered

CIP Code   11.0701 - Computer Science.

Program Award Information

Program Learning Outcomes (PLOs)

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

	Outcome(s)
1	develop software using both structured and object-oriented paradigms that meets the requirements of a written specification;
2	explain the software development lifecycle and the specific tools and processes used to create software;
3	design, analyze, and implement algorithms to solve computational problems using various data structures as problem-solving tools. These data structures must include arrays, stacks, queues, linked lists, trees, and hash tables.

Proposed Curriculum

Complete 90 credits from the following:

FOUNDATIONAL SKILLS

Writing

2 courses

Information literacy will be included in the Writing requirement

EOU, SOU, or WOU

WR-121Z Composition I   4.00

WR-122Z Composition II   4.00

OSU, PSU, or UO

WR-121Z Composition I   4.00

WR-227Z Technical Writing 4.00

Communications

1 course

COMM-111Z Public Speaking 4.00

Mathematics

2-4 courses

EOU, SOU, or WOU

MTH-251	Calculus I	5.00
MTH-252	Calculus II	5.00

OSU, PSU, or UO

MTH-251	Calculus I	5.00
MTH-252	Calculus II	5.00
CS-250	Discrete Structures I	4.00
CS-251	Discrete Structures II	4.00

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-130	Leadership in Literature	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-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-247	Playwriting II	4.00
WR-248	Bookmaking: Design and Layout	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	Physical 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-201	Principles of Economics: Micro	4.00
EC-202	Principles of Economics: Macro	4.00
ES-101	Introduction to Ethnic 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-130	Oddballs and Outcasts in 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-138	History of Love, Marriage and the Family 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-204	Introduction to Sociology	4.00
SOC-205	Social Stratification & Social Systems	4.00
SOC-206	Institutions & Social Change	4.00
SOC-210	Marriage, Family, & Intimate Relations	4.00
SOC-225	Social Problems	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

Natural Science Course List

EOU, SOU, or WOU

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-211	General Biology for Science Majors (Cellular Biology)	5.00
BI-212	General Biology for Science Majors (Animal Biology)	5.00
BI-213	General Biology for Science Majors (Plant Biology & Ecology)	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

OSU, PSU, or UO

BI-211	General Biology for Science Majors (Cellular Biology)	5.00
BI-212	General Biology for Science Majors (Animal Biology)	5.00

OR

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

OR

BI-211	General Biology for Science Majors (Cellular Biology)	5.00
CH-221	General Chemistry	5.00

OR

G-201	General Geology	4.00
G-202	General Geology	4.00

OR

PH-201	General Physics	5.00
PH-202	General Physics	5.00

OR

PH-211	General Physics With Calculus	5.00
PH-212	General Physics With Calculus	5.00

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
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-130	Oddballs and Outcasts in 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-138	History of Love, Marriage and the Family 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-204	Introduction to Sociology	4.00	
SOC-205	Social Stratification & Social Systems	4.00	
SOC-206	Institutions & Social Change	4.00	
SOC-210	Marriage, Family, & Intimate Relations	4.00	
SOC-225	Social Problems	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

Computer Science Specific Requirements

4-5 courses

Computer Science Specific Course List

EOU, SOU, or WOU

CS-160	Computer Science Orientation	4.00
CS-161	Computer Science I	4.00
CS-162	Computer Science II	4.00

CS-260 Data Structures   4.00

OSU, PSU, or UO

CS-160 Computer Science Orientation   4.00

CS-161 Computer Science I   4.00

CS-162 Computer Science II   4.00

CS-205 System Programming and Architecture 4.00

CS-260 Data Structures   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 and up to 3 credits of Physical Education activity courses (PE-185 Physical Education, PE-194 Professional Activities, PE-294 Professional Activities)

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

Program Amendments

Program	Implementation
AS, Industrial/Manufacturing Engineering, OSU	2025/SU
AS, Mechanical Engineering, OIT	2025/SU

Program Change Request

Date Submitted: 10/04/24 5:41 pm

Viewing: **AS.OSUINDENG** ~~AS.OSUINDMFGENG~~ : AS, **Industrial** ~~Industrial/Manufacturing~~ Engineering, OSU

Last approved: 04/05/24 8:35 am

Last edit: 10/07/24 8:55 am

Changes proposed by: Eric Lee (elee)

Change Type

College Council Review

No

Program Contact Information

Are you the Faculty Contact Person?

Yes

Approval Path

1. 10/07/24 8:55 am
   Megan Feagles
   (megan.feagles):
   Approved for
   Curriculum Office
2. 10/07/24 10:14 am
   Matt LaForce
   (laforce): Approved
   for ENGR Chair
3. 10/07/24 11:00 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)

Program Overview

Name of Proposed Program

AS, Industrial ~~Industrial/Manufacturing~~ Engineering, OSU

Program Code   AS.OSUINDENG
                          ~~AS.OSUINDMFGENG~~

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

Type of Program   Associate of Science (AS)
(CCC)

Educational Focus   Science, Technology, Engineering and Math
Area   (STEM)

Effective Catalog   2025-2026
Edition

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
COMM-111Z	Public Speaking	4.00
ENGR-111	Introduction to Engineering	3.00
MTH-251	Calculus I	5.00
WR-121Z	Composition I	4.00
	Credits	16
Winter Term		
CH-221	General Chemistry	5.00
ENGR-112	Engineering Programming	3.00
MTH-252	Calculus II	5.00
	Credits	13

Spring Term

CH-222	General Chemistry	5.00
ENGR-115	Engineering Graphics	3.00
MTH-254	Vector Calculus	5.00
WR-227Z	Technical Writing	4.00
	Credits	17

Summer Term

MTH-256	Differential Equations	4.00
Social Processes Electives		4.00
	Credits	8

Second Year

Fall Term

ENGR-211	Statics	4.00
PH-211	General Physics With Calculus	5.00
Western Culture Electives		4.00
	Credits	13

Winter Term

CS-161	Computer Science I	4.00
ENGR-212	Dynamics	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-201	Electrical Fundamentals	4.00
ENGR-213	Strength of Materials	4.00
HPE-295	Health & Fitness for Life	3.00
PH-213	General Physics With Calculus	5.00
	Credits	16
	Total Credits	99-100

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

Social Processes Electives

ANT-103	Cultural Anthropology	4.00
EC-201	Principles of Economics: Micro	4.00
EC-202	Principles of Economics: Macro	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
PS-201	American Government and Politics	4.00
PS-204	Introduction to Comparative Politics	4.00
PS-205	International Relations	4.00
PS-225	Introduction to Political Ideologies	4.00
PSY-201Z	Introduction to Psychology I	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-204	Introduction to Sociology	4.00
SOC-205	Social Stratification & Social Systems	4.00
SOC-206	Institutions & Social Change	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-211	General Biology for Science Majors (Cellular Biology)	5.00
BI-212	General Biology for Science Majors (Animal Biology)	5.00
BI-213	General Biology for Science Majors (Plant Biology & Ecology)	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-225	Social Problems	4.00

Reviewer
Comments

Program Change Request

Date Submitted: 09/26/24 3:50 pm

Viewing: **AS.OITMECHENGR : AS, Mechanical Engineering, OIT**

Last approved: 03/22/24 8:52 am

Last edit: 10/18/24 8:38 am

Changes proposed by: Eric Lee (elee)

Catalog Pages Using
this Program

Mechanical Engineering Emphasis, AS - with Oregon Institute of Technology (Oregon

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Change Type

College Council Review

> No

Program Contact Information

Are you the Faculty Contact Person?

> Yes

Approval Path

1. 09/30/24 10:57 am
   Megan Feagles
   (megan.feagles):
   Approved for
   Curriculum Office
2. 10/07/24 10:14 am
   Matt LaForce
   (laforce): Approved
   for ENGR Chair
3. 10/07/24 11:00 am
   Sue Goff (sue.goff):
   Approved for DASC
   Dean
4. 10/07/24 11:23 am
   Megan Feagles
   (megan.feagles):
   Approved for
   Curriculum Office

History

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

3. Jun 5, 2023 by Megan Feagles (megan.feagles)
4. Feb 16, 2024 by Eric Lee (elee)
5. Mar 22, 2024 by Megan Feagles (megan.feagles)

Program Overview

Name of Proposed Program

AS, Mechanical Engineering, OIT

Program Code   AS.OITMECHENGR

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

Type of Program   Associate of Science (AS)
(CCC)

Educational Focus   Science, Technology, Engineering and Math
Area   (STEM)

Effective Catalog   2025-2026
Edition

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-251	Calculus I	5.00
WR-121Z	Composition I	4.00
	Credits	17

Winter Term		
CH-222	General Chemistry	5.00
ENGR-231	Properties of Materials	4.00
MTH-252	Calculus II	5.00
	Credits	14

Spring Term		
COMM-111Z	Public Speaking	4.00
ENGR-112	Engineering Programming	3.00
MTH-254	Vector Calculus	5.00
WR-227Z	Technical Writing	4.00
	Credits	16

Summer Term		
MTH-256	Differential Equations	4.00
MTH-261	Linear Algebra	4.00
	Credits	8

Second Year

Fall Term

ENGR-211	Statics	4.00
PH-211	General Physics With Calculus	5.00
Social Science Electives		3.00-4.00
	Credits	12-13

Winter Term

CDT-103	Computer-Aided Drafting I	3.00
ENGR-212	Dynamics	4.00
PH-212	General Physics With Calculus	5.00
Humanities Elective		3.00-4.00
	Credits	15-16

Spring Term

EC-201	Principles of Economics: Micro	4.00
or EC-202	or Principles of Economics: Macro	
ENGR-201	Electrical Fundamentals	4.00
ENGR-213	Strength of Materials	4.00
PH-213	General Physics With Calculus	5.00
	Credits	17
	Total Credits	99-101

Social Science Electives

Choose courses from the following subjects: ANT, EC, GEO, HST, PS, PSY, SOC, SSC, WS

Humanities Electives

Choose courses from the following subjects: ART, ASL (200-level), ENG, FR (200-level), GER (200-level), HUM, MUS, PHL, R, SPN (200-level), TA

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 Institute of Technology and is listed below.

COMM-219	Small Group Discussion	4.00
MFG-106	Advanced Applied Geometric Dimensioning and Tolerancing for Manufacturing	1.00
MTT-112	Manual Machining II	4.00
Additional Social Science Elective		3.00-4.00

COMM-219 Small Group Discussion WLD-150 Welding Processes Additional Social Science Elective

Reviewer
Comments

Program	Implementation
Fitness Specialist CC	2025/SU

Program Change Request

Date Submitted: 10/10/24 11:40 am

Viewing: **CC.FITNESSSPEC : Fitness Specialist**

Last approved: 06/05/24 7:32 am

Last edit: 10/10/24 11:40 am

Changes proposed by: Tracy Nelson (tracyn)

Catalog Pages Using
this Program
   Fitness Specialist, Certificate

Change Type

College Council Review

>   No

Program Contact Information

Are you the Faculty Contact Person?

>   Yes

Approval Path

1. 10/09/24 7:17 am Megan Feagles (megan.feagles): Rollback to Initiator
2. 10/10/24 11:44 am Megan Feagles (megan.feagles): Approved for Curriculum Office
3. 10/10/24 12:05 pm James Martineau (jmartineau): Approved for HLPE Chair
4. 10/10/24 12:39 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)

Program Overview

Name of Proposed Program

Fitness Specialist

Program Code   CC.FITNESSSPEC

Award (CCWD)
Certificate (45-60 credits) (CC1)

Type of Program   Certificate of Completion (CC)
(CCC)

Educational Focus   Health Professions
Area

	Effective Catalog Edition	2025-2026

Effective Catalog Edition   2025-2026

Career Area   Health Services

Department   Health/Physical Education/Athletics

Division   Academic Foundations and Connections (AFAC)

Other locations (institutions) this Program will be offered

CIP Code   31.0501 - Sports, Kinesiology, and Physical Education/Fitness, General.

Program Award Information

Program Learning Outcomes (PLOs)

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

	Outcome(s)
1	apply advanced interpersonal skills in the areas of leadership, motivation and communication;
2	assess and apply advanced exercise principles related to injury prevention, conditioning, resistance training, and functional training;
3	analyze nationally recognized standards for fitness and health and be able to communicate the benefits and precautions associated with exercise;
4	formulate behavior modification strategies to enhance exercise and health behavior change with clients;
5	demonstrate advanced leadership abilities, interpersonal communication skills, organizational and presentation skills and other necessary professional qualities demanded of health and fitness professionals in the workforce.

Proposed Curriculum

Plan of Study Grid

Fall Term		Credits
COMM-218Z	Interpersonal Communication	4.00
FYE-101	First Year Experience Level I	2.00-3.00

or HD-121	or College Success		
PE-240	Strength & Conditioning Theory & Techniques	3.00	
WR-101	Workplace Writing	4.00	
or WR-121Z	or Composition I		
Electives		3.00	
	Credits	16-17	

Winter Term

COMM-227	Nonverbal Communication	4.00	
HE-252	First Aid/CPR/AED	3.00	
HPE-295	Health & Fitness for Life	3.00	
Electives		4.00	
	Credits	14	

Spring Term

HE-201	Personal Training	3.00	
HE-223	Sports Nutrition	3.00	
Select one of the following:		4.00-5.00	
MTH-050	Technical Mathematics I		
MTH-065	Algebra II		
Higher Level Math or Statistics			
PE-280	Physical Education/CWE	3.00	
Electives		4.00	
	Credits	17-18	
	Total Credits	47-49	

Electives

BA-101Z	Introduction to Business	4.00	
BA-123	Leadership & Motivation	3.00	
ECE-235	Safety, Health and Nutrition	3.00	
GRN-182	Aging and the Body	3.00	
HE-163	Body & Drugs I: Introduction to Abuse & Addiction	3.00	
HE-164	Body & Drugs II: Alcohol	3.00	
HE-204	Nutrition & Weight Control	3.00	
HE-207	Introduction to Plant Based Living	3.00	
HE-249	Mental Health	3.00	
HE-250	Personal Health	3.00	
HE-263	Body & Drugs III: Marijuana	3.00	
HE-264	Body & Drugs IV: Other Drugs, Other Addictions	3.00	
PE-185	Physical Education	1.00	
PE-260	Care and Prevention of Athletic Injuries	2.00	
PE-270	Sport and Exercise Psychology	3.00	
PE-294A	Philosophy of Coaching	2.00	

PSY-101 Human Relations   3.00

Reviewer
Comments

PSY-101 Human Relations   3.00

Reviewer
Comments