ASSOCIATE OF SCIENCE IN ENGINEERING (ASEN)

The ASEN degree helps prepare students to transfer to an engineering program at one of Oregon's public universities. The ASEN is tailored for civil and mechanical engineering majors. Students should work with their adviser, and their preferred transfer college, to pick the right classes.

For adviser information and an example plan of study, see the

Engineering transfer major page (https://catalog.mhcc.edu/programs-majors/engineering-transfer-degree/). See the MyMHCC portal for printable degree worksheets (https://my.mhcc.edu/ICS/Student_Services/Printable_Degree_Worksheets.inz).

Degree Requirements

Code	Title	Credits
Engineering Core,	10 courses (p. 1)	42
Mathematics, 5 co	ourses (p. 1)	24
Written Communic	cation, 2 courses (p. 1)	7-8
Oral Communicati	on, 1 course (p. 1)	4
Health & Physical	Education (p. 1)	3
Science, 2 courses	s (p. 2)	10
Arts & Letters, 2 co	ourses (p. 2)	6
Social Science, 2	courses (p. 3)	6
Total Credits		102-103

Engineering Core

10 courses:

Code	Title	Credits
GE101	Engineering Orientation	4
GE115	Engineering Graphics	3
or ENGR248	Engineering Graphics: Solidworks	
GE102	Engineering Computations	3
ENGR211	Statics	4
ENGR212	Dynamics	4
ENGR213	Strength of Materials	4
ENGR201	Electrical Fundamentals I ¹	5
or ET150	Plane Surveying	
PH211	General Physics with Calculus I	5
PH212	General Physics with Calculus II	5
PH213	General Physics with Calculus III	5
Total Credits		42

ENGR201 Electrical Fundamentals I is offered in winter term. ET150 Plane Surveying is offered in fall term.

Mathematics

Five courses:

Code	Title	Credits
MTH251	Calculus I: Differential Calculus	5
MTH252	Calculus II: Integral Calculus	5
MTH254	Calculus IV: Multivariable/ Vector Calculus Part	:1 5

Total Credits		24
MTH261	Linear Algebra	4
MTH256	Differential Equations	5

Writing

Two courses (minimum of 7 credits):

Code	Title	Credits
WR121Z	Composition I ★	4
WR227Z	Technical Writing ★	4

Oral Communication

One (1) course:

Code	Title	Credits
COMM100Z	Basic Speech Communication 🖈	4
COMM111Z	Public Speaking 🖈	4
COMM114	Argument and Critical Discourse	3
COMM115	Introduction to Intercultural Communication	4
COMM218Z	Interpersonal Communication 🛨	4
COMM219	Small Group Communication	3

Health and Physical Education (HPE)

Three (3) credits:

Code	Title	Credits
HE151	Drug Education: Stimulants and Performance Enhancing Drugs	3
HE152	Drug Education: Opioids, Cannabis, Depressant and Hallucinogens	s 3
HE202	Adult Development and Aging	1
HE204	Nutrition for Health	3
HE205	Diet Appraisal ★	1
HE207	Stress Control Through Activity Intervention	1
HE208	HIV and Other Sexually Transmitted Infections	1
HE225	Nutrition ★ (or FN225, if taken summer 2021 or later)	r 4
HE250	Personal Health and Wellness 🛊	3
HE251	Wilderness First Aid	2
HE252	First Aid: Responding to Emergencies	3
HE255	Alcohol and the Family	3
HE261	CPR - Cardiopulmonary Resuscitation	1
HE262	Basic Life Support ★	1
HE265	Women's Health ★	3
HE289	Wilderness First Responder	4
PE185 - activity c	ourse	1
HPE110	Teambuilding and Group Facilitation	3
HPE120	Introduction to Navigation	1
HPE170	Structure and Function of the Human Body	3
HPE172	Exercise Science	3
HPE174	Fitness Assessment and Programming	3
HPE260	Prevention and Care of Exercise-Related Injurie	s 3
HPE270	Introduction to Sport Psychology	3
HPE2850L	Wilderness Survival	3

HPE291	Lifeguard Training	2
HPE295	Health and Fitness for Life ★ (requirement at OSU and WOU)	3

Three credit hours of PE185 may be granted toward an Associate degree at MHCC for completion of military basic training. A copy of the DD214 form or a Joint Services Transcript is required.

Science

Two (2) courses (minimum of nine credits):

Code	Title	Credits
CH221	General Chemistry I	5
CH222	General Chemistry II	5

Arts and Letters

Two (2) courses:

Code	Title	Credits
Art/Art History		
ART115	Basic Design I: Two-Dimensional	4
ART116	Basic Design II: Color Theory	4
ART117	Basic Design III: Three- Dimensional	4
ART204	History of Western Art: Prehistoric - Byzantine	★ 4
ART205	History of Western Art: Medieval - Renaissance	★ 4
ART206	History of Western Art: Baroque - Modern 🚖	4
ART211	Survey of Visual Arts ★ 🏵	4
ART215P	Survey in Visual Arts: Photography	3
ART225	Digital Art Toolbox	4
ART226	Digital Drawing and Imaging	4
ART227	Introduction to Animation	4
ART231	Drawing I	4
ART232	Drawing II	4
ART233	Drawing III	4
ART234	Figure Drawing I	4
ART235	Figure Drawing II (if taken summer 2019 or late	r) 4
ART236	Figure Drawing III (if taken summer 2019 or late	er) 4
ART240	Illustration and Cartooning	4
ART244	Visual Storytelling	4
ART254	Ceramics I	4
ART255	Ceramics II	4
ART256	Ceramics III	4
ART257	Jewelrymaking/Metalsmithing I	4
ART258	Jewelrymaking/Metalsmithing II	4
ART259	Jewelrymaking/Metalsmithing III	4
ART260	Introduction to Digital Photography	4
ART261	Black and White Film Photography	3
ART262	Intermediate Black and White Film Photograph	у 3
ART271	Printmaking I: Screenprint and Woodcut	4
ART272	Printmaking II: Silkscreen, Woodcut, and Intagli	io 4
ART273	Printmaking III	4
ART281	Painting I	4
ART282	Painting II (if taken summer 2019 or later)	4
ART283	Painting III (if taken summer 2019 or later)	4

Sculpture I	4
Sculpture II	4
Sculpture III	4
Watercolor I	4
Watercolor II	4
Watercolor III (if taken summer 2019 or later)	4
Speech (cannot be same course used to fulfill Oral equirement)	
Basic Speech Communication ★	4
Public Speaking 🛊	4
Argument and Critical Discourse	3
Introduction to Intercultural Communication 🖈 😵	4
Interpersonal Communication 🖈	4
Small Group Communication	3
Creative Writing: Nonfiction	3
Creative Writing: Fiction I ★	4
Creative Writing: Poetry I ★	4
Creative Writing: Poetry II	4
Creative Writing: Fiction II	4
re	
Introduction to Literature: Fiction ★	4
Introduction to Literature: Drama 🖈	4
Introduction to Literature: Poetry	4
· ·	4
British Literature I: Old English to Renaissance ★	4
British Literature II: Age of Enlightenment to Present ★ ③	4
Latin American Literature 🖈	4
Latin American Literature ★ Arthurian Legends	4
Arthurian Legends	4
Arthurian Legends Women's Literature Introduction to Mythology	4
Arthurian Legends Women's Literature Introduction to Mythology Survey of American Literature I	4 3 4
Arthurian Legends Women's Literature Introduction to Mythology	4 3 4 4
Arthurian Legends Women's Literature Introduction to Mythology Survey of American Literature I Survey of American Literature II Introduction to African American Literature	4 3 4 4
Arthurian Legends Women's Literature Introduction to Mythology Survey of American Literature I Survey of American Literature II Introduction to African American Literature Literature of Science Fiction	4 3 4 4 4 4
Arthurian Legends Women's Literature Introduction to Mythology Survey of American Literature I Survey of American Literature II Introduction to African American Literature Literature of Science Fiction World Literature: The Classical World (Ancient	4 3 4 4 4
Arthurian Legends Women's Literature Introduction to Mythology Survey of American Literature I Survey of American Literature II Introduction to African American Literature Literature of Science Fiction	4 3 4 4 4 4
Arthurian Legends Women's Literature Introduction to Mythology Survey of American Literature I Survey of American Literature II Introduction to African American Literature Literature of Science Fiction World Literature: The Classical World (Ancient Literature to 1000 C.E.)	4 3 4 4 4 4 4
Arthurian Legends Women's Literature Introduction to Mythology Survey of American Literature I Survey of American Literature II Introduction to African American Literature Literature of Science Fiction World Literature: The Classical World (Ancient Literature to 1000 C.E.) World Literature: 1000 to 1800 C.E. World Literature: 1800 C.E. to the Present	4 3 4 4 4 4 4
Arthurian Legends Women's Literature Introduction to Mythology Survey of American Literature I Survey of American Literature II Introduction to African American Literature Literature of Science Fiction World Literature: The Classical World (Ancient Literature to 1000 C.E.) World Literature: 1000 to 1800 C.E. World Literature: 1800 C.E. to the Present Coplace	4 3 4 4 4 4 4 4
Arthurian Legends Women's Literature Introduction to Mythology Survey of American Literature I Survey of American Literature II Introduction to African American Literature Literature of Science Fiction World Literature: The Classical World (Ancient Literature to 1000 C.E.) World Literature: 1000 to 1800 C.E. World Literature: 1800 C.E. to the Present	4 3 4 4 4 4 4
Arthurian Legends Women's Literature Introduction to Mythology Survey of American Literature I Survey of American Literature II Introduction to African American Literature Literature of Science Fiction World Literature: The Classical World (Ancient Literature to 1000 C.E.) World Literature: 1000 to 1800 C.E. World Literature: 1800 C.E. to the Present Coplace Ethics in the Workplace	4 3 4 4 4 4 4 4
Arthurian Legends Women's Literature Introduction to Mythology Survey of American Literature I Survey of American Literature II Introduction to African American Literature Literature of Science Fiction World Literature: The Classical World (Ancient Literature to 1000 C.E.) World Literature: 1000 to 1800 C.E. World Literature: 1800 C.E. to the Present cplace Ethics in the Workplace Films and Society	4 3 4 4 4 4 4 4 3
Arthurian Legends Women's Literature Introduction to Mythology Survey of American Literature I Survey of American Literature II Introduction to African American Literature Literature of Science Fiction World Literature: The Classical World (Ancient Literature to 1000 C.E.) World Literature: 1000 to 1800 C.E. World Literature: 1800 C.E. to the Present cplace Ethics in the Workplace Films and Society Understanding the Film	4 3 4 4 4 4 4 4 4 4 4
Arthurian Legends Women's Literature Introduction to Mythology Survey of American Literature I Survey of American Literature II Introduction to African American Literature Literature of Science Fiction World Literature: The Classical World (Ancient Literature to 1000 C.E.) World Literature: 1000 to 1800 C.E. World Literature: 1800 C.E. to the Present Coplace Ethics in the Workplace Films and Society Understanding the Film Film Film Directors	4 3 4 4 4 4 4 4 4 4 4 4
Arthurian Legends Women's Literature Introduction to Mythology Survey of American Literature I Survey of American Literature II Introduction to African American Literature Literature of Science Fiction World Literature: The Classical World (Ancient Literature to 1000 C.E.) World Literature: 1000 to 1800 C.E. World Literature: 1800 C.E. to the Present Coplace Ethics in the Workplace Films and Society Understanding the Film Film Directors Film Genres Film Genres	4 3 4 4 4 4 4 4 4 4 4
Arthurian Legends Women's Literature Introduction to Mythology Survey of American Literature I Survey of American Literature II Introduction to African American Literature Literature of Science Fiction World Literature: The Classical World (Ancient Literature to 1000 C.E.) World Literature: 1000 to 1800 C.E. World Literature: 1800 C.E. to the Present Koplace Ethics in the Workplace Films and Society Film Directors Film Directors Film Genres Es (second-year)	4 3 4 4 4 4 4 4 4 4 4 4 4 4 4
Arthurian Legends Women's Literature Introduction to Mythology Survey of American Literature I Survey of American Literature II Introduction to African American Literature Literature of Science Fiction World Literature: The Classical World (Ancient Literature to 1000 C.E.) World Literature: 1000 to 1800 C.E. World Literature: 1800 C.E. to the Present Coplace Ethics in the Workplace Films and Society Understanding the Film Film Directors Film Genres Film Genres	4 3 4 4 4 4 4 4 4 4 4 4
	Watercolor II Watercolor III (if taken summer 2019 or later) Speech (cannot be same course used to fulfill Oral equirement) Basic Speech Communication ★ Public Speaking ★ Argument and Critical Discourse Introduction to Intercultural Communication ★ Small Group Communication Creative Writing: Nonfiction Creative Writing: Fiction I ★ Creative Writing: Poetry I ★ Creative Writing: Fiction II re Introduction to Literature: Fiction ★ Introduction to Literature: Poetry Shakespeare British Literature I: Old English to Renaissance ★ © British Literature II: Age of Enlightenment to

ASL203	Second-year American Sign Language III 🚱	4
JPN201	Second-year Japanese I 🔮	5
JPN202	Second-year Japanese II 🚱	5
JPN203	Second-year Japanese III 🔾	5
SPAN201	Second-year Spanish I 🚱	4
SPAN202	Second-year Spanish II 🔾	4
SPAN203	Second-year Spanish III 🚱	4
Music		
MUS101	Music Fundamentals	3
MUS103	Jazz History	3
MUS105	History of Rock	3
MUS111	Music Theory I	3
MUS112	Music Theory II	3
MUS113	Music Theory III	3
MUS201	Music in Cinema 🚱	3
MUS211	Music Theory IV 🔾	3
MUS212	Music Theory V 🚱	3
MUS213	Music Theory VI 🔾	3
MUS268	Music History: Baroque to Romantic 😵	4
MUS279	Popular Songwriting	3
Philosophy		
PHL191	Language and the Layout of Argument	4
PHL201	Introduction to Philosophy 🖈 😵	4
PHL202	Fundamental Ethics 🖈 🚱	4
Religion		
R210	World Religions ★ ③	3
R211	History of the Old Testament 🖈 😵	3
R212	History of the New Testament 🖈 🔾	3
Theatre Arts		
TA101	Appreciating Theatre	3
TA106	Theatre History: Origins to the Renaissance 🖈 🚱	3
TA107	Theatre History: Restoration to Contemporary 🖈 🔾	3
TA121	Costuming	3
TA141	Acting Fundamentals I	3
TA142	Acting Fundamentals II	3
TA143	Acting Fundamentals III	3
Social Science	Δ	

Social Science

Two (2) courses:

Code	Title	Credits		
General Social Science				
SSC100	Introduction to Social Entrepreneurship	4		
Anthropology				
ANTH101	Introduction to Biological Anthropology 🖈	4		
ANTH102	Introduction to Archaeology and World Prehistor **\text{\circ}\$	ory 4		
ANTH103	Introduction to Cultural Anthropology 🔾	4		
ANTH180	Language and Culture ★ ② (beng renumbered annumbered selective winter term 2024)	to 4		
Communication				
COMM115	Introduction to Intercultural Communication 🖈	3 4		

Economics		
EC115	Introduction to Economics *	3
EC201	Principles of Economics I: Microeconomics *	4
EC202	Principles of Economics II: Macroeconomics	4
Geography	Timospies of Economics II. Macrocconomics	·
GEOG105	Introduction to Physical Geography	3
GEOG106	Introduction to World Regional Geography 🚱	3
GEOG107	Introduction to Cultural Geography	3
GEOG202	The Geography of Europe 3	3
GEOG206	Geography of Oregon ©	3
GEOG209	Geography of the Middle East and North Africa	3
GEOG214		3
GEOG214 GEOG290	Geography of Mexico and Central America Environmental Problems and Restoration	3
History	Environmental Problems and Restoration	3
HST101	Western Civilization: Ancient and Classical Europe	4
HST102	Western Civilization: Medieval and Early Modern Europe ❖	4
HST103	Western Civilization: Modern Europe 🔾	4
HST110	Ancient World History ★ 🏵	4
HST111	Medieval World History 🛊 🚱	4
HST112	Modern World History ★ 🏵	4
HST195	History of the Vietnam War 🚱	3
HST201	U.S. History: Pre-Colonial-1840 ★	4
HST202	U.S. History: 1840 - 1917 ★	4
HST203	U.S. History: 1910 - Present ★	4
HST204	Women in U.S. History ③	4
HST225	Women in World History 🚱	4
HST237	America in the 1960s	3
HST264	African-American History: 1500 - 1870s ★ ❖	4
HST265	African-American History: 1870 - Present ★ ③	4
International Stu	•	
	Introduction to International Studies * 3	4
Journalism		
J211	Introduction to Mass Communications	3
Music History		
MUS103	Jazz History (if taken summer 2020 or later)	3
MUS105	History of Rock (if taken summer 2020 or later)	3
MUS201	Music in Cinema 🚱	3
MUS268	Music History: Baroque to Romantic ② (if taken summer 2020 or later)	4
MUS279	Popular Songwriting	3
Political Science	2	
PS200	Introduction to Political Science 🖈	4
PS201	American Government 🖈	4
PS203	State and Local Governments	4
PS204	Introduction to Comparative Politics	4
PS205	International Relations 🛊 🔾	4
PS209	Problems in American Politics	4
PS215	Global Issues	4

PS217	Introduction to Public Land Management: The Politics of Recreation	3
PS225	Political Ideology: Ideas About Government	4
PS241	Introduction to Political Terrorism 🛊	4
Psychology		
PSY101	Psychology of Human Relations 🖈	3
PSY151	Introduction to the Social Sciences	3
PSY201	General Psychology ★	4
PSY202	General Psychology ★	4
PSY214	Introduction to Personality 😵	4
PSY216	Social Psychology	3
PSY231	Human Sexuality	3
PSY232	Sexuality and Society 🖈 🔾	3
PSY237	Human Development ★	4
PSY239	Introduction to Abnormal Psychology 🖈	4
Sociology		
SOC204	General Sociology: Principles of Sociology 🖈	3
SOC205	General Sociology: Social Institutions 🖈	3
SOC206	General Sociology: Social Problems 🖈	3
SOC213	Race Relations in the United States 🖈 🔾	3
SOC215	Gender and Society ★ ③	3
SOC216	Sociology of the Family 🖈	3
SOC223	Sociology of Aging 🖈	3
Theatre History		
TA106	Theatre History: Origins to the Renaissance ★ ③ (if taken summer 2021 or later)	3
TA107	Theatre History: Restoration to Contemporary ★ ③ (if taken summer 2021 or later)	3
Women's Studies		
WS101	Introduction to Women's Studies ★ 🏵	3
World Literature		
ENG271	World Literature: The Classical World (Ancient Literature to 1000 C.E.)	4
ENG272	World Literature: 1000 to 1800 C.E. ③ (if taken summer 2020 or later)	4
ENG273	World Literature: 1800 C.E. to the Present ③ (if	4

To be awarded an AS in Engineering degree, students must:

• Complete all requirements to total 90 applicable degree credits.

taken summer 2020 or later)

- Earn a grade of "C" or better in all courses applied to the degree, have a minimum GPA of 2.0 in all courses applied to the degree, and have a minimum cumulative GPA of 2.0 at the time the degree is awarded.
- Satisfactorily earn 12 credit hours at MHCC. Non-traditional credit (College Level Examination Program, Experience-Based Credit, Challenge, etc.) does not satisfy this requirement.

Please note: Courses may not be repeated for credit unless specified in the course description.

To check your official progress toward graduation, log on to MyMHCC and click "View My Degree Audit."

★ Course offered online

Cultural Literacy course