

# ASSOCIATE OF SCIENCE DEGREE (AS)

The **Associate of Science (AS)** degree is a transfer-focused degree designed for students who plan to continue their education at a four-year institution, particularly in fields that benefit from more specialized or discipline-specific coursework. The AS includes general education requirements along with coursework tailored to support transfer in a specific area of study.

The AS is often a good option for students pursuing **fields such as science, engineering, or other specialized disciplines** that require careful course selection to align with university and major requirements.

Because requirements vary by university and intended major, students are strongly encouraged to work with an academic advisor (<https://www.mhcc.edu/student-resources/academic-advising/>) and identify their preferred transfer institution early. This helps ensure that course selections align with specific university requirements and supports a smooth transfer process.

## Associate of Science programs offered at MHCC:

- Biology (PharmD Track) (<https://catalog.mhcc.edu/degree-certificate-requirements/asb-pharmd/>)
- Engineering (<https://catalog.mhcc.edu/degree-certificate-requirements/as-engineering/>)
- AS - General

Students interested in Biology or health-related fields such as medicine, dentistry, chiropractic, pharmacy, or veterinary medicine might also consider the **Associate of Science Transfer in Biology** (<https://catalog.mhcc.edu/degree-certificate-requirements/ast-biology/>) (AST-Biology) degree.

## Degree Requirements

Code	Title	Credits
<b>Written Communication, 2-3 courses</b> <sup>1</sup>		<b>7-8</b>
<b>Oral Communication, 1 course</b> <sup>1</sup>		<b>3-4</b>
<b>Mathematics (transfer-level), 1 course</b> <sup>1</sup>		<b>4-5</b>
<b>Arts &amp; Letters, Social Science, and Science / Mathematics / Computer Science</b>		<b>15</b>
<b>Health and Physical Education</b>		<b>3</b>
<b>Electives, courses in transfer major to reach 90 applicable credits</b>		<b>43-57</b>
<b>Total Credits</b>		<b>90</b>

<sup>1</sup> Must earn a grade of "C" or higher in Mathematics, Written Communication, and Oral Communication.

## Written Communication

Complete two (2) courses:

Code	Title	Credits
WR121Z	Composition I	4
WR122Z or WR227Z	Composition II Technical Writing	4

## Mathematics

Complete one (1) course:

Code	Title	Credits
MTH105Z	Math in Society	4
MTH111Z	Precalculus I: Functions	4
MTH112Z	Precalculus II: Trigonometry	4
MTH211	Fundamentals of Elementary Mathematics I	4
MTH212	Fundamentals of Elementary Mathematics II	4
MTH213	Fundamentals of Elementary Mathematics III	4
MTH251Z	Differential Calculus	4
MTH252Z	Integral Calculus	4
MTH253Z	Calculus: Sequences and Series	4
MTH254	Calculus IV: Multivariable/Vector Calculus Part 1	5
MTH255	Calculus V: Multivariable/Vector Calculus Part 2	4
MTH256	Differential Equations	5
MTH261	Linear Algebra	4
STAT243Z	Elementary Statistics I	4
STAT244	Elementary Statistics II	4

## Oral Communication

Complete one (1) course:

Code	Title	Credits
COMM100Z	Introduction to 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

## Arts & Letters, Social Science, and Science / Mathematics / Computer Science

Complete nine (9) credits in either Arts & Letters, Social Science or Science / Mathematics / Computer Science, and the remaining six (6) credits in each of the remaining areas.

### Arts & Letters

If completing nine (9) credits in this area, then six (6) credits must be completed between Social Science and Science / Mathematics / Computer Science.

Code	Title	Credits
<b>Art/Art History</b>		
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 later)	4
ART236	Figure Drawing III (if taken summer 2019 or later)	4
ART240	Character Design and Illustration	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 Photography	3
ART271	Printmaking I: Screen Printing and Relief Printing	4
ART272	Printmaking II: Screen, Relief and Intaglio Printmaking	4
ART273	Printmaking III: Advanced Printmaking	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
ART291	Sculpture I	4
ART292	Sculpture II	4
ART293	Sculpture III	4
ART294	Watercolor I	4
ART296	Watercolor II	4
ART297	Watercolor III (if taken summer 2019 or later)	4
<b>Communication / Speech (cannot be same course used to fulfill Oral Communication requirement)</b>		
COMM100Z	Introduction to 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
<b>Creative Writing</b>		
WR240	Creative Writing: Nonfiction	4
WR241	Creative Writing: Fiction I	4
WR242	Creative Writing: Poetry I	4
WR244	Creative Writing: Poetry II	4
WR245	Creative Writing: Fiction II	4
<b>English / Literature</b>		
ENG104Z	Introduction to Fiction	4
ENG105Z	Introduction to Drama	4
ENG106Z	Introduction to Poetry	4
ENG201	Shakespeare	4
ENG204	British Literature I: Old English to Renaissance	4
ENG205	British Literature II: Age of Enlightenment to Present	4
ENG212	Latin American Literature	4
ENG218	Arthurian Legends	4
ENG222	Women's Literature	3
ENG250	Introduction to Mythology	4
ENG253	Survey of American Literature I	4
ENG254	Survey of American Literature II	4
ENG257	Introduction to African American Literature	4
ENG261	Literature of Science Fiction	4
ENG271	World Literature: The Classical World (Ancient Literature to 1000 C.E.)	4
ENG272	World Literature: 1000 to 1800 C.E.	4
ENG273	World Literature: 1800 C.E. to the Present	4
<b>Ethics in the Workplace</b>		
HUM202	Ethics in the Workplace	3
<b>Film Studies</b>		
FA257	Films and Society	4
FA258	Understanding the Film	4
FA266	Film Directors	4
FA270	Film Genres	4
<b>Modern Languages (second-year)</b>		
ASL201	Second-year American Sign Language I	4
ASL202	Second-year American Sign Language II	4
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
<b>Music</b>		
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
<b>Philosophy</b>		
PHL191	Language and the Layout of Argument	4
PHL201	Introduction to Philosophy	4
PHL202	Fundamental Ethics	4
<b>Religion</b>		
R210	World Religions	3
R211	History of the Old Testament	3
R212	History of the New Testament	3
<b>Theatre Arts</b>		

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
TA148	Movement for the Actor	3

### Social Science

If completing nine (9) credits in this area, then six (6) credits must be completed between Arts & Letters and Science / Math / Computer Science.

Code	Title	Credits
<b>General Social Science</b>		
SSC100	Introduction to Social Entrepreneurship	4
<b>Anthropology</b>		
ANTH201	Introduction to Biological Anthropology	4
ANTH202	Introduction to Archaeology and World Prehistory 🌐	4
ANTH203	Introduction to Cultural Anthropology 🌐	4
ANTH240	Language and Culture 🌐	4
<b>Communication</b>		
COMM115	Introduction to Intercultural Communication 🌐	4
<b>Economics</b>		
EC115	Introduction to Economics	3
EC201Z	Principles of Microeconomics	4
EC202Z	Principles of Macroeconomics	4
<b>Geography</b>		
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
GEOG206	Geography of Oregon 🌐	3
GEOG209	Geography of the Middle East and North Africa 🌐	3
GEOG214	Geography of Mexico and Central America 🌐	3
GEOG290	Environmental Problems and Restoration	3
<b>History</b>		
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 🌐	4
HST201Z	United States History I 🌐	4
HST202Z	United States History II 🌐	4
HST203Z	United States History III 🌐	4
HST204	Women in U.S. History 🌐	4

HST225	Women in World History 🌐	4
HST237	America in the 1960s 🌐	4
HST240	History of Oregon 🌐	4
HST264	African-American History: 1500 - 1870s 🌐	4
HST265	African-American History: 1870 - Present 🌐	4
HST270	History of Mexico 🌐	4

### International Studies

INTL101	Introduction to International Studies 🌐	4
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### Journalism

J211	Introduction to Mass Communications	3
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### 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 🌐 (if taken summer 2020 or later)	4
MUS279	Popular Songwriting	3

### Political Science

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
PSY201Z	Introduction to Psychology I	4
PSY202Z	Introduction to Psychology II	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

SOC204Z	Introduction to Sociology	4
SOC205Z	Social Change and Institutions	4
SOC206Z	Social Problems	4
SOC213	Race Relations in the United States 🌐	4
SOC215	Gender and Society 🌐	3
SOC216	Sociology of the Family	3
SOC223	Sociology of Aging	3

### Theatre History

TA106	Theatre History: Origins to the Renaissance 🌐 (if taken summer 2021 or later)	3
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TA107	Theatre History: Restoration to Contemporary 🌐 (if taken summer 2021 or later)	3
<b>Women's Studies</b>		
WS101	Introduction to Women's Studies 🌐	3
<b>World Literature</b>		
ENG271	World Literature: The Classical World (Ancient Literature to 1000 C.E.) 🌐 (if taken summer 2020 or later)	4
ENG272	World Literature: 1000 to 1800 C.E. 🌐 (if taken summer 2020 or later)	4
ENG273	World Literature: 1800 C.E. to the Present 🌐 (if taken summer 2020 or later)	4

### Science / Mathematics / Computer Science

If completing nine (9) credits in this area, then six (6) credits must be completed between Arts & Letters and Social Science.

#### SMC Lab Sciences

Code	Title	Credits
<b>Lab Sciences recommended for Non-Science/Engineering Majors</b>		
<i>Anatomy</i>		
BI100	Survey of Body Systems	4
BI121	Essentials of Human Anatomy and Physiology I	4
BI122	Essentials of Human Anatomy and Physiology II	4
BI231Z	Human Anatomy and Physiology I	4
BI232Z	Human Anatomy and Physiology II	4
BI233Z	Human Anatomy and Physiology III	4
<i>Astronomy</i>		
PH104	Descriptive Astronomy	4
<i>Biology</i>		
BI101	General Biology: Cellular Biology	4
BI102	General Biology: Molecular Biology	4
BI103	General Biology: Ecology and Evolution <sup>1</sup>	4
BI132	Introduction to Animal Behavior (formerly BI103; cannot be repeated for credit) <sup>1</sup>	4
BI133	Northwest Forest Ecology (formerly BI103; cannot be repeated for credit) <sup>1</sup>	4
<i>Chemistry</i>		
CH104Z & CH124Z	Introduction to Chemistry and Introduction to Chemistry Lab	5
CH105	Organic Chemistry for Health Professions	5
CH106	Biological Chemistry for Health Professions	5
<i>General Science</i>		
GS104	Physical Science - Physics	4
GS105	Environmental Chemistry <sup>‡</sup>	4
or GS105A	Chemistry for the Consumer	
or GS105B	Chemistry of Food and Cooking	
GS106	Physical Science: Geology	4
<i>Geology</i>		
G148B	Volcanoes and Their Activity (formerly G148; cannot be repeated for credit) <sup>2</sup>	4
G165	Regional Field Geology	3
<b>Lab Sciences recommended for Science, Engineering or Other STEM-Focused Majors</b>		
<i>Biology</i>		

BI112	Biology for Health Professions	5
BI221Z	Principles of Biology: Cells	5
BI222Z	Principles of Biology: Organisms	5
BI223Z	Principles of Biology: Ecology and Evolution	5
BI234	Microbiology	4
<i>Chemistry</i>		
CH150Z	Preparatory Chemistry	4
CH221Z & CH227Z	General Chemistry I and General Chemistry I Laboratory	5
CH222Z & CH228Z	General Chemistry II and General Chemistry II Laboratory	5
CH223Z & CH229Z	General Chemistry III and General Chemistry III Laboratory	5
CH241	Organic Chemistry I	5
CH242	Organic Chemistry II	5
CH243	Organic Chemistry III	5
<i>Natural Resources Ecology</i>		
F240	Natural Resources Ecology	4
<i>Fish &amp; Wildlife</i>		
FW252	Mammals: Biology and Techniques	4
FW253	Field Ornithology	4
<i>Geology</i>		
G201	Principles of Physical Geology 1	4
G202	Principles of Physical Geology 2	4
G203	Principles of Historical Geology	4
<i>Physics</i>		
PH201	General Physics I	5
PH202	General Physics II	5
PH203	General Physics III	5
PH211	General Physics with Calculus I	5
PH212	General Physics with Calculus II	5
PH213	General Physics with Calculus III	5

<sup>‡</sup> Students may receive credit toward credential completion for **one** of the GS105 course options.

<sup>1</sup> BI103 used to be taught as BI103A, 103B, 103C, etc. BI103B became BI132; BI103D became BI133. Students may receive credit toward credential completion for only **one** of the following: BI103, BI103A, BI103B, BI103C, BI103D, BI132, or BI133.

<sup>2</sup> Students may receive credit toward credential completion for **one** of the G148 options, either lab or non-lab but not both.

#### SMC Non-Lab Sciences

Code	Title	Credits
<b>Non-Lab recommended for Non-Science/Engineering Majors</b>		
<i>Astronomy</i>		
PH109C	Observational Astronomy	3
PH121	General Astronomy	3
PH122	General Astronomy	3
PH123	General Astronomy	3
<i>Geology</i>		
G148C	Volcanoes and Their Activity (formerly G148; cannot be repeated for credit) <sup>1</sup>	3
<i>Nutrition</i>		

FN/HE225	Nutrition	4
<b>Non-lab recommended for Science, Engineering or Other STEM-Focused Majors</b>		
<i>Computer Science</i>		
CS160	Computer Science Orientation	4
CS161	Computer Science I	4
CS162	Computer Science II	4
CS205	Systems Programming and Architecture	4
CS250	Discrete Structures I	4
CS251	Discrete Structures II	4
CS260	Data Structures	4
<i>Engineering</i>		
ENGR201	Electrical Fundamentals I	5
ENGR211	Statics	4
ENGR212	Dynamics	4
ENGR213	Strength of Materials	4
GE101	Engineering Orientation	4
GE102	Engineering Computations	3
GE115	Engineering Graphics	3
<i>Fish &amp; Wildlife</i>		
FW251	Principles of Wildlife Conservation	3
<i>Mathematics</i>		
MTH105Z	Math in Society	4
MTH111Z	Precalculus I: Functions	4
MTH112Z	Precalculus II: Trigonometry	4
MTH211	Fundamentals of Elementary Mathematics I	4
MTH212	Fundamentals of Elementary Mathematics II	4
MTH213	Fundamentals of Elementary Mathematics III	4
MTH251Z	Differential Calculus	4
MTH252Z	Integral Calculus	4
MTH253Z	Calculus: Sequences and Series	4
MTH254	Calculus IV: Multivariable/Vector Calculus Part 1	5
MTH255	Calculus V: Multivariable/Vector Calculus Part 2	4
MTH256	Differential Equations	5
MTH261	Linear Algebra	4
STAT243Z	Elementary Statistics I	4
STAT244	Elementary Statistics II	4

<sup>1</sup> Students may receive credit toward credential completion for **one** of the G148 options, either lab or non-lab but not both.

## Health and Physical Education

Complete three (3) credits:

Code	Title	Credits
HE151	Drug Education: Stimulants and Performance Enhancing Drugs	3
HE152	Drug Education: Opioids, Cannabis, Depressants and Hallucinogens	3
HE202	Adult Development and Aging	1
HE204	Nutrition for Health	3
HE205	Diet Appraisal	1
HE207	Stress Control Through Activity Intervention	1

HE209	Sport and Exercise Nutrition	1
HE208	HIV and Other Sexually Transmitted Infections	1
HE/FN225	Nutrition (FN225, if taken summer 2021 or later)	4
HE242	Stress and the Human Body	3
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
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 Injuries	3
HPE270	Introduction to Sport Psychology	3
HPE285OL	Wilderness Survival	3
HE289L	Wilderness First Responder Part- 2	2
HE289R	Wilderness First Responder - Recertification	2
HPE291	Lifeguard Training	2
HPE295	Health and Fitness for Life	3
PE131	Introduction to Exercise and Sports Science	3
PE185__	PE185 activity course <sup>1</sup>	1

<sup>1</sup> Three (3) 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.

## Electives

Up to 6 credits of PE185, 15 credits of IECC (200-level), and 12 credits of Lower Division Collegiate Cooperative Education Internship may be applied as elective credits to the AS. See the Course Information section for elective credit/course eligibility. See the Course Information section for elective credit/course eligibility. Career-technical courses do not apply to this degree.

Transfer students seeking a Bachelor of Arts degree must complete the second year of a language other than English (201/202/203 or equivalent) before graduating from a public Oregon university. Second-year language courses offered at MHCC include American Sign Language (ASL), Spanish, and Japanese.

- ★ Course offered online
- 🌐 Cultural Literacy course