

# ASSOCIATE OF SCIENCE (A.S.) - NATURAL SCIENCES

## ASSOCIATE OF SCIENCE - GENERAL A.S.; NATURAL SCIENCE CONCENTRATION

Degree Specific Credits: 60

Required Cumulative GPA: 2.0

The Associate of Science (A.S.) degree has the following general requirements. Students must:

- Complete all of the university's general education requirements (<http://catalog.umt.edu/academics/general-education-requirements/>) with the exception of the language requirement and the advanced writing requirement.
  - All courses taken to satisfy general education requirements must be taken for a traditional letter grade and must be passed with a grade of C- or better.
- Complete a minimum of 60 credits.
- Earn a minimum cumulative institutional GPA of 2.0.
- Complete at least 30 of the total 60 degree credits at Missoula College or UM-Missoula.
- Complete 9 credits of transferable coursework in the areas of Science, Technology, Engineering, and Mathematics (STEM) beyond those taken as general education requirements. Those courses offered at Missoula College are listed below.

Missoula College students are limited to enrolling in lower-division (100- and 200-level) courses only.

To receive to Associate of Arts with a concentration in Natural Sciences, a student must complete the requirements specific to the concentration listed below.

### Course Requirements

Some courses required for the Associate of Arts with a concentration in Natural Sciences satisfy multiple general education perspectives. Visit with your advisor for more information.

Students must complete one of the following advising tracks. These are advising tracks only and not official programs as recognized by the University of Montana (UM) or the Montana University System. Track information will not appear on a UM transcript, diploma, university lists, student data system, or university publication.

#### Natural Sciences Exploratory Track

Code	Title	Hours
<b>Complete the following course:</b>		
BIOB 210N	Communicating Biology	3
<b>Complete 6-7 credits of the following courses:</b>		
M 121	College Algebra	6-7
M 122	College Trigonometry	
M 162	Applied Calculus	
STAT 216	Introduction to Statistics	
<b>Complete 15 credits from the following courses including a minimum of 2 courses that have a lab component:</b>		
BIOB 101N	Discover Biology	15

or BIOB 160 Principles of Living Systems

BIOB 161N	Principles of Living Systems Lab
BIOB 109N	Montana Ecosystems
ENST 231H	Nature and Society
GEO 101N	Introduction to Physical Geology
GEO 102N	Introduction to Physical Geology Lab
NUTR 221N	Basic Human Nutrition
PHSX 105N	Fundamentals of Physical Science

#### Forestry Track

Code	Title	Hours
<b>Complete all of the following courses:</b>		
BIOB 160	Principles of Living Systems	3
BIOO 105N	Introduction to Botany	3
CHMY 121N	Introduction to General Chemistry	4
COMX 111A	Introduction to Public Speaking	3
ECNS 201S	Principles of Microeconomics	3
M 151	Precalculus	4
or M 121 & M 122	College Algebra and College Trigonometry	
STAT 216	Introduction to Statistics	4
<b>Complete all of the following Forestry courses:</b>		
FORS 130	Introduction to Forestry Field Skills	2
FORS 202	Forest Mensuration	3
FORS 230	Fire Management & Environmental Change	3
FORS 232	Forest Insects & Diseases	3
FORS 241N	Dendrology	3
FORS 250	Intro to GIS for Forest Mgt	3
NRSM 211N	Soils and Water	2
NRSM 212N	Ecology, Physics and Taxonomy of Soils	1

#### Wildlife Biology Track

Code	Title	Hours
<b>Complete all of the following courses:</b>		
CHMY 121N	Introduction to General Chemistry	4
CHMY 123	Introduction to Organic and Biochemistry	4
CHMY 124	Introduction to Organic and Biochemistry Lab	2
COMX 111A	Introduction to Public Speaking	3
M 162	Applied Calculus	4
or M 171	Calculus I	
STAT 216	Introduction to Statistics	4
<b>Complete all of the following Wildlife Biology courses:</b>		
BIOB 160	Principles of Living Systems	3
BIOB 161N	Principles of Living Systems Lab	1
BIOB 260	Cellular and Molecular Biology	4
BIOB 272	Genetics and Evolution	4
WILD 180	Careers in Wildlife Biology	2
WILD 274	Human Dimensions of Wildlife	3

**Parks, Tourism, and Recreation Management Track**

Code	Title	Hours
<b>Complete all of the following courses:</b>		
ACTG 201	Principles of Financial Accounting	3
ACTG 202	Principles of Managerial Accounting	3
BIOB 160	Principles of Living Systems	3
COMX 111A	Introduction to Public Speaking	3
ECNS 201S	Principles of Microeconomics	3
M 115	Probability and Linear Mathematics	4
PSYX 100S or SOCI 101S	Intro to Psychology Introduction to Sociology	3
STAT 216	Introduction to Statistics	4
<b>Complete all of the following Parks, Tourism, and Recreation courses:</b>		
NRSM 121S or PTRM 141Y	Environmental Science and Sustainability National Parks and American Culture	3
NRSM 211N & NRSM 212N	Soils and Water and Ecology, Physics and Taxonomy of Soils	3
PTRM 150	First Year Seminar in Parks, Tourism, and Recreation Management	1
PTRM 210S	Nature Tourism & Commercial Recreation	3
PTRM 217S	Parks & Outdoor Recreation Management	3

**Environmental Studies Track**

Code	Title	Hours
<b>Complete all of the following courses:</b>		
CHMY 121N	Introduction to General Chemistry	4
BIOB 101N or BIOB 160	Discover Biology Principles of Living Systems	3
M 115	Probability and Linear Mathematics	4
<b>Complete all of the following Environmental Studies courses:</b>		
ENSC 105N	Environmental Science	3
ENST 201	Environmental Info Resources	3
ENST 225S	Sustainable Communities	3
ENST 230H	Nature and Society	3

**Additional STEM Courses for the A.S. Degree**

Code	Title	Hours
<b>Associate of Science STEM Courses</b>		
Complete 9 credits of the following courses in the areas of Science, Technology, Engineering, and Mathematics (STEM) beyond those taken as general education requirements.		9
M 105	Contemporary Mathematics	
M 115	Probability and Linear Mathematics	
M 121	College Algebra	
M 122	College Trigonometry	
M 162	Applied Calculus	
BIOB 101N	Discover Biology	
BIOB 109N	Montana Ecosystems	
BIOB 160	Principles of Living Systems	
BIOB 161N	Principles of Living Systems Lab	

BIOB 210N	Communicating Biology
BIOH 104N	Basic Human Biology
BIOH 105N	Basic Human Biology Laboratory
BIOH 201N	Human Anatomy & Physiology I
BIOH 202N	Human Anatomy and Physiology I Lab
BIOH 211N	Human Anatomy and Physiology II
BIOH 212N	Human Anatomy and Physiology II Lab
BIOM 250N	Microbiology for Health Sciences
BIOM 251	Microbiology Health Sciences Lab
CAS 231N	Pharmacology and Addictions
CHMY 121N	Introduction to General Chemistry
GEO 101N	Introduction to Physical Geology
GEO 102N	Introduction to Physical Geology Lab
NUTR 221N	Basic Human Nutrition
PHSX 105N	Fundamentals of Physical Science
ENST 231H	Nature and Society
ACTG 101	Accounting Procedures I
ACTG 102	Accounting Procedures II
ACTG 180	Payroll Accounting
ACTG 201	Principles of Financial Accounting
ACTG 202	Principles of Managerial Accounting
ACTG 211	Income Tax Fundamentals
ACTG 215	Fundamentals of Government and Nonprofit Accounting
AHMS 144	Medical Terminology
AHMS 156	Medical Billing Fundamentals
AHMS 216	Pharmaceutical Products
AHMS 220	Medical Office Procedures
AHMS 252	Computerized Medical Billing
BFIN 205S	Personal Finance
BGEN 105S	Introduction to Business
BGEN 160S	Issues in Sustainability
BMKT 265	Social Media Strategy & Management
CSCI 113	Programming with C++ I
CSCI 151	Interdisciplinary Computer Science I
CSCI 172	Intro to Computer Modeling
CSCI 215E	Social & Ethical Issues in CS
CSCI 221	System Analysis and Design
CSCI 240	Databases and SQL
CULA 210	Nutritional Cooking
DDSN 113A	Technical Drafting
DDSN 114	Introduction to CAD
DDSN 116	3D CAD
DDSN 244	GIS Mapping
DDSN 245	Civil Drafting
ECNS 201S	Principles of Microeconomics
GDSN 149A	Digital Imaging I
ITS 150	CCNA 1: Exploration
ITS 152	CCNA 2: Exploration
ITS 165	Introduction to Operating Systems and the Command Line
ITS 210	Network OS - Desktop

ITS 212	Network OS - Server Administration
ITS 214	Network OS - Infrastructure
ITS 221	Project Management
ITS 222	Enterprise Security
ITS 250	CCNA 3: Exploration
ITS 252	CCNA 4: Exploration
ITS 279	Cloud Systems
ITS 280	Computer Repair & Maintenance
ITS 289	Professional Certification
MART 214	Digital Publishing & Design
MART 232	Interactive Web II
SRVY 230	Intro to Surveying for Engineers