GEOLOGY, LIBERAL ARTS (AS)

Degree: Associate of Science
Major: Liberal Arts
Emphasis: Geology
Program Code: 2431

The Associate of Science (AS) degree is designed for students who intend to continue their education and obtain a baccalaureate degree. The AS is the appropriate choice for students who will take upper division coursework in mathematics, biological sciences, and physical sciences. The degree program includes the Colorado Statewide Essential Learning Core and meets the lower division Essential Learning requirements at most public institutions in Colorado. A number of emphases are available within the AS degree. Students choosing one of these emphases will take courses in a discipline in addition to the Essential Learning core.

An Associate of Science (AS) degree with a geology emphasis is offered through the Physical and Environmental Sciences Department. This degree prepares students for employment as geological technicians in government and industry, or for entrance into the geology baccalaureate program at Colorado Mesa University or other four-year institutions. The curriculum includes basic courses in geology as well as Essential Learning courses. All of the geology courses place emphasis on the spectacular geologic features in western Colorado and eastern Utah.

For more information on what you can do with this major, visit Career Services' What to Do with a Major? resource.

All CMU/CMU Tech associate graduates are expected to demonstrate proficiency in specialized knowledge/applied learning, quantitative fluency, communication fluency, critical thinking, personal and social responsibility, and information literacy. In addition to these campus#wide student learning outcomes, graduates of this major will be able to:

1. Articulate the fundamental knowledge base and ideas of the major fields of geoscience. (Specialized Knowledge)
2. Collect and interpret geoscience field data. (Applied Learning)

Requirements

Each section below contains details about the requirements for this program. Select a header to expand the information/requirements for that particular section of the program's requirements.

To print or save an overview of this program's information, including the program description, learning outcomes, requirements, suggested course sequencing (if applicable), and advising and graduation information, scroll to the bottom of the left-hand navigation menu and select "Print Options." This will give you the options to either "Send Page to Printer" or "Download PDF of This Page." The "Download PDF of This Page" option prepares a much more concise presentation of all program information. The PDF is also printable and may be preferable due to its brevity.

Institutional Degree Requirements

The following institutional degree requirements apply to all CMU or CMU Tech Associate of Science (AS) degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

- 60 semester hours total.
- Students must complete a minimum of 15 of the final 30 semester hours of credit at CMU/CMU Tech.
- 2.00 cumulative GPA or higher in all CMU/CMU Tech coursework.
- A grade of "C" or higher must be earned in all Essential Learning courses in order to be accepted for transfer under the Colorado Core Transfer Consortium General Education curriculum or gtPathways, Colorado's guaranteed transfer program.
- A course may only be used to fulfill one requirement for each degree/certificate.
- No more than six semester hours of independent study courses can be used toward the degree.
- Non-traditional credit, such as advanced placement, credit by examination, and credit for prior learning, is limited by the institutional residency requirements for an associate of science degree. Cooperative education and internship courses may be taken multiple times, up to a maximum of 15 credit hours.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Degree Requirements.
- The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See "Requirements for Undergraduate Degrees and Certificates" in the catalog for a complete list of graduation requirements.

Essential Learning Requirements

(31 semester hours)

See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.

Code	Title	Semester Credit Hours
English [1]		
ENGL 111	English Composition I-GTCO1	3
ENGL 112	English Composition II-GTCO2	3
Mathematics [1]		
MATH 113	College Algebra-GTMA1 [2]	3
History		
Select one History course		3
Humanities		
Select one Humanities course		3
Social and Behavioral Sciences		
Select one Social and Behavioral Sciences course		3
Select one Social and Behavioral Sciences course		3
Fine Arts		
Select one Fine Arts course		3
Natural Sciences [3]		
Select one Natural Sciences course		3

Select one Natural Sciences course with a lab	4
Total Semester Credit Hours	**31**

1 Must receive a grade of "C" or better and must be complete by the time the student has 60 semester hours.
2 This is a 4 credit hour course. 3 credits apply to the Essential Learning requirements and 1 credit applies to Required Geology Specialization courses.
3 7 semester hours, one course must include a lab.

Other Lower Division Requirements

Code	Title	Semester Credit Hours
Wellness Requirement		
KINE 100	Health and Wellness	1
Select one Activity course		1
Total Semester Credit Hours		**2**

Program Specific Degree Requirements

(27 semester hours, must earn a “C” or better in each course.)

Code	Title	Semester Credit Hours
Core Courses		
Complete one of the following course pairs : [1]		4
GEOL 111 & 111L	Principles of Physical Geology-GTSC1 and Principles of Physical Geology Laboratory-GTSC1	
GEOL 113 & 113L	Field-Based Introduction to Physical Geology-GTSC1 and Field-Based Introduction to Physical Geology Laboratory-GTSC1	
GEOL 112	Principles of Historical Geology-GTSC1	3
GEOL 112L	Principles of Historical Geology Laboratory-GTSC1	1
GEOL 250	Environmental Geology	3
Required Geology Specialization Courses [2]		
MATH 113	College Algebra-GTMA1 [3]	1
GEOG 131	Introduction to Cartography	3
Select 12 additional semester hours		12
Total Semester Credit Hours		**27**

1 Either GEOL 111/GEOL 111L or GEOL 113/GEOL 113L may be taken for credit, but not both.
2 To be selected in consultation with student’s advisor.
3 This is a 4 credit hour course. 3 credits apply to the Essential Learning requirements and 1 credit applies to Required Geology Specialization courses.

Suggested Course Plan

First Year

Fall Semester		Semester Credit Hours
Select one of the following:		4
GEOL 111 & 111L	Principles of Physical Geology-GTSC1 and Principles of Physical Geology Laboratory-GTSC1	
GEOL 113 & 113L	Field-Based Introduction to Physical Geology-GTSC1 and Field-Based Introduction to Physical Geology Laboratory-GTSC1	
ENGL 111	English Composition I-GTCO1	3
MATH 113	College Algebra-GTMA1 (or higher)	4
Essential Learning - Fine Arts		3
KINE 100	Health and Wellness	1
	Semester Credit Hours	**15**
Spring Semester		
GEOL 112	Principles of Historical Geology-GTSC1	3
GEOL 112L	Principles of Historical Geology Laboratory-GTSC1	1
ENGL 112	English Composition II-GTCO2	3
Essential Learning - Natural Science with lab		4
Essential Learning - Social and Behavioral Sciences		3
Wellness Requirement - KINA Activities Course		1
	Semester Credit Hours	**15**
Second Year		
Fall Semester		
GEOL 250	Environmental Geology	3
Geology Specialization Selection		3
Essential Learning - Humanities		3
Essential Learning - Natural Science without lab		3
GEOG 131	Introduction to Cartography	3
	Semester Credit Hours	**15**
Spring Semester		
Geology Specialization Selection [1]		5
Geology Specialization Selection		4
Essential Learning - History		3
Essential Learning - Social and Behavioral Sciences		3
	Semester Credit Hours	**15**
	Total Semester Credit Hours	**60**

1 Students that intend to continue with Colorado Mesa University should take ESSL 290 and ESSL 200 during the final semester of their Associate of Science work.

Advising and Graduation

Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. The suggested course sequencing outlines how students could finish degree requirements. Some courses are critical to complete in specific semesters, while others may be moved around. Meeting with an academic advisor is essential in planning courses and altering the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for their intended degree(s).

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a degree and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and

should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar's Office.

Graduation Process

Students must complete the following in the first two months of the semester prior to completing their degree requirements:

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the "Intent to Graduate" form to the Registrar's Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found on the Graduation web page.

If a student's petition for graduation is denied, it will be their responsibility to apply for graduation in a subsequent semester. A student's "Intent to Graduate" does not automatically move to a later graduation date.