

MINING TECHNICIAN - ASSOCIATE OF SCIENCE DEGREE (AS)

Explore More About This Program: <https://cwi.edu/program/mining-technician/>

Degree Plan

The course sequence listed below is strongly recommended in order to complete your program requirements. Please register for each semester as shown using the Student Planning tool in myCWI. Plans may be modified to fit the needs of part-time students by adding additional semesters. Consult your advisor for any questions regarding this course sequence plan.

The Mining Technician Associate of Science degree offers two options for completion:

Mining Technician Option 1 allows students who prefer a slower pace or score lower on the Math Placement to complete their MATH prerequisites by taking MATH 143 & MATH 144, a two-semester sequence version of MATH 147. Students needing additional support could take MATH 143P and MATH 142.

Mining Technician Option 2 allows students who prefer a faster pace to complete the MATH prerequisite in one semester by taking MATH 147. The combination of MATH 143 & MATH 144 is equivalent to MATH 147

Select the appropriate Degree Plan below based on which option you would prefer.

DEGREE PLAN: MINING TECHNICIAN OPTION 1

First Year

Fall		Credit Hours
CWI 101	Connecting With Ideas	3
ENGL 101	Writing and Rhetoric I (GEM 1)	3
GEOL 101 & 101L	Physical Geology and Physical Geology Lab (GEM 4)	4
MATH 143	Precalculus I: Algebra (GEM 3) ⁴	3
GEM 5 - Humanistic & Artistic Ways of Knowing course ¹		3
Total Semester Credit Hours		16

Spring

ENGL 102	Writing and Rhetoric II (GEM 1)	3
ENVI 100 & 100L	Environmental Science and Environmental Science Lab (GEM 4)	4
GEOS 105	Earth's Natural Resources (Global Perspectives)	3
MATH 144	Precalculus II: Trigonometry	2
GEM 5 - Humanistic & Artistic Ways of Knowing course ¹		3
Total Semester Credit Hours		15

Second Year

Fall		Credit Hours
COMM 101	Fundamentals of Oral Communication (GEM 2)	3
ENGR 175	Geomatics and Geospatial Data	3

GEOS 275	Field Geology	4
GIS 126	Fundamentals of GIS	3
SCIE 102	Ethics in Science (GEM 6) ³	3
Total Semester Credit Hours		16

Spring

GEOS 208	Hydrology and Water Resources	4
GEOS 290	Mining Capstone	4
GEM 6 - Social & Behavioral Ways of Knowing course ²		3
Major Electives	Select credits from the list below to bring the total credits earned to 60	2-3
Total Semester Credit Hours		13
Minimum Credit Hours Required		60

DEGREE PLAN: MINING TECHNICIAN OPTION 2

First Year

Fall		Credit Hours
CWI 101	Connecting With Ideas	3
ENGL 101	Writing and Rhetoric I (GEM 1)	3
GEOL 101 & 101L	Physical Geology and Physical Geology Lab (GEM 4)	4
MATH 147	Precalculus (GEM 3)	5
Total Semester Credit Hours		15

Spring

ENGL 102	Writing and Rhetoric II (GEM 1)	3
ENVI 100 & 100L	Environmental Science and Environmental Science Lab (GEM 4)	4
GEOS 105	Earth's Natural Resources (Global Perspectives)	3
GEM 5 - Humanistic & Artistic Ways of Knowing course ¹		3
GEM 6 - Social & Behavioral Ways of Knowing course ²		3
Total Semester Credit Hours		16

Second Year

Fall		Credit Hours
COMM 101	Fundamentals of Oral Communication (GEM 2)	3
ENGR 175	Geomatics and Geospatial Data	3
GEOS 275	Field Geology	4
GIS 126	Fundamentals of GIS	3
SCIE 102	Ethics in Science (GEM 6) ³	3
Total Semester Credit Hours		16

Spring

GEOS 208	Hydrology and Water Resources	4
GEOS 290	Mining Capstone	4
GEM 5 - Humanistic & Artistic Ways of Knowing course ³		3
Major Electives	Select credits from the list below to bring the total credits earned to 60	2-3
Total Semester Credit Hours		13
Minimum Credit Hours Required		60

MINING TECHNICIAN: MAJOR ELECTIVES

Course	Course Title	Min Credits
BUSA 101	Introduction to Business	3
BUSA 120	Business Software Applications	3
GIS 226	Spatial Analysis With GIS	3
GIS 230	Remote Sensing/GIS Integration	3
GEOS 293	Geosciences Internship	1 - 3

¹ Mining Technician majors are encouraged to choose GEM 5 courses from the following disciplines: ARTS, ENGL, HIST, HUMA, PHIL, SIGL, or SPAN. In particular, SPAN 101 Elementary Spanish I is recommended. (NOTE: Selected GEM 5 courses must come from two different disciplines in order to fulfill the general education requirement.)

² Mining Technician majors are encouraged to choose GEM 6 courses from the following disciplines: ANTH, ECON, GEOG, POLS, SCIE, or SOC. In particular, GEOG 200 World Regional Geography is recommended. (NOTE: Selected GEM 6 courses must come from two different disciplines in order to fulfill the general education requirement.)

³ This course fulfills the Ethical Reasoning requirement for an associate degree from CWI.

⁴ Students who need additional support for MATH 143 can enroll in MATH 143P (3 credits) and MATH 142 (2 credits) in their first semester and move one of the GEM 5 courses to their fourth semester.