Area of Study: **Science and Engineering**
Pathway: **Geology**
Degree type: **Associate in Science**
Curriculum Code: **SCI.GOL.AS (U230A33)**

(Total Program Credits: 60)

The geological sciences are fundamentally the study of Earth, its crust and global internal structure, ocean basins, continents, mountains, volcanoes, earthquakes, glaciers and other surface features. Geology also is concerned with the history of the planet, the origin and evolution of the continents, seas and life. Employment opportunities for the geologist are found with state and federal agencies and private engineering firms concerned with land use, geologic hazards, hazardous waste disposal and the management of important resources such as oil, gas, coal, water and various minerals.

PROGRAM LEARNING OUTCOMES:

At the successful completion of the Associate in Science Degree (Geology) emphasis, the graduate will be able to:

- hypothesize the origins of geographic landforms;
- identify geologic specimens;
- discriminate the origin of different geologic specimens;
- construct predictions of the future based on past geologic events;
- demonstrate the importance of natural resources for society; and
- recommend mitigation strategies for natural hazards.

Placement Measures MAT, RHT, and COL sequence placement will be determined by an Academic Advisor. Contact your Academic Advisor before registering for courses.
Developmental education courses do not transfer. They assist students in the path towards college credit.

Program Map for Full-Time Students

Semester One: Fall	**Category**	**Next Steps**
ANT 101◊ Introduction to Anthropology (3) OR ANT 103◊ Cultural Anthropology (3)	*Social and Behavioral Science*	Meet with your Academic Advisor to create an academic plan. Explore transfer institutions and admissions requirements by attending transfer events.
BIS 150◊ # Principles of Biology I (4)	*Life Science*	
GOL 101◊ Physical Geology (4)	*Physical Science*	
RHT 101◊# Freshman Rhetoric & Composition I (3)	*Communication*	

14 Credit Hours

Note: Grade of "C" or higher is an IAI requirement for RHT 101 and RHT 102.

Semester Two: Spring	Category	Next Steps
CHM 140◊# General Chemistry I (5)	*Physical Science*	Meet with your Academic Advisor to update your academic and transfer plan. Create a Transferology account to explore how coursework transfers. Attend a Transfer 101 Workshop.
MAT 131◊# Calculus & Analytic Geometry I (5)	*Mathematics*	
RHT 102◊# Freshman Rhetoric & Composition II (3)	*Communication*	
Social and Behavioral Science General Education Course (3) Not from ANT	*Social and Behavioral Science*	

16 Credit Hours

Note: Grade of "C" or higher is an IAI requirement for RHT 101 and RHT 102.

Behavioral science: *Because most careers in Geology are reliant on the economics of natural resources, a choice from ECO 102◊ or ECO 103◊ is recommended, but not required, to fill one of the Social and Behavioral Science requirements.*

Semester Three: Fall	Category	Next Steps
SPE 101◊# Principles of Effective Speaking (3)	*Communication*	Meet with your Academic Advisor to update your academic and transfer plan. Attend a Ready to Apply Workshop.
MAT 133◊# Calculus & Analytic Geometry II (5)	*Mathematics*	
PHY 101◊# General Physics (Mechanics, Heat & Sound) (5) *OR* *CHM 141◊# General Chemistry II (5)*	*Program Elective*	
Fine Arts General Education Course (3)	*Fine Arts*	

16 Credit Hours

Semester Four: Spring	Category	Next Steps
Humanities General Education Course (3)	*Humanities*	Meet with your Academic Advisor to finalize your transfer plan. Submit graduation petition by deadline (check for the specific date in catalog or syllabi.) Apply to your transfer institution(s).
PHY 101◊# General Physics (Mechanics, Heat & Sound) (5) *OR* *PHY 102◊# General Physics (Electricity, Magnetism, Optics & Modern Physics) (5)*	*Program Elective*	
CHM 141◊# General Chemistry II (5) *OR* *GOL 102◊ Evolution of the Earth (4)*	*Program Elective*	
GOL 103◊ Environmental Geology (3)	*Program Elective*	

15-16 Credit Hours

Note: Take one additional Humanities or Fine Arts and one additional Social and Behavioral Science course, to be eligible for the General Education Core Curriculum (GECC) Credential.

Program Electives

PHY 101 General Physics (Mechanics, Heat & Sound) (5)
PHY 102 General Physics (Electricity, Magnetism, Optics & Modern Physics) (5)
GOL 102 Evolution of the Earth (4)
GOL 103 Environmental Geology (3)
CHM 141 General Chemistry II (5)

(Select courses that meet the BS requirements of your transfer college.)

Graduation requirements:

AS degree **Subtotal: 37-41**

Geology courses or other electives for AS degree **Subtotal: 19-23**

General Education requirements:

- **Communications:** Three courses (nine semester hours).
- **Humanities and Fine Arts:** Two courses (six semester hours), with at least one course selected from Humanities and at least one course from the Fine Arts;
- **Social and Behavioral Science:** two courses (six semester credits), with courses selected from at least two disciplines.

  Graduation from an Illinois college or university requires satisfactory completion of one or more courses incorporating Human Diversity, which may be taken as a Humanities and Fine Arts or Social and Behavioral Science course.
- **Mathematics:** Two courses *(six to nine semester hours)*.
- **Physical and Life Science:** Three courses (10-11 semester hours), with at least one course selected from the Life Sciences and one course from the Physical Sciences and including at least one laboratory course.
- **Foreign Language encouraged if transferring to a four-year institution.**

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