

**Associate in Sciences - Transfer (AS-T)****Geology**

Knowledge about the planet we inhabit, the surrounding universe and the natural forces that impact our world adds value to our daily lives and provides the basis for interesting careers in a broad range of disciplines: astronomy, geology, meteorology and oceanography. Begin studies for an advanced degree leading to positions with government agencies or private industry as an independent consultant, teacher, or researcher.

**Degree Requirements**

- **Communications:**  
5 credits - ENGL& 101 English Composition I.
- **Quantitative/Symbolic Reasoning Skills:**  
10 credits – MATH& 151\* Calculus I AND MATH& 152\* Calculus II.
- **Humanities/ Social Science:**  
15 credits – Selected from at least three disciplines on the Distribution List. A minimum of 5 credits in Humanities, and a minimum of 5 credits in Social Science, and an additional 5 credits in either Humanities or Social Science.
- **Diversity:**  
5 credits – From the Diversity Course List. Courses that meet this requirement may also be used toward other graduation requirements. Diversity courses are listed in the quarterly schedule and identified by 'DIV' attached to the course title. Example: SPAN& 121 – Intro to Spanish I:DIV.
- **Electives:**  
20 credits minimum - See advisor for approved list of electives. No more than 15 credits may be taken from the Restricted Course List.

**Pre-Major Requirements (40 credits)**

CHEM& 161*	General Chem w/Lab I	5
CHEM& 162*	General Chem w/Lab II	5
CHEM& 163*	General Chem w/Lab III	5
GEOL 118	Historical Geology	5
MATH& 153*	Calculus III OR	5
MATH& 146	Introduction to Statistics	
PHYS& 221*	Engr Physics I w/Lab	5
PHYS& 222*	Engr Physics II w/Lab	5
PHYS& 223*	Engr Physics III w/Lab	5

**Recommended Electives**

ERSI 104	Introduction to Earth Sciences	5
GEOL& 208	Geology of Pacific NW	5
OCEA& 101	Introduction to Oceanography	5

Diversity and Distribution Lists are available in the Lower Columbia College Academic Catalog and at [lowercolumbia.edu/catalog](http://lowercolumbia.edu/catalog).

*Total transferable credits required to earn this degree: 90 in courses numbered 100 or above with a cumulative grade point average (GPA) of at least 2.0. A course cannot be credited toward more than one distribution or skill area.*

\*It is recommended that sequence courses be completed at one institution.

MATH 112 through MATH 150 are highly recommended.

**Students completing this program should acquire the following skills and abilities:**

- Interpret and use various kinds of maps, globes, charts, and graphs.
- Apply scientific knowledge and techniques to current environmental issues.
- Describe basic earth processes in an interdisciplinary context.
- Effectively communicate earth sciences concepts.
- Demonstrate familiarity with global and regional geology and geography.

*Revised March 2019 (Effective Summer 2019)*

**Planner**

The distribution lists are in the LCC Catalog. If you are online, click on the links below:

**Diversity Course List**

**Distribution List**

Fall Quarter			Winter Quarter			Spring Quarter			Summer Quarter		
√	Courses	Crs	√	Courses	Crs	√	Courses	Crs	√	Courses	Crs
Total:			Total:			Total:			Total:		

Fall Quarter			Winter Quarter			Spring Quarter			Summer Quarter		
√	Courses	Crs	√	Courses	Crs	√	Courses	Crs	√	Courses	Crs
Total:			Total:			Total:			Total:		

**Notes:**

Program planning is based on information available at the time of preparation. It is the student's responsibility to meet with their LCC advisor *and* for checking specific major requirements of baccalaureate institutions in the year prior to transferring. Consult the LCC catalog for LCC graduation requirements.

Most four-year universities require one year of a single foreign language as a graduation requirement.