

2+2 Articulation Agreement for Howard Community College and Towson University

Associate's Degree A.A. in Physical Science, Geology Concentration

Bachelor's Degree: B.S. in Geology

Effective Term: Fall 2020

This section outlines the courses to take for the Howard Community College general education and program requirements in order to complete both Howard Community College and TU degrees within a total of 4 years and 120 credits. The following tables do not include any nontransferable or prerequisite coursework outside of the curriculum.

Howard CC Core Requirement	Howard CC Course to Take	Credits	Towson University Equivalent Course
English Composition	ENGL 121 College Composition	3	ENGL 102 Writing for a Liberal Education
Mathematics	MATH 181 Calculus I	4	MATH 273 Calculus I
Arts & Humanities – Critical and Creative Thinking	<p>Choose one of the following recommended courses:</p> <ul style="list-style-type: none"> ▪ ENGL 207 Ethics in Literature ▪ PHIL 103 Introduction to Ethics ▪ PHIL 203 Civility & Virtue Ethics 	3	

This section explains any specific course selections made in section 1 and provides transfer planning guidance specific to this degree plan. Students must follow the course selections outlined in this document. If students do not complete any or all of the courses outlined in this agreement, they will be required to complete outstanding requirements at TU.

GENERAL EDUCATION

Students must take the following courses for their general education requirements:

- **Mathematics:** Take **MATH 181** to satisfy TU major requirement of MATH 273.
- **Biological and Physical Sciences:** Take **PHYS 110 and PHYS 111** to satisfy TU major requirements of PHYS 241 and PHYS 242.
- **Arts and Humanities – Critical and Creative Thinking Core:** Students should take an ethics course to satisfy this requirement (ENGL 207, PHIL 103, or PHIL 203). This is a recommendation but not required. Students may take another course for this Core requirement but are strongly encouraged to complete one of the listed ethics courses.

The following information explains the transfer of students' general education courses:

- TU will recognize the courses in Table 1 (see section 1) as a completed general education program. Students will receive a core package that satisfies most of the TU Core Curriculum without the need for course-

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- **PHYS 120**, which will satisfy the required major elective of GEOL 357. Please note that this course will transfer as GEOL T57. See below regarding lower-level equivalents of upper-level course. **PHYS 121** is recommended but not required to receive credit for GEOL T57.
- **CADD 108**, which will satisfy the required major elective of GEOG 232.

LOWER-LEVEL EQUIVALENTS OF UPPER-LEVEL COURSES

A course number beginning with T indicates that it is a lower-level equivalent of an upper-level TU course. GEOL T57 will satisfy the major elective requirement but will not count toward the TU degree requirement for 32 upper-level units.

This section outlines the degree requirements for students transferring into the Geology major. Refer to section 4 for additional major requirements, recommendations, and university-wide degree requirements.

CORE CURRICULUM REQUIREMENTS: 3 UNITS

Core 9 Advanced Writing Seminar

MAJOR REQUIRED COURSES: 20 UNITS

GEOL 305 Environmental Geology (4 units)

GEOL 321 Structural Geology (4 units)

GEOL 331 Mineralogy (4 units)

GEOL 333 Petrology of Igneous and Metamorphic Rocks (4 units)

GEOL 443 Sedimentology and Stratigraphy (4 units)

MAJOR ELECTIVES: 7-8 UNITS

Students must complete TWO elective courses to satisfy the required electives for the major. Please note that both courses must be Geology (GEOL) courses.

GENERAL ELECTIVES: 29-30 UNITS

The total number of elective units required will be determined by the total units completed within the major. Electives can be additional major electives or courses for personal interests. Students may also consider adding a minor, which usually requires 18-24 units.

BACHELOR'S DEGREE REQUIREMENTS FOR ALL STUDENTS:

- A C (2.0) or higher is required in all major courses and prerequisites.
- A cumulative grade point average (GPA) of 2.0 is required.
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