

HARFORD COMMUNITY COLLEGE – GENERAL STUDIES A.A. DEGREE
TOWSON UNIVERSITY/ GEOLOGY B.S. DEGREE

| HARFORD COMMUNITY COLLEGE | | | TOWSON UNIVERSITY | | | |
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| COURSE # | COURSE TITLE | CRS. | TU EQUIVALENCY | CORE | COMMENTS | COURSE ID# |
| | | | TSEM 102 (waived) | 1. | Towson Seminar | 13192 |
| ENG 101 | ENGLISH COMPOSITION (GE) (grade of C or better) | 3 | ENGL 102 | 2. | English Composition | 2348 |
| MATH 109 OR MATH 203 * | PRE-CALCULUS MATHEMATICS (GM) CALCULUS I (GM) | 4 | MATH 119 MATH 273 | 3. | Mathematics | 4381 4407 |
| CMST 101 | SPEECH FUNDAMENTALS (GI) | 3 | COMM 131 | 4. | Creativity & Creative Development | 13370 |
| GH ** | ARTS & HUMANITIES ELECTIVE (GH) | 3 | DEPENDS ON CHOICE | 5. | Arts & Humanities | |
| GB ** | BEHAVIORAL/SOCIAL SCIENCE ELECTIVE (GB) | 3 | DEPENDS ON CHOICE | 6. | Social & Behavioral Sciences | |
| CHEM 111** | GENERAL CHEMISTRY I (GL) | 4 | CHEM 131/L | 7. | Biological & Physical Science w/Lab | 13097/13098 |
| PHYS 101 OR PHYS 203 and PHYS 200** | INTRODUCTORY PHYSICS I (GL) GEN PHYS: MECHANICS & PARTICLE DYNAMICS (GS) and GENERAL PHYSICS LAB (GL) | 4 | PHYS 211 PHYS 241 | 8. | Biological & Physical Science | 6800 6805 |
| | | | | 9. | Advanced Writing Seminar | |
| GB ** | BEHAVIORAL/SOCIAL SCIENCE ELECTIVE (GB) | 3 | DEPENDS ON CHOICE | 10. | Metropolitan Perspectives | |
| HLTH ELECT ** | HEALTH GENERAL EDUCATION ELECTIVE (GI) | 3 | DEPENDS ON CHOICE | 11. | The United States as a Nation | |
| HIST ELECT ** | HISTORY ELECTIVE (GB) | 3 | DEPENDS ON CHOICE | 12. | Global Perspectives | |
| ENG 102 *** | ENGLISH COMPOSITION AND LITERATURE | 3 | ENGL TLL | 13. | Diversity & Difference | 10267*** |
| GH ** | ARTS & HUMANITIES ELECTIVE (GH) – ETHICS | 3 | DEPENDS ON CHOICE | 14. | Ethical Issues & Perspectives | |
| Total CORE in Transfer | | 39 | | | | |
| ES 105 and ES 106 ** | EARTH SCIENCE (GS) AND EARTH SCIENCE LABORATORY (GL) | 4 | GEOL 121 | | SATISFIES PROGRAM REQUIREMENT AT TU MUST TAKE LAB | 3086 |
| PHYS 102 OR PHYS 204**** | INTRODUCTORY PHYSICS II (GENERAL ELECTIVE) GEN PHYS: VIBRATIONS, WAVES, HEAT, ELECTRICITY & MAGNETISM (GENERAL ELECTIVE) | 4 | PHYS 212 PHYS 242 | | SATISFIES REQUIRED COURSE FOR MAJOR AT TU (See Note) SATISFIES REQUIRED COURSE FOR MAJOR AT TU (See Note) | 6800 6806 |
| CHEM 112**** | GENERAL CHEMISTRY II (GENERAL ELECTIVE) | 4 | CHEM 132/132L | | SATISFIES REQUIRED COURSE FOR MAJOR AT TU (See Note) | 13099/13100 |
| ENV 122**** | INTRO TO SOIL SCIENCE (GENERAL ELECTIVE) | 3 | GEOG T19 (319) | | SATISFIES ELECTIVE COURSE FOR MAJOR AT TU TRANSFERS AS LOWER LEVEL CREDIT (See Note) | 11706 |
| ELECTIVES**** | GENERAL ELECTIVE AS RECOMMENDED BELOW | 5 | DEPENDS ON CHOICE | | SEE NOTE | |
| PHED | PHYSICAL EDUCATION ELECTIVE | 1 | DEPENDS ON CHOICE | | | |
| Program Requirements at HCC | | 21 | | | | |
| Total Program Requirements at HCC | | 60 | | | | |
| Maximum Credits in Transfer | | 64 | | | | |

64 credit transfer maximum. 3 Core Curriculum units must be completed at Towson University: 9. Advanced Writing Seminar

*Calculus is required for major at TU. Students who require MATH 109 should take MATH 203 as a General Elective at HCC. [Students who do not require pre-calculus are recommended to take ENV 220 (Principles of Environmental Analysis I) or GEOG 204 (Intro to Geographic Information Systems) as a general elective at HCC to satisfy an additional program requirement at TU.]

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****General Education Course Selection:**

- Students should take CHEM 111 and PHYS 101 (or PHYS 203 and PHYS 200) to satisfy Biological and Physical Science General Education electives at HCC and major requirements at TU. Either PHYS 101 or PHYS 203 & 200 will satisfy the major requirement at TU. Please note, however, that PHYS 200 must be taken with PHYS 203 to receive credit for PHYS 241 (and satisfy the major requirement) at TU.
- Students must choose a General Education course as their health elective. Students who choose a health course that does not satisfy a general education requirement at HCC may need an additional Core course at TU.
- Students should take PHIL 205 (Ethics) or PHIL 220 (Bioethics) or PHIL 221 (Business Ethics) to satisfy one of the Arts & Humanities General Education electives at HCC and Core 14 at TU.
- One General Education course must be a diversity course (D) at HCC.
- Students should take ES 105 and ES 106 as their General Education elective to satisfy a major requirement at TU. Please note that both lecture (ES 105) and laboratory (ES 106) must be completed to receive credit for GEOL 121 at TU.

***Students should take ENG 102 instead of ENG 109 to satisfy Core requirement at TU. ENG 102 satisfies Core Curriculum requirement at TU for students under this agreement ONLY. Requires Course Directive for Core placement.

******Note: General Elective Selection:**

- All students should take PHYS 102 and CHEM 112 and ENV 122 as general electives at HCC to satisfy major requirements and a major elective at TU.
- Students who require pre-calculus should take MATH 203 (calculus) as a general elective at HCC to satisfy a major requirement at TU.
- Students who did not require pre-calculus and complete MATH 203 as their General Education Mathematics requirement (GM) should take either ENV 220 (Principles of Environmental Analysis I) or GEOG 204 (Introduction to Geographic Information Systems) as a general elective at HCC to satisfy an additional elective course for the major at TU.

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CORE Requirements to be completed at Towson University (3 units):

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|---------|--------------------------|---|
| Core 9: | Advanced Writing Seminar | 3 |
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Program Requirements to be completed at Towson University (35-62 units):

Required Geology Courses (26-31 units):

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| GEOL 123 | Historical Geology | 4 |
| GEOL 305 | Environmental Geology | 4 |
| GEOL 321 | Structural Geology | 4 |
| GEOL 331 | Mineralogy | 4 |
| GEOL 333 | Petrology of Igneous and Metamorphic Rocks | 4 |
| GEOL 443 | Sedimentology and Stratigraphy | 4 |
| GEOL 489 | Introduction to Research | 1 |
| GEOL 495 | Research Problems in Geology | 1-2 |

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| GEOL121 | <i>Physical Geology</i> | 4 |
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If student did not complete ES 105 & ES 106 at HCC

Additional Required Courses (0-16 units):

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| PHYS 211 or | <i>General Physics I (non-Calculus based)</i> | 4 |
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| PHYS 241 | <i>General Physics I (Calculus based)</i> | |
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If student did not take PHYS 101 or PHYS 203 & PHYS 200 at HCC

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| PHYS 212 or | <i>General Physics II (non-Calculus based)</i> | 4 |
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| PHYS 242 | <i>General Physics II (Calculus based)</i> | |
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If student did not take PHYS 102 or PHYS 204 at HCC

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| CHEM 131/L | <i>General Chemistry I/Lab</i> | 4 |
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If student did not take CHEM 111 at HCC

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| CHEM 132/L | <i>General Chemistry II/ Lab</i> | 4 |
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If student did not take CHEM 112 at HCC

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Program Electives**(9 -15 units)**

Three additional courses are required. Students must choose from a list of electives (see current TU catalog). Two courses must be Geology courses (GEOL). Students who do not complete ENV 122 and either ENV 220 or GEOG 204 as electives at HCC may require upto five courses, of which two must be Geology courses (GEOL).

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|------------------------------------------|-----------------------|
| TOTAL UNITS TO B.S. Degree | <u>120-125</u> |
| Harford A.A. Degree | 60 |
| Completion of Core Requirements at TU | 3 |
| Completion of Program Requirements at TU | 35-62 |
| Electives | 0-22 |