

**PROGRAM COURSE CHECKLIST**

## B. S. GEOSCIENCES – GEOLOGY

|   |  | <b>Credits</b> | <b>Semester Taken</b> |
|---|--|----------------|-----------------------|
| <b>Core Block – All</b> courses required (46 - 48 credits total).     |  |                |                       |
| 51.120  | Physical Geology*  | 3              |                       |
| 51.121  | Physical Geology Lab   | 1              |                       |
| 51.130  | Historical Geology*  | 3              |                       |
| 51.131  | Historical Geology Lab   | 1              |                       |
| 51.261  | Mineralogy   | 4              |                       |
| 51.262  | Petrology  | 4              |                       |
| 51.265  | Geomorphology  | 4              |                       |
| 51.360  | Introduction to Paleontology   | 4              |                       |
| 51.368  | Stratigraphy and Sedimentation                                       | 4              |                       |
| 51.369  | Structural Geology   | 4              |                       |
| 51.451  | Field Techniques Earth Science<br>or Equivalent Field Geology Course | 4 - 6          |                       |
| 51.470  | Groundwater Hydrology  | 3              |                       |
| 51.493  | Senior Research in Geosciences                                       | 3              |                       |
| 51.480  | Applied Geophysics⌘  | 4              |                       |
| <b>or</b>   |  |                |                       |
| 51.460  | Aqueous Geochemistry   | 4              |                       |
| <b>Cognate Areas</b> (22 credits total)                               |  |                |                       |
| Mathematics – <b>two</b> courses are required.                        |  |                |                       |
| <b>Choose</b> a maximum of <u>one</u> course from the following:      |  |                |                       |
| 53.123  | Essentials of Calculus*  | 3              |                       |
| 53.125  | Calculus 1*  | 3              |                       |
| <b>Choose</b> a minimum of <u>one</u> course from the following:      |  |                |                       |
| 53.141  | Introduction to Statistics   | 3              |                       |
| 53.126  | Calculus 2   | 3              |                       |
| Chemistry – <b>both</b> courses are required.                         |  |                |                       |
| 52.115  | Chemistry for the Sciences 1*  | 4              |                       |
| 52.116  | Chemistry for the Sciences 2   | 4              |                       |
| Physics – <b>both</b> courses in a series ( <b>two</b> courses total) |  |                |                       |
| 54.111  | Introductory Physics I*  | 4              |                       |
| 54.112  | Introductory Physics II⌘   | 4              |                       |
| <b>or</b>   |  |                |                       |
| 54.211  | General Physics I*   | 4              |                       |
| 54.212  | General Physics II⌘  | 4              |                       |

\*These courses may be used to fulfill General Education requirements.

⌘51.480 may be substituted for the Physics II requirement, in which case 51.480 cannot be used as an elective.

**GENERAL EDUCATION PROGRAM CHECKLIST**

B. S. GEOSCIENCES – GEOLOGY

In addition to meeting major requirements and earning 120 credits, each student must successfully complete courses in the following sections to the University’s General Education Program in order to graduate.

|   |   | Credits | Semester Taken |
|---|---|---------|----------------|
| <b>Specific Course Requirements</b>   |   |         |                |
| <b>Communication (9 credits)</b>  |   |         |                |
| 20.101  | Composition 1                           | 3       |                |
|   |   |         |                |
| <b>Quantitative-Analytical Reasoning (3 credits)</b>                                  |   |         |                |
| 53.xxx  | (Math course 53.123, 53.125, or 53.141) | 3       |                |
| <b>Values, Ethics, and Responsible Decision Making (3 credits)</b>                    |   |         |                |
|   |   | 3       |                |
| <b>Fitness &amp; Recreational Skills (2 credits)</b>                                  |   |         |                |
|   |   | 1       |                |
|   |   | 1       |                |
| <b>Distribution Course Requirements</b>   |   |         |                |
| <b>Group A – Humanities and the Arts (12 credits from three departments)</b>          |   |         |                |
|   |   | 3       |                |
|   |   | 3       |                |
|   |   | 3       |                |
|   |   | 3       |                |
| <b>Group B – Social and Behavioral Sciences (12 credits from three departments)</b>   |   |         |                |
|   |   | 3       |                |
|   |   | 3       |                |
|   |   | 3       |                |
|   |   | 3       |                |
| <b>Group C – Natural Sciences and Mathematics (12 credits from three departments)</b> |   |         |                |
| 51.120  | Physical Geology                        | 3       |                |
| 51.130  | Historical Geology                      | 3       |                |
| 52.115  | Chemistry for the Sciences 1            | 4       |                |
| 54.xxx  | (Physics course)                        | 4       |                |
| <b>Cultural Diversity Requirement (6 credits)</b>                                     |   |         |                |
|   |   | 3       |                |
|   |   | 3       |                |