

Advisor: \_\_\_\_\_

Name: \_\_\_\_\_

Date admitted into Major: \_\_\_\_\_

Transfer credits: \_\_\_\_\_

**BACHELOR OF SCIENCE  
GEOLOGICAL SCIENCES  
GEOLOGY CONCENTRATION**

**GENERAL EDUCATION CORE REQUIREMENTS**

| Competencies  |                       |                      |           |
|---|-----------------------|----------------------|-----------|
| <input type="checkbox"/>  | Basic College Math    |                      |           |
| <input type="checkbox"/>  | Reading Comprehension |                      |           |
| <input type="checkbox"/>  | Computer Literacy     |                      |           |
| ENG   | 101                   | Composition I        | 3 _____   |
| ENG   | 102                   | Composition II       | 3 _____   |
| SPC   | 101                   | (Public Speaking)    | 3 _____   |
| SMS   | _____                 | (Health)             | 3 _____   |
| SMS   | _____                 | (Activity)           | .5 _____  |
| SMS   | _____                 | (Activity)           | .5 _____  |
| Distribution Sequences (18-20 credits)  |                       |                      |           |
| +/*   | _____                 | (Lab Science I)      | 3-4 _____ |
| +/*   | _____                 | (Lab Science II)     | 3-4 _____ |
| HIS   | 101                   | World History I      | 3 _____   |
| HIS   | 102                   | World History II     | 3 _____   |
| _____   | _____                 | (Literature I)       | 3 _____   |
| _____   | _____                 | (Literature II)      | 3 _____   |
| Distribution Electives (15 credits)   |                       |                      |           |
| Among the distribution electives, the student must earn at least 3 but no more than 9 additional semester hours in each of the three divisions. |                       |                      |           |
| Humanities (Division I)   |                       |                      |           |
| _____   | _____                 | _____                | _____     |
| _____   | _____                 | _____                | _____     |
| _____   | _____                 | _____                | _____     |
| Science/Mathematics (Division II)   |                       |                      |           |
| _____   | _____                 | _____                | _____     |
| _____   | _____                 | _____                | _____     |
| _____   | _____                 | _____                | _____     |
| Social Sciences (Division III)  |                       |                      |           |
| _____   | _____                 | _____                | _____     |
| _____   | _____                 | _____                | _____     |
| _____   | _____                 | _____                | _____     |
| (Note: Courses allowable as distribution electives are marked DI, DII, or DIII in the College Catalog.)   |                       |                      |           |
| <b>QUANTITATIVE (Q)</b>   | _____                 | <b>DIVERSITY (V)</b> | _____     |
|   |                       | <b>WRITING (W)</b>   | _____     |

**COURSES IN MAJOR (51-52 credits total)**

| Major Core Courses (31 credits) |     |                                |         |
|---------------------------------|-----|--------------------------------|---------|
| GLS                             | 100 | Physical Geology w/Lab         | 4 _____ |
| GLS                             | 201 | Historical Geology             | 4 _____ |
| GLS                             | 210 | Geomorphology                  | 4 _____ |
| GLS                             | 221 | Mineralogy                     | 4 _____ |
| GLS                             | 322 | Petrology                      | 4 _____ |
| GLS                             | 334 | Sedimentation & Stratigraphy   | 4 _____ |
| GLS                             | 341 | Structural Geology & Tectonics | 4 _____ |
| GLS                             | 353 | Geochemistry                   | 3 _____ |

**Major Concentration Courses (11-12 credits)**

|     |       |                                 |           |
|-----|-------|---------------------------------|-----------|
| GLS | 101   | Field Studies in Earth Science  | 4 _____   |
| GLS | 330   | Paleontology                    | 4 _____   |
| GLS | _____ | Elective numbered 200 and above | 3-4 _____ |

**Major Capstone Courses (9 credits)**

|   |     |     |                               |         |
|---|-----|-----|-------------------------------|---------|
| † | GLS | 470 | Field Geology                 | 3 _____ |
| † | GLS | 485 | Earth Science Study-Field Sem | 3 _____ |
|   | GLS | 500 | Senior Research               | 3 _____ |

**SUPPORT COURSES (12-16 credits total)**

Choose two courses from the following list:

|     |     |             |         |
|-----|-----|-------------|---------|
| MAT | 110 | Precalculus | 3 _____ |
| MAT | 220 | Calculus I  | 4 _____ |
| MAT | 221 | Calculus II | 4 _____ |
| MAT | 247 | Statistics  | 3 _____ |

# And two courses from BIO, CHE, PHS MAT or ‡GGR:

|       |       |       |       |
|-------|-------|-------|-------|
| _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ |

**MINOR/FREE ELECTIVES (4 credits minimum)**

May be necessary to take additional credits to attain the minimum 120 credits required for graduation.

|       |       |       |       |
|-------|-------|-------|-------|
| _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ |

\* These are **required** support courses which may also be used to satisfy the indicated Distribution requirements. A student may choose to fulfill Distribution requirements with courses other than the ones listed, but these listed courses must still be taken.

Note: If a course is used to satisfy two or more requirements, (for example, a support course and a distribution elective), the credits are counted in only one place. Using a course to satisfy more than one requirement does **not** reduce the total credits required for graduation.

+ Science sequence must be chosen from the following list: BIO 121/122, BIO 131/132, BIO 115H/116H, CHE 120/121, CHE 130/131, CHE 130/212, OHS 101A/102A, PHS 211A/212A, PHS 221/222, .

‡ Choose from: GGR 320, 343, or 421

# Acceptable science electives can be substituted with permission of Department Chairperson.

† 6 credits must be earned in any combination of GLS 470/GLS 485.

LEVEL I TO BE COMPLETED IN THE FIRST 30 CREDITS     LEVEL II TO BE COMPLETED IN THE FIRST 53 CREDITS     LEVEL III TO BE COMPLETED BEFORE GRADUATION

Exceptions in the timing of courses will be made for transfer students.

**Total minimum credits for graduation: 120**

Effective: 9/08

Advisor: \_\_\_\_\_

Name: \_\_\_\_\_

Date admitted into Major: \_\_\_\_\_

Transfer credits: \_\_\_\_\_

**BACHELOR OF SCIENCE  
GEOLOGICAL SCIENCES  
EARTH POLICY CONCENTRATION**

**GENERAL EDUCATION CORE REQUIREMENTS**

| Competencies  |                       |                      |  |
|---|-----------------------|----------------------|--|
| <input type="checkbox"/>  | Basic College Math    |                      |  |
| <input type="checkbox"/>  | Reading Comprehension |                      |  |
| <input type="checkbox"/>  | Computer Literacy     |                      |  |
| ENG   | 101                   | Composition I        | 3 _____                                |
| ENG   | 102                   | Composition II       | 3 _____                                |
| SPC   | 101                   | (Public Speaking)    | 3 _____                                |
| SMS   | _____                 | (Health)             | 3 _____                                |
| SMS   | _____                 | (Activity)           | .5 _____                               |
| SMS   | _____                 | (Activity)           | .5 _____                               |
| Distribution Sequences (18-20 credits)  |                       |                      |  |
| +/*   | _____                 | (Lab Science I)      | 3-4 _____                              |
| +/*   | _____                 | (Lab Science II)     | 3-4 _____                              |
| HIS   | 101                   | World History I      | 3 _____                                |
| HIS   | 102                   | World History II     | 3 _____                                |
| _____   | _____                 | (Literature I)       | 3 _____                                |
| _____   | _____                 | (Literature II)      | 3 _____                                |
| Distribution Electives (15 credits)   |                       |                      |  |
| Among the distribution electives, the student must earn at least 3 but no more than 9 additional semester hours in each of the three divisions. |                       |                      |  |
| Humanities (Division I)   |                       |                      |  |
| *   | PHL                   | 224                  | Environmental Ethics 3 _____           |
| _____   | _____                 | _____                | _____                                  |
| _____   | _____                 | _____                | _____                                  |
| Science/Mathematics (Division II)   |                       |                      |  |
| _____   | _____                 | _____                | _____                                  |
| _____   | _____                 | _____                | _____                                  |
| _____   | _____                 | _____                | _____                                  |
| Social Sciences (Division III)  |                       |                      |  |
| *   | ECO                   | 319                  | Env. & Nat. Resource Economics 3 _____ |
| _____   | _____                 | _____                | _____                                  |
| _____   | _____                 | _____                | _____                                  |
| (Note: Courses allowable as distribution electives are marked DI, DII, or DIII in the College Catalog.)   |                       |                      |  |
| <b>QUANTITATIVE (Q)</b>   | _____                 | <b>DIVERSITY (V)</b> | _____                                  |
|   |                       | <b>WRITING (W)</b>   | _____                                  |

**COURSES IN MAJOR (52 credits total)**

**Major Core Courses (31 credits)**

|     |     |                                |         |
|-----|-----|--------------------------------|---------|
| GLS | 100 | Physical Geology w/Lab         | 4 _____ |
| GLS | 201 | Historical Geology             | 4 _____ |
| GLS | 210 | Geomorphology                  | 4 _____ |
| GLS | 221 | Mineralogy                     | 4 _____ |
| GLS | 322 | Petrology                      | 4 _____ |
| GLS | 334 | Sedimentation & Stratigraphy   | 4 _____ |
| GLS | 341 | Structural Geology & Tectonics | 4 _____ |
| GLS | 353 | Geochemistry                   | 3 _____ |

**Major Concentration Courses (9 credits)**

Choose three courses from the following list:

|     |     |                            |         |
|-----|-----|----------------------------|---------|
| GGR | 265 | Land Use Planning          | 3 _____ |
| HIS | 210 | Legal History              | 3 _____ |
| POL | 304 | Environmental Politics     | 3 _____ |
| IDS | 366 | Energy and the Environment | 3 _____ |

**Major Capstone Courses (9 credits)**

|   |     |     |                                       |
|---|-----|-----|---------------------------------------|
| † | GLS | 470 | Field Geology 3 _____                 |
| † | GLS | 485 | Earth Science Study-Field Sem 3 _____ |
|   | GLS | 500 | Senior Research in Geology 3 _____    |

**SUPPORT COURSES (9-12 credits total)**

Choose one course from the following list:

|     |     |             |         |
|-----|-----|-------------|---------|
| MAT | 110 | Precalculus | 3 _____ |
| MAT | 220 | Calculus I  | 4 _____ |
| MAT | 247 | Statistics  | 3 _____ |

# And choose two courses from BIO, CHE, PHS, MAT, or ‡GGR

\_\_\_\_\_

\_\_\_\_\_

**FREE ELECTIVES (Minimum 8 credits total)**

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\* These are **required** support courses which may also be used to satisfy the indicated Distribution requirements. A student may choose to fulfill Distribution requirements with courses other than the ones listed, but these listed courses must still be taken.

Note: If a course is used to satisfy two or more requirements, (for example, a support course and a distribution elective), the credits are counted in only one place. Using a course to satisfy more than one requirement does **not** reduce the total credits required for graduation.

+ Science sequence must be chosen from the following list: BIO 121/122, BIO 131/132, BIO 115H/116H, CHE 120/121, CHE 130/131, CHE 130/212, PHS 101A/102A, PHS 211A/212A, PHS 221/222

† 6 credits must be earned in any combination of GLS 470 or GLS 485.

‡ Acceptable GGR courses include: 320, 343, or 421

# Acceptable science electives can be substituted with permission of Department Chairperson.

LEVEL I TO BE COMPLETED IN THE FIRST 30 CREDITS  LEVEL II TO BE COMPLETED IN THE FIRST 53 CREDITS  LEVEL III TO BE COMPLETED BEFORE GRADUATION

Exceptions in the timing of courses will be made for transfer students.

Advisor: \_\_\_\_\_

Name: \_\_\_\_\_

Date admitted into Major: \_\_\_\_\_

Transfer credits: \_\_\_\_\_

**BACHELOR OF SCIENCE  
GEOLOGICAL SCIENCES  
EARTH RESOURCES CONCENTRATION**

**GENERAL EDUCATION CORE REQUIREMENTS**

| Competencies  |                       |                      |           |
|---|-----------------------|----------------------|-----------|
| <input type="checkbox"/>  | Basic College Math    |                      |           |
| <input type="checkbox"/>  | Reading Comprehension |                      |           |
| <input type="checkbox"/>  | Computer Literacy     |                      |           |
| ENG   | 101                   | Composition I        | 3 _____   |
| ENG   | 102                   | Composition II       | 3 _____   |
| SPC   | 101                   | (Public Speaking)    | 3 _____   |
| SMS   | _____                 | (Health)             | 3 _____   |
| SMS   | _____                 | (Activity)           | .5 _____  |
| SMS   | _____                 | (Activity)           | .5 _____  |
| Distribution Sequences (18-20 credits)  |                       |                      |           |
| +/*   | _____                 | (Lab Science I)      | 3-4 _____ |
| +/*   | _____                 | (Lab Science II)     | 3-4 _____ |
| HIS   | 101                   | World History I      | 3 _____   |
| HIS   | 102                   | World History II     | 3 _____   |
| _____   | _____                 | (Literature I)       | 3 _____   |
| _____   | _____                 | (Literature II)      | 3 _____   |
| Distribution Electives (15 credits)   |                       |                      |           |
| Among the distribution electives, the student must earn at least 3 but no more than 9 additional semester hours in each of the three divisions. |                       |                      |           |
| Humanities (Division I)   |                       |                      |           |
| _____   | _____                 | _____                | _____     |
| _____   | _____                 | _____                | _____     |
| _____   | _____                 | _____                | _____     |
| Science/Mathematics (Division II)   |                       |                      |           |
| _____   | _____                 | _____                | _____     |
| _____   | _____                 | _____                | _____     |
| _____   | _____                 | _____                | _____     |
| Social Sciences (Division III)  |                       |                      |           |
| _____   | _____                 | _____                | _____     |
| _____   | _____                 | _____                | _____     |
| _____   | _____                 | _____                | _____     |
| (Note: Courses allowable as distribution electives are marked DI, DII, or DIII in the College Catalog.)   |                       |                      |           |
| <b>QUANTITATIVE (Q)</b>   | _____                 | <b>DIVERSITY (V)</b> | _____     |
|   |                       | <b>WRITING (W)</b>   | _____     |

**COURSES IN MAJOR (49-50 credits total)**

**Major Core Courses (31 credits)**

|     |     |                                |         |
|-----|-----|--------------------------------|---------|
| GLS | 100 | Physical Geology w/Lab         | 4 _____ |
| GLS | 201 | Historical Geology             | 4 _____ |
| GLS | 210 | Geomorphology                  | 4 _____ |
| GLS | 221 | Mineralogy                     | 4 _____ |
| GLS | 322 | Petrology                      | 4 _____ |
| GLS | 334 | Sedimentation & Stratigraphy   | 4 _____ |
| GLS | 341 | Structural Geology & Tectonics | 4 _____ |
| GLS | 353 | Geochemistry                   | 3 _____ |

**Major Concentration Courses (9-10 credits)**

Choose three courses from the following list:

|     |     |                           |         |
|-----|-----|---------------------------|---------|
| GLS | 222 | Gemology                  | 3 _____ |
| GLS | 231 | Global Geochemical Cycles | 3 _____ |
| GLS | 351 | Economic Geology          | 3 _____ |
| GLS | 356 | Hydrology                 | 4 _____ |
| GLS | 352 | Petroleum Geology         | 3 _____ |
| IDS | 366 | Energy & the Environment  | 3 _____ |

**Major Capstone Courses (9 credits)**

|   |     |     |                               |         |
|---|-----|-----|-------------------------------|---------|
| † | GLS | 470 | Field Geology                 | 3 _____ |
| † | GLS | 485 | Earth Science Study-Field Sem | 3 _____ |
|   | GLS | 500 | Senior Research in Geology    | 3 _____ |

**SUPPORT COURSES (9-12 credits total)**

Choose one course from the following list:

|     |     |             |         |
|-----|-----|-------------|---------|
| MAT | 110 | Precalculus | 3 _____ |
| MAT | 220 | Calculus I  | 4 _____ |
| MAT | 247 | Statistics  | 3 _____ |

# And choose two courses from BIO, CHE, PHS, MAT, or ‡GGR

\_\_\_\_\_

\_\_\_\_\_

**MINOR/FREE ELECTIVES (10 credits minimum)**

May be necessary to take additional credits to attain the minimum 120 credits required for graduation.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Note: If a course is used to satisfy two or more requirements, (for example, a support course and a distribution elective), the credits are counted in only one place. Using a course to satisfy more than one requirement does **not** reduce the total credits required for graduation.

+ Science sequence must be chosen from the following list: BIO 121/122, BIO 131/132, BIO 115H/116H, CHE 120/121, CHE 130/131, CHE 130/212, PHS 101A/102A, PHS 211A/212A, PHS 221/222, .

† 6 credits must be earned in any combination of GLS 470/GLS 485.

‡ Choose from : GGR 320, 343, or 421

# Acceptable science electives can be substituted with permission of Department Chairperson.

LEVEL I TO BE COMPLETED IN THE FIRST 30 CREDITS  LEVEL II TO BE COMPLETED IN THE FIRST 53 CREDITS  LEVEL III TO BE COMPLETED BEFORE GRADUATION

Exceptions in the timing of courses will be made for transfer students.

**Total minimum credits for graduation: 120**

Effective: 9/08

Advisor: \_\_\_\_\_

Name: \_\_\_\_\_

Date admitted into Major: \_\_\_\_\_

Transfer credits: \_\_\_\_\_

**BACHELOR OF SCIENCE  
GEOLOGICAL SCIENCES  
EARTH SCIENCE CONCENTRATION**

**GENERAL EDUCATION CORE REQUIREMENTS**

| Competencies  |                       |                      |                           |                    |       |
|---|-----------------------|----------------------|---------------------------|--------------------|-------|
| <input type="checkbox"/>  | Basic College Math    |                      |                           |                    |       |
| <input type="checkbox"/>  | Reading Comprehension |                      |                           |                    |       |
| <input type="checkbox"/>  | Computer Literacy     |                      |                           |                    |       |
| ENG   | 101                   | Composition I        | 3                         | _____              |       |
| ENG   | 102                   | Composition II       | 3                         | _____              |       |
| SPC   | 101                   | (Public Speaking)    | 3                         | _____              |       |
| SMS   | _____                 | (Health)             | 3                         | _____              |       |
| SMS   | _____                 | (Activity)           | .5                        | _____              |       |
| SMS   | _____                 | (Activity)           | .5                        | _____              |       |
| Distribution Sequences (18-20 credits)  |                       |                      |                           |                    |       |
| *   | GLS                   | 100                  | Physical Geology with Lab | 4 _____            |       |
| *   | GGR                   | 100P                 | Weather and Climate       | 4 _____            |       |
|   | HIS                   | 101                  | World History I           | 3 _____            |       |
|   | HIS                   | 102                  | World History II          | 3 _____            |       |
|   | _____                 | _____                | (Literature I)            | 3 _____            |       |
|   | _____                 | _____                | (Literature II)           | 3 _____            |       |
| Distribution Electives (15 credits)   |                       |                      |                           |                    |       |
| Among the distribution electives, the student must earn at least 3 but no more than 9 additional semester hours in each of the three divisions. |                       |                      |                           |                    |       |
| Humanities (Division I)   |                       |                      |                           |                    |       |
| _____   | _____                 | _____                | _____                     | _____              |       |
| _____   | _____                 | _____                | _____                     | _____              |       |
| _____   | _____                 | _____                | _____                     | _____              |       |
| Science/Mathematics (Division II)   |                       |                      |                           |                    |       |
| _____   | _____                 | _____                | _____                     | _____              |       |
| _____   | _____                 | _____                | _____                     | _____              |       |
| _____   | _____                 | _____                | _____                     | _____              |       |
| Social Sciences (Division III)  |                       |                      |                           |                    |       |
| _____   | _____                 | _____                | _____                     | _____              |       |
| _____   | _____                 | _____                | _____                     | _____              |       |
| _____   | _____                 | _____                | _____                     | _____              |       |
| (Note: Courses allowable as distribution electives are marked DI, DII, or DIII in the College Catalog.)   |                       |                      |                           |                    |       |
| <b>QUANTITATIVE (Q)</b>   | _____                 | <b>DIVERSITY (V)</b> | _____                     | <b>WRITING (W)</b> | _____ |

**COURSES IN MAJOR (48-49 credits total)**

**Major Core Courses (27 credits)**

|     |     |                                   |   |       |
|-----|-----|-----------------------------------|---|-------|
| GLS | 201 | Historical Geology                | 4 | _____ |
| GLS | 210 | Geomorphology                     | 4 | _____ |
| GLS | 221 | Mineralogy                        | 4 | _____ |
| GLS | 322 | Petrology                         | 4 | _____ |
| GLS | 334 | Sedimentation & Stratigraphy      | 4 | _____ |
| GLS | 341 | Structural Geology & Stratigraphy | 4 | _____ |
| GLS | 353 | Geochemistry                      | 3 | _____ |

**Major Concentration Courses (12-13 credits)**

|     |      |                                     |     |       |
|-----|------|-------------------------------------|-----|-------|
| GLS | 120  | Our Geologic Environment            | 3   | _____ |
| GGR | 350P | Meteorology                         | 3   | _____ |
| GLS | 212  | Submarine Geology (3 cr.)           |     | _____ |
|     |      | OR                                  |     |       |
| GGR | 252P | Oceanography (3 cr.)                |     | _____ |
|     |      | OR                                  |     |       |
| BIO | 322  | Biological Oceanography (4 cr.)     | 3-4 | _____ |
| GLS | 115  | Geology of the Solar System (3 cr.) |     | _____ |
|     |      | OR                                  |     |       |
| PHS | 207  | Astronomy (3 cr.)                   | 3   | _____ |

**Major Capstone Courses (9 credits)**

|   |     |     |                           |       |
|---|-----|-----|---------------------------|-------|
| † | GLS | 470 | Field Geology             | _____ |
| † | GLS | 485 | Earth Science Study-Field | _____ |
| † | GLS | 500 | Senior Research           | _____ |

**SUPPORT COURSES (15-20 credits total)**

Choose two courses from the following list:

|     |     |              |   |       |
|-----|-----|--------------|---|-------|
| MAT | 110 | Precalculus  | 3 | _____ |
| MAT | 220 | Calculus I   | 4 | _____ |
| MAT | 221 | Calculus II  | 4 | _____ |
| MAT | 247 | Statistics I | 3 | _____ |

# And choose three courses from BIO, CHE, PHS, MAT, or ‡GGR:

|       |       |       |       |       |
|-------|-------|-------|-------|-------|
| _____ | _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ | _____ |

**FREE ELECTIVES (3 credits minimum)**

|       |       |       |       |       |
|-------|-------|-------|-------|-------|
| _____ | _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ | _____ |

- \* These are **required** support courses which may also be used to satisfy the indicated Distribution requirements. A student may choose to fulfill Distribution requirements with courses other than the ones listed, but these listed courses must still be taken.
- Note: If a course is used to satisfy two or more requirements, (for example, a support course and a distribution elective), the credits are counted in only one place. Using a course to satisfy more than one requirement does **not** reduce the total credits required for graduation.
- † 6 credits must be earned in any combination of GLS 470 or GLS 485.
- ‡ Acceptable GGR courses include: 320, 343, or 421
- # No more than one course of each type without permission of Department Chairperson.

LEVEL I TO BE COMPLETED IN THE FIRST 30 CREDITS     LEVEL II TO BE COMPLETED IN THE FIRST 53 CREDITS     LEVEL III TO BE COMPLETED BEFORE GRADUATION

Exceptions in the timing of courses will be made for transfer students.

Advisor: \_\_\_\_\_

Name: \_\_\_\_\_

Date admitted into Major: \_\_\_\_\_

Transfer credits: \_\_\_\_\_

**BACHELOR OF SCIENCE  
GEOLOGICAL SCIENCES  
ENVIRONMENTAL GEOLOGY CONCENTRATION**

**GENERAL EDUCATION CORE REQUIREMENTS**

| <b>Competencies</b>   |                       |                         |          |
|---|-----------------------|-------------------------|----------|
| <input type="checkbox"/>  | Basic College Math    |                         |          |
| <input type="checkbox"/>  | Reading Comprehension |                         |          |
| <input type="checkbox"/>  | Computer Literacy     |                         |          |
| ENG   | 101                   | Composition I           | 3 _____  |
| ENG   | 102                   | Composition II          | 3 _____  |
| SPC   | 101                   | (Public Speaking)       | 3 _____  |
| SMS   | _____                 | (Health)                | 3 _____  |
| SMS   | _____                 | (Activity)              | .5 _____ |
| SMS   | _____                 | (Activity)              | .5 _____ |
| <b>Distribution Sequences (18-20 credits)</b>   |                       |                         |          |
| +   | _____                 | Lab Science Sequence I  | 4 _____  |
| +   | _____                 | Lab Science Sequence II | 4 _____  |
| HIS   | 101                   | World History I         | 3 _____  |
| HIS   | 102                   | World History II        | 3 _____  |
| _____   | _____                 | (Literature I)          | 3 _____  |
| _____   | _____                 | (Literature II)         | 3 _____  |
| <b>Distribution Electives (15 credits)</b>  |                       |                         |          |
| Among the distribution electives, the student must earn at least 3 but no more than 9 additional semester hours in each of the three divisions. |                       |                         |          |
| <b>Humanities (Division I)</b>  |                       |                         |          |
| _____   | _____                 | _____                   | _____    |
| _____   | _____                 | _____                   | _____    |
| <b>Science/Mathematics (Division II)</b>  |                       |                         |          |
| _____   | _____                 | _____                   | _____    |
| _____   | _____                 | _____                   | _____    |
| <b>Social Sciences (Division III)</b>   |                       |                         |          |
| _____   | _____                 | _____                   | _____    |
| _____   | _____                 | _____                   | _____    |
| _____   | _____                 | _____                   | _____    |
| (Note: Courses allowable as distribution electives are marked DI, DII, or DIII in the College Catalog.)   |                       |                         |          |
| <b>QUANTITATIVE (Q)</b>   | _____                 | <b>DIVERSITY (V)</b>    | _____    |
|   |                       | <b>WRITING (W)</b>      | _____    |

**COURSES IN MAJOR (51-52 credits total)**

**Major Core Courses (31 credits)**

|     |     |                                |         |
|-----|-----|--------------------------------|---------|
| GLS | 100 | Physical Geology               | 4 _____ |
| GLS | 201 | Historical Geology             | 4 _____ |
| GLS | 210 | Geomorphology                  | 4 _____ |
| GLS | 221 | Mineralogy                     | 4 _____ |
| GLS | 322 | Petrology                      | 4 _____ |
| GLS | 334 | Sedimentation & Stratigraphy   | 4 _____ |
| GLS | 341 | Structural Geology & Tectonics | 4 _____ |
| GLS | 353 | Geochemistry                   | 3 _____ |

**Major Concentration Courses (11-12 credits)**

Choose three courses from:

|     |     |                                  |         |
|-----|-----|----------------------------------|---------|
| GLS | 356 | Hydrology                        | 4 _____ |
| GLS | 357 | Environmental Geology            | 3 _____ |
| GLS | 380 | Applied Environmental Geophysics | 4 _____ |
| GLS | 214 | Coastal Geology                  | 4 _____ |

**Major Capstone Courses (9 credits)**

|   |     |     |                          |         |
|---|-----|-----|--------------------------|---------|
| † | GLS | 470 | Field Geology            | _____   |
| † | GLS | 485 | Earth Scienc Study Field | _____   |
|   | GLS | 500 | Senior Res in Geology    | 3 _____ |

**SUPPORT COURSES (12-16 credits total)**

Choose two courses from the following list:

|     |     |             |         |
|-----|-----|-------------|---------|
| MAT | 110 | Precalculus | 3 _____ |
| MAT | 220 | Calculus I  | 4 _____ |
| MAT | 221 | Calculus II | 4 _____ |
| MAT | 247 | Statistics  | 3 _____ |

#And choose two courses from BIO, CHE, PHS, MAT, or ‡GGR:

\_\_\_\_\_

\_\_\_\_\_

**MINOR/FREE ELECTIVES (4 credits minimum)**

May be necessary to take additional credits to attain the minimum 120 credits required for graduation.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Note: If a course is used to satisfy two or more requirements, (for example, a support course and a distribution elective), the credits are counted in only one place.

Using a course to satisfy more than one requirement does **not** reduce the total credits required for graduation.

+ Science sequence must be chosen from the following list: BIO 121/122, BIO 131/131, CHE 120/121, CHE 130/131. CHE 130/212, PHS 101A/102A, PHS 211A/212A, PHS 221/222.

† 6 credits must be earned in any combination of GLS 470/485.

# Acceptable science electives can be substituted with permission of Department Chairperson.

‡ Choose from: GGR 320, 343, or 421.

LEVEL I TO BE COMPLETED IN THE FIRST 30 CREDITS     LEVEL II TO BE COMPLETED IN THE FIRST 53 CREDITS     LEVEL III TO BE COMPLETED BEFORE GRADUATION

Exceptions in the timing of courses will be made for transfer students.

Advisor: \_\_\_\_\_

Name: \_\_\_\_\_

Date admitted into Major: \_\_\_\_\_

Transfer credits: \_\_\_\_\_

**BACHELOR OF SCIENCE  
GEOLOGICAL SCIENCES  
GEOARCHEOLOGY CONCENTRATION**

**GENERAL EDUCATION CORE REQUIREMENTS**

| Competencies  |                       |                   |                                |         |
|---|-----------------------|-------------------|--------------------------------|---------|
| <input type="checkbox"/>  | Basic College Math    |                   |                                |         |
| <input type="checkbox"/>  | Reading Comprehension |                   |                                |         |
| <input type="checkbox"/>  | Computer Literacy     |                   |                                |         |
| ENG   | 101                   | Composition I     | 3                              | _____   |
| ENG   | 102                   | Composition II    | 3                              | _____   |
| SPC   | 101                   | (Public Speaking) | 3                              | _____   |
| SMS   | _____                 | (Health)          | 3                              | _____   |
| SMS   | _____                 | (Activity)        | .5                             | _____   |
| SMS   | _____                 | (Activity)        | .5                             | _____   |
| Distribution Sequences (18-20 credits)  |                       |                   |                                |         |
| +/*   | _____                 | (Lab Science I)   | 3-4                            | _____   |
| +/*   | _____                 | (Lab Science II)  | 3-4                            | _____   |
| HIS   | 101                   | World History I   | 3                              | _____   |
| HIS   | 102                   | World History II  | 3                              | _____   |
| _____   | _____                 | (Literature I)    | 3                              | _____   |
| _____   | _____                 | (Literature II)   | 3                              | _____   |
| Distribution Electives (15 credits)   |                       |                   |                                |         |
| Among the distribution electives, the student must earn at least 3 but no more than 9 additional semester hours in each of the three divisions. |                       |                   |                                |         |
| Humanities (Division I)   |                       |                   |                                |         |
| _____   | _____                 | _____             | _____                          | _____   |
| _____   | _____                 | _____             | _____                          | _____   |
| _____   | _____                 | _____             | _____                          | _____   |
| Science/Mathematics (Division II)   |                       |                   |                                |         |
| *   | MAT                   | 110               | Precalculus                    | 3 _____ |
| *   | MAT                   | 247               | Statistics                     | 3 _____ |
| _____   | _____                 | _____             | _____                          | _____   |
| Social Sciences (Division III)  |                       |                   |                                |         |
| *   | GGR                   | 320               | Geographic Information Systems | 3 _____ |
| _____   | _____                 | _____             | _____                          | _____   |
| _____   | _____                 | _____             | _____                          | _____   |
| (Note: Courses allowable as distribution electives are marked DI, DII, or DIII in the College Catalog.)   |                       |                   |                                |         |
| <b>QUANTITATIVE (Q)</b> _____ <b>DIVERSITY (V)</b> _____ <b>WRITING (W)</b> _____   |                       |                   |                                |         |

**COURSES IN MAJOR (55 credits total)**

**Major Core Courses (31 credits)**

|     |     |                                |   |       |
|-----|-----|--------------------------------|---|-------|
| GLS | 100 | Physical Geology w/Lab         | 4 | _____ |
| GLS | 201 | Historical Geology             | 4 | _____ |
| GLS | 210 | Geomorphology                  | 4 | _____ |
| GLS | 221 | Mineralogy                     | 4 | _____ |
| GLS | 322 | Petrology                      | 4 | _____ |
| GLS | 334 | Sedimentation & Stratigraphy   | 4 | _____ |
| GLS | 341 | Structural Geology & Tectonics | 4 | _____ |
| GLS | 353 | Geochemistry                   | 3 | _____ |

**Major Concentration Courses (11 credits)**

|     |     |                         |   |       |
|-----|-----|-------------------------|---|-------|
| GLS | 235 | Forensic Geology        | 4 | _____ |
| GLS | 235 | Geoarcheology           | 3 | _____ |
| GLS | 380 | Applied Env. Geophysics | 4 | _____ |

**Major Capstone Courses (9 credits)**

|   |     |     |                               |         |
|---|-----|-----|-------------------------------|---------|
| † | GLS | 470 | Field Geology                 | _____   |
| † | GLS | 485 | Earth Science Study-Field Sem | _____   |
|   | GLS | 500 | Senior Research in Geology    | 3 _____ |

**SUPPORT COURSES (9 credits total)**

|     |     |                                  |   |       |
|-----|-----|----------------------------------|---|-------|
| HIS | 376 | Introduction to Archeology       | 3 | _____ |
| HIS | 377 | Architectural History of America | 3 | _____ |
| HIS | 378 | American Material Culture        | 3 | _____ |

**FREE ELECTIVES (12 credits minimum)**

|       |       |       |       |       |
|-------|-------|-------|-------|-------|
| _____ | _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ | _____ |

\* These are **required** support courses which may also be used to satisfy the indicated Distribution requirements. A student may choose to fulfill Distribution requirements with courses other than the ones listed, but these listed courses must still be taken.

Note: If a course is used to satisfy two or more requirements, (for example, a support course and a distribution elective), the credits are counted in only one place. Using a course to satisfy more than one requirement does **not** reduce the total credits required for graduation.

+ Science sequence must be chosen from the following list: BIO 121/122, BIO 131/132, BIO 115H/116H, CHE 120/121, CHE 130/131, CHE 130/212, PHS 101A/102A, PHS 211A/212A, PHS 221/222, .

† 6 credits must be earned in any combination of GLS 470/GLS 485.

LEVEL I TO BE COMPLETED IN THE FIRST 30 CREDITS  LEVEL II TO BE COMPLETED IN THE FIRST 53 CREDITS  LEVEL III TO BE COMPLETED BEFORE GRADUATION

Exceptions in the timing of courses will be made for transfer students.

**Total minimum credits for graduation: 120**

Effective: 9/08

Advisor: \_\_\_\_\_

Name: \_\_\_\_\_

Date admitted into Major: \_\_\_\_\_

Transfer credits: \_\_\_\_\_

**BACHELOR OF SCIENCE  
GEOLOGICAL SCIENCES  
GEOTECHNOLOGY CONCENTRATION**

**GENERAL EDUCATION CORE REQUIREMENTS**

| Competencies  |                       |                      |           |
|---|-----------------------|----------------------|-----------|
| <input type="checkbox"/>  | Basic College Math    |                      |           |
| <input type="checkbox"/>  | Reading Comprehension |                      |           |
| <input type="checkbox"/>  | Computer Literacy     |                      |           |
| ENG   | 101                   | Composition I        | 3 _____   |
| ENG   | 102                   | Composition II       | 3 _____   |
| SPC   | 101                   | (Public Speaking)    | 3 _____   |
| SMS   | _____                 | (Health)             | 3 _____   |
| SMS   | _____                 | (Activity)           | .5 _____  |
| SMS   | _____                 | (Activity)           | .5 _____  |
| Distribution Sequences (18-20 credits)  |                       |                      |           |
| +/*   | _____                 | (Lab Science I)      | 3-4 _____ |
| +/*   | _____                 | (Lab Science II)     | 3-4 _____ |
| HIS   | 101                   | World History I      | 3 _____   |
| HIS   | 102                   | World History II     | 3 _____   |
| _____   | _____                 | (Literature I)       | 3 _____   |
| _____   | _____                 | (Literature II)      | 3 _____   |
| Distribution Electives (15 credits)   |                       |                      |           |
| Among the distribution electives, the student must earn at least 3 but no more than 9 additional semester hours in each of the three divisions. |                       |                      |           |
| Humanities (Division I)   |                       |                      |           |
| _____   | _____                 | _____                | _____     |
| _____   | _____                 | _____                | _____     |
| _____   | _____                 | _____                | _____     |
| Science/Mathematics (Division II)   |                       |                      |           |
| _____   | _____                 | _____                | _____     |
| _____   | _____                 | _____                | _____     |
| _____   | _____                 | _____                | _____     |
| Social Sciences (Division III)  |                       |                      |           |
| _____   | _____                 | _____                | _____     |
| _____   | _____                 | _____                | _____     |
| _____   | _____                 | _____                | _____     |
| (Note: Courses allowable as distribution electives are marked DI, DII, or DIII in the College Catalog.)   |                       |                      |           |
| <b>QUANTITATIVE (Q)</b>   | _____                 | <b>DIVERSITY (V)</b> | _____     |
|   |                       | <b>WRITING (W)</b>   | _____     |

**COURSES IN MAJOR (51-52 credits total)**

**Major Core Courses (31 credits)**

|     |     |                                |         |
|-----|-----|--------------------------------|---------|
| GLS | 100 | Physical Geology w/Lab         | 4 _____ |
| GLS | 201 | Historical Geology             | 4 _____ |
| GLS | 210 | Geomorphology                  | 4 _____ |
| GLS | 221 | Mineralogy                     | 4 _____ |
| GLS | 322 | Petrology                      | 4 _____ |
| GLS | 334 | Sedimentation & Stratigraphy   | 4 _____ |
| GLS | 341 | Structural Geology & Tectonics | 4 _____ |
| GLS | 353 | Geochemistry                   | 3 _____ |

**Major Concentration Courses (11-12 credits)**

Choose three courses from:

|     |     |                                |         |
|-----|-----|--------------------------------|---------|
| GLS | 101 | Field Studies in Earth Science | 4 _____ |
| GLS | 343 | Intro to Geophysics            | 4 _____ |
| GLS | 345 | Geological Engineering         | 3 _____ |
| GLS | 356 | Hydrology                      | 4 _____ |
| GLS | 372 | Surveying I                    | 4 _____ |
| GLS | 373 | Surveying II                   | 4 _____ |
| GLS | 380 | Applied Env. Geophysics        | 4 _____ |

**Major Capstone Courses (9 credits)**

|   |     |     |                               |         |
|---|-----|-----|-------------------------------|---------|
| † | GLS | 470 | Field Geology                 | 3 _____ |
| † | GLS | 485 | Earth Science Study-Field Sem | 3 _____ |
|   | GLS | 500 | Senior Research in Geology    | 3 _____ |

**SUPPORT COURSES (12-16 credits total)**

Choose 2 courses from the following list:

|     |     |             |         |
|-----|-----|-------------|---------|
| MAT | 110 | Precalculus | 3 _____ |
| MAT | 220 | Calculus I  | 4 _____ |
| MAT | 221 | Calculus II | 4 _____ |
| MAT | 247 | Statistics  | 3 _____ |

#And choose two courses from: BIO, CHE, PHS, MAT, or ‡ GGR

\_\_\_\_\_

\_\_\_\_\_

**MINOR/FREE ELECTIVES (4 credits minimum)**

May be necessary to take additional credits to attain the minimum 120 credits required for graduation.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\* These are **required** support courses which may also be used to satisfy the indicated Distribution requirements. A student may choose to fulfill Distribution requirements with courses other than the ones listed, but these listed courses must still be taken.

Note: If a course is used to satisfy two or more requirements, (for example, a support course and a distribution elective), the credits are counted in only one place. Using a course to satisfy more than one requirement does **not** reduce the total credits required for graduation.

+ Science sequence must be chosen from the following list: BIO 121/122, BIO 131/132, BIO 115H/116H, CHE 120/121, CHE 130/131, CHE 130/212, PHS 101A/102A, PHS 211A/212A, PHS 221/222.

† 6 credits must be earned in any combination of GLS 470/GLS 485.

‡ Acceptable GGR courses include: GGR 320, 343, or 421.

# Acceptable science electives can be substituted with permission of Department Chairperson.

LEVEL I TO BE COMPLETED IN THE FIRST 30 CREDITS  LEVEL II TO BE COMPLETED IN THE FIRST 53 CREDITS  LEVEL III TO BE COMPLETED BEFORE GRADUATION

Exceptions in the timing of courses will be made for transfer students.

**Total minimum credits for graduation: 120**

Effective: 9/08

Advisor: \_\_\_\_\_

Name: \_\_\_\_\_

Date admitted into Major: \_\_\_\_\_

Transfer credits: \_\_\_\_\_

**BACHELOR OF SCIENCE  
GEOLOGICAL SCIENCES  
MARINE GEOLOGY CONCENTRATION**

**GENERAL EDUCATION CORE REQUIREMENTS**

| Competencies  |                       |                      |           |
|---|-----------------------|----------------------|-----------|
| <input type="checkbox"/>  | Basic College Math    |                      |           |
| <input type="checkbox"/>  | Reading Comprehension |                      |           |
| <input type="checkbox"/>  | Computer Literacy     |                      |           |
| ENG   | 101                   | Composition I        | 3 _____   |
| ENG   | 102                   | Composition II       | 3 _____   |
| SPC   | 101                   | (Public Speaking)    | 3 _____   |
| SMS   | _____                 | (Health)             | 3 _____   |
| SMS   | _____                 | (Activity)           | .5 _____  |
| SMS   | _____                 | (Activity)           | .5 _____  |
| Distribution Sequences (18-20 credits)  |                       |                      |           |
| +/*   | _____                 | (Lab Science I)      | 3-4 _____ |
| +/*   | _____                 | (Lab Science II)     | 3-4 _____ |
| HIS   | 101                   | World History I      | 3 _____   |
| HIS   | 102                   | World History II     | 3 _____   |
| _____   | _____                 | (Literature I)       | 3 _____   |
| _____   | _____                 | (Literature II)      | 3 _____   |
| Distribution Electives (15 credits)   |                       |                      |           |
| Among the distribution electives, the student must earn at least 3 but no more than 9 additional semester hours in each of the three divisions. |                       |                      |           |
| Humanities (Division I)   |                       |                      |           |
| _____   | _____                 | _____                | _____     |
| _____   | _____                 | _____                | _____     |
| _____   | _____                 | _____                | _____     |
| Science/Mathematics (Division II)   |                       |                      |           |
| _____   | _____                 | _____                | _____     |
| _____   | _____                 | _____                | _____     |
| _____   | _____                 | _____                | _____     |
| Social Sciences (Division III)  |                       |                      |           |
| _____   | _____                 | _____                | _____     |
| _____   | _____                 | _____                | _____     |
| _____   | _____                 | _____                | _____     |
| (Note: Courses allowable as distribution electives are marked DI, DII, or DIII in the College Catalog.)   |                       |                      |           |
| <b>QUANTITATIVE (Q)</b>   | _____                 | <b>DIVERSITY (V)</b> | _____     |
|   |                       | <b>WRITING (W)</b>   | _____     |

**COURSES IN MAJOR (50-51 credits total)**

**Major Core Courses (31 credits)**

|     |     |                                |   |       |
|-----|-----|--------------------------------|---|-------|
| GLS | 100 | Physical Geology w/Lab         | 4 | _____ |
| GLS | 201 | Historical Geology             | 4 | _____ |
| GLS | 210 | Geomorphology                  | 4 | _____ |
| GLS | 221 | Mineralogy                     | 4 | _____ |
| GLS | 322 | Petrology                      | 4 | _____ |
| GLS | 334 | Sedimentation & Stratigraphy   | 4 | _____ |
| GLS | 341 | Structural Geology & Tectonics | 4 | _____ |
| GLS | 353 | Geochemistry                   | 3 | _____ |

**Major Concentration Courses (10-11 credits)**

|     |     |                   |   |       |
|-----|-----|-------------------|---|-------|
| GLS | 212 | Submarine Geology | 3 | _____ |
| GLS | 214 | Coastal Geology   | 4 | _____ |

Choose one course from the following list:

|     |      |                         |     |       |
|-----|------|-------------------------|-----|-------|
| GLS | 330  | Paleontology            | 3-4 | _____ |
|     |      | OR                      |     |       |
| BIO | 322  | Biological Oceanography |     |       |
|     |      | OR                      |     |       |
| GGR | 225P | Oceanography            |     |       |

**Major Capstone Courses (9 credits)**

|   |     |     |                               |         |
|---|-----|-----|-------------------------------|---------|
| † | GLS | 470 | Field Geology                 | _____   |
| † | GLS | 485 | Earth Science Study-Field Sem | _____   |
|   | GLS | 500 | Senior Research in Geology    | 3 _____ |

**SUPPORT COURSES (12-16 credits total)**

Choose two courses from the following list:

|     |     |             |   |       |
|-----|-----|-------------|---|-------|
| MAT | 110 | Precalculus | 3 | _____ |
| MAT | 220 | Calculus I  | 4 | _____ |
| MAT | 221 | Calculus II | 4 | _____ |
| MAT | 247 | Statistics  | 3 | _____ |

#And choose two courses from: BIO, CHE, PHS, MAT, or ‡ GGR

|       |       |       |       |       |
|-------|-------|-------|-------|-------|
| _____ | _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ | _____ |

**FREE ELECTIVES (5 credits minimum)**

|       |       |       |       |       |
|-------|-------|-------|-------|-------|
| _____ | _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ | _____ |

\* These are **required** support courses which may also be used to satisfy the indicated Distribution requirements. A student may choose to fulfill Distribution requirements with courses other than the ones listed, but these listed courses must still be taken.

Note: If a course is used to satisfy two or more requirements, (for example, a support course and a distribution elective), the credits are counted in only one place. Using a course to satisfy more than one requirement does **not** reduce the total credits required for graduation.

+ Science sequence must be chosen from the following list: BIO 121/122, BIO 131/131, CHE 120/121, CHE 130/131. CHE 130/212, PHS 101A/102A, PHS 211A/212A, PHS 221/222.

† 6 credits must be earned in any combination of GLS 470/485.

‡ Choose from: GGR 320, 343, or 421.

# Acceptable science electives can be substituted with permission of Department Chairperson.

LEVEL I TO BE COMPLETED IN THE FIRST 30 CREDITS  LEVEL II TO BE COMPLETED IN THE FIRST 53 CREDITS  LEVEL III TO BE COMPLETED BEFORE GRADUATION

Exceptions in the timing of courses will be made for transfer students.