Applicant’s Name: **Geology Major**

**FUNDAMENTAL SCIENCE** (Total 9)

**SECTION 1A: SPECIFIED SCIENCE (3 required):**
- 2010-F-1a Elementary Calculus I $^{249^e}$
- 2010-F-2a General Physics I $^{221^e}$
- 2010-F-3a General Chemistry I $^{201^e}$

**SECTION 1B: ADDITIONAL SCIENCE (6 required)**
- Choose 2 of blue (or choices in UofC Calendar):
  - 2010-F-1b Elementary Calculus II $^{267^e}$
  - 2010-F-2b General Physics II $^{223}$
  - 2010-F-3b General Chemistry II $^{203^e}$
  - 2010-F-4 Diff. Eqns & Transforms $^{311^e}$
  - 2010-F-5 Lin. Algebra. & Vector Anal. $^{211^e}$
  - 2010-F-6 Computing & Numerical Anal. $^{217^e}$
- 2010-F-7 Thermodynamics (Chem 371)
- 2010-F-8 Biology (205, 241 or 243)

Any advanced university courses in mathematics, physics, chemistry, statistics, computing or biology for science majors can fulfill requirements in additional science. There is a maximum of two credits in any subject in Section 1B, e.g., two biology, two computer science, etc.

**GEOSCIENCE** (Total 18 subjects at the second year level or higher; must satisfy A, B, and C requirements; and $A + B + C = 18$)

Extra: GLGY 201, 202

**SECTION 2A: REQUIRED FOUNDATION GEOSCIENCE (ALL 4 required):**
- 2010-G-1 Mineralogy & Crystallography 313
- 2010-G-2 Stratigraphy & Sedimentation 381
- 2010-G-6 Structural Geology 343
- Field Practice (no APEGGA examination offered) 337

**SECTION 2B: ADDITIONAL FOUNDATION GEOSCIENCE: (5 required; must satisfy one column, with minimum one, maximum two from each of the three sub-groups; credit extras in Section 2C):**

<table>
<thead>
<tr>
<th>EITHER: Geology</th>
<th>OR: Environmental Geoscience</th>
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<tbody>
<tr>
<td>2010-G-3 Igneous Petrology 333</td>
<td>2010-G-11 Hydrology or Hydrogeology (401)</td>
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<tr>
<td>2010-G-4 Sedimentary Petrology _____</td>
<td>2010-G-23 Principles of Geotechnics (571) (Engineering Geology)</td>
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<tr>
<td>2010-G-5 Metamorphic Petrology (431 or 433)</td>
<td>2010-G-7 Geochemistry 323</td>
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<tr>
<td>2010-G-7 Geochemistry 323</td>
<td>2010-G-8 Geophysics 351</td>
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<tr>
<td>2010-G-8 Geophysics 351</td>
<td>2010-G-9 Geomorphology (or G-10 Glacial) 353</td>
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<tr>
<td>2010-G-9 Geomorphology (or G-10 Glacial) 353</td>
<td>2010-G-20 Advanced Sedimentology (463 or 483)</td>
</tr>
<tr>
<td>2010-G-20 Advanced Sedimentology (463 or 483)</td>
<td>2010-G-10 Glacial &amp; Quaternary (Geog 507)</td>
</tr>
</tbody>
</table>

**SECTION 2C: OTHER GEOSCIENCE** (Additional 9 subjects required, at second year level or higher, with a minimum of 7 in geosciences and a maximum of 2 in other science, e.g. biology; each slot a HCE)

1. GLGY 445  
2. GLGY 493  
3. Geoscience Option  
4. Geoscience Option  
5. Geoscience Option  
6. Geoscience Option  
7. Geoscience Option  
8. Science or Geoscience Option  
9. Science or Geoscience Option  

**Revised December 2014; minor update Feb 2019**

Red are UofC requirements, blue are choices. "Geoscience Option"s include GEOG 333, 411, 507; all courses labeled GLGY excluding 201, 202, 209, 301, 305, 307, 309, 317, 377, 415, 471; all courses labeled GOPH excluding 365, 375. 3rd & 4th year GLGY & GOPH field schools and directed studies courses such as 509, 510, 599 are counted in Section 2C.