GENERAL REQUIREMENTS FOR STUDENTS MATRICULATING IN ACADEMIC YEAR: 2016-2017

DEGREE:  BACHELOR OF SCIENCE

MAJOR:  GEOLOGY

MINIMUM CUMULATIVE GRADE POINT AVERAGE: 2.0  MINIMUM MAJOR GRADE POINT AVERAGE: 2.0

TOTAL CREDITS: 120

**Core Curriculum Requirements**

<table>
<thead>
<tr>
<th>Area</th>
<th>Credits</th>
<th>To Be Selected From</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Year Writing</td>
<td>4</td>
<td>ENGL 1010 or Equivalent</td>
</tr>
<tr>
<td>TIDES – 1 course in fall semester</td>
<td>1-1.5</td>
<td></td>
</tr>
<tr>
<td>Foreign Language – Competence at 1020-Level</td>
<td>3-8</td>
<td>Arabic, Chinese, French, German, Greek, Hebrew, Italian, Japanese, Latin, Portuguese, Russian, or Spanish</td>
</tr>
<tr>
<td>(1-2 courses depending on placement and language)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cultural Knowledge – 1 Humanities</td>
<td>6</td>
<td>Courses designated Humanities and Fine Arts</td>
</tr>
<tr>
<td>1 Fine Arts</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cultural Knowledge – Social Science</td>
<td>6</td>
<td>Courses designated Social Science</td>
</tr>
<tr>
<td>Quantitative Reasoning 2 Math courses</td>
<td>8</td>
<td>MATH 1210 and 1220 or equivalent</td>
</tr>
<tr>
<td>Scientific Inquiry – 1 Lab Science</td>
<td>7-8</td>
<td>Courses from departments designated Science and Math</td>
</tr>
<tr>
<td>1 Science or Math</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Writing Intensive</td>
<td>4</td>
<td>Consult Major</td>
</tr>
<tr>
<td>Public Service – 1st Tier</td>
<td>1000-3000-Level</td>
<td>3000-Level or above</td>
</tr>
<tr>
<td>2nd Tier</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Western Traditions</td>
<td>3</td>
<td>Refer to Undergraduate Core Curriculum Guide</td>
</tr>
<tr>
<td>Outside Western Traditions Or Comparative Cultures Intl. Perspectives</td>
<td>3</td>
<td>Refer to Undergraduate Core Curriculum Guide</td>
</tr>
</tbody>
</table>

**Major Requirements**

- **Earth & Environmental Sciences Required Courses**
  - EENS 1110, 1115
  - EENS 1220, 1225
  - EENS 2110*
  - EENS 2120
  - EENS 3270
  - EENS 3410
  - EENS 3990
  - EENS 4090

- **Mathematics Required Courses**
  - MATH 1210**
  - MATH 1220 or MATH 1310

- **Chemistry Required Courses**
  - CHEM 1070, 1075
  - CHEM 1080, 1085

- **Physics Required Courses**
  - PHYS 1210 or 1310
  - PHYS 1220 or 1320

- **Earth & Environmental Sciences Electives** – 2 courses with accompanying labs
  - Must be 4000-level course, with lab if schedule. COLO 4120 (Grand Canyon Colloquium) is also an option.

- **Chemical Engineering Electives**
  - Must be 4000-level course, with lab if schedule. COLO 4120 (Grand Canyon Colloquium) is also an option.

- **CRDV 1090 – Majors, Internships, and Jobs – (1 credit)**
  - This course is not a requirement for this major! It is an option for students who are interested in career development.
  - Through this course students develop the necessary tools, skills, and resources to become career ready, learning what it takes to be an excellent candidate in today’s competitive job market. While taking CRDV 1090 students will create and refine professional documents, explore careers, conduct job/internship searches, develop networking and interviewing skills, and learn to utilize professional social media in order to network more effectively. Students will learn about the job/internship search process and know how to actively use this information in the real world. Students will have the unique opportunity to take personality and strength assessments in order to learn about their talents, interests, and preferred work environments. Students participate in a Mock Interview event with professionals from New Orleans.

**This Information is for Students Pursuing a Minor in – GEOLOGY – REQUIREMENTS: five courses**

- **EENS 1110/1115, 2110**
- **One additional 2000-Level course**
- **Two courses above the 3000-Level**

---

- The Degree Plan and other information provided in this booklet serve only as advising tools. Newcomb-Tulane College advisors will help advise you on the core-curriculum, decide on a major, and consult on any academic success issues.
- Your major advisors will advise you on major requirements.
- Students with multiple majors will have more than one advisor and will need to consult with the appropriate advisor.
- Minors are not assigned an advisor, but a faculty member in the department is designated to advise minors.
- Become familiar with your major! By declaring early, you have access to a major advisor, are able to enroll in “majors only” classes, and are included in list serves that allow you to receive information about events, internships, and other opportunities.
- Pre-med and Pre-law students should also consult with the health professions advisor or the pre-law advisor.
What Can I Do with a Major in...
Geology

GENERAL INFORMATION
• As an undergraduate, seek experiences such as research projects, volunteering with professors, summer jobs or internships.
• Learn to work independently and as part of a team.
• Develop the ability to communicate clearly.
• Gain competencies in computers and mathematics.
• Read scientific journals and join related professional and environmental organizations.
• Become familiar with your state's testing and licensing requirements and prepare accordingly.
• Obtain a business background to help in managing projects and assessing economic costs and benefits.
• Have a love of outdoors, an interest in nature and a desire to travel.

SKILLS
• Ability to conduct and clearly explain scientific research
• Ability to make appropriate decisions and solve quantitative problems
• Ability to work with people from varied backgrounds
• Intellectual capacity to perform well in college
• Physical stamina, good vision, and manual dexterity
• Proficiency in reading, writing and memorization
• Thorough knowledge of geological principles and mathematics

CAREER AREAS

ENVIRONMENTAL
• Surveying
• Geologic Mapping
• Astrogeology
• Space Sciences
• Natural Disaster Recovery
• Astronomy
• Geography
• Hydrology
• Oceanography

EDUCATION
• Teaching
• Research
• Administration
• Curatorship

ENERGY
• Geophysics
• Structural Geology
• Paleontology
• Mining Geology
• Mineralogy
• Sedimentology
• Sales

EMPLOYERS
• Federal and state government agencies
• Private research foundations
• Manufacturers
• Survey companies
• Oil companies
• Research firms

• Public and private elementary, middle and high schools
• Two-year community colleges/technical institutes
• Four-year institutions
• Museums

• Mining companies
• Consulting firms
• Federal government agencies
• Natural resource companies (coal, quarries)
• Drilling companies
• Railroad companies
• Petroleum industry, including oil and gas exploration, production and refining
• State government
• Equipment suppliers

If you think you might be interested in this major, but you are not absolutely sure, an exploratory advisor can help you explore major and career options, please go to: Explore.Tulane.edu

If you are interested in information about Law Professions, please go to: LawProfessions.Tulane.edu

If you are interested in information about Health Professions, please go to: HealthProfessions.Tulane.edu
What Can I Do with a Major in...
Geology

OTHER PROFESSIONAL OPPORTUNITIES
- Sales/Marketing
- Technical Writing
- Scientific Journalism
- Scientific Illustration
- Regulatory Affairs
- Administration/Management
- Intellectual Property/Patent Law

- Biotechnology industry
- Pharmaceutical and chemical companies
- Publishers: textbook, magazine, newspaper, book
- Software firms
- Regulatory agencies
- Law firms
- Legal departments of corporations

PROFESSIONAL ORGANIZATIONS
American Association for the Advancement of Science
www.aaas.org

American Geosciences Institute
www.agiweb.org

American Geophysical Union
www.agu.org

American Institute of Professional Geologists
www.aipg.org

Association for Women Geoscientists
www.awg.org

Association for American State Geologists
www.stategeologists.org

Geo Science Information Society
www.geoinfo.org

Geological Society of America
www.geosociety.org

National Association of Geoscience Teachers
www.nagt.org

National Association of State Boards of Geology
www.asbog.org

Society of Exploration Geophysicists
www.seg.org

RELATED WEBSITES & ASSOCIATIONS
American Geophysical Union
www.agu.org

Job Opportunities in Geology
www.earthworks-jobs.com

US Geological Survey Website
www.usgs.gov

Louisiana Geological Survey
www.lgs.lsu.edu

Science Careers
sciencecareers.sciencemag.org

Nature Jobs
www.nature.com/naturejobs

Museum of the Earth
www.museumoftheearth.org

For Jobs, internships, resume assistance, interviews, and self-assessments, please go to:

Tulane University is committed to your academic success and provide several services to assist.