



**SILLIMAN UNIVERSITY
DUMAGUETE CITY**

School/College: College of Arts and Sciences
Program Name: Bachelor of Science in Geology
 (Per CMO No. 35 s. 2008)

FIRST YEAR

| First Semester | | | | | | Second Semester | | | | | |
|----------------|-----------------------------------|-----|-----|-----------|---------------------|-----------------|-----------------------------------|-----|-----|-----------|----------|
| Subjects | Course Title | Lec | Lab | Units | Pre-req. | Subjects | Course Title | Lec | Lab | Units | Pre-req. |
| GE 1 | Understanding the Self | 3 | | 3 | | GE 6 | Art Appreciation | 3 | | 3 | |
| GE 2 | Reading in the Philippine History | 3 | | 3 | | GE 7 | Science, Technology and Society | 3 | | 3 | |
| GE 3 | The Contemporary World | 3 | | 3 | | GE 8 | Ethics | 3 | | 3 | |
| GE 4 | Mathematics in the Modern World | 3 | | 3 | | GE 9 | The Life and Works of Jose Rizal | 3 | | 3 | |
| GE 5 | Purposive Communication | 3 | | 3 | | GE 10 | Whole Person Education | 3 | | 3 | |
| Math 23 | Calculus 1 | 5 | | 5 | Pre-Cal & Basic Cal | Math 24 | Calculus 2 | 5 | | 5 | Math 23 |
| NSTP 1 | National Service Training Program | 3 | | 3 | | NSTP 2 | National Service Training Program | 3 | | 3 | |
| PE 1 | Physical Fitness & Swimming | 2 | | 2 | | PE 2 | Physical Education | 2 | | 2 | PE 1 |
| PEP 1 | Personal Enhancement Program | NC | | NC | | PEP 2 | Personal Enhancement Program | NC | | NC | PEP 1 |
| | Total | | | 25 | | | Total | | | 25 | |

SECOND YEAR

| First Semester | | | | | | Second Semester | | | | | |
|----------------|--|-----|-----|-----------|----------------|-----------------|---|-----|-----|-----------|------------------------|
| Subjects | Course Title | Lec | Lab | Units | Pre-req. | Subjects | Course Title | Lec | Lab | Units | Pre-req. |
| CHS 1 | Reading and Interpreting Hebrew Scriptures | 3 | | 3 | | Chem 18 | Analytical Chemistry | 3 | 2 | 5 | |
| Draw 11 | Engineering Drawing | | 1 | 1 | | CHS 2 | Reading and Interpreting Christian Scriptures | 3 | | 3 | CHS 1 |
| Geo 21 | Principles of Geology | 2 | 1 | 3 | | Geo 22 | Principles of Geomorphology | 3 | 1 | 4 | |
| Geo 23 | Mineralogy | 3 | | 3 | | Geo 24 | Sedimentology | 2 | 1 | 3 | |
| Math 31 | Calculus 3 | 5 | | 5 | Math 24 | Phys 2 | Electricity, Optics & Modern Physics | 3 | 1 | 4 | Phys 1 |
| Phys 1 | Mechanics, Acoustic & Thermodynamics | 3 | 1 | 4 | Calculus 1 & 2 | Phys 13 | Optics | 4 | 1 | 5 | SHS Phys 2, Basic Cal. |
| Bio 15 | General Biology with Emphasis in Ecology | 3 | 1 | 4 | | PE 4 | Physical Education | 2 | | 2 | PE 3 |
| PE 3 | Physical Education | 2 | | 2 | PE 2 | | Total | | | 26 | |
| | Total | | | 25 | | | | | | | |

THIRD YEAR

| First Semester | | | | | | Second Semester | | | | | |
|----------------|----------------------------------|-----|-----|-----------|-------------------------|-----------------|---|-----|-----|-----------|----------------|
| Subjects | Course Title | Lec | Lab | Units | Pre-req. | Subjects | Course Title | Lec | Lab | Units | Pre-req. |
| CE 21 | Surveying Method | 2 | 1 | 3 | Draw 11 | Geo 28 | Paleontology | 2 | 1 | 3 | |
| CHS 3 | Christianity and Peace-Building | 3 | | 3 | CHS 2 | Geo 30 | Petrography | 3 | | 3 | Geo 31, Geo 37 |
| Geo 31 | Petrology | 2 | 1 | 3 | Geo 21, 23 | GE 11 | Free Elective | 3 | | 3 | |
| Geo 33 | Structural Geology and Tectonics | 2 | 1 | 3 | Geo 22 | Geo 32 | Geochemistry | 2 | 1 | 3 | |
| Geo 35 | Geostatistics | 3 | | 3 | Math 31, Geo 24 | Geo 34 | Geology of the Phil. and Southeast Asia | 3 | | 3 | Geo 37 |
| Geo 37 | Optical Mineralogy | 3 | 1 | 4 | Phys 1, Phys 2, Phys 13 | Geo 36 | Stratigraphy and Historical Geology | 3 | | 3 | CE 21, Geo 31 |
| Phys 32 | Materials Science | 3 | | 3 | | Geo 38 | Applied Engineering Geology | 3 | | 3 | Geo 37 |
| | Total | | | 22 | | Phys 31A | Fluid Mechanics | 3 | | 3 | |
| | | | | | | | Total | | | 24 | |

SUMMER

| Subjects | Course Title | Lec | Lab | Units | Pre-req. |
|----------|---------------|-----|-----|-------|----------|
| Geo 40 | Field Geology | 3 | | 3 | |

FOURTH YEAR

| First Semester | | | | | | Second Semester | | | | | |
|----------------|--|-----|-----|-----------|-----------------|-----------------|--|-----|-----|-----------|------------|
| Subjects | Course Title | Lec | Lab | Units | Pre-req. | Subjects | Course Title | Lec | Lab | Units | Pre-req. |
| Geo 41 | Resource Geology | 3 | | 3 | Geo 24, 30 | Geo 42 | Environmental and Mining Laws | 3 | | 3 | Geo 45 |
| Geo 43 | Principles of Seismology and Volcanology | 3 | | 3 | Geo 24, 31 | Geo 44 | Computer Methods in Geology | 2 | 1 | 3 | Geo 24 |
| Geo 45 | Environmental Geology | 3 | | 3 | Geo 30 | Geo 46 | Non-metalliferous and Metalliferous Ore Deposits | 3 | | 3 | Geo 30, 43 |
| Geo 47/ Phys 6 | Geophysics | 4 | 1 | 5 | | Geo 48 | Seminar in Geology | 3 | | 3 | Geo 28, 43 |
| Geo 49 | Thesis Writing 1 | 1 | 2 | 3 | Senior Standing | Geo 50 | Thesis Writing 2 | 1 | 2 | 3 | Geo 49 |
| | Total | | | 17 | | | Total | | | 15 | |

| SUMMARY | |
|--------------------------------|-------------|
| GE Courses | 33 |
| Required Geology Courses | 48 |
| Electives | 31 |
| Other Science and Math Courses | 37 |
| Required Non-Geology Courses | 4 |
| Thesis Writing | 6 |
| Total | 159* |

*Excluding Christian Studies, Physical Education and National Service Training Program

Admission Requirements

1. For Senior High School STEAM graduates, no grade below 85 in Math, Physics and Chemistry.
2. For NON-STEAM graduates, General Average must not below 85 and should take and pass the Enhancement or Augmentation Subjects as follows:

| Enhancement (For OFF-TRACK Senior High graduate) | | | | |
|--|------------------------|-----|-----|-------|
| Subjects | Course Title | Lec | Lab | Units |
| Chem 13 | Augmentation Chemistry | 3 | 2 | 5 |
| Math 00 | Math Augmentation | 5 | | 5 |
| Phys 00 | Physics Augmentation | 5 | 1 | 6 |

3. For graduates of engineering and science major degrees, no grade below 85 or its equivalent in all their major subjects.

Note: To remain in the program, the continuing student must not have a grade below 2.5 in Physics, Math and Major subjects.