

**Crafton Hills College**  
**Associate of Science**  
**GEOLOGY (GEOL)**  
**2015-2016**

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

ID #: \_\_\_\_\_

Date: \_\_\_\_\_

Counselor: \_\_\_\_\_

The Geology program at Crafton Hills College introduces students to the primary processes, concepts, and theories that pertain to the geological sciences and related fields relevant to geology.

**To complete the requirements for the Associate of Science for this degree\*, a student must:**

1. Complete the requirements for an associate degree.
2. **Complete a minimum of thirty-two (32) units with a "C" or better in each course** in the following program.
3. Complete elective units to meet the minimum 60 units required for the associate degree.

| <b>Required Courses:</b>   |   | <b>Units</b> | <b>IP</b> | <b>Need</b> | <b>Grade</b> |
|--|---|--------------|-----------|-------------|--------------|
| GEOL 100 or 100H<br><b>OR</b> GEOL 160 and<br>GEOL 101 or 101H                                 | Physical Geology or<br>Geology Laboratory and Introduction to Geology | 4            |           |             |              |
| GEOL 112   | Historical Geology  | 4            |           |             |              |
| CHEM 150 or 150H   | General Chemistry I   | 5            |           |             |              |
| CHEM 151 or 151H   | General Chemistry II  | 5            |           |             |              |
| MATH 250   | Single Variable Calculus I  | 4            |           |             |              |
| MATH 251   | Single Variable Calculus II   | 4            |           |             |              |
| PHYSIC 250*  | College Physics I   | 4            |           |             |              |
| <i>*Students may substitute PHYSIC 200 in lieu of PHYSIC 250. See a Counselor for details.</i> |   |              |           |             |              |
| <b>Total Required Units:</b>   |   | <b>30</b>    |           |             |              |

| <b>Complete at least two (2) additional units from the following courses:</b> |   | <b>Units</b> | <b>IP</b> | <b>Need</b> | <b>Grade</b> |
|---|---|--------------|-----------|-------------|--------------|
| GEOL 170  | Geologic History of the Great Basin                         | 1            |           |             |              |
| GEOL 175  | Geology of the Eastern Mojave Desert Region                 | 1            |           |             |              |
| GEOL 177  | Geology of the High Desert and Western Mojave Desert Region | 1            |           |             |              |
| GEOL 180  | Geology of Joshua Tree National Park                        | 1            |           |             |              |
| GEOL 181  | Geology of the Anza Borrego Region                          | 1            |           |             |              |
| GEOL 190  | Geology of the Eastern Sierra Nevada, Northern Section      | 1            |           |             |              |
| GEOL 270  | Geology of the Eastern Sierra Nevada                        | 1            |           |             |              |
| <b>Total Additional Units:</b>  |   | <b>2</b>     |           |             |              |

|   |  |           |  |  |  |
|---|--|-----------|--|--|--|
| <b>Total Required and Additional Units:</b> |  | <b>32</b> |  |  |  |
|---|--|-----------|--|--|--|

| <b>Recommended Courses:</b> |  | <b>Units</b> | <b>IP</b> | <b>Need</b> | <b>Grade</b> |
|-----------------------------|--|--------------|-----------|-------------|--------------|
| GEOL 170                    | Geologic History of the Great Basin                    | 1            |           |             |              |
| GEOL 175                    | Geology of the Eastern Mojave Desert                   | 1            |           |             |              |
| GEOL 180                    | Geology of Joshua Tree National Park                   | 1            |           |             |              |
| GEOL 181                    | Geology of the Anza Borrego Region                     | 1            |           |             |              |
| GEOL 190                    | Geology of the Eastern Sierra Nevada, Northern Section | 1            |           |             |              |
| GEOL 250                    | Geology of California                                  | 3            |           |             |              |
| GEOL 251                    | Geology of National Parks and Monuments                | 3            |           |             |              |
| GEOL 270                    | Geology of the Eastern Sierra Nevada                   | 1            |           |             |              |
| GIS 175                     | Introduction to Information Mapping                    | 3            |           |             |              |
| OCEAN 101                   | Elements of Oceanography                               | 3            |           |             |              |
| PHYSIC 251                  | College Physics II                                     | 4            |           |             |              |
| PHYSIC 252                  | College Physics III                                    | 4            |           |             |              |
| <b>Recommended Units:</b>   |  |              |           |             |              |

A student receiving a degree in this field will be able to:

- Demonstrate an understanding of the types of plate tectonic boundaries and the typical features associated with those boundaries, such as volcanoes and earthquakes
- Utilize critical thinking skills to interpret, apply and/or evaluate an Earth Science topic, such as the concept of scale
- Students will be able to collect, analyze and interpret information and clearly articulate the results through their writing, speech or other acceptable style of presentation
- Display knowledge in the basic areas of Earth Science that are appropriate to each Earth Science course

*\*Lower division requirements for students interested in transferring to a four-year institution in this field may differ from Associate degree requirements. Prospective students should complete the general education and lower division requirements of the school to which they will be transferring. See a counselor for details. Information is also available at [www.assist.org](http://www.assist.org).*