

# [Physical geology] Syllabus

[Semester1 2018-2019]

## Instructor Information

Instructor: Prof. Amer Ali Ghabra      Email: [9amer.gh@gmail.com](mailto:9amer.gh@gmail.com)

## Office Location & Hours

- lab of the geology and exploration, 10-14, Saturday
- lab of the geology and exploration, 17-19, Sunday.

## General Information

### Description

- The course discusses the following topics: The Earth in the universe, the movement of continents and plate tectonic, the deforming of the continental crust, and the forming of the folds and faults, the earthquakes, the volcanic event, the geological act of the: wind, running water, seas, lakes, swamps, groundwater, and glacial.

### Expectations and Goals

The course aims to make the students have knowledge about the :

- 1- Galaxies, solar system, asteroids, comets, meteoroids.
- 2- The movement of the continents and the theory of the plate tectonic.
- 3- The earthquakes and the volcanic event.
- 4- the geological act of the: wind, running water, seas, lakes, swamps, groundwater, and glacial

Language(s) of Instruction: Arabic

Textbook(s) Language(s): Arabic and English.

## Course Materials

The main reference book: Ghabra. Amer Ali. 2009. The general geology (in Arabic). Damascus university, the Faculty of Sciences.

Additional reference: Edward J, Tarbuck; and Frederick K. Lutgens. 2006. Earth Science. New Jersey.

|    | Week       | Topic   | Reading                      | Exercises |
|----|------------|---|------------------------------|-----------|
| 1  | 23/9/2018  | The universe, galaxies, and the solar system  | The general geology( Ch.1 )  |           |
| 2  | /9/201830  | The asteroids, comets, meteoroids, and the hypotheses of the origin of the solar system | The general geology( Ch.1 )  |           |
| 3  | 7/10/2018  | Hypothesis of the movement of the continents, Pangaea departing stages                  |                              |           |
| 4  | 14/10/2018 | The theory of the plate tectonic  |                              |           |
| 5  | /10/201821 | The sedimentary stratum and the folds and faults.                                       | The general geology( Ch.8 )  |           |
| 6  | 28/10/2018 | The earthquakes.  | The general geology( Ch.9 )  |           |
| 7  | 4/11/2018  | The volcanic event  | The general geology( Ch.10 ) |           |
| 8  | 11/11/2018 | The geological act of the seas,   | The general geology( Ch.14 ) |           |
| 9  | 18/11/2018 | The geological act of the lakes, and swamps.  | The general geology( Ch.14 ) |           |
| 10 | 25/11/2018 | The geological act of the running water   | The general geology( Ch.13 ) |           |
| 11 | 2/12/2018  | The geological act of the running water( continuing )                                   | The general geology( Ch.13 ) |           |

|    | Week       | Topic                                  | Reading                      | Exercises |
|----|------------|--|------------------------------|-----------|
| 12 | 9/12/2018  | The geological act of the ground water | The general geology( Ch.15 ) |           |
| 13 | 16/12/2018 | The geological act of the wind         | The general geology( Ch.12 ) |           |
| 14 | 23/12/2018 | The deserts                            | The general geology( Ch.12 ) |           |
| 15 | 30/12/2018 | The geological act of the glacial      | The general geology( Ch.16 ) |           |

### Testing Schedule

| test   | Date       | Reading     | Type    | language | % of final grade |
|--------|------------|-------------|---------|----------|------------------|
| Quiz 1 | 29/10/2018 | Topics 1-6  | written | Arabic   | 5%               |
| Quiz   | 10/12/2018 | Topics 7-12 | written | Arabic   | 5%               |
| final  | 12/1/2018  | All topics  | written | Arabic   | 60%              |

### General notes:

- 5% activities
- 25% for the practice part