



**University of Mosul**  
**College of Science**  
**Department of Geology and Petroleum**  
**Educational goals**



**Educational goals:**

1. Geology is important because it provides the requirements for human life. Each branch of geology is strongly connected to aspects of industrial, agricultural, economic, or service life.
2. The primary interest of geologists is exploration of natural resources, including oil, gas, coal, metallic and non-metallic ores, minerals, and water resources. These present a crucial need for the growth of societies, industry improvement, agricultural production, and environment preservation.
3. It helps geologists choose safe locations for large facilities such as dams and power generation plants.
4. The geologist tries to ward off the risks of natural disasters such as earthquakes and volcanoes by predicting them and participating in developing the necessary plans and measures to reduce their human and material damage.
5. The geologist provides important information for the well-being of human societies, and as the scientist Karl Taylor said in 1938 (the geologist is the one who creates wealth because, through him, useful resources can be discovered).
6. Providing the necessary scientific cadres to implement the plans of government geological institutions.

7. Preparing the department as a consulting interface for projects of state geological departments.
8. Participation in implementing geological programs for the private and public sectors.
9. Carrying out service projects in support of investment projects in the country
10. Conducting scientific, academic and applied research in the specializations of earth sciences.
11. Spreading the spirit of competition and encouragement and giving the opportunity to all the academic staff members in the field of research and teaching.
12. Support and encourage scientific cooperation among the academic staff members in the department and cooperation with other departments in the field of multi-purpose research.
13. To continuously develop the academic staff members by sending them to training courses in order to maintain high levels of efficiency and performance.
14. Qualification of the students with a high level of knowledge and a degree of scientific maturity that will enable them to participate effectively in the scientific and technical aspects of development and planning programs.
15. Providing an advanced level of education for undergraduate and postgraduate studies, maintaining a high level of curricula, and constantly updating scientific plans.
16. Help in the field of sustainable development.