



First-cycle studies (undergraduate)

Field of study:
Geology, Bachelor studies, 3 years

Field of study:
Applied Geology, Engineering studies, 3.5 years; specializations: Geoengineering; Geodynamics and Geological Mapping; Engineering of Mineral Resources

Second-cycle studies (graduate)

Field of study:
Geology, Master studies, 2 years; specialities:

- Geochemistry, Mineralogy and Petrology
- Engineering Geology
- Climate Geology
- Stratigraphic Geology and Sedimentology
- Resource and Economic Geology
- Hydrogeology
- Environment Protection
- Palaeontology
- Tectonics and Geological Mapping

From February 2015 - new courses:

Second-cycle studies (graduate)

Field of study:

Applied Geology, Master studies, 2 years

Field of study:

Applied Petroleum Geosciences, Master studies, 2 years, in English (fee-paying scheme)

Engineering complementary studies
(fee-paying scheme)

Lifelong learning courses
(fee-paying scheme)

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Applied Petroleum Geosciences MA level, full time, from February 2015



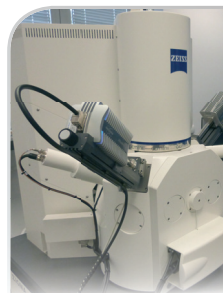
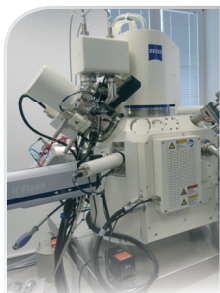
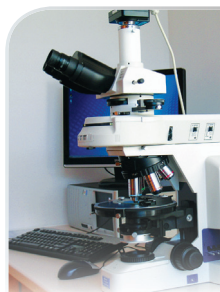
APPLIED GEOLOGY
for the industry

Applied geology for the industry - testing and implementation of new educational solutions based on international cooperation

The Faculties of Geology and Chemistry of the University of Warsaw take the initiative of creating joint Master Studies in English entitled Applied Petroleum Geosciences. Analysis of the educational market in Poland and abroad and the scientific potential of both units have allowed for the delineation of the studies programme and its educational effects. It has been assumed that the studies profile supplements the educational offer in Poland and may be attractive for students both from Poland and abroad. Offering this degree course to international students is an important element of the development strategy of the University of Warsaw. The offered course Applied Petroleum Geosciences is a response to the developing market of exploration industry of hydrocarbons, including shale gas, as well as other energetic and mineral resources. The studies will assure thorough geo-

logical and chemical knowledge and prepare its graduates to undertake jobs and research in the widely understood field of petroleum geology. The studies are both specialized and interdisciplinary, which upgrades them with regard to the integration of geological data. The educational process will include wide utilization of expert knowledge based on invited specialists from the petroleum and chemical industries.

Graduates of the Master Course Applied Petroleum Geosciences at the Faculties of Geology and Chemistry of the University of Warsaw are well prepared to undertake jobs in the petroleum extraction industry, exploration and consulting companies, environmental protection, water management as well as scientific, research and educational institutions.



1st year

Course title	Hours	ECTS
Sedimentology for Petroleum Geology	40h workshops	5
Tectonics and Deformation Processes	60h workshops	6
Physical Chemistry / Thermodynamics	45 h lectures 15 h classes	5
Introduction to Geochemistry	30 h lectures	2
Introduction to Chemistry	30 h lectures	2
Introduction to Geology	30 h lectures 30 h classes	4
Regular seminars		4
Field-course in Geological Field Methods (in the Holy Cross Mountains)	3 weeks (120 h)	9
Organic Chemistry	45 h lecture 15 h discussion sessions	5
Physical Properties of Hydrocarbons	30 h lectures	3
Stratigraphy for Petroleum Geology	30 h lectures 30 h classes	5
Petroleum Engineering	30h lectures	3
Near Surface Geophysics	20 h workshops	3
Preparation of scientific dissertations	30 h seminars	3
Regular seminars		4

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2nd year

Course title	Hours	ECTS
Petroleum Geophysics	30 h lectures 15 h classes	3
Petroleum Generation and Accumulation	20 h lectures 10 h classes 30 h laboratories	4
Petrophysics for Reservoir Characteristics	90 h discussion sessions	6
Fundamentals of Water-Rock Geochemical Modelling	30 h lectures 15 h classes	3
MSc Laboratory (data collection, field work, analyses)	unlimited time	5
Instrumental Analysis	30 h lectures 30 h classes	4
Course in Well Logging and Core Storage	1 week (40 h)	4
Regular seminars		4
Petroleum Systems – Petroleum Provinces	30 h lectures	3
Economy for the Petroleum Industry	20h lectures	3
Environmental Protection in Oil and Gas Production	40 h lectures 10 h workshops	4
MSc Laboratory (data collection, field works, analyses)	unlimited time	5
Preparation of MSc thesis	unlimited time	8
Regular seminars		4

