

**Uppsala University**  
**THIRD AND FOURTH SEMESTERS**  
**PANGEA TRACK/PROFILE: 1 - PALAEOBIOLOGY**

**TITLE OF UNIT: Degree Project E in Earth Science 1GV085**

NUMBER of ECTS: 45

OPTIONAL or COMPULSORY (if applicable):

PREREQUISITES (either in term of skills or knowledge or units to be validated before registration to this course): **A Bachelor's degree and, in addition, at least 30 credits in earth science at Master's level, including courses at Master's level that are necessary for the project. Admission requires a project plan accepted by the department.**

MODE OF TEACHING (distance education, webinar, workshops, seminars, lectures, supervised projects, etc): **The teaching is devised individually dependent on the direction of the project. Supervision is provided individually or in group.**

Number of hours dedicated to lectures, practices, field-excursions, etc: **400 hours, including personal workload**

Personal workload (hours expected to be dedicated to, including supervised projects): **400 hours, including number of hours dedicated to lectures**

### Description of the course

#### General aims

On completion of the course, the student should be able to:

- show a deep knowledge within the chosen field of Earth Science
- search and in a critical way interpret and compile relevant scientific literature
- in a creative way delimit a scientific problem, plan a scientific study, choose appropriate methods, carry out the study, interpret and evaluate the results and, if applicable, generate falsifiable a hypothesis to explain the observations all within given time frames
- present the results in a clearly structured written report in correct language and for different target groups both in scientific and in popular form
- give constructive criticism on texts within the study field

#### Expected outcomes (knowledge)

The student should obtain a substantial depth of theoretical knowledge in a particular topic of the program specialization. The student should also get in depth knowledge about modern methodologies and analysis techniques that is applied within the field.

## Expected outcomes (skills)

The student should get skills in planning and conducting a study using the scientific method and scientific ethics as well as communicate scientific results both to peers as well to the public. Other skills trained include critically review and summarize scientific literature and give constructive criticism on other scientific work.

## Content summary

An independent project is carried out, where the knowledge from earlier completed courses are applied. The project is guided by a supervisor in close connection to ongoing projects in research or development.

To achieve the objectives, the student shall:

- under supervision delimit a scientific problem, investigate it, interpret and evaluate the results and present the project in oral and written form
- search, evaluate and compile information relevant for the chosen problem
- actively participate in seminars and other activities at the department where the project is carried out
- comment and give constructive criticism on another student's project (opposition)

## Person in charge of the unit (first and last name, e-mail)

Study counsellor, Earth Sciences, [studycounsellor@geo.uu.se](mailto:studycounsellor@geo.uu.se)

EVALUATION MODE	Ratio of the final grade
Course module 1 consists of an oral presentation and a written report	<b>15 credits</b>
<ul style="list-style-type: none"> <li>- Course module 2 consists of a written report and oral presentation. The student must also act as opponent on another degree project within same main area.</li> <li>- Before the course result is registered the report must be registered in the database DiVA</li> </ul>	<b>30 credits</b>



## TITLE OF UNIT: Degree Project E1 in Earth Science 1GV025

NUMBER of ECTS: 30

OPTIONAL or COMPULSORY (if applicable):

**PREREQUISITES** (either in term of skills or knowledge or units to be validated before registration to this course): **A Bachelor's degree and, in addition, at least 30 credits in earth science at Master's level, including courses at Master's level that are necessary for the project. Admission requires a project plan accepted by the department. English language proficiency that corresponds to English studies at upper secondary (high school) level in Sweden ("English 6").**

**MODE OF TEACHING** (distance education, webinar, workshops, seminars, lectures, supervised projects, etc): **The teaching is devised individually dependent on the direction of the project. Supervision is provided individually or in group.**

Number of hours dedicated to lectures, practicals, field-excursions, etc: **400 hours, including personal workload**

Personal workload (hours expected to be dedicated to, including supervised projects): **400 hours, including number of hours dedicated to lectures**

### Description of the course

#### General aims

On completion of the course, the student should be able to:

- show a deep knowledge within the chosen field of Earth Science
- search and in a critical way interpret and compile relevant scientific literature
- in a creative way delimit a scientific problem, plan a scientific study, choose appropriate methods, carry out the study, interpret and evaluate the results and, if applicable, generate falsifiable a hypothesis to explain the observations, all within given time frames
- present the results in a clearly structured written report in correct language and for different target groups both in scientific and in popular form
- give constructive criticism on texts within the study field

#### Expected outcomes (knowledge)

The student should obtain a deeper theoretical knowledge in a particular topic of the program specialization. The student should also get knowledge about modern methodologies and analysis techniques that is applied within the field.

#### Expected outcomes (skills)

The student should get skills in planning and conducting a study using the scientific method and scientific ethics as well as communicate scientific results both to peers as well to the public.

Other skills trained include critically review and summarize scientific literature and give constructive criticism on other scientific work.

## Content summary

An independent project is carried out, where the knowledge from earlier completed courses are applied. The project is guided by a supervisor in close connection to ongoing projects in research or development.

To achieve the objectives, the student shall:

- under supervision delimit a scientific problem, investigate it, interpret and evaluate the results and present the project in oral and written form
- search, evaluate and compile information relevant for the chosen problem
- actively participate in seminars and other activities at the department where the project is carried out
- comment and give constructive criticism on another student's project (opposition)

**Person in charge of the unit (first and last name, e-mail)** Study counsellor, Earth Sciences, [studycounsellor@geo.uu.se](mailto:studycounsellor@geo.uu.se)

EVALUATION MODE	Ratio of the final grade
<ul style="list-style-type: none"><li>- To pass, a passed oral and written presentation of the degree project is required. The student must also act as opponent on another degree project within same main area.</li><li>- Before the course result is registered the report must be registered in the database DiVA</li></ul>	<b>30 credits</b>