Stockholms universitet

# Schedule Geological Sciences 15 hp (GG2010) 2024 (Page 1/2)

Version 2025-08-21

| | | Date | Start | Time | Information | Topic | Room | Marshak Ch. | Teacher | |
|---|---|---|---|---|---|---|---|---|---|---|
| Week 1 | Mon | 01-sep | 10:00 | 11:45 | INTRODUCTION - Earth System Sciences | SET UP OF AN INHABITABLE PLANET | Will-Olsson | Ch. 1 | Richard | Week 1 |
| | | | 13:00 | 14:45 | FORMATION OF THE UNIVERSE, SOLAR SYSTEM, AND EARTH | | Will-Olsson | Ch. 1 | Richard | |
| | Tues | 02-sep | 10:00 | 11:45 | PRESENTATION OF GROUP RESEARCH | | Will-Olsson | | Richard, Volker, Iain | |
| | | | 13:00 | 14:45 | EARTH STRUCTURE | | Will-Olsson | Ch. 2, 10 + | Richard | |
| | | | 15:00 | 16:45 | Online Quiz Exercise | | | Interlude D | | |
| | Wed | 03-sep | 10:00 | 11:45 | CHEMISTRY BASICS - elements to minerals | BASIC SCIENCE | Will-Olsson | Ch. 5 | Pete | |
| | | | 13:00 | 14:45 | Exercise Group A (Group B - READING - VALID FOR ALL HALF-CLASSES) | | Y11 | | Pete + Richard | |
| | | | 15:00 | 16:45 | Exercise Group B (Group A - READING- VALID FOR ALL HALF-CLASSES) | | Y11 | | Pete + Richard | |
| | Thurs | 04-sep | 10:00 | 11:45 | MINERALS in ROCKS: Mineral properties - Mineral identification | EARTH MATERIALS - MINERAL & IGNEOUS ROCK | Will-Olsson | Ch. 5 | Joakim | |
| | | | 13:00 | 16:45 | Exercise Group B - Mineral identification | | Y11 | | Joakim | |
| | | | | | Exercise Group A - Mineral identification | | Y11 | | Joakim | |
| | Fri | 05-sep | 10:00 | 11:45 | READING | | READING | | | |
| | | | 13:00 | 14:45 | | | | | | |
| Week 2 | Mon | 08-sep | 10:00 | 11:45 | MINERALS in ROCKS; Rock forming minerals | | Will-Olsson | Interlude A | Joakim | Week 2 |
| | | | 13:00 | 14:45 | Exercise Group A - Mineral identification | | Y11 | | Joakim | |
| | | | 15:00 | 16:45 | Exercise Group B - Mineral identification | | Y11 | | Joakim | |
| | Tues | 09-sep | 10:00 | 11:45 | IGNEOUS ROCKS | | Will-Olsson | Ch. 6 | Joakim | |
| | | | 13:00 | 15:45 | Exercise Group B - igneous rock identification | | Y11 | | Joakim | |
| | | | 15:00 | 16:45 | Exercise Group A - igneous rock identification | | Y11 | | Joakim | |
| | Wed | 10-sep | 10:00 | 11:45 | VOLCANOES | | Will-Olsson | Ch. 6 | Alasdair | |
| | | | 13:00 | 14:45 | Lab-Group A | | Y11 | | Alasdair | |
| | | | 15:00 | 16:45 | Lab-Group B | | Y11 | | Alasdair | |
| | Thur | 11-sep | 10:00 | 11:45 | PLATE TECTONICS - INTRODUCTION | PLATE TECTONICS | Will-Olsson | Ch. 4 | Richard | |
| | | | 13:00 | 14:45 | PLATE TECTONICS - Exercises GROUP A | | Y11 | | Richard | |
| | | | 15:00 | 16:45 | | | | | | |
| | Fri | 12-sep | 10:00 | 11:45 | PLATE TECTONICS - INTERACTION AT THE BOUNDARIES | | Will-Olsson | Ch. 4 | Richard | |
| | | | 13:00 | 14:45 | PLATE TECTONICS - Exercises GROUP B | | Y11 | | Richard | |
| | | | 13:00 | 15:45 | | | | | | |
| Week 3 | Mon | 15-sep | 10:00 | 11:45 | SEDIMENTS - Surface processes, sedimentary structure | EARTH MATERIALS - SEDIMENT | Will-Olsson | Interlude B | Pete | Week 3 |
| | | | 13:00 | 14:45 | SEDIMENTS - Surface processes, sedimentary structure Exercise, Group B | | Y11 | | Pete | |
| | | | 15:00 | 16:45 | | | | | | |
| | Tues | 16-sep | 10:00 | 11:45 | SEDIMENTS - Sedimentary environment - Diagenesis and classification | | Will-Olsson | Ch. 7 | Wei-Li | |
| | | | 13:00 | 14:45 | SEDIMENTS - Surface processes, sedimentary structure Exercise, Group A | | Y11 | | Wei-Li | |
| | | | 15:00 | 16:45 | | | | | | |
| | Wed | 17-sep | 10:00 | 11:45 | READING | | | | | |
| | | | 13:00 | 16:45 | | | | | | |
| | Thurs | 18-sep | 10:00 | 11:45 | METAMORPHISM | EARTH MTRL. | Will-Olsson | Ch. 8 | Alasdair | |
| | | | 13:00 | 14:45 | Lab-Group B - Metamorphic rock identification | | Y11/U28 | | Alasdair | |
| | | | 15:00 | 16:45 | Lab-Group A - Metamorphic rock identification | | Y11/U28 | | Alasdair | |
| | Fri | 19-sep | 10:00 | 11:45 | Minerals and Rocks identification extra exercise time | | U28 + Y11 | | Richard | |
| | | | 13:00 | 16:45 | Minerals and Rocks identification extra exercise time | | U28 + Y11 | | | |
| Week 4 | Mon | 22-sep | 10:00 | 11:45 | CLOCKS IN ROCKS I - Stratiraphy and Geological Time scale | CLOCKS IN ROCKS | Will-Olsson | Ch. 12 | Helen | Week 4 |
| | | | 13:00 | 14:45 | Rock garden exercise GROUP A & B | | Outside IGV | | ? | |
| | | | 15:00 | 16:45 | | | | | | |
| | Tues | 23-sep | 10:00 | 11:45 | CLOCKS IN ROCKS II - Measuring time and Stratigraphic logs | | U29 | Ch. 12 | Helen | |
| | | | 13:00 | 14:45 | Exercise Group A - Identifying unconformities/Relative geological time | | Y11 | | ? | |
| | | | 15:00 | 16:45 | Exercise Group B - Identifying unconformities/Relative geological time | | Y11 | | ? | |
| | Wed | 24-sep | 10:00 | 11:45 | STATISTICS & DATA REPRESENTATION - Basic statistics for geosceintists | BASIC SCIENCE | Will-Olsson | | Jan | |
| | | | 13:00 | 14:45 | Exercise Group A - statictical handling of geoscientific data | | Y11 | | | |
| | | | 15:00 | 16:45 | Exercise Group B - statictical handling of geoscientific data | | Y11 | | | |
| | Thurs | 25-sep | 10:00 | 11:45 | EARTHQUAKES AND TSUNAMIS | EARTH MATERIAL | Will-Olsson | Ch. 10 | Alasdair | |
| | | | 13:00 | 14:45 | Exercise Group B | | Y11 | | | |
| | | | 15:00 | 16:45 | Exercise Group A | | Y11 | | | |
| | Fri | 26-sep | 10:00 | 11:45 | DEFORMATION | | Will-Olsson | Ch. 11 | Uwe | |
| | | | 13:00 | 14:45 | Home assignment | | Y11 | | | |
| | | | 15:00 | 16:45 | Home assignment | | Y11 | | | |
| Week 5 | Mon | 29-sep | 10:00 | 11:45 | METHOD: Introduction to GIS | METHOD | Will-Olsson | | Richard | Week 5 |
| | | | 13:00 | 14:45 | Exercise Group A - Make a map using QGIS | | U27 | | Richard | |
| | | | 15:00 | 16:45 | Exercise Group A - Make a map using QGIS | | U27 | | Richard | |
| | Tue | 30-sep | 10:00 | 11:45 | GIS in research | | Will-Olsson | | Martin | |
| | | | 13:00 | 14:45 | Exercise Group B - Make a map using QGIS | | U27 | | Richard | |
| | | | 15:00 | 16:45 | Exercise Group B - Make a map using QGIS | | U27 | | Richard | |
| | Wed | 01-okt | | | Voluntary Training EXAM | | Will-Olsson | | | |
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|---|---|---|---|---|---|---|---|---|---|---|
| Week 5 | Thu | 02-okt | | | EXCURSION GOTLAND & UTÖ<br><br>(Thursday 2 Oct - Wednesday 8 Oct)<br>SEE SEPARATE SCHEDULE | EXCURSION | Alasdair-Elisabeth-Christophe-Joakim-Otto-Richard-Pete | | | Week 5 |
| | Fri | 03-okt | | | | | | | | |
| | Sat | 04-okt | | | | | | | | |
| | Sun | 05-okt | Transfer | | | | | | | |
| Week6 | Mon | 06-okt | | | | | | | | Week6 |
| | Tues | 07-okt | | | | | | | | |
| | Wed | 08-okt | | | | | | | | |
| | Thurs | 09-okt | | | READING | | | | | |
| | | | | | | | | | | |
| | Fri | 10-okt | 10:00 | 11:45 | PALEONTOLOGY - Fossil record and fossilization | PALEONTOLOGY | Will-Olsson | Interlude E | Otto | |
| | | | 13:00 | 14:45 | Lab Group B | | Y11 | | | |
| | | | 15:00 | 16:45 | Lab Group A | | Y11 | | | |
| Week 7 | Mon | 13-okt | 10:00 | 11:45 | PALEONTOLOGY - Fossils of Gotland | | Will-Olsson | Ch. 13 | Otto | Week 7 |
| | | | 13:00 | 14:45 | READING | | | | | |
| | | | 15:00 | 16:45 | READING | | | | | |
| | Tues | 14-okt | 10:00 | 11:45 | THE HISTORY OF LIFE - origin of life to recent | LIFE, ECOSYSTEM, BIOGEOCHEMICAL CYCLES | Will-Olsson | Ch. 13 | Pete | |
| | | | 13:00 | 14:45 | Quiz Online | | | | | |
| | | | 15:00 | 16:45 | | | | | | |
| | Wed | 15-okt | 10:00 | 11:45 | ECOSYSTEM FORM AND FUNCTION - Ecology, concepts, past ecosystems | | Will-Olsson | Ch. 23 + Extra | Pete | |
| | | | 13:00 | 14:45 | Quiz Online | | | | | |
| | | | 15:00 | 16:45 | | | | | | |
| | Thurs | 16-okt | 10:00 | 11:45 | READING (Lecture at 13.00!) | | | | | |
| | | | 13:00 | 14:45 | BIOGEOCHEMICAL CYCLES | | Will-Olsson | Ch. 23 + Extra | Wei-Li | |
| | | | 15:00 | 16:45 | Quiz Online | | | | | |
| | Fri | 17-okt | 10:00 | 11:45 | CLIMATE SYSTEM | CLIMATE - OCEAN - CRYOSPHERE | Will-Olsson | Ch. 20, 23 | Alasdair | |
| | | | 13:00 | 14:45 | Exercise Group A | | Y11 | | | |
| | | | 15:00 | 16:45 | Exercise Group B | | Y11 | | | |
| Week 8 | Mon | 20-okt | 10:00 | 11:45 | CRYOSPHERE - Ice in the Earth system | | Will-Olsson | Ch. 22 | Sarah | Week 8 |
| | | | 13:00 | 14:45 | Online exercise | | | | | |
| | | | 15:00 | 16:45 | Online exercise | | | | | |
| | Tues | 21-okt | 10:00 | 11:45 | CRYOSPHERE - Glacial geology | | Will-Olsson | Ch. 22 | Sarah | |
| | | | 13:00 | 14:45 | Field (Stora Skuggan, both groups) | | field | | | |
| | | | 15:00 | 16:45 | Field (Stora Skuggan, both groups) | | field | | | |
| | Wed | 22-okt | 10:00 | 11:45 | THE WORLD OCEAN - Ocean circulation (formation-size) | | Will-Olsson | Ch. 18 | Agatha | |
| | | | 13:00 | 14:45 | Exercise Group B | | | | | |
| | | | 15:00 | 16:45 | Exercise Group A | | | | | |
| | Thurs | 23-okt | 10:00 | 11:45 | ANTHROPOCENE | | Will-Olsson | Ch. 23 | Alasdair | |
| | | | 13:00 | 14:45 | Exercise Group A | | Y11 | | | |
| | | | 15:00 | 16:45 | Exercise Group B | | Y11 | | | |
| | Fri | 24-okt | 10:00 | 11:45 | READING | | | | | |
| | | | 13:00 | 14:45 | | | | | | |
| | | | 15:00 | 16:45 | | | | | | |
| Week 9 | Mon | 27-okt | 13:00 | 14:45 | COURSE CONCLUSION - QUESTIONS | SUMMARY | Will-Olsson | | Richard, Pete | Week 9 |
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| | Tues | 28-okt | | | Exam preparation + report writing | | | | | |
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| | Wed | 29-okt | | | Exam preparation + report writing | | | | | |
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| | Thurs | 30-okt | | | Exam preparation + report writing | | | | | |
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| | Fri | 31-okt | 09:00 | 14:00 | EXAM | | Y11<br>Will-Olsson<br>U10 | | | |
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