<table>
<thead>
<tr>
<th>1st Semester</th>
<th>2nd Semester</th>
<th>3rd &amp; 4th Semester</th>
<th>4th Semester</th>
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| **Ghent University**  
Week 1  
“Introduction to the Circular Economy, Economics and Management of Natural Resources” (4 ECTS) | **Uppsala University**  
Middel of January – early June  
Mandatory courses (and 1 elective) (25 ECTS) | **Track (UGent)**  
Resource Recovery & Sustainable Materials  
Start: 3rd or 4th Monday of September  
Master thesis (30 ECTS)  
Electives (15 ECTS)  
Materials Science Thermodynamics (6 ECTS)  
Dare to Venture (4 ECTS)  
Composites (6 ECTS)  
Microbial Re-use Technology (5 ECTS)  
Life Cycle Assessment of Materials & Structures (3 ECTS)  
Environmental Legislation (3 ECTS)  
Chemical Modification of Renewable Resources (3 ECTS)  
Corrosion and Surface Technology (6 ECTS)  
Environmental Fate and Management of Heavy Metals and Metalloids (5 ECTS)  
Environmental Constructions (5 ECTS)  
Membrane Processes in Environmental Technology (3 ECTS)  
Basics of Control Engineering and Process Engineering (4 ECTS)  
Sustainable Chemical Production Processes (6 ECTS)  
Geology of Building Stones (6 ECTS)  
Imaging Techniques of Consolidated and Unconsolidated Sediments (6 ECTS)  
Optical Mineralogy & Petrography (5 ECTS) | **Track (TU Freiberg)**  
Sustainable Processes  
Start: 2nd or 3rd Monday of October  
Master thesis (30 ECTS)  
Electives (15 ECTS)  
Resources Chemical Technology (5 ECTS)  
Selective Separation of Strategic Elements (5 ECTS)  
Microbiology for Resource Scientists: Lecture (3 ECTS)  
Microbiology for Resource Scientists: Lab Course (3 ECTS)  
Biotechnology in Mining (5 ECTS)  
Simulation of Sustainable Metallurgical Process (6 ECTS)  
Sensors and Actuators (4 ECTS) | **Track (UU)**  
Geo-resource Exploration  
Start: 1st Monday of September  
Master thesis (30 ECTS)  
Electives (15 ECTS)  
Critical Metals and Materials (5 ECTS)  
Exploration and Environmental Geophysics (15 ECTS)  
Challenges of Deep and High Stress Mining (5 ECTS)  
Professional Training in Earth Sciences (5 ECTS) |
| **TU Freiberg**  
Week 2 & 3  
“Problems and Innovations in the Process Chain of Rare Resources” (4 ECTS) |  |  | **TU Freiberg**  
Summer school  
early June – end of July  
“Resources Chemistry” (9 ECTS) |