**Structure Master’s Program Bioeconomy**

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<th>Semester 1</th>
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<tr>
<td>Behavioral Public Economics</td>
<td>Advanced Sustainability and Life Cycle Assessment</td>
<td>Sustainable Production</td>
<td>Master’s Thesis</td>
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<td>Advanced Empirical Research</td>
<td>Advanced Environmental and Resource Economics</td>
<td>Specialization in (Bio-)Technology</td>
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<td>Operations Research</td>
<td>Specialization in (Bio-)Technology</td>
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<td>Specialization in (Bio-)Technology</td>
<td>Electives in Social Sciences, Sustainability, and Technology</td>
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<td>30 CP</td>
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**Info:**
This plan is based on Semester 1 = winter semester

**Electives in (Bio-) Technology**
- Microbial and Plant Biotechnology
- Artificial Intelligence in Biotechnology
- Biogenic Polymers
- Biogas Technology
- Biorefinery
- Biological Materials in Nature and Technology
- Bioinspired Materials and Processes
- Sustainable Chemistry
- Modelling and Optimization of Energy Systems
- Renewables Utilization
- Chemistry of Enzymes
- Enzyme Engineering
- Enzymatic Biotransformation
- Wood-based Resources
- Advanced Concepts in Bioinformatics

**Electives in Social Sciences, Sustainability, and Technology**
- Advanced Development Economics
- Markets for Energy and Biobased Products
- Personnel and Organizational Economics
- Research Colloquium
- Consumer Studies
- Innovation in Bioeconomy
- Corporate Sustainability Management
- Plant and Technology Management
- Advanced Seminar in Supply and Value Chain Management
- Advanced Seminar in Circular Economy and Sustainability Management
- Advanced Seminar in Behavioral Economics
- Environmental Accounting and Economics
- Sustainable Chemistry Sciences
- Microbial and Plant Biotechnology
- Artificial Intelligence in Biotechnology
- Biogenic Polymers
- Biological Materials in Nature and Technology
- Bioinspired Materials and Processes
- Modelling and Optimization of Energy Systems
- Renewables Utilization
- Chemistry of Enzymes
- Enzyme Engineering
- Enzymatic Biotransformation
- Wood-based Resources
- Advanced Concepts in Bioinformatics

*Major in (Bio-)Technology*: at least 28 CP from Specialization in (Bio-)Technology and 26 CP from Electives in Social Sciences, Sustainability, and Technology

**Major in Social Sciences**: at least 39 CP from Electives in Social Sciences, Sustainability, and Technology and 15 CP from Specialization in (Bio-)Technology