# bio703 - Basic Concepts in Plant Sciences

**Module label**  
Basic Concepts in Plant Sciences

**Module code**  
bio703

**Credit points**  
12.0 KP

**Workload**  
360 h

**Used in course of study**  
- Master's Programme Biology > Background Modules

**Contact person**
- Module responsibility: Dirk Carl Albach
- Authorized examiners:  
  - Dirk Carl Albach
  - Gerhard Wolfgang Zotz
  - Sascha Laubinger
  - Klaus Bernhard von Hagen
- Module counseling:  
  - Gerhard Wolfgang Zotz
  - Sascha Laubinger
  - Klaus Bernhard von Hagen

**Entry requirements**

Skills to be acquired in this module:
- Communicating deeper knowledge in ecology, phylogeny, evolution and genetics of plants
- Communicating scale- and method-overarching thinking
- Communicating deeper theoretic concepts of ecology, evolution and genetics of plants
- ++ deepened biological expertise
- + deepened knowledge of biological working methods
- + data analysis skills
- + interdisciplinary thinking
- ++ critical and analytical thinking
- ++ independent searching and knowledge of scientific literature
- ++ data presentation and discussion in German and English (written and spoken)
- + teamwork
- ++ ethics and professional behaviour

**Module contents**
- V: Biodiversity of plants (2 SWS)
- V: Resource acquisition and use by plants (1 SWS)
- V: Gene expression in plants (1 SWS)
- S: Phylogeny of plants (2 SWS)
- S: Interactions of plants with environmental parameters (2SWS)

**Reader’s advisory**

**Links**
- Languages of instruction: German, English
- Duration (semesters): 1 Semester
- Module frequency
- Module capacity: 12
- Reference text:  
  - associated with bio765 (Current Methods in Plant Science) (recommended)
- Modullevel: MM (Mastermodul / Master module)
- Modulart: je nach Studiengang Pflicht oder Wahlpflicht

**Lern-/Lehrform / Type of program**

**Vorkenntnisse / Previous knowledge**
Ecology, Flora, Genetics

**Examination**

- **Time of examination**
  - 1 Portfolio (40%), 1 report (60%)

**Type of examination**

**Course type**

<table>
<thead>
<tr>
<th>Course type</th>
<th>Comment</th>
<th>SWS</th>
<th>Frequency</th>
<th>Workload attendance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lecture</td>
<td></td>
<td>4.00</td>
<td>WiSe</td>
<td>56 h</td>
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<tr>
<td>Seminar</td>
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<td>4.00</td>
<td>WiSe</td>
<td>56 h</td>
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**Total time of attendance for the module**
112 h