

Module Organic Chemistry

This module is designed for students of Biochemistry who have a special interest in Organic Chemistry and therefore wish to deepen their theoretical knowledge and practical skills in this discipline. The aim of the module is to bring participants to roughly the same level of proficiency as students of Chemistry (and "Wirtschaftschemie") and therefore open the possibility for pursuing research careers within Chemistry (besides the Life Sciences).

The following technical content will be taught:

- General knowledge on the art of synthesizing organic molecules (i.e. retrosynthesis), which has broad relevance for research in pharmaceutical academia and industry.
- Specialized knowledge on modern research topics of Organic Chemistry such as Organic Materials, Supramolecular Chemistry or Physical Organic Chemistry
- Practical skills on the art of synthesizing organic molecules, including syntheses carried out within organic chemistry research labs.

Organizational aspects:

- The practical course will take place on afternoons in the period October - January (with some flexibility). A short protocol will be written up for each compound synthesized.
- The mandatory lecture "Organic Chemistry III" takes place during the winter semester. Specialized lectures (e.g. Organic Materials I/II (CHEM6630.001 / CHEM6630.002), Supramolecular Chemistry (CHEM7990.001), Modern Physical Organic Chemistry (CHEM7614.001)) take place throughout the year. Lectures are accompanied by an exam (written or oral).
- Max. Participants: 5-10 (depending on capacity in "Synthesepraktikum" lab)
- Electable for Master Biochemistry
- ECTS: 15