

| [A2] | Developing a research project | Compulsory module | 8 CP (total) = 240 h | | | | SWS |
|--|-------------------------------|--------------------------|--|-------------------------|---|---|-----|
| | | | Contact hours | Independent study 240 h | | | |
| Content | | | | | | | |
| <p>Building on the seminar of the module <i>Group Research Proposal</i> should enable the students to independently identify a meaningful and relevant question from the field of biochemistry, to propose methodological approaches to answer them and to formulate this in a structured text based on a grant application for third-party funding.</p> <p>The topic must be developed individually by the students and should be derived from the range of topics, which extends between cellular biochemistry and biophysical chemistry. This can, for example, be current topics in membrane protein research, RNA biology, signal transduction structural biology, spectroscopy, or electrophysiology.</p> <p>The project descriptions are drawn up by the students under the individual supervision of a university lecturer in the subjects biochemistry or biophysical chemistry. Through interactive discourse, knowledge of methods, text analysis and data interpretation are imparted, as well as tips for creating a project outline and the feasibility of the project. The presentation of the project outline in the form of a lecture is accompanied by a detailed scientific discussion in which knowledge on the topic is examined. Feedback on the originality of the topic, the feasibility and the presentation of scientific contexts are conveyed.</p> | | | | | | | |
| Learning outcomes and skills | | | | | | | |
| <p>After attending the module, the students can:</p> <ul style="list-style-type: none"> • understand and assess the latest developments in biochemistry • identify research-relevant and forward-looking topics in the specialist literature • formulate hypotheses independently • coherently present a scientific argument in a logically structured text • independently develop, present and defend a research project • communicate scientifically precise in the English language | | | | | | | |
| Admissions requirements/Conditions for participation in the module/courses | | | | | | | |
| Module <i>Group Research Proposal</i> | | | | | | | |
| Recommended prior knowledge | | | | | | | |
| None | | | | | | | |
| Organizational details | | | | | | | |
| Submission deadlines for research projects are 31.01. and 30.06. of every year. | | | | | | | |
| Module allocation (degree programme/faculty) | | | Master Biochemistry / FB14 | | | | |
| Module transferrable to other degree programmes | | | | | | | |
| Module offered | | | Winter semester & summer semester | | | | |
| Duration | | | 1 semester | | | | |
| Module coordinator | | | PD Dr Abele | | | | |
| Course requirements for credits | | | | | | | |
| Participation record | | | None | | | | |
| Coursework | | | None | | | | |
| Forms of teaching / learning | | | Project | | | | |
| Language teaching and instruction | | | English | | | | |
| Module assessment | | | Form / duration / content, if applicable | | | | |
| Final module assessment | | | | | | | |
| Cumulative module assessment consisting of | | | <ul style="list-style-type: none"> - Proposal (written form, max. 3000 words) - Presentation of the proposal (15 min.) - Oral exam (colloquium) on the proposal (45 min.) | | | | |
| Composition of the module grade for cumulative module assessment | | | Arithmetic mean of the three partial exams. | | | | |
| | | Mode of teaching / study | Semester hours per week | Semester CP | | | |
| | | | | 1 | 2 | 3 | 4 |
| | Developing a research project | | Project | | | 8 | |
| | TOTAL | | | | | 8 | |