
Modulbezeichnung: Scientific Methods (MSM-SM) **10 ECTS**
(Scientific Methods)

Modulverantwortliche/r: Jürgen Schatz
Lehrende: Peter Hull, Victoria Jackiw

Startsemester: SS 2017	Dauer: 1 Semester	Turnus: halbjährlich (WS+SS)
Präsenzzeit: 90 Std.	Eigenstudium: 210 Std.	Sprache: Englisch

Lehrveranstaltungen:

- A: Seminar Scientific English (2S), scientific writing (2S) (5 ECTS)
- B: Scientific data, literature and information management (2S) (5 ECTS)

Alternative acceptable English courses:

(Level 1 will **not** be accepted)

B2 - general:

- Englisch Level 2: Focus on Academic Speaking (SS 2017, Übung, 2 SWS, Dozenten)
- Englisch Level 2: Focus on Academic Writing (SS 2017, Übung, 2 SWS, Dozenten)
- Englisch Level 2: Grammar and Vocabulary (SS 2017, Übung, 2 SWS, Dozenten)

B2 - specific:

- Englisch Level 2: Spoken English for Natural Scientists (SS 2017, Übung, 2 SWS, Peter Hull)
- Englisch Level 2: Written English for Natural Scientists (SS 2017, Übung, 2 SWS, Peter Hull)

C1 - general:

- Englisch Level 3: Focus on Academic Speaking (SS 2017, Übung, 2 SWS, Dozenten)
- Englisch Level 3: Focus on Academic Writing (SS 2017, Übung, 2 SWS, Dozenten)
- Englisch Level 3: Focus on Reading and Vocabulary (SS 2017, Übung, 2 SWS, Dozenten)
- Englisch Level 4: Advanced Academic Writing (SS 2017, Übung, 2 SWS, Dozenten)
- Englisch Level 4: Advanced Oral Expression in an Academic Context (SS 2017, Übung, 2 SWS, Dozenten)

C1 - specific:

- Englisch Level 3: Presenting Scientific Papers for Natural Scientists, M. Sc. (SS 2017, Übung, 2 SWS, Victoria Jackiw)
- Englisch Level 3: Spoken English for Natural Scientists (SS 2017, Übung, 2 SWS, Peter Hull)
- Englisch Level 3: Writing Scientific Papers for Natural Scientists, M. Sc. (SS 2017, Übung, 2 SWS, Victoria Jackiw)
- Englisch Level 4: Writing and Presenting Scientific Papers (SS 2017, Übung, 2 SWS, Victoria Jackiw)

Inhalt:

In this module the students should become familiar with important general methodologies in science:

- project planning,
- scientific writing in English,
- information retrieval and management.

Lernziele und Kompetenzen:

The students are able

- to present conference presentations in English
- to write and receive direct feedback on texts relating to various aspects of molecular science
- to interact in the class in English
- understand modern aspects of molecular sciences and chemistry and can express these aspects both in written and spoken English
- to retrieve relevant literature from available databases (e.g. Web of Science, Scifinder, Reaxys, Scopus)
- to organize relevant information using software tools such as literature management systems (Endnote, Mendeley, Citavi)
- to condense and evaluate the information
- to write a state-of-the-art scientific literature survey

Studien-/Prüfungsleistungen:

Scientific Methods (Prüfungsnummer: 33101)

Studienleistung, mehrteilige Prüfung

weitere Erläuterungen:

One written (10-15 pages) literature survey about a scientific topic

Prüfungssprache: Englisch

Erstablingung: SS 2017, 1. Wdh.: keine Angabe

1. Prüfer: Victoria Jackiw

Bemerkungen:

Module accompanying the Mandatory module for Molecular Science (Pflichtmodul)