neu730 - Biosciences in the Public Eye and in our Laws

Module label	Biosciences in the Public Eye and in our Laws
Modulkürzel	neu730
Credit points	6.0 KP
Workload	180 h (56h contact / 84h research for presentations / 40h term paper)
Verwendbarkeit des Moduls	• Master's Programme Biology (Master) > Skills Modules • Master's Programme Biology (Master) > Skills Modules • Master's Programme Neuroscience (Master) > Skills Modules
Zuständige Personen	• Köppl, Christine (module responsibility) • Sienknecht, Ulrike (Module counselling) • Köppl, Christine (Prüfungsberechtigt) • Sienknecht, Ulrike (Prüfungsberechtigt)
Prerequisites	
Skills to be acquired in this module	+ Expt. methods + Scient. Literature ++ Social skills ++ Interdiscipl. knowlg + Data present./disc. + Scientific English ++ Ethics Upon completion of this course, students • know basic rules of good scientific practise • are aware of the legal framework that is relevant to biological research, e.g. on animal welfare or genetically modified organisms • have practised to research and summarize different viewpoints on biological research, using both scientific (peer-reviewed) and non-scientific sources • are able to identify and critically discuss ethical conflicts in biological research, e.g., in the context of stem cell research or data manipulation • are able to prepare and give a coherent presentation in a team • have practised to lead a group discussion
Module contents	In supervised exercises, students research the ethical aspects and controversial issues on several specific topics in the biosciences. Everyone participates in researching all topics. Students then take turns in summarizing and presenting each topic in small teams, and leading a critical discussion of each topic. Problem-based, independent research of the scientific background by the students is an integral part of this module. Example topics: Good scientific practise and fraud Neuroenhancement Artificial intelligence Animal welfare, Animal experiments Overfishing, Nature conservation State-of-the-art genetic tools and their implications Genetically modified organisms, e.g., in food production, chimeras Stem cells Humans as experimental subjects A bonus can be obtained through active participation during the semester. Active participation requires regular oral contributions to the group discussions, that go beyond giving your own talks. A bonus improves the exam mark by one step (0.3 or 0.4). The bonus is optional, an exam mark of 1.0 is achievable without a bonus. A bonus cannot be applied to pass a failed exam.
Literaturempfehlungen	
Links	

Language of instruction	English
Duration (semesters)	1 Semester
Module frequency	annually, summer term
Module capacity	18
Type of module	Wahlpflicht / Elective
Module level	MM (Mastermodul / Master module)
Previous knowledge	Fundamentals of genetics, physiology, ecology and biological systematics

Examination	Prüfungszeiten	Type of examination
Final exam of module	within a few weeks of summer term lecture period	Term paper Regular participation during the semester is required (max 3 days of absence)

Lehrveranstaltungsform	Comment	SWS	Frequency	Workload of compulsory attendance
Lecture			SoSe	0
Seminar und Übung		4	SoSe	56
Präsenzzeit Modul insgesamt				56 h