

Darwin's Origin of Species and Evolution (Julien Bachelier)

Berufsfeldorientierung A, B, C			
Darwin's Origin of Species and Evolution (in a modern scientific context)			
Hochschule/Fachbereich/Institut: Freie Universität Berlin/ FB Biologie Chemie Pharmazie/ Institut für Biologie			
Modulverantwortliche/r: Julien Bachelier			
Zugangsvoraussetzungen: erwünscht ab 3.Fachsemester			
Qualifikationsziele: After this course, students will have a better understanding of the historical importance of the seminal work of Charles Darwin and his <i>Origin of Species</i> , and of the main processes and mechanisms underlying the evolution and diversity of life (e.g., inheritance and variation of traits, and their selection over time). They will also learn how to search and critically read scientific literature to write a paper and make a presentation on the evolutionary process and pattern of their choice, and to appreciate the importance of the peer-review process in Science by providing (and receiving) constructive feed back on the work and assignments of the classmates.			
Inhalte: In this course, you will learn about the empirical and historical foundations of evolutionary theory, which started long before Charles Darwin, and led to the publication in 1859 of his seminal <i>Origin of Species</i> . Chapter after chapter, you will also discover and discuss together how this book, which Darwin wrote in only a few weeks, is in fact a 500 pages-long abstract summarizing tens of thousands of pages of the observations he made around the world for 25 years or so. In addition, you will read for each chapter a selection of recent scientific publications and hopefully, better appreciate how exhaustive and visionary Darwin's knowledge and synthesis of the evolutionary processes and mechanisms were, and why this book, which literally shook the religious foundations and exacerbated passion all around the world, is still relevant today.			
Lehr- und Lernformen	Präsenzstudium (Semesterwochenstunden = SWS)	Formen aktiver Teilnahme	Arbeitsaufwand (Stunden)
Seminar	1	Präsentation oder Referat, Arbeitsgruppen	Präsenzzeit Seminar 15 Vor- und Nachbereitung Seminar 45
Übung	3	Durchführung und Protokollierung von Versuchen	Präsenzzeit Übung 45 Vor- und Nachbereitung Übung 45
Veranstaltungssprache		Englisch	
Pflicht zur regelmäßigen Teilnahme		Seminar / Übung: ja	
Arbeitszeitaufwand insgesamt		150 Stunden	5 LP
Dauer des Moduls		ein Semester	
Häufigkeit des Angebots		wechselnd	
Verwendbarkeit		Bachelorstudiengang Biologie, Studienbereich ABV (Kompetenzbereich Fachnahe Zusatzqualifikationen)	