Title:	**Evolutionary biology**
Lecture hours:	15
Study period: (summer/winter)	winter
Number of credits:	3
Assessment methods:	Assessment of written assignments and oral presentations
Language of instruction:	English
Prerequisites:	High-school level knowledge of ecology and genetics
Course content:	1. Introduction to evolutionary biology 2. Variation: the foundation of evolution 3. Genetic drift 4. Natural selection and adaptation 5. Individual selection and group selection 6. Sex and reproductive success 7. The origin of species 8. Evolutionary medicine 9. Evolutionary science and creationism
Learning outcomes:	By the end of this course, students should be able to: 1. Demonstrate an understanding of key concepts in evolutionary biology 2. Explain the main forces of evolution and the interplay among them over evolutionary and ecological time-scales 3. Apply evolutionary principles in interpreting human health issues 4. Counter arguments against evolution and critically evaluate popularized writings, films, debates etc. which use evolutionary argumentation 5. Demonstrate the ability to understand and use information from scientific papers. 6. Demonstrate skill in communication of their ideas in writing and in oral presentations.
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Literature:	Carl Zimmer, Douglas Emlen 2012. Evolution: Making sense of life. Roberts & Company Zimmer C. 2014. The Tangled Bank: An Introduction to Evolution. Roberts & Company Futuyma D. 2013. Evolution. Sinauer Associates, Inc.