



## STREAM ECOLOGY

**Instructor: Jacob VanHouten, Fulbright Scholar Visiting Professor**

**Delta College, Michigan - USA**

**The course will be organized in a three-day block on 22.-24. 10. 2021; ended by colloquium.**

**A short description:** Water is the dominate feature on earth, with streams and rivers being a major portion of our global hydrologic cycle. Stream Ecology is the investigation of ecological patterns and processes and this course will investigate physical processes, stream biota and community interactions. This short, intensive course, will consider each of these topics as a pattern within the larger global cycle. It will provide an overview of the three major concepts through lecture, discussion and analysis. Within these, various topics will include, but not be limited to: stream morphology; stream flow; abiotic impacts; macroinvertebrates; fish; microbial communities; benthic organisms; resource interactions; trophic relationships; and macroinvertebrate drift. From this we will determine what patterns and distributions are likely to inform ecological mechanisms. By taking this class, students from across natural sciences will become more proficient at understanding these and other topics, with student interests being a major driver for course content emphasis. The course is intended to inform, not “stress”!

**Requirements for enrolled participants:** Besides lectures, enrolled participants will enrich their learning experience through investigation of **a course topic** (selected by the student from a provided list) in which they will research a given specific/focused topic. From this research they **will present findings at the end of the class**. This will provide an opportunity to “dig deeper” into a subject of the student interest. Instructor will provide valuable input and guidance along the way. For specific content information contact: [jwvanhou@delta.edu](mailto:jwvanhou@delta.edu).

Contact for other technical details: Michal Horsák, [horsak@sci.muni.cz](mailto:horsak@sci.muni.cz)

