Title:	**Bioinformatics**
Lecture hours:	30
Study period: (summer/winter)	Winter OR Summer
Number of credits:	3 ECTS
Assessment methods:	Laboratories
Language of instruction:	English
Prerequisites:	High school biology Basic computer skills
Course content:	Scientific search engines, tools and databases; NCBI/ENA database filtering and data acquisition; introduction to Linux system and command line programs; sequencing data QC; read preparation for genome assembly; bacterial genome assembly and quality assessment; reduced representation library population genomics analysis walkthrough.
Learning outcomes:	Students will acquire basic bioinformatics skills in the use of Linux and Windows-based bioinformatics programs for: sequencing and phenotypic data acquisition from external databases; genome assembly and analysis; population genomics analysis.
Name of lecturer:	dr. Bartosz Kamil Ulaszewski
Contact (email address):	ulaszewski@ukw.edu.pl
Literature:	Jin Xiong (2007). Essential Bioinformatic . Cambridge University Press Current original papers and review articles