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Code	<b>ECE 561</b>
Name	<b>Bioinformatics</b>
Hour per week	3 (3 + 0)
Credit	3
ECTS	10
Level/Year	Graduate / anytime
Semester	Fall - Spring
Type	Elective
Prerequisites	-
Content	This course introduces computational techniques for mining the large amount of information produced by recent advances in molecular biology, such as genome sequencing and microarray technologies. Together with the minimal biological background necessary for a computer-engineering student, some of the most basic and useful algorithms for sequence analysis and their applications to current genomics research will be presented. Topics to be covered also include clustering and classification algorithms for the analysis of gene expression data, methods to analyze large scale biological networks.

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