Department: Mathematics and Computer Sciences
Division: Computer Sciences
Level and Major: Graduate

Course Title: Special Topics in Artificial Intelligence
Number of Credits: 3
Prerequisite: Permission Group
Lecturer:

Course Description:

Course Goals and Objectives:

Course Topics:

- Hidden Markov Model and its Application in Bioinformatics (e.g. sequence and profile alignment) Deep Learning and their Application in Bioinformatics (e.g. secondary structure prediction, fold prediction, contact prediction)
- Support Vector Machine and its Application in Bioinformatics (e.g. protein fold recognition, mutation prediction)
- Bayesian Networks and their Applications in bioinformatics (e.g. gene regulatory network)

Reading Resources:

Evaluation: