MS BIOINFORMATICS ACADEMIC REQUIREMENTS

Non-thesis Option

Overall, the achieve depth and breadth, Bioinformatics students must complete the following:

• Six (6) required courses
• Internship enrollment
• Four (4) 400-level Bioinformatics electives

Major Requirements (17 credit hours):

• Bioinformatics (BIOL 488) – 3 credit hours
• Proteomics (CHEM 465) – 3 credit hours
• Computational Biology (COMP 483) – 4 credit hours
• Quantitative Methods in Bioinformatics (STAT 437) – 4 credit hours
• Advanced Bioinformatics (BIOI 500) – 2 credit hours
• Bioinformatics Seminar (BIOI 501) – 1 credit hour

Four Bioinformatics Electives (12 credit hours): Students can select from any BIOL, CHEM, COMP, or STAT 400-level class identified in the list of Bioinformatics electives. Electives must be selected from at least two different departments.

Bioinformatics Internship (BIOI 498) – 1 credit hour: Internship opportunities must be approved by the Graduate Program Director (GPD) prior to the start of the internship. Students must enroll for this course during the time in which he/she is interning (i.e. credit cannot be earned retroactively). Internships can be paid or un-paid. At the conclusion of the semester, the student will be required to provide both a written and oral report of his/her internship experience. Students participating in an internship will be assigned a faculty advisor which will serve as a liaison between the university and the institute/company in addition to serving as a resource for the student when preparing his/her presentation.

Internship Procedures:
1. During the semester prior to the start of the internship, the student must obtain approval from the GPD by completing the appropriate form. This form requires a signature from the sponsoring institution, company, or individual.
2. Upon approval by the GPD, the student will be enrolled in the Bioinformatics Internship course and will be assigned a LSC Bioinformatics-affiliated faculty advisor.
3. The student will be required to complete a 1 page mid-semester status report and submit it to his/her faculty advisor.
4. At the conclusion of the semester, the student will submit a written report of the internship experience as well as deliver an oral presentation of his/her internship experience. The written report will be submitted for approval by the student’s faculty advisor.
5. Upon approval by the faculty advisor, the report will be submitted to the GPD for final approval.