The following is a list of Bioinformatics Electives:

**Biology**
- Genomics (BIOL 495)*
- Human Molecular Genetics (BIOL 495)*
- Metagenomics (BIOL 495)*
- Microbiology (BIOL 488)**
- Molecular Genetics (BIOL 482)*
- Scientific Logic and Critical Thinking (BIOL 495)

**Chemistry**
- Computational Biochemistry (CHEM 435)
- Enzymology (CHEM 465)
- Introduction to Spectroscopy (CHEM 455)
- Medicinal Chemistry (CHEM 425)
- Plant Biochemistry (CHEM 465)
- Protein Crystallography (CHEM 465)

**Computer Science**
- Algorithms and Complexity (COMP 460)
- Computational Neuroscience (COMP 486)
- Data Warehousing and Data Mining
- Database Programming (COMP 453)
- Distributed Systems (COMP 439)
- Intermediate OO Development (COMP 413)
- Theor of Programming Languages (COMP 471)

**Statistics**
- Applied Regression Analysis (STAT 408)
- Categorical Data Analysis (STAT 410)
- Stochastic Processes (STAT 406)
- Topics in Biostatistics (STAT 436)
- Statistical Design and Analysis of Experiments (STAT 407)

* If enrolled in at the 400-level can be used to count as both a BS BIOL and MS BIOI elective.
** If enrolled in at the 400-level can be used to count as both a BS BIOL and MS BIOI elective. Enrollment in the accompanying 300-level Microbiology laboratory can count as one of the BS BIOL required laboratories.

**Selection of Bioinformatics Electives differs between the two tracks.**

**Thesis track (1 elective required):**
- No stipulation regarding the department of the elective.

**Non-thesis track (4 electives required):**
- One elective must be from Biology
- From the four required electives, courses must be selected from three departments

Approved 12.2016