Bioinformatics is considered by many to be the integration of biology and computer science. The Master’s Program in Bioinformatics and Computational Biology is designed to provide students with the high-quality training and education that prepares them for careers in science, industry and health care. The program’s curriculum has been designed accordingly and provides the theoretical background, practical training and, with the completion of the internship, the “real-life” experience to pursue these goals. The Bioinformatics program has been developed to provide a novel interdisciplinary and concentrated program of study that is designed for students interested in either future doctoral or professional programs or industrial applications. The program integrates several disciplines, including bioinformatics, biochemistry, molecular biology, genetics, genomics, mathematics, computer science and engineering, epidemiology and biostatistics, biomedical engineering and biomedical ethics to provide a solid educational foundation. The rigorous program allows students to demonstrate their full academic ability for future graduate programs or employment opportunities. The interdisciplinary program promotes the broad intellectual focus required of future graduate students in bioinformatics. The courses integrate modern teaching methods with extensive student participation designed to improve their oral and presentation skills that are critical to their future professional development.

**CURRICULUM**

**SEMESTER I**
- GMS 6200C Biochemistry, Molecular and Cellular Biology
- BCH 6888 Bioinformatics
- MAT 5932 Combinatorics and Graph Theory

**SEMESTER II**
- BCH 6411 Biomedical Genomics and Genetics
- BCH 6889 Bioinformatics II
- MAT 5932 Selected Topics in Probability Theory

**SEMESTER III**
- BCH 6935 Scientific Writing and Ethics
- CIS 6930 Advanced Data Structures
- MAT 6932 Sel. Topics in Bioinformatics and Comp. Biol.
- Elective

**SEMESTER IV**
- Elective
- Elective
- GMS 7930 Bioinformatics Internship I and II

**Total program hours:** 42 credit hours

**Program Details**

**Admission requirements:** The prerequisites for admission are:
- A bachelor’s degree or its equivalent from a regionally-accredited college.
- A minimum undergraduate GPA of 3.0 on a 4.0 scale
- Minimum GRE score

**Application process:** Please visit [http://health.usf.edu/medicine/graduateschools](http://health.usf.edu/medicine/graduateschools) for more information. In addition to the application please submit:

- Official transcripts (International transcripts must be evaluated by Academic Evaluation Services, Inc. [http://aes-edu.org](http://aes-edu.org) and must include GPA)
- A resume or CV
- A statement of interest describing your objectives in pursuing this course of study
- 3 letters of recommendation

For more information, contact:
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