

BIOINFORMATICS MINOR

This minor provides solid exposure to bioinformatics with an emphasis on microbes. With the avalanche of genomic information available, bioinformatics skills are necessary to mine and analyze genomic data.

About this Program

- **College:** Agricultural and Life Sciences (<http://catalog.ufl.edu/UGRD/colleges-schools/UGAGL/>)
- **Credits:** 15-16 | Completed with minimum grades of C
- **Contact:** Email (vcrecy@ufl.edu) | Email (bryank@ufl.edu)

Department Information

The Department of Microbiology and Cell Science is committed to excellence in education, research and service to the community. The curriculum provides an excellent preparation for students who wish to enter the workforce or continue their education in professional programs such as medical, dental, pharmacy, veterinary programs, graduate school or public health degrees. B.S. degrees are offered through both the College of Agricultural and Life Sciences and the College of Liberal Arts and Sciences and the M.S. and Ph.D. degrees are offered through the College of Agricultural and Life Sciences. Combination degrees are available.

Website (<http://microcell.ufl.edu/>)

CONTACT

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MICROBIOLOGY AND CELL SCIENCE BUILDING (MCSB)

GAINESVILLE FL 32611-0700

Map (<http://campusmap.ufl.edu/#/index/0981>)

Curriculum

- Bioinformatics Minor
- Combination Degrees
- Microbiology and Cell Science UF Online
- Microbiology and Cell Sciences | CALS
- Microbiology and Cell Sciences | CLAS
- Pathogenesis Minor

This minor is open to all students who have a science background and who meet course prerequisites.

It is particularly appropriate for students majoring in biology, mathematics, microbiology and cell science, statistics and zoology, and for students who are interested in professional programs in dentistry, medicine and pharmacy.

Microbiology and cell science majors should meet with their academic advisors before applying to this minor to plan a program of study. No more than three credits of the required courses below and 3-4 credits of the electives below can count toward both the major and the minor.

There are 12 required credits, consisting of three courses and a capstone independent study course, and one 3 or 4 credit elective.

Required Courses

| Code | Title | Credits |
|-------------------|--|---------|
| Select one: | | |
| BSC 2891 | Python Programming for Biology (spring only) | 3 |
| CAP 5510 | Bioinformatics (fall only) | |
| BSC 4434C | Introduction to Bioinformatics | 3 |
| BSC 4913 | Independent Research in Bioinformatics | 3 |
| MCB 4320C | The Microbiome (spring only) | 3 |
| Approved elective | | 3-4 |
| Total Credits | | 15-16 |

Approved Electives

| Code | Title | Credits |
|----------|---|---------|
| BSC 4914 | Advanced Independent Research in Bioinformatics | 3 |
| HOS 3305 | Introduction to Plant Molecular Biology (fall only) | 3 |
| MAP 4484 | Modeling in Mathematical Biology (spring only) | 3 |
| PCB 3063 | Genetics | 4 |
| PCB 4674 | Evolution (fall and spring only) | 4 |
| PCB 5065 | Advanced Genetics (fall only) | 4 |