BIOINFORMATICS: CROP SCIENCES, MS

for the Master of Science in Bioinformatics, Crop Sciences Concentration

head of department: Adam Davis
advisor: Nathan Schroeder
department website: https://crops.crops.illinois.edu/
email: cptomlin@illinois.edu
overview of grad college admissions & requirements: https://grad.illinois.edu/admissions/apply
(college website: https://aces.illinois.edu/)
department office: AW-101 Turner Hall, 1102 South Goodwin Avenue, Urbana, IL 61801
phone:(217) 244-0396

Graduate Degree Programs in Crop Sciences

Crop Sciences, MS (http://catalog.illinois.edu/graduate/aces/crop-sciences-ms/) (on campus & online)
Bioinformatics: Crop Sciences, MS (p. 1)
Plant Biotechnology, MS - Professional Science Master’s
(http://catalog.illinois.edu/graduate/aces/plant-biotechnology-ms-professional-science-masters/)
Crop Sciences, PhD (http://catalog.illinois.edu/graduate/aces/crop-sciences-phd/)

The genomic and proteome projects are generating large amounts of complex biological data that require effective storage, retrieval, analysis and interpretation. The bioinformatics degree program provides students with the skills necessary to augment the understanding and use of agricultural, biological and medical information and resources through the application of molecular, chemical, physical, computational, statistical, mathematical and informatic techniques. Students interested in this program may come with undergraduate training in one of the following areas:

1. biological and agricultural sciences,
2. statistical, mathematical and computer sciences,
3. informatics and engineering sciences.

Graduates from the bioinformatics program will be able to integrate basic and applied concepts in the three areas and apply them to biotechnology and medical research. For additional information, please see our website at https://crops.illinois.edu/graduate/.

Admission

Applicants are considered for admission to the Master of Science program if they have a bachelor's or equivalent degree comparable to that granted by the University of Illinois. Strong letters of reference, evident motivation to undertake graduate study, and good preparation in basic science courses enhance an applicant’s credentials. For some programs, greater emphasis is given to previous training in plant sciences, chemistry, or mathematics. A grade point average equivalent to at least a B in the last 60 semester hours of undergraduate course work plus any graduate level work completed is required. All applicants whose native language is not English are required to submit the results of the TOEFL or IELTS as evidence of English proficiency. Official scores are required to be submitted directly from TOEFL/ETS or IELTS to the University.

Additional information for international applicants can be found at: https://grad.illinois.edu/admissions/apply/begin/international (https://grad.illinois.edu/admissions/apply/begin/international/). Please see our web page for additional information: https://crops.illinois.edu/graduate/admissions/.

Graduate Teaching Experience

Experience in teaching is considered an important part of the graduate experience in this program.

Faculty Research Interests

Please refer to the following webpage for a detailed listing of our faculty and their areas of interest https://crops.illinois.edu/people/faculty/.

Financial Aid

Fellowships and assistantships are available to outstanding students on a competitive basis. Awards for financial assistance are based principally on a candidate’s academic record, statement of plans, and letters of reference.

for the Master of Science in Bioinformatics, Crop Sciences Concentration

The Crop Sciences concentration within the M.S. degree in Bioinformatics can be earned with a thesis option or a non-thesis option, which requires optional supervised research experiences.

For additional details and requirements refer to the department’s graduate handbook (http://crops.illinois.edu/sites/cropsci.illinois.edu/files/pdf/Grad_Student_Handbook_2013.pdf) and the Graduate College Handbook (http://www.grad.illinois.edu/gradhandbook/).

Thesis Option

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### Other Requirements

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### Total Hours

#### Other Requirements

- Other requirements and conditions may overlap
- A concentration is required
- Minimum Hours Required Within the Unit: 5
- Minimum 500-level Hours Required overall: 12
- Minimum GPA: 3.0

#### Non-Thesis Option

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