Independent Research in Bioinformatics BSC4913/14

3 credits

The class will meet in person every other week in room MCS 1254 on Wednesdays from 3 to 5 pm [attendance by Zoom can be organized for UF online students]. The class will be split into two groups, each meeting in one-hour blocks (3pm to 4pm and 4pm to 5pm). Specific class dates and group compositions will be decided after the first class.

Instructors

Dr. Valérie de Crécy-Lagard, Distinguished Professor, Microbiology and Cell Science, Room 1251
Dr. Luiz Passalacqua, Assistant Professor, Microbiology and Cell Science, Room 1147

Course Website

Login available through Canvas https://elearning.ufl.edu/

Contact Information

Email (the most efficient): Use Canvas e-mail for instructors as a priority. (If you do not have access to the e-learning platform and if it is an emergency, use vcrecy@ufl.edu AND lmoreirapassalac@ufl.edu. For resolving technical issues, visit the helpdesk website (https://helpdesk.ufl.edu) or call 352-392-4357.

Office Hours

By appointment (Live or Zoom)

Course Description

https://microcell.ufl.edu/mcs-apps/bioinfo/site/BioinfoCapstone.html
Independent Research in Bioinformatics provides students with an opportunity to perform real-world bioinformatics research within a biology-related laboratory at the University of Florida. Students will plan and execute a 1-semester bioinformatics research project under the supervision of a UF research faculty advisor. In addition, students will gain experience communicating their research project to a diverse audience and will learn how to write up their work in the form of a scientific research paper.
IN THE BIOINFORMATICS MINOR CAPSTONE EXPERIENCE, YOU WILL GAIN:

- Practical bioinformatics research experience in a 'real-world' situation.
- Guidance in scientific communication and how to write a bioinformatics research paper.
- Networking opportunities with other UF students engaged in bioinformatics.

Prerequisites

You will need to have completed at least 2 of the 3 courses required for the bioinformatics minor:
You will need at least a B grade in all the minor courses you have completed to register for BSC 4913.

Recommended Text

Scientific Writing and Communication: Papers, Proposals, and Presentations 4th Edition, Angelika H. Hofmann ISBN-13: 978-0190063283

Grading Scheme

Course letter grades will be derived using the following grading scheme, based on the student's earned percentage of total possible points available from all course assignments.

Letter Grade	Range	
A	100%	to 90%
A-	< 90%	to 87%
B+	< 87%	to 84%
B	< 84%	to 80%
C	< 80%	to 70%
D	< 70%	to 60%
F	< 60%	to 0%

For more details of the University of Florida grading policy please visit:
https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx

Assignments

One-page Project Summary (10 points)
Paper outline (10 points)
Paper First draft (10 points)
Paper Second Draft (10 points)
Final paper (100 points)

Attendance:

Class attendance is mandatory. For planned excused absences, such as interviews, you must contact the instructor 48 h in advance of the missed class and provide adequate documentation. Accommodations to connect by zoom can be organized with advance notice.
Requirements for class attendance and make-up exams, assignments and other work are consistent with university policies that can be found at:
https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx.

Software and AI Use

All faculty, staff and students of the university are required and expected to obey the laws and legal agreements governing software use. Failure to do so can lead to monetary damages and/or criminal penalties for the individual violator. Because such violations are also against university policies and rules, disciplinary action will be taken as appropriate.

You may use AI programs e.g. ChatGPT to help generate ideas and brainstorm. However, you should note that the material generated by these programs may be inaccurate, incomplete, or otherwise problematic. Beware that use may also stifle your own independent thinking and creativity. You may not submit any work generated by an AI program as your own. If you include material generated by an AI program, it should be cited like any other reference material (with due consideration for the quality of the reference, which may be poor). Any plagiarism or other form of cheating will be dealt with severely under relevant UF policies.

Academic Policies and Resources

Academic policies for this course are consistent with university policies. See https://syllabus.ufl.edu/syllabus-policy/uf-syllabus-policy-links/

Campus Health and Wellness Resources

Visit https://one.uf.edu/whole-gator/topics for resources that are designed to help you thrive physically, mentally, and emotionally at UF.

Please contact UMatterWeCare for additional and immediate support.

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Privacy and Accessibility Policies

[required for online courses, list all technology used]

- Instructure (Canvas)
  - Instructure Privacy Policy
  - Instructure Accessibility
- Zoom
  - Zoom Privacy Policy
  - Zoom Accessibility