Spring 2019 | Bioinformatics Audit
Workshops at MSU | Registration

The Department of Computational Mathematics, Science, and Engineering https://cmse.msu.edu is offering five bioinformatics audit workshops during the Spring 2019 semester.

**Track 1:**
Module 301: January 9 -- February 6: Programming Foundations for Bioinformatics
Module 302: February 18 -- March 20: Statistical Analysis and Visualization of Biological Data

**Track 2:**
Module 303: January 15 -- February 7: Introduction to Data Handling: Unix and Python
Module 304: February 19 -- March 21: Intro to Genomics and Sequence Analysis
Module 305: April 2 -- April 25: Transcriptomics

Track 1 meets from 3:00pm -- 4:50pm, Mondays and Wednesdays, 129 Hubbard Hall. Track 2 meets from 3:00 -- 4:50pm, Tuesdays and Thursdays, 128 Hubbard Hall. Cost is $50 per person per workshop and must be paid via an MSU account (general account preferred but grant accounts accepted). Note that the workshop fee will only be this low during the Spring 2019 semester; expect the fee to increase in following semesters to cover administrative costs.

These workshops are only open to postdocs, faculty, research staff, and other persons who are affiliated with MSU and have a NetID, but not enrolled. MSU students are encouraged to take CMSE 890 Sections 301, 302, 303, 304, and 305.

Registration fees will be collected the second week of each module.

It is not necessary to attend all five workshops, but the later workshops will be offered with the expectation that registrants have a background equivalent to the earlier workshops in the track. There will NOT be time or personnel to help registrants learn material that was covered in earlier workshops.

**Registration Information**

1. Name _________________________
2. MSU NetID _______________________
3. Preferred Email (only if different from your MSU Email) ___________________________
4. PI or Advisor _____________________________
Prerequisites:

Module 301 -- Programming Foundations in Bioinformatics has no prerequisites other than basic computer skills (email, web surfing, installing software on one’s own laptop).

Module 302 -- Statistical Analysis and Visualization of Biological Data has the prerequisite of Module 301 or equivalent R programming experience.

Module 303 -- Introduction to Data Handling has no prerequisites but prior programming experience or coenrollment in Module 301 is strongly recommended.

Module 304 -- Introduction to Genomics and Sequence Analysis has the prerequisite of Module 303 or equivalent Unix/Python experience.

Module 305 -- Transcriptomics has the prerequisite of Module 304 or equivalent knowledge of genomics and Module 302 or equivalent experience in R programming and basic statistics.

7. Which workshops do you want to attend?

*301 -- Programming Foundations
*302 -- Statistical Analysis and Visualization of Biological Data
*303 -- Introduction to Data Handling: Unix and Python
*304 -- Introduction to Genomics and Sequence Analysis
*305 -- Transcriptomics

8. Laptop Availability (you have a…)

*Mac Laptop
*Window Laptop
*ChromeBook
*Linux Laptop
*Other ________
9. What topics would you like to see as future workshops?

* Phylogenomics
* Intro to Structure: Modeling/Simulating Proteins, Nucleic Acids, and Small Molecules
  * Intro to Hardware: Data Collection (3D printing, automated sensors, raspberry pis, robots, drones)
  * Intro to Hardware: Visualization (augmented/virtual reality)
  * Code Optimization (C++ and comparative programming)
  * Other _____

10. Do you want to be on the Bioinformatics Email List?

* Yes
* No
* Already there