

Course \_\_447:302\_\_

Instructor \_\_Tara Matise\_\_\_\_\_

- 1) Please provide a brief overview of how the course will be run.

This course consists of 4 modules – the first runs about 10 weeks and is instruction in basic Python programming. The 3 that follow are opportunities to continue practicing Python programming while exploring a few different topic areas in Genetics and Computational Biology. Our goal is to help all students be successful in this class. The course is designed for beginners, those with zero computer programming experience. We move at a pace that is appropriate for beginners. Those with some experience (either with Python or with a different language) are welcome if the course content seems interesting, but must recognize the pace is designed for beginners.

- 2) What does synchronous/asynchronous mean for this course? When are students expected and/or required to be online?

The course will be run remote using Zoom synchronously during our assigned class time. Attendance is expected during each class, and is critical for success. All classes will be recorded and can be made available to students who must miss class. Most classes will be a presentation by the instructor followed by live demos and then, often, some time remaining for students to begin the homework. Starting the homework during the course period means the instructor and TA are on Zoom and available to help if needed.

- 3) Will there be regular deadlines for assignments/quizzes/etc. during the week?

There is a homework assignment for most classes, submitted online and due shortly before the following class. There will be a small number of pop quizzes.

- 4) When and how will help be provided to the students by the course instructor and/or TAs?

Office hours are held on Zoom by the instructor and TA on an as-needed basis.

- 5) Any specific advice for students to be successful in the course?

This is a class where the material in each class builds upon material in the previous classes. It is critical to attend every class session and do the homework promptly. Similar to learning a foreign spoken language, it is not possible to achieve basic proficiency in Python programming unless you practice. It is also critical to alert the instructor or the TA as soon as possible if you are not able to understand what is being taught. We can re-teach and provide extra practice if needed.

- 6) What technology is required?

A personal computer or laptop is needed. Students will need to install the free Anaconda Navigator software

<https://docs.anaconda.com/anaconda/install/>. Detailed instructions to supplement the online instructions will be provided.