

VCU Math Fall 2021 Course

Experimental Mathematics (MATH 353)

Prof Craig Larson

MWF 9:00–9:50
2127 Harris Hall (Computer Lab)

Course Description. An introduction to a mathematical computing package, computer manipulation of lists and sets, and symbolic computing. Numerical computation will be used to investigate mathematical objects, such as integers, prime numbers, graphs, matrices and to identify properties and patterns among these objects. Random methods will be used to explore properties and patterns in long sequences and large collections.

We will be using the **Python** programming language, the **Sage** mathematical programming environment, as well as Larson & Van Cleemput's **CONJECTURING** program. You will leave with real programming skills and the ability to experiment with math problems and questions you encounter in your other classes (and life!) Tell your friends.

The Prerequisite is Math 201, with a minimum grade of C.

