Course Description

Have you ever wondered how your favorite software is created? Explore the software development life cycle from start to finish while developing your own programming skills with Python. Explore the power of data and algorithms along with their influence upon the world. Launch yourself into the endless possibilities a career as a programmer can bring you!

Building on the prior prerequisite course, discover how programming can solve a vast array of problems in Intro to Programming 1b! Plan and develop a problem-solving program while performing testing, debugging, and quality assurance procedures. Design and plan your own app as part of your capstone project to give you a thorough introduction to the world of programming.

Introduction to Programming 1a and 1b are each semester-long courses consisting of 8 units.

Course Overview

Introduction to Programming 1a:

- Software Development 101
- Speaking the Language
- Problems and Solutions
- A Deep Dive with Data
- All About Algorithms
- The Data Files
- Running with Numbers
- Skill Spotlight: A World of Programming

Introduction to Programming 1b:

- Designing Programs
- Plan for Success
- Abstraction
- Quality Assurance
- Running the Tests
- Legal and Ethical Computing
- Safe and Secure
- Skill Spotlight: Involved and Informed

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Required Course Materials

Please access the list of course materials from the OC Online book ordering system and order your materials as soon as possible. Oftentimes, course materials are on back order and you may experience a delay in receiving them, causing students to fall behind in their online coursework. When ordering used or rented materials, be careful that online access codes are also current.

Methods of Evaluation

Students will demonstrate mastery through the following formative and summative assessments:

- 40%   Assignments
- 10%   Participation (Discussion Posts, Live Classes)
- 10%   Quizzes
- 25%   Final Assessment
- 15%   Midterm

Additional Course Information

Detailed information regarding OC Online policies on proctored final exams, grading policy, late/missing assignment policy, weekly live classes, course expectations, and additional school policies can be found on the website.

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