

CS 104 Computer Programming and Graphics Problems

Course Syllabus, Fall 2011

Course Description: An introduction to programming and problem solving skills using Python, a very high level language. Topics include basic strategies for problem solving, constructs that control the flow of execution of a program and the use of high level data types such as lists, strings and dictionaries in problem representation. The course also presents an overview of selected topics in computing, such as networking and databases.

Textbook: Python Programming in Context, Bradley N. Miller and David L. Ranum

Course Policies

Attendance is mandatory. A student who misses more than 5 classes will be dropped, without credit. Getting to class late or leaving early counts as half an absence.

You must bring the textbook to class. Photocopies of the text are not an acceptable substitute.

Moodle (<http://moodle.njit.edu/>) will be used for course discussion.

Homework and projects must be submitted in hard copy at the beginning of class and via Moodle on the due date. They will not be accepted late except for special circumstances (such as jury duty or medical problem), for which you must provide documentation. Each project will consist of a written and an oral presentation. All submitted work (including exams) must include your name and student ID.

Plagiarism will result in zero credit for the assignment and/or an XF grade in the course.

Cell phones must be turned off during class.

Students will be informed of any modifications of the syllabus during the semester.

Material covered

Chapter 1 Data types, functions, repetition

Chapter 2 Pi-thon

Chapter 3 Text and codes

Chapter 4 Lists and dictionaries

Chapter 5 Files, while loops and logical expressions

Chapter 6 Parameter passing and scope

Chapter 7 Data mining

Chapter 10 Defining a class

Roadmap modules 1-6

Grading Formula

Homework	15%
2 Projects	15%
Midterm 1	20%
Midterm 2	20%
Final Exam	25%
Participation	5%

Exam Policies

You must bring a photo ID to all exams. Students with special needs are advised to make arrangements with Disability Services.

There are no makeup exams. If you miss a midterm because of a documented special circumstance you may receive an imputed grade based on the other midterm.

If you believe that you deserve more credit than you have been awarded on a particular exam problem, you may request, within 48 hours of the exam being returned, that it be regraded. Your entire exam will be regraded, which may result in points being added or subtracted.

Exams do not require any portable electronic devices, such as cell phones or calculators, and all such devices must be put away and turned off during the exam.

University Code on Academic Integrity

Every student should read the University Code on Academic Integrity (<http://www.njit.edu/academics/integrity.php>). All work that you represent as your own must, in fact, be your own. Work done by others must be given proper credit.