Catalog Description: Prerequisite: Mathematics 1503 or concurrent enrollment. Introduction to the design and implementation of computer programs in the language Python. We will cover data types, control flow, iterations, functions, and the use of external libraries for text processing, graphics, image manipulation, web programming and others. Emphasis on problem solving with examples drawn from diverse disciplines. (F, Sp)

Lecture:
T/R 3:00-4:15 PM
Location: PHYS 108

Instructor:
Austin Graham
Email: austin.p.graham-1@ou.edu
Office Hours: T/R 10AM-11AM
Location: Outside DEH 210

Teaching Assistant:
Sai Teja Kannegati
Email: kannegantisaiteja@ou.edu
Office Hours: TBD
Location: TBD

Lab Sections:
Section 011: DEH 120
Time: 11:30 AM - 12:30 PM
Section 012: DEH 120
Time: 12:30 - 1:20 PM


The textbook is used only for personal reference. All assignments are custom.

Grading:
The course letter grade will be assigned based on the overall percentage: 90-100 (A), 80-89 (B), 70-79 (C), 60-69 (D), <60 (F). The allocation of percentages is given below:
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<tbody>
<tr>
<td>Exam 1</td>
<td>15%</td>
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<td>Exam 2</td>
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<td>Homework</td>
<td>20%</td>
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<tr>
<td>Labs</td>
<td>25%</td>
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<td>Final</td>
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**Exams:**
Each exam is comprehensive. They will include the analysis, tracing, and writing of programs.

**Homeworks:**
There will be approximately one homework each week. These will contain questions focused on the theoretical foundations of programming with small snippets of code writing. These are to be turned in by hard copy, however you may type your answers if you wish.

**Labs:**
Labs will contain the bulk of the programming practice. You will be asked to solve a reasonably hard problem given approximately two weeks. We completely understand that Googling is an important aspect of modern programming, although completely copied and pasted projects will be turned into the Academic Misconduct Office. One or two lines accompanied with an explanation and citation is permissible. Accompanying each lab will be a documentation write up that will be turned in with the source code.

**Attendance/Participation:** Attendance will not be tracked, however group activities completed correctly during lectures may offer extra credit opportunities.

**Accommodations:** Any student with a disability should contact the instructor so that reasonable accommodations may be made for that student.

**Adjustments for Pregnancy/Childbirth Related Issues:** Should you need modifications or adjustments to your course requirements because of documented Pregnancy related or childbirth-related issues, please contact me as soon as possible to discuss. Generally, modifications will be made where medically necessary and similar in scope to accommodations based on temporary disability. Please see http://www.ou.edu/eoo/faqs/pregnancy-faqs.html for commonly asked questions.

**Title IX Resources:** For any concerns regarding gender-based discrimination, sexual harassment, sexual misconduct, stalking, or intimate partner violence, the University offers a variety of resources, including advocates on-call 24.7, counseling services, mutual no contact
orders, scheduling adjustments and disciplinary sanctions against the perpetrator. Please contact the Sexual Misconduct Office 405-325-2215 (8-5) or the Sexual Assault Response Team 405-615-0013 (24.7) to learn more or to report an incident.