CS 1314
Introduction to Programming &
Problem Solving

Instructor: Dr. Steve Bannerman
Email: sbannerman@angelo.edu
Phone: +1.804.277.9579
Office: N/A

Office Hours: None (but responsive to email)

Course Information

Course Description
This course will start teaching you how to program with Python.

Prerequisite and Co-requisite Courses
None.

Prerequisite Skills
Some programming experience will likely help, as will an interest in programming and abstract mathematics.

Student Learning Outcomes
Upon completion of this course, students will be able to:

- Read and write basic Python programs
- Recognize and use some of the many Python libraries
- Analyze basic problems and use Python to provide a solution
- Progress to the next level with the Python language

Course Delivery
This is a face-to-face course with learning resources and supplemental materials posted in Blackboard.
Required Texts and Materials
Starting out with Python, Gaddis, 9780134444321

Technology Requirements
Strictly speaking, you do not need anything beyond the textbook to complete the course. You can complete quizzes, assignments, and exams during class time. You can a computer in class and use a normal browser to complete quizzes and submit assignments and the Respondus Lockdown Browser to complete exams.

However, it will almost certainly be helpful to have a computer that you can use outside of class. Python is available on the Windows, Mac, and Linux operating systems and thus everybody that has a computer outside of class should be able to practice with their own Python installation on it.

Communication
I will generally respond to email and/or telephone messages within 24 hours during working hours Monday through Saturday. However, weekend messages may not be returned until Monday.

Written communication via email: All private communication will be done exclusively through your ASU email address. Check frequently for announcements and policy changes. In your emails to faculty, include the course name and section number in your subject line.

Virtual communication: Office hours and/or advising may be done with the assistance of the telephone, Collaborate, Skype, etc.

Grading

Evaluation and Grades
Course grades will be determined as indicated in the table below.

<table>
<thead>
<tr>
<th>Assessment</th>
<th>Percent of Total Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quizzes</td>
<td>5</td>
</tr>
<tr>
<td>Assignments</td>
<td>45</td>
</tr>
<tr>
<td>Midterm exam 1</td>
<td>15</td>
</tr>
<tr>
<td>Midterm exam 2</td>
<td>15</td>
</tr>
<tr>
<td>Final exam</td>
<td>20</td>
</tr>
<tr>
<td>Total</td>
<td>100%</td>
</tr>
</tbody>
</table>
Grading System
Course grades will be dependent upon completing course requirements and meeting the student learning outcomes.

The following grading scale is in use for this course:
- A = 90.00-100 points
- B = 80.00-89.99 points
- C = 70.00-79.99 points
- D = 60.00-69.99 points
- F = 0-59.99 points (Grades may not be rounded up)

Assignment and Activity Descriptions
Quizzes – You will have the ability to complete a quiz each Friday, on the topics that we have covered during the week. I expect you to be in class to complete these quizzes.

Assignments – You will have the opportunity to complete an assignment each week. I will make the assignment available during the week and you’ll have until the end of the next week (Friday) to submit it – I will normally grade the assignments on the Saturday after they are due.

Exams will be completed during the normal class time, except for the final exam which will have an extra hour in case you need it – you probably won’t need the extra hour for the final.

With respect to late work, it deserves a zero. However, depending on the circumstances, I reserve the right to give more than a zero.

General Policies Related to This Course
All students are required to follow the policies and procedures presented in these documents:

- Angelo State University Student Handbook
- Angelo State University Catalog

Academic Integrity
Students are expected to maintain complete honesty and integrity in all work. Any student found guilty of any form of dishonesty in academic work is subject of disciplinary action and possible expulsion from ASU.
The College of Science and Engineering adheres to the university’s Statement of Academic Integrity.

Accommodations for Students with Disabilities

ASU is committed to the principle that no qualified individual with a disability shall, on the basis of disability, be excluded from participation in or be denied the benefits of the services, programs or activities of the university, or be subjected to discrimination by the university, as provided by the Americans with Disabilities Act of 1990 (ADA), the Americans with Disabilities Act Amendments of 2008 (ADAAA) and subsequent legislation.

Student Disability Services is located in the Office of Student Affairs, and is the designated campus department charged with the responsibility of reviewing and authorizing requests for reasonable accommodations based on a disability. It is the student’s responsibility to initiate such a request by contacting an employee of the Office of Student Affairs, in the Houston Harte University Center, Room 112, or contacting the department via email at ADA@angelo.edu. For more information about the application process and requirements, visit the Student Disability Services website. The employee charged with the responsibility of reviewing and authorizing accommodation requests is:

Dallas Swafford
Director of Student Disability Services
Office of Student Affairs
325-942-2047
dallas.swafford@angelo.edu
Houston Harte University Center, Room 112

Incomplete Grade Policy

It is policy that incomplete grades be reserved for student illness or personal misfortune. Please contact faculty if you have serious illness or a personal misfortune that would keep you from completing course work. Documentation may be required. See ASU Operating Policy 10.11 Grading Procedures for more information.

Plagiarism

Plagiarism is a serious topic covered in ASU’s Academic Integrity policy in the Student Handbook. Plagiarism is the action or practice of taking someone else’s work, idea, etc., and passing it off as one’s own. Plagiarism is literary theft.
In your assignments, it is unacceptable to copy code without indicating where you got it from (another student, Google, etc...). It is expected that you will identify your source. If you do not, that part of your work deserves a zero. However, you will be able to talk with me about it and convince me that that work is your own, if such a case arises.

Papers are subject to be evaluated for originality. Resources to help you understand this policy better are available at the ASU Writing Center.

**Student Absence for Observance of Religious Holy Days**

A student who intends to observe a religious holy day should make that intention known in writing to the instructor prior to the absence. See ASU Operating Policy 10.19 Student Absence for Observance of Religious Holy Day for more information.

**Title IX at Angelo State University**

Angelo State University is committed to providing and strengthening an educational, working, and living environment where students, faculty, staff, and visitors are free from sex discrimination of any kind. In accordance with Title VII, Title IX, the Violence Against Women Act (VAWA), the Campus Sexual Violence Elimination Act (SaVE), and other federal and state laws, the University prohibits discrimination based on sex, which includes pregnancy, and other types of Sexual Misconduct. Sexual Misconduct is a broad term encompassing all forms of gender-based harassment or discrimination and unwelcome behavior of a sexual nature. The term includes sexual harassment, nonconsensual sexual contact, nonconsensual sexual intercourse, sexual assault, sexual exploitation, stalking, public indecency, interpersonal violence (domestic violence or dating violence), sexual violence, and any other misconduct based on sex.

You are encouraged to report any incidents involving sexual misconduct to the Office of Title IX Compliance and the Director of Title IX Compliance/Title IX Coordinator, Michelle Boone, J.D. You may submit reports in the following manner:

Online: [www.angelo.edu/incident-form](http://www.angelo.edu/incident-form)
Face to face: Mayer Administration Building, Room 210
Phone: 325-942-2022
Email: michelle.boone@angelo.edu

Note, as a faculty member at Angelo State, I am a mandatory reporter and must report incidents involving sexual misconduct to the Title IX Coordinator. Should you wish to speak to someone in confidence about an issue, you may contact the University Counseling Center (325-942-2371), the 24-Hour Crisis Helpline (325-486-6345), or the University Health Clinic (325-942-2171).
For more information about resources related to sexual misconduct, Title IX, or Angelo State’s policy please visit: www.angelo.edu/title-ix.

Course Schedule

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Aug 26 - Intro week - dev env and Hello World
Sep 02 - Chapter 2 and intro to black-box testing
Sep 09 - Chapter 3
Sep 16 - Chapter 4
Sep 23 - Chapter 5 and intro to white-box testing
Sep 30 - Chapter 6
Oct 07 - Chapter 7
Oct 14 - Chapter 8
Oct 21 - Chapter 9
Oct 28 - Chapters 10 and 11
Nov 04 - Chapter 12
Nov 11 - Miscellaneous Topic (numpy)
Nov 18 - Miscellaneous Topic (matplotlib or other)
Nov 25 - Bonus Project (optional)
Dec 02 - Dead week
Dec 09 - Final exam week

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1 https://www.angelo.edu/student-handbook/
2 https://www.angelo.edu/catalogs/
3 https://www.angelo.edu/student-handbook/community-policies/academic-integrity.php
4 https://www.angelo.edu/services/disability-services/
5 https://www.angelo.edu/content/files/14197-op-1011-grading-procedures
6 https://www.angelo.edu/student-handbook/community-policies/academic-integrity.php
7 https://www.angelo.edu/dept/writing_center/academic_honesty.php
8 https://www.angelo.edu/content/files/14206-op-1019-student-absence-for-observance-of