

# CS 1314

## Introduction to Programming and Problem Solving

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### Instructor

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Office Hours: M-T-W-Th-F 1pm – 2pm or by appointment

### Course Information

#### Course Description

Basic competency in computer programming, ability to solve problems by writing computer programs, knowledge of the Python language and an introductory knowledge of object-oriented programming.

#### Prerequisite Courses

None

#### Course Goals

The goal of this course is to master the basics of computer programming and solving problems using Python programming language.

#### Student Learning Outcomes

When you complete this course, you should be able to:

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

#### Course Delivery

To maintain academic quality while accommodating social distancing needs this semester, this course will use a split delivery model that combines face-to-face teaching with remote instruction.

The goal is to provide face-to-face instruction to students who want to return to campus, while also allowing students who may need to learn remotely to participate via virtual class sessions.

#### How Does It Work?

When you are not in the physical class, you will attend live remote sessions at the same time as our scheduled course. You will also be expected to complete coursework via [Blackboard](#).<sup>1</sup>

Please refer to this [Health and Safety web page](#)<sup>2</sup> for updated information about campus guidelines as they relate to the COVID-19 pandemic.

### Required Text and Materials

Required:

- **How to Think Like a Computer Scientist – Interactive Edition** by Brad Miller and David Ranum  
<https://runestone.academy/runestone/books/published/thinkcspy/index.html>  
Register for Course ID: **Learn\_Python\_ASU\_Summer2\_2021**  
(Use your full name and **ASU user ID** as in Bb so that your grades can be moved to Bb fast)  
This textbook is an Open Educational Resource (OER), it is online and free to use.

Other Optional OER:

- **Python for Everybody** by Charles Severance
  - <https://books.trinket.io/pfe/> or <https://www.py4e.com/lessons>
- **Think Python 2e** by Allen B. Downey <https://greenteapress.com/wp/think-python-2e/>
- **How to Think Like a Computer Scientist** by P. Wentworth, J. Elkner, A. B. Downey, C. Meyers  
<http://openbookproject.net/thinkcs/python/english3e/#>
- **Python 3 Tutorial** [https://www.python-course.eu/python3\\_course.php](https://www.python-course.eu/python3_course.php)

### Technology Requirements

You do not need anything beyond the open textbooks and a computer to complete the course. You need to complete quizzes, assignments, and exams. You can use computers in ASU computer labs but it will almost certainly be helpful to have a computer that you can use of your own. Python and its related tools are 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.

**Software:** Python

- Available on the machines in the MCS computer labs.
- You can [download](#)<sup>3</sup> Python free of cost. Details will follow in class.

**Blackboard:** You are required to follow the posts and study all material posted on Blackboard.

**Respondus Lockdown Browser:** Exams will be taken on this browser. You need to install on your computer if you are taking the exams remotely.

**Computer:** You must have access to an adequate computer and Internet connectivity to participate fully in the class. A table describing supported browsers can be viewed on [Blackboard's support site](#)<sup>4</sup>.

### Communication

You are responsible for checking your ASU email account and Blackboard throughout the duration of this course.

I will generally respond to email and/or telephone messages within 24 hours.

**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 in the form of “[**CS 1314**] *subject matter*”.

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

# Grading

## Evaluation and Grades

ASU employs a letter grade system. Grades in this course are determined on a percentage scale:

Activity	Percentage
Practice	10%
Assignments	30%
Quizzes	30%
Project	30%

Grade	Percentage
A	90 – 100
B	80 – 89
C	70 – 79
F	0 - 59

## Assignment and Activity Descriptions

*Practice* – You will be given reading assignments from the textbook. After reading and completing sections/chapters, you can answer practice questions at the textbook site (under user menu). You can answer up to 5 questions a day, for up to 33 days, and get up to 3 points per day.

*Assignments* – You will be given assignments after covering each chapter. You need to submit them before deadlines. No late assignment is accepted unless a reasonable excuse is provided.

*Quizzes* – Several tests and programming problems will be given on Bb and textbook site, to be completed by the given deadlines.

*Project* – The best way of learning programming is by doing it. So, you will develop a team project in the last two weeks of the course practicing all you learned in the course.

## Course Schedule (subject to change)

Week	Topics	Tasks
1	Ch.1. Introduction Ch.2. Variables, Expressions, Assignments, Operators, Operands, Input Ch.3. Debugging; Ch.4. Turtle Graphics	Read chapters Complete practice questions and assignments <b>Quiz 1</b>
2	Ch.4. Iterations Ch.5. Modules Ch.6. Functions Ch.7. Selection	Read chapters Complete practice questions and assignments <b>Quiz 2</b>
3	Ch.8. More iterations Ch.9. Strings Ch.10. Lists and Tuples Ch.11. Files	Read chapters / Project proposal due Complete practice questions and assignments <b>Quiz 3</b>
4	Ch.12. Dictionaries and Sets Ch.13. Exceptions Ch.16. Recursion Data Visualization ( <i>optional</i> )	Read chapters Complete practice questions and assignments <b>Quiz 4</b>
5	Review – Problem Solving	Project submission

## 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](#)<sup>5</sup>
- [Angelo State University Catalog](#)<sup>6</sup>

### 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](#).<sup>7</sup>

### 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](mailto:ADA@angelo.edu). For more information about the application process and requirements, visit the [Student Disability Services website](#).<sup>8</sup> 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](mailto: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](#)<sup>9</sup> for more information.

### Plagiarism

Plagiarism is a serious topic covered in ASU's [Academic Integrity policy](#)<sup>10</sup> 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 discussions and/or your papers, it is unacceptable to copy word-for-word without quotation marks and the source of the quotation. It is expected that you will summarize or paraphrase ideas giving appropriate credit to the source both in the body of your paper and the reference list.

Papers are subject to be evaluated for originality. Resources to help you understand this policy better are available at the [ASU Writing Center](#).<sup>11</sup>

### 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](#)<sup>12</sup> for more information.

## Title IX at Angelo State University

The University prohibits discrimination based on sex, which includes pregnancy, sexual orientation, gender identity, and other types of Sexual Misconduct. Sexual Misconduct is a broad term encompassing all forms of gender-based harassment or discrimination including: sexual assault, sex-based discrimination, sexual exploitation, sexual harassment, public indecency, interpersonal violence (domestic violence and/or dating violence), and stalking. As a faculty member, I am a Responsible Employee meaning that I am obligated by law and ASU policy to report any allegations I am notified of to the Office of Title IX Compliance.

Students are encouraged to report any incidents of sexual misconduct directly to ASU's Office of Title IX Compliance and the Director of Title IX Compliance/Title IX Coordinator at:

Michelle Boone, J.D.  
Director of Title IX Compliance/Title IX Coordinator  
Mayer Administration Building, Room 210  
325-942-2022  
[michelle.boone@angelo.edu](mailto:michelle.boone@angelo.edu)

**You may also file a report online 24/7 at [www.angelo.edu/incident-form](http://www.angelo.edu/incident-form).**

If you are wishing to speak to someone about an incident in confidence you may contact the University Health Clinic and Counseling Center at 325-942-2173 or the ASU Crisis Helpline at 325-486-6345.

For more information about Title IX in general you may visit [www.angelo.edu/title-ix](http://www.angelo.edu/title-ix).

### Required Use of Masks/Facial Coverings by Students

As a member of the Texas Tech University System, Angelo State University has adopted the mandatory [Facial Covering Policy](#)<sup>13</sup> to ensure a safe and healthy classroom experience. Current research on the COVID-19 virus suggests there is a significant reduction in the potential for transmission of the virus from person to person by wearing a mask/facial covering that covers the nose and mouth areas. Therefore, in compliance with the university policy students in this class are required to wear a mask/facial covering before, during, and after class. Faculty members may also ask you to display your daily screening badge as a prerequisite to enter the classroom. You are also asked to maintain safe distancing practices to the best of your ability. For the safety of everyone, any student not appropriately wearing a mask/facial covering will be asked to leave the classroom immediately. The student will be responsible to make up any missed class content or work. Continued non-compliance with the Texas Tech University System Policy may result in disciplinary action through the Office of Student Conduct.

## Modifications to the Syllabus

This syllabus, including grade evaluation and course schedule, is subject to modification. In particular, the COVID-19 pandemic may require significant changes in course delivery and content on potentially short notice.

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<sup>1</sup> <https://blackboard.angelo.edu/>

<sup>2</sup> <https://www.angelo.edu/covid-19/returning-to-campus/health-and-safety.php>

<sup>3</sup> <https://www.python.org/downloads/>

<sup>4</sup> [https://help.blackboard.com/Learn/Student/Getting\\_Started/Browser\\_Support](https://help.blackboard.com/Learn/Student/Getting_Started/Browser_Support)

<sup>5</sup> <https://www.angelo.edu/student-handbook/>

<sup>6</sup> <https://www.angelo.edu/catalogs/>

<sup>7</sup> <https://www.angelo.edu/student-handbook/community-policies/academic-integrity.php>

<sup>8</sup> <https://www.angelo.edu/services/disability-services/>

<sup>9</sup> <https://www.angelo.edu/content/files/14197-op-1011-grading-procedures>

<sup>10</sup> <https://www.angelo.edu/student-handbook/community-policies/academic-integrity.php>

<sup>11</sup> [https://www.angelo.edu/dept/writing\\_center/academic\\_honesty.php](https://www.angelo.edu/dept/writing_center/academic_honesty.php)

<sup>12</sup> <https://www.angelo.edu/content/files/14206-op-1019-student-absence-for-observance-of>

<sup>13</sup> <http://www.texastech.edu/downloads/ttus-policy-face-coverings.pdf>