

**Oklahoma State University Institute of Technology**  
**Face to Face Common Syllabus**  
**Summer 2018**

**ITD2313 – Script Programming**

Students learn to develop and execute scripts. Topics include parsing command line arguments, regular expressions, programming logic, functions, error handling, file processing and other scripting technologies.

**Course Purpose:**

The purpose of this course is to give the student an understanding of the Python programming language and to be able to write, run and troubleshoot Python programs.

**Type of course:** Theory/Lab.

**Credit Hours:** 3; Total hours of theory per semester: 30;

Total hours of lab for the semester: 45; Total hours of clinical per semester: 0.

**Class length** - Full Semester

**Class format** – Online

**Prerequisites:** ITD1033 – Intro to Programming.

**Instructor Name:** Jim Strother

**Instructor Phone:** (918) 293-4798

**Office:** EET/IT, Room 15E

**Instructor email:** [james.strother@okstate.edu](mailto:james.strother@okstate.edu)

**Contact:** My preferred method of contact is **email**. Please allow 24-48 hours to return your correspondence during the normal workweek.

**Instructor's Office Hours:**

Monday/Wednesday – 8:00am to 9:20am, 3:00pm to 3:30pm

Tuesday/Thursday – 8:00am to 11:15am, 1:00pm to 3:30pm

Or by appointment

**School Name:** Information Technologies

**School's Main Phone:** 918-293-5440

**REQUIRED TEXT, REFERENCES, AND MATERIALS**

**Texts:** Fundamentals of Python, First Programs. Kenneth A. Lambert.  
ISBN 978-1-111-82270-5.

**References:** Assorted Subject Videos

**Materials:** Access to a computer with broadband Internet Access (2Mbps upload preferred)

**Uniform/Tools:** None

**Estimated Cost for Materials:** \$139

**Estimated Cost for Uniform/Tools:** None

**Upon completion of the course, students should:**

<b>Course Objectives</b>	<b>Assessment of Objectives</b>	
Demonstrate proficiency in the use of a programming language to solve complex problems in a secure and robust manner	*Weekly Assignments	A.2
Demonstrate knowledge of industry standard software development best practices	*Weekly Assignments	M.4
Apply mathematical concepts to meet Information Technologies requirements	*Weekly Assignments	A.4

Aspects of the course objective assessments may be used in the university's assessment of student learning. If applicable, an asterisk (\*) above indicates this course is used in the university assessment program.

**COURSE ACTIVITIES**

In this course students will:

- Participate in online discussions and activities
- Use Python 3 software to complete labs
- Develop scripts that work as games
- Research and write about script use in industry
- Understand the use of programming logic to automate with script
- Complete a Mid-term and Final Exam
- Compile a portfolio of work produced

**EVALUATION - GRADES WILL BE BASED ON THE QUALITY AND COMPLETION**

**OF THESE TASKS:** *(NOTE- Please indicate the course-specific evaluations)*

Discussion Board Posts.....	10%
*Weekly Assignments .....	35%
Quizzes .....	15%
Mid-Term Exam.....	15%
Final Exam.....	15%
Portfolio .....	5%
Professional Development.....	5%
<b>Total .....</b>	<b>100%</b>

<b>OSUIT Grading Scale</b>
A = 90%-100%
B = 80%-89%
C = 70%-79%
D = 60%-69%
F = 59% & below

\*The student's grade for this assignment will be used in the university's assessment of student learning. A 70% competency or higher receives a Pass rating. This Pass/Fail rating is independent of the student's course grade.

### **Online Course Interaction**

This online/hybrid course uses a variety of tools to build a community of learners and strengthen communication between students and their peers, as well as between students and the instructor. Through the use of these tools, you will be able to interact with others in the virtual classroom. Communication tools used in this course include Discussion, News, Blackboard Collaborate, and Email.

#### **Interaction with Your Peers**

Each week, you will be required to post one original post and at least two responses to your peers on the discussion board within the Online Classroom.

- You will be required to make at least 1 post by Wednesday with two follow up posts by Sunday
  - Your first post must be in by Wednesday. Each day it is late you will lose 10 points
  - You must reply to at least two other student posts by Sunday, Each missing post will cost 10 points.
  - These must be solid posts on the subject of the discussion (no “I agree” or “me too”)
  - Posts must be respectful of your classmates and your instructor. Failure to abide will result in a “0” for the week.

#### **Interaction with Your Instructor**

In addition to online office hours (as indicated on the first page of this syllabus), you can also expect me to provide:

- additional information and updates about the course as needed through e-mails and the News feature in the Online Classroom (D2L)
- detailed analysis, feedback and explanation of grades according to the following schedule
  - Daily and/or weekly quizzes, small weekly assignments and similar type projects: Normal return time to student by next class meeting or no later than one (1) week.
  - Extensive assignments, large lab projects, extensive quizzes, exams and similar type projects: Normal return time to students in one (1) to two (2) weeks.

You may contact me by email at any time with questions or concerns about your course; however, please allow 24-48 hours to receive a reply to your correspondence on weekdays. Make sure to include the course name in the subject line. I may not be available to respond to your correspondence on the weekend, so please do not leave your coursework until the last possible moment in case you need assistance.

### **Recommended Student Competencies/skills**

- Able to use the VMware environment virtual machines via web interface
- Interact in class or online discussion topics
- Provide answers to questions posed using provided templates

### **AUTHORIZED TOOLS**

Students may use any/all course materials, including books and notes, while participating in online classroom activities. All quizzes, labs, and written assignments are to be completed independently and any instance of collaboration will be considered academic dishonesty. Collaboration with classmates while studying concepts and network configurations is permitted and encouraged.

### **LATE WORK**

Turning in your properly-executed work early is always acceptable. All exams, assignments, papers and  
Updated: May 2, 2018

projects must be completed and submitted by the specified due date; late work will not be accepted after the due date unless prior authorization is given.

**Syllabus Attachment**

View the Syllabus Attachment, which contains other important information, by visiting [http://osuit.edu/center/student\\_syllabus\\_information](http://osuit.edu/center/student_syllabus_information)

**TESTING**

Quizzes may be timed or proctored during this course.

<b>Course Schedule</b> (subject to change at instructor discretion)			
<b>Schedule</b>	<b>Topic</b>	<b>Assignment</b>	<b>Due Date</b>
Module 1	<b>Chapter 1</b> – Introduction and installing Python	Chapter 1 Assignments Discussion Board Posts Quiz 1	<b>05/08</b>
Module 2	<b>Chapter 2</b> – Software Development, Data Types, and Expressions	Chapter 2 Assignments Discussion Board Posts Quiz 2	<b>05/13</b>
Module 3	<b>Chapter 2</b> - Software Development, Data Types, and Expressions, cont.	Chapter 2 Assignments Discussion Board Posts	<b>05/20</b>
Module 4	<b>Chapter 3</b> – Control Statements	Chapter 3 Assignments Discussion Board Posts Quiz 3	<b>05/27</b>
Module 5	<b>Chapter 3</b> - Control Statements continued	Chapter 3 Assignments Discussion Board Posts	<b>06/03</b>
Module 6	<b>Chapter 4</b> - Strings and Text Files	Chapter 4 Assignments Discussion Board Posts Quiz 4	<b>06/10</b>
Module 7	<b>Chapter 5</b> - Lists and Dictionaries	Chapter 5 Assignments Discussion Board Posts Quiz 5	<b>06/17</b>
Module 8	<b>Chapter 6</b> - Design with Functions	Chapter 6 Assignments Discussion Board Posts <b>Mid-Term Chapters 1-5</b>	<b>06/24</b>
Module 9	<b>Chapter 6</b> - Design with Functions continued	Chapter 6 Assignment Discussion Board Posts Quiz 6 Professional Dev	<b>07/15</b>
Module 10	<b>Chapter 7</b> - Simple Graphics and Image Processing	Chapter 7 Assignments Discussion Board Posts Quiz 7	<b>07/22</b>

Module 11	<b>Chapter 8</b> - Design with Classes	Chapter 8 Assignments Discussion Board Posts Quiz 8	<b>07/29</b>
Module 12	<b>Chapter 9</b> - Graphical User Interfaces	Chapter 9 Assignments Discussion Board Posts Quiz 9	<b>08/05</b>
Module 13	<b>Chapter 10</b> - Multithreading, Networks, and Client/Server	Chapter 10 Assignments Discussion Board Posts Quiz 10	<b>08/12</b>
Module 14	<b>Chapter 11</b> - Searching, Sorting, and Complexity Analysis	Chapter 11 Assignments Discussion Board Posts Quiz 11	<b>08/19</b>
Module 15	Final Exam & Portfolio	Final Exam Chapters 6 - 11 (available through Wed) Portfolio	<b>08/22</b>