

Oklahoma State University Institute of Technology
Face to Face Common Syllabus
Summer 2017

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.

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 – Face to Face

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

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

Instructor's Office Hours:

Monday/Wednesday - 9:30 am to noon, 3:00pm to 4:00pm

Tuesday/Thursday – 8:00am to 11:15am, 1:00pm to 4:00pm

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: \$50

Estimated Cost for Uniform/Tools: None

Upon completion of the course, students should:

Course Objectives	Assessment of Objectives	
Demonstrate proficiency in the use of a programming language to solve complex problems in a secure and robust manner	*Weekly Assignments	A.2
Demonstrate the ability to design and develop programs for modern computing platforms (e.g., PC, cloud, mobile, web, PowerShell, scripting/python)	*Weekly Assignments	C.3
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%
Attendance	5%
*Weekly Assignments	35%
Quizzes	10%
Mid-Term Exam.....	15%
Final Exam.....	15%
Portfolio	5%
Professional Development.....	5%
Total	100%

OSUIT Grading Scale
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.

Daily and/or weekly quizzes, small weekly assignments and similar type projects: Normal return time to student is 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.

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.

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 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.

TESTING

Quizzes may be timed or proctored during this course.

UNIVERSITY & COURSE EXPECTATIONS

It is the responsibility of each OSUIT student to read, abide by, and maintain a copy of the syllabus for this course. Syllabi are available on the OSUIT website.

Students understand that excerpts or portions of their work may be utilized for institutional assessment purposes. The purpose of institutional assessment is for verification of student learning and program improvement. Every effort will be made to keep this information confidential.

AMERICANS WITH DISABILITIES ACT (ADA)

According to the Americans with Disabilities Act, each student with a disability is responsible for notifying the University of his/her disability and requesting accommodations. If you think you have a qualified disability and need special accommodations, you should notify the instructor and request verification of eligibility for accommodations from the Office of Academic Accommodations/LASSO Center. Please advise the instructor of your disability as soon as possible, and contact The LASSO Center, to ensure timely implementation of appropriate accommodations. Faculty have an obligation to respond when they receive official

notice of a disability but are under no obligation to provide retroactive accommodations. To receive services, you must submit appropriate documentation and complete an intake process during which the existence of a qualified disability is verified and reasonable accommodations are identified. The LASSO Center is located on the 3rd floor of the Noble Center. You may call [918.293.4855](tel:918.293.4855) for more information or fax documentation to [918.293.4853](tel:918.293.4853).

ACADEMIC DISHONESTY

Academic dishonesty or misconduct is neither condoned nor tolerated at OSUIT. Any student found guilty of academic dishonesty or misconduct shall be subject to disciplinary action.

Academic dishonesty and/or misconduct includes, but is not limited to, the following actions:

1. Plagiarism: the representation of previously written, published, or creative work as one's own
2. Unauthorized collaboration on projects
3. Cheating on examinations
4. Unauthorized advance access to exams
5. Fraudulent alteration of academic materials
6. Knowing cooperation with another person in an academically dishonest undertaking.

Students are required to actively protect their work against misuse by others. For details, refer to The OSUIT Student Handbook (Student Rights and Responsibilities Governing Student Behavior) available online at

http://www.osuit.edu/academics/forms/student_rights_responsibility.pdf.

Attendance Policy for Online courses:

A primary component of OSUIT's Mission is: "to prepare and sustain a diverse student body as competitive members of a world-class workforce." Regular and consistent attendance not only aids in academic success, dependable attendance is a requirement in today's real-world employment; therefore, regular and consistent attendance is a requirement in all OSUIT courses.

Definition:

Absent: Failing to *actively participate* in online coursework during a standard week timeframe for a given course.

- A. Students must demonstrate attendance through *active participation* in the course at least once every seven days. Simply logging into the course does not constitute active participation.
- B. Active participation is defined as the completion of required activities such as:
 - A. Completion of online quizzes or exams
 - B. Submission of assignments
 - C. Participation threaded discussions, or
 - D. Involvement in discussion question as determined by the instructor and indicated in the course syllabus.
- C. Calculations for weekly to percentage ratios
 1. Missing 1 of 15 weeks = 6.67%
 2. Missing 2 of 15 weeks = 13.33%

3. Missing 3 of 15 weeks = 20%
4. Missing 1 of 7.5 weeks = 13.33%
5. Missing 1.5 of 7.5 weeks = 20%

Procedures:

Early Intervention:

- A. Any student who misses 10% of an individual course (or earlier at faculty discretion) during a regular fifteen-week semester, or the equivalent portion of time in a shorter session, will have their name submitted by that course instructor to the OSUIT Early Alert System for retention intervention.
- B. At the point the Early Alert is issued, the student must meet with their assigned faculty advisor or designated faculty/staff member within seven (7) academic calendar days for counseling on how to improve their attendance and academic success.

Excessive Absences:

- A. The University reserves the right to administratively withdraw any student from an individual course who misses 20% of that course, whether excused or unexcused, and, in the opinion of the instructor, the student does not have a reasonable opportunity to be successful in the course.
- B. Students should be aware any of the following may impact their financial aid:
 1. being administratively withdrawn from a course
 2. dropping a course
 3. their last date of attendance in a course

Please see OSUIT Policy 2-021 for full details and procedures.

Course Schedule (subject to change at instructor discretion)			
Schedule	Topic	Assignment	Due Date
Module 1	Chapter 1 – Introduction and installing Python	Chapter 1 Assignments Discussion Board Posts Quiz 1	05/07
Module 2	Chapter 2 – Software Development, Data Types, and Expressions	Chapter 2 Assignments Discussion Board Posts Quiz 2	05/14
Module 3	Chapter 2 - Software Development, Data Types, and Expressions, cont.	Chapter 2 Assignments Discussion Board Posts	05/21
Module 4	Chapter 3 – Control Statements	Chapter 3 Quiz 3 Assignments Discussion Board Posts	05/28
Module 5	Chapter 3 - Control Statements continued	Chapter 3 Assignments Discussion Board Posts	06/04
Module 6	Chapter 4 - Strings and Text Files	Chapter 4 Assignments Discussion Board Posts Quiz 4	06/11
Module 7	Chapter 5 - Lists and Dictionaries	Chapter 5 Assignments Discussion Board Posts Quiz 5	06/18
Module 8	Chapter 6 - Design with Functions	Chapter 6 Assignments Discussion Board Posts Mid-Term Chapters 1-5	06/25
Module 9	Chapter 6 - Design with Functions continued	Chapter 6 Assignments Discussion Board Posts Quiz 6	07/16
Module 10	Chapter 7 - Simple Graphics and Image Processing	Chapter 7 Assignments Discussion Board Posts Quiz 7	07/23

Module 11	Chapter 8 - Design with Classes	Chapter 8 Assignments Discussion Board Posts Quiz 8	07/30
Module 12	Chapter 9 - Graphical User Interfaces	Chapter 9 Assignments Discussion Board Posts Quiz 9	08/06
Module 13	Chapter 10 - Multithreading, Networks, and Client/Server Programming	Chapter 10 Assignments Discussion Board Posts Quiz 10	08/13
Module 14	Chapter 11 - Searching, Sorting, and Complexity Analysis	Chapter 11 Assignments Discussion Board Posts Quiz 11	08/20
Module 15	Final Exam & Portfolio	Final Exam Chapters 6 - 11 Portfolio	08/23