

Cisco College
Cisco or Abilene Campus
Introduction to Computer Programming
COSC 1315.01 @ Cisco
Spring 2022

Dr. Robert Watson
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	hours:	Monday 1:30-2:35
		Monday 4:00-5:00
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		Wednesday 1:30-2:35
Cisco	office:	FOB 10
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1 Description

Introduction to computer programming for solving a variety of problems. This course is intended for non-computer science and non-computer engineering majors. Emphasis on the fundamentals of design, development, testing, implementation, and documentation of computer programs. Includes problem solving with structured techniques and algorithms using pseudo code and/or graphical representations.

Programming assignments will use the Python programming language.

Credit: 3 semester hours

Prerequisite: none

2 Required Textbook

Introduction to Programming in Python
1st Edition
Robert Sedgewick, Kevin Wayne, Robert Dondero
Addison-Wesley Professional

Accessibility and Privacy Statements

A laptop computer with Microsoft Windows is recommended.

3 Learning Outcomes

Upon successful completion of this course, students will:

- Design and develop algorithms to solve problems.
- Demonstrate a fundamental understanding of software development methodologies, such as modular design, pseudo code, flowcharting, and structure charts.

- Demonstrate appropriate design, coding, testing, debugging, and documenting of computer programs that implement problem specifications and requirements.
- Apply computer-programming concepts to new problems or situations.

4 Core Objectives (THECB)

This course meets the following Core Objectives required by the Texas Higher Education Coordinating Board. Assessment may be based on the following: exams, post test, final, assignments, and labs.

- Critical Thinking Skills (CT) - creative thinking, innovation, inquiry, and analysis, evaluation, and synthesis of information
- Communication Skills (COM) - effective development, interpretation and expression of ideas through written, oral, and visual communication
- Empirical and Quantitative Skills (EQS) - manipulation and analysis of numerical data or observable facts resulting in informed conclusions

5 Assessment:

Programming assignments	65%	100	≥	A	≥	90
Homework assignments	25%	90	>	B	≥	80
Exam	10%	80	>	C	≥	70
	100%	70	>	D	≥	60
		60	>	F		

6 Programs

Programming projects are a significant component of this course. These projects will be completed outside of class and students should be prepared to allocate several hours each week to this work.

7 Exams

Students missing the exam due to leaving campus prior to a holiday or the end of the semester will receive an exam grade of F.

Use of cell phones and other communication devices during an exam is not permitted will result in an exam grade of F.

Exams will be considered finished if a student leaves the room during the exam. A student may not resume work on an exam after leaving the exam room.

8 Attendance

Prompt and regular class attendance is considered necessary for satisfactory work. Attendance is defined by physical attendance or participation in an academically related activity. See College Catalog for the full class attendance policy.

Cisco College recognizes that absence from class may occur due to illness, death or illness in the immediate family, observance of a religious holiday, or participation in a college-sponsored activity. (Absences due to participation in a college-sponsored activity must be authorized by the Vice President of Instruction.) When absences occur due to the above-stated reasons, the student is allowed to make up work missed; the professor may require the work to be made up within two weeks from its original due date. During a regular Fall or Spring semester, the following requirements apply for face-to-face classes. For a class that meets three times per week, a student is allowed six absences.

For a class that meets two times per week, a student is allowed four absences. For a class that meets one time per week, a student is allowed two absences. If a student misses one more than the allowed number of absences, he/she may be dropped from the class if the professor deems the student to be failing due to excessive absences and/or failure to make up work due to absences.

Any student who ceases to attend class without officially withdrawing through the Admissions Office is subject to a grade of “F.” The student will receive a grade of “W” for the course if withdrawn before the “last day to drop with a “W,” and an “F” if withdrawn after “the last day to drop with a “W.” Three tardies may constitute an absence.

9 Absence Policy and Make-up Work

Cisco College recognizes that absences from class may occur due to illness, death or illness in the immediate family, observance of a religious holiday, or participation in a College-sponsored activity. (Absences due to participation in a College-sponsored activity must be authorized by the appropriate administrator.) When absences occur due to the above, the student is allowed to make up work missed; the instructor may require the work to be made up within two weeks.

10 Calculator Policy

Scientific and graphing calculators are generally permitted for this course. Calculators with CAS (Computer Algebra System) technology are NOT permitted. Examples of these calculators include: the HP 50g, the HP Prime, the TI-Nspire CAS, the TI-89, TI-92, and the Casio ClassPad. Cell phone calculators and computers are never allowed for calculators in this class.

11 Student Conduct, Notices, and College Policies

Student Conduct, Notices, and College Policies Students are expected to follow all classroom policies listed in the course syllabus. College-wide policies can be found in the Official Catalog and the Student Handbook. Inappropriate behavior in the classroom shall result, at a minimum, in a request to leave class. The Student Handbook contains a list of specific prohibitions.

12 Academic Integrity

It is the intent of Cisco College to foster a spirit of complete honesty and a high standard of integrity. The attempt of students to present as their own any work they have not honestly performed is regarded by the faculty and administration as a serious offense and subjects the offender to disciplinary action. The Student Handbook contains a list of academic integrity definitions and violations.

13 Cross-Listed Course Sections

For reasons of pedagogy and course management, this course may be cross-listed with one or more other course sections on Canvas. Cross-listed course sections may interact.

14 Course Content

College level courses may include controversial, sensitive, and/or adult material. Students are expected to have the readiness for college level rigor and content.

15 Disability Services/ADA Accommodations

Cisco College provides appropriate accommodations to qualified students in accordance with the Rehabilitation Act of 1973 and the Americans with Disabilities (ADA) Act of 1990. Accommodations

are made on a case-by-case basis. Students with special needs are encouraged to contact the Disability Services Coordinator as early as possible. Early notice is required to prepare for and provide special accommodations by the first week of class. It is the student's responsibility to provide the necessary documentation to the Disability Services Coordinator prior to receiving accommodations.

16 Title IX

The college prohibits Sexual Misconduct and is committed to the timely and fair resolution of Sexual Misconduct cases. The College encourages prompt reporting of all types of Sexual Misconduct. The College has defined Sexual Misconduct as any unwelcome conduct of a sexual nature. The following persons may be contacted regarding Title IX issues: Title IX Coordinator (254-442-5022), Dean of Students (254-442-5173), Provost (325-794-4401) or any counselor.

17 Student Technology Use in Classroom

Use of communication devices is prohibited during class. Exception to this policy may occur due to college-wide emergency notification or at the discretion of the instructor. In order to protect the privacy of other students and to encourage open discussion, covert digital recording is prohibited in the classroom and material from online classes may not be recorded, shared, or reposted publicly. Students are expected to follow the Student IT Policy as stated in the Student Handbook.

18 Student Help and Resources

Students are encouraged to utilize the Canvas and online learning resources provided on the Distance Education webpage and the Student Resources provided on Canvas. For Canvas assistance: online@cisco.edu or 325-794-4480. For assistance with college computers, software, and email: helpdesk@students.cisco.edu.

19 Math Center

A computer equipped math tutoring center is available for students to get extra help and tutoring. The Math Center is in Room 114 AEC and Room 3 SCH. Online tutoring is also available through the Support Services tab in Canvas.

20 Changes to the Syllabus

The schedule and procedures in this syllabus are subject to change if deemed appropriate by the instructor.