**OREGON INSTITUTE OF TECHNOLOGY**

**COMPUTER SYSTEMS ENGINEERING TECHNOLOGY DEPARTMENT**

**COURSE :** **Concepts of Programming Languages ( CST-240)**

3 Credit Hours (2 Class Hours, 3 Lab Hours)

Class meetings: MW, 2-3, PV 206

Labs: Tue

11-2 PV120

3-6 PV120

Professor: Gary Clark

Office Phone: x

Office Hours: MWF 12-1 (anytime I am in my office or by appointment)

Office: Room PV 182

Email: gary.clark@oit.edu

**TEXTBOOK:**

*Programming Languages Principles and Practice*, Kenneth C. Louden & Kenneth A. Lambert, No Starch Press, 2010, ISBN: 978-1-111-52941-3

**SPECIFIC COURSE INFORMATION**:

**Catalog Description**

Study of principles and fundamental concepts characterizing high-level programming languages, including history and survey of programming paradigms, syntax and semantic rules, data types, control flow and data abstraction.

**Prerequisite:** CST 126 with a C or better

**Required, Elective or Selective:** Required

**SPECIFIC GOALS OF THE COURSE:**

**Specific Outcomes of Instruction**

This course will explore the different concepts found in many Programming Languages including the major paradigms. Labs will provide an introduction to different languages to provide experience with these concepts. Additionally, small teams will explore a language of their choice and give a presentation at the end of the term.

**Languages Explored in Lab**

1. Minizinc
2. Javascript
3. Python
4. Haskell
5. Java

**ABET Outcomes Addressed By Course**

A) An ability to select and apply the knowledge, techniques, skills, and modern tools of the discipline to broadly-defined engineering technology activities

H) An understanding of the need for and an ability to engage in self-directed continuing professional development

J) A knowledge of the impact of engineering technology solutions in a societal and global context

**GRADING PROCEDURE**:

Labs 40%

Homework/Quizzes 25%

Midterm 15%

Final 20%

**GRADING SCALE**:

>=90% = A

>=80% = B

>=70% = C

>=60% = D

<60% = F

I compute grades to the nearest tenth of a percentage. If your grade is 59.9 (to the nearest tenth), that is not “close enough” to pass.

**CLASSROOM POLICIES**:

1. Every student is expected to attend class on TIME and is responsible for ALL work missed during any absences.
2. Plagiarism and other forms of cheating will not be tolerated. Please refer to OIT policy on Student Academic Integrity for more information: <http://www.oit.edu/libraries/student_handbook/student_academic_integrity_policy.pdf>. All academic dishonesty cases will be reported to the Vice President for Student Affairs as required by OIT policies.
3. There are no make-up exams or quizzes so please make arrangements with the instructor ahead of time if there is a schedule conflict.
4. Homework must be typed and turned in as a hard copy. Homework is generally due at the beginning of the class after it was assigned. Homework can be turned in one class period late for a 50% penalty. Homework more than one class period late will not be accepted.
5. In-class assignments that consist of short programs or the demonstration of some skill must be completed either in the class period in which it is assigned or the following class period. In-class assignments will not be accepted after this.
6. Short quizzes (<10 minutes) can be given at any time. When given, they will cover content from the previous couple of class sessions and homework assignments.
7. You are expected to check your OIT supplied email and the Blackboard area for this class regularly for course updates and announcements.
8. I am willing to make exceptions to my policies under extenuating circumstances. You have a better chance of being granted an exception if you contact me ahead of time instead of after the fact. Just because someone else was granted an exception does not mean you are automatically entitled to one.

**OTHER IMPORTANT INFORMATION**

You should be familiar with OIT policies as they relate to student conduct in an academic setting.

If you need a course adaptation or academic accommodation because of a disability, or if you need special arrangements in case the room or building must be evacuated, you need to contact Disability Services to determine what accommodations are available and appropriate. Please also see me as soon as possible so we can make arrangements to best accommodate your needs.

Some students may be granted permission to record this class. You are not allowed to record the class without permission, and if you are granted permission, the recordings are for your own personal use and may not be shared or distributed.