**Course** : CS 382, 3 Cr. Hr.
**Course Name** : Programming Languages.
**Semester** : Spring 2014, MWF 10:20-11:15 SH 1103
**Textbook** : *Concepts of Programming Languages*, 10th edition, Robert Sebesta, Addison-Wesley .
**Instructor** : Mustafa Atici
**Office** : COHH 4142, Phone:745-5093
**e-mail** : mustafa.atici@wku.edu
**Office hours** : 9:00-11:00 TR or by appointment

**TURN OFF ALL YOUR DIGITAL DIVICES DURING THE LECTURE**

**Purpose of Course**: This course introduces the general concepts of the theory and practice of programming languages. A number of exemplary languages will be introduced to demonstrate different approaches and philosophies of language design and implementation.

**Prerequisite** : CS 181 with C or better grade

**Course Goals:**

- Understand criteria for evaluating and comparing programming languages
- Become familiar with the historical evolution of primary programing languages
- Understand different ways of describing syntax
- Understand different ways of describing semantics
- Understand variable binding and scope
- Understand essential control structures
- Understand various parameter passing mechanisms
- Understand complex data types and user defined types
- Understand different types of subprograms
- Understand approaches to handle concurrency in programming
- Become familiar with alternate programming paradigms, including functional, object oriented, and logic programming

**Attendance Policy** : I will be taking attendance. If a student has excessive missing (5 or more without anh excuses), then I have a right to fail the student.

**Visiting Office:** I want to see student in my office during the semester not just before/during final week. Most of final week visits are about "*how can I get A or B in this class? Or can I do some extra work to get such a grade? Etc.*" I AM NOT GIVING ANY GRADE. YOU ARE THE ONE GETTING GRADE. I ONLY RECORD YOUR GRADE.

**Cheating:** Cheating on any assignment, homework or exams may result failing the course. You can talk about homework or lab assignment together in general (NOT IN GREAT DETAIL) but you cannot exchange written materials. **I do not want to see two codes or homework line by line same but with different variables.**

**Honesty:** Please read the following document:

http://www.wku.edu/Dept/Support/StuAffairs/StuLife/handbook/P1Policy/14AcademicOffenses.htm

**Course Outline** : In this course we will be covering theoretical topics from our text book. I will also introduce functional programming Haskell. Here are some of the topics we will be covering from our text book:

- History and Evolution of programming languages
- Syntax and Semantics
- Names, Binding, Scope
- Data types, Expressions and Assignments
- Statement level control structures
- Subprograms
- Data abstraction
- Object oriented programming
- Functional programming
- Logic programming
- Exception handling

**Homework**: In this course we will have theoretical and programming assignments. Programming assignments will be implemented in Haskell languages. **No late homework will be accepted** unless you have accepted excuses such as sickness proved by doctor's appointment etc. You may work together on the homework but you need to write your own code or written statement. You cannot just copy them. If it appears exercises are essentially identical, then every participant **will receive 0 points** (I also have a right to fail a student for copied homework)

**Project**: There will be project. The project will be a report on a high-level programming language. Each student/group will write a report and give a presentation about the programming language that he/she has chosen.

**Exam**: There will be 3 midterm exams and 1 final exam. MAKE-UP TEST WILL BE GIVEN ONLY IN CASE OF SERIOUS ILLNESS AND YOU MUST CONTACT ME PRIOR TO EXAM. Here are the tentative schedule for midterms.

Exam 1: February 28, 2014
Exam 2: March 28, 20114
Exam 3: April 30, 2014
Final : May 12, 2014 (at 10:30 in SH1103)

**Grading**: The course grade will be determined as follows:

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|---|---|
| Midterms | 300 Pts |
| Homework | 300 Pts |
| Project | 150 Pts |
| Final | 250 Pts |

A : 900+
B : 800-899
C : 700-799
D : 600-699
F : 599 and below.

**Students with disabilities:**

In compliance with university policy, students with disabilities who require academic and/or auxiliary accommodations for this course must contact the Office for Student Disability Services in Downing University Center, A-200. The phone number is 270 745-5004.

Please DO NOT request accommodations directly from the professor or instructor without a letter of accommodation from the Office for Student Disability Services.