

1. Course Title:

**Fundamentals of Computer Science I
CS 110 – 4 Credits**

EET Program Requirement

Prerequisite: None

This is a Technical content course under ABET Criterion 5

2. Faculty Member Information:

Instructor: Dr Jim Schwing

Office: Hebelers 219c

Phone: 509-963-1432

E-mail: schwing@cwu.edu

3. Course Description:

Fundamental concepts of programming from an object-oriented perspective. Classes, objects, and methods, algorithm development, problem solving techniques, basic control structures, primitive types, and arrays.

4. Textbook and other required materials for the course:

Gaddis, Tony, *Starting Out with Java Early Objects*, Pearson-Addison Wesley, 2005

9. Specific Learner and Expressive Outcomes and Assessment Strategies:

ABET Outcome Criteria #	Learner Outcomes	Assessment
	1. Follow basic software design practices to design, code, and debug Java programs.	The student will complete homework assignments, and a written test.
	2. Use selection and looping structures in Java programs to control execution flow.	The student will complete homework assignments, a written test.
	3. use class, objects, and methods to properly modularize Java programs.	The student will complete homework assignments, and a written test.

6. Course Topics and Schedule:

- Introduction to Java and programming 4 hours
- Java programming basics 7 hours
- Classes, Methods and UML Diagrams 6 hours
- Logical operators 7 hours
- Strings, Loops, and files 7 hours
- Overloaded Methods 3 hours

- Copy Constructor 3 hours
- Aggregation and Enumerated Types 3 hours

7. Grading:

Grade	%	Grade	%	Grade	%	Grade	%	Grade	%
		B+	87 -89	C+	77 - 79				
A	94 - 100	B	83 - 86	C	73 - 76	D	60 - 69		
A-	90 - 93	B-	80 - 82	C-	70 - 72				

Grading Percentages

Exams	20%
Final Exam	
In Class	25%
In Lab	10%
Labs (6)	10%
Projects (7)	35%

8. ADA Statement:

Students who have special needs or disabilities that may affect their ability to access information and or material presented in this course are encouraged to contact me or Robert Harden, ADA Compliance Officer, Director, ADA Affairs and Students Assistance on campus at 963-2171 for additional disability related educational accommodations.