CS 16000-01 Course's Labs and Projects Schedule, Fall 2024

Course Number and Name:
CRN = 11648 CS 16000-01 Introduction to Computer Science I (4 cr.)

Credits and contact hours: 4 cr. 4 contact hours (Two 75 mins weekly lectures and
one 75 mins weekly lab work)

Fall 2024 [August 26th, 2024 – December 22, 2024]
Monday, Wednesday 1:30 am – 2:45 am, **ET 115**

Labs: (Students are required to register and attend one of the following lab sections.)
CRN = 11674 CS 16000-02 Monday 3:00noon – 4:15pm, ET 109
CRN = 11675 CS 16000-03 Wednesday 3:00noon – 4:15pm, ET 109

Instructor or Course Coordinator:
Peter A. Ng, Ph.D.
Office: ETCS 125L
Phone: 260-481-6237 (office), 260-481-6803
E-mail: ngp@pfw.edu
Office hours: MW 11:00 am – 01:00 pm and by appointment.
TTh 12:00 am – 01:30 pm and by appointment.
(Please call me before you come to ensure I will be in my office).

Graduate   Austin Robinson, E-mail address: robiam06@pfw.edu

Teaching   Office hours: Monday and Wednesday from 4:30 pm -5:45 pm in Neff Hall, room 366
Assistants:

Catalog Description:
An introduction to the fundamental concepts and techniques of Computer Science. Students will learn to program using an object-oriented language. They will learn how to translate a real problem into a program description, and how to write and test a program to implement their description. The emphasis will be on developing a professional style at an elementary level. CS 16000 will carry syntax as far as interacting classes, arrays of one dimension, and simple file i/o. Students with no programming background should instead consider CS 11200.

Prerequisites: MA 15300 College Algebra.

Type of Course: Required

Textbook and Reading Materials:

Required Textbook:

Starting Out with Java, From Control Structures through Objects, 8th, Tony Gaddis, 2022 ISBN-13: 978-0-13-735794-9. Pearson.

Supplemental Materials:

Needed Software (Recommended)

Java

Eclipse IDE for Java Developers

*www.eclipse.org/**downloads***

jdk10 preferred.

Microsoft Teams:

You are invited as my guests in Microsoft Teams. If you download Microsoft Teams on your computer, you will be able to access my lectures live via Microsoft Teams.

Course Objectives & Learning Outcomes:

The goal of this course is to introduce the object-oriented programming technique provided by the Java language. (Specific learning outcomes are listed below. The numeric numbers in parentheses refer to ABET CS Program Criteria 3 Student Outcomes.) A student who successfully fulfills the course requirements will be able to:

1. Recognize the software and hardware components of a computer system (6)
2. Recognize and apply the software development phases (6)
3. Utilize Java syntax in fundamental programming algorithms (1)
4. Recognize and apply the various input and output devices in programming (2)
5. Recognize and apply the various control structures (1)
6. Design and implement elementary multi-class solutions to programming problems (2) (6)
7. Recognize the need for arrays in the solutions of programming problems and manipulate data in one-dimensional arrays (1) (6)
8. Recognize and apply the basic debugging strategies in programming (2)

Course Learning Outcomes to Student Outcomes Mapping

Course Learning Outcome	ABET Criterion 3. Student Outcomes					
	1	2	3	4	5	6
1						●
2						●
3	●					
4		●				
5	●					
6		●				●
7	●					●
8		●				

Tentative schedule and topics [of CS 16000-01 with instructor Peter Ng]

Week Of	Topic		Labs (M, Section 2, or W Section 3)		Projects
	Monday	**Wednesday**	**Monday (2)**	**Wednesday (2)**	
August 26 Monday	Ch 1 Introduction	Ch 2 Java Fundamentals	Lab 0: IntroEclipse Due on 9/1 at	Lab 0: Intro Eclipse: 11:59 pm (Sunday Midnight)	All labs and projects are due on Sunday at 11:59 pm; and assigned on Monday at 0:30 am
September 2 Monday (Labor Day)	Labor Day Recess(begin 8/30 4:30pm)	Ch 2	Labor Day Recess Due on 09/15 at	Lab 1 11:59 pm (Sunday Midnight)	Project 1 is assigned on 9/2 at 0:30 am
September 9 Monday	Ch 2	Ch 3 Decision Structures	Lab 1 Due on 09/15 at 11:59 pm (Sun Mid)	Project Help Session	
September 16 Monday	Ch 3	Ch 3	Lab 2 Due on 09/22 at	Lab 2 11:59 pm (Sun. Mid)	
September 23 Monday	Ch 3	Ch 4 Loops and Files I/O	Lab 3 Due on 09/29 at	Lab 3 11:59 pm (Sunday Midnight)	
September 30 Monday	**Exam01** (Covers Ch 1 thru Ch 3)	Ch 4	Project Help Session	Project Help Session	Project 1 is due on 9/29. Project 2 is assigned on 09/30 at 0:30 am
October 7 Monday	Ch 4	Ch 5 Methods	Lab 4 Due on 10/13 at	Lab 4 11:59 pm (Sun. Mid)	
October 14 Monday	Ch 5	Ch 5	Lab 5 Due on 10/20 at	Lab 5 11:59 pm (Sun. Mid)	
October 21 Fall Recess October 21-22	Fall Recess (October 21-22)	Ch 6 Classes and Objects I	Fall Recess	Project Help Session	
October 28 Monday	Ch 6 Classes and Objects I	Ch 6	Lab 6 Due on 11/3 at	Lab 6 11:59 pm (Sunday Midnight)	Project 2 is due on 10/27. Project 3 is assigned on 10/28 at 0:30 am
November 4 Monday	Ch 6	**Exam02** (Ch 4 - Ch 6)	Project Help Session	Project Help Session	
November 11 Monday	Ch 7 Arrays and class	Ch 7	Lab 7 Due on 11/17 at	Lab 7 11:59 pm (Sunday Midnight)	
November 18 Monday	Ch 7	Ch 7	Lab 8 Due on 11/24 at	Lab 8 11:59 pm (Sun. Mid)	
November 25 Monday (Nov 27-Dec 1 Thanksgiving)	Ch 7	Thanksgiving Recess (Nov 27 – Dec 1)	Project Help Session	Thanksgiving Recess begins after last class on Tuesday (Nov. 27 – Dec 1)	Project 3 is due on 11/24. Project 4 (optional) is assigned on 11/25 at 0:30 am
December 2 Monday	Ch 8	Ch 8	Lab 9 Due on 12/8 at	Lab 9 11:59 pm (Sun. Mid)	
December 9 Monday	Ch 8 Classes and Objects II	Ch 8	Lab 10 Due on 12/15 at	Lab 10 11:59 pm (Sunday Midnight)	Project 4 is due on 12/8 at 0:30 am
December 16 (FINAL EXAMS WEEK)	**Final Exams and Last Week of Classes (December 16 - 22)** **Exam03 (On final exams week Dec 16, 2024)?** **December 23: Final Grades Due at Noon**				

Other Course Policies

Attendance:
Class attendance is a University requirement. Generally, you are expected to attend class. Attendance will be taken and may be graded, as explained under participation. Students who attend regularly typically have the best performance. You are responsible for obtaining any course-related information or material from classes you may have missed.

Academic Honesty:
Do your work. Write your solutions. Students are anticipated to help each other troubleshoot and solve problems together in this course. However, assignments should be done individually, so you should not copy or provide your work to other students in the class. Students should not copy any materials from websites, open sources, and so forth, and then paste them into their work. You will receive a zero if you are caught cheating or plagiarizing, and will automatically fail the course if caught a second time.

Plagiarism/academic misconduct:
http://catalog.pfw.edu/content.php?catoid=49&navoid=1457#misconduct
This includes definitions of academic misconduct as well as the procedures faculty **need** to follow if such student behavior is identified.

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