

COSC 1436 – Programming Fundamental I–A – JAVA

CRN:**Semester:** Fall 2008**Campus and Room:**

QTSC – SaigonTech – Bld 6 – Lab 2

Day & Times:

Lecture: Monday, Wednesday: 7:30 - 9:00 am

Tutor: Tuesday, Thursday: 13:00 - 14:30 pm

Instructor: Dr. Pham Dai Xuan

- Office location: Building 7, Quang Trung Software City , Dist 12, HCMC
- Office hours: by appointment
- Office phone: (84-8) 4371888, ext. 304
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Tutor: Ms. Huynh Thi Minh Chau

- Office location: Building 6, Quang Trung Software City, Dist 12, HCMC
- Office hours: by appointment
- Office phone: (84–8) 7155033, ext. 208
- Email: chauhtm@saigontech.edu.vn

Course Description:

Prerequisite: It is required that students must have some basic computer literacy and algebra (MATH 1314). Furthermore, an English proficiency skill (reading and writing) is needed to undertake the course.

Credit: 4 (2 Lecture, 2 Lab, 1.5 hours each)

The main focus of this course is to introduce the fundamental concepts of structured programming. Topics include software development methodology, data types, control structures, functions, arrays, and the mechanics of running, testing, and debugging. This course assumes computer literacy.

Course Objectives:

To introduce the student to a variety of terms, definitions, and concepts that apply to the structure programming. Students will learn fundamentals of Java, decisions structures, loops and files, methods, classes, GUI applications, and Arrays in Java. Classroom instruction, review questions, and homework assignments will be combined for a comprehensive study. For transcript credit, students will be thoroughly tested on their ability to recall concepts about programming using Java and use computers to write programs.

Textbook:

Book Titles	Authors	ISBN Number	Publisher
Starting Out with Java from Control Structures through Data Structures, 1st Edition.	Tony Gaddis, Godfrey Muganda	0-321-49176-9	Addison-Wesley

Other Required Materials:

- 1 Flash Drive (any size)
- 1 Computer for Homework Assignments

Development Tools:

The course will use the following Java Development tool: Eclipse 3.4.0

Course Evaluation:

- In-class Test: 20%
- Review questions, Homework assignments: 30%
- Mid-term exam: 25%
- Final exam: 25%

The final grade will be evaluated based on the final score as below:

Grade	Final Score
A	90–100
B	80–89
C	70–79
D	60-69
F	0–59

The passing grade of this course is D.

Late Assignment Policy:

Late submissions of assignments will be evaluated as zero.

Make-up Exam Policy:

You are expected to take each exam on the scheduled dates. Make-up exams are not guaranteed, but are granted at the discretion of the instructor. If make-up exams are allowed, it is necessary to make arrangements with the instructor prior to exam date.

Course Calendar:

Week	Day	Date	Topics	Chapter	Notes
1	Monday	Sept. 15, 2008	Introduction to the Course		Chapter 1 - Introduction to Computer and Java

			Introduction to Computers and Java	1	
	Tuesday	Sept. 16, 2008	Tutor session		
	Wednesday	Sept. 17, 2008	Introduction to Computers and Java	1	Chapter 1 - Introduction to Computer and Java
2	Thursday	Sept. 18, 2008	Tutor session		
	Monday	Sept. 22, 2008	Java Fundamentals	2	Chapter 2 – Java Fundamentals
	Tuesday	Sept. 23, 2008	Tutor session		
	Wednesday	Sept. 24, 2008	Java Fundamentals	2	Chapter 2 – Java Fundamentals
3	Thursday	Sept. 25, 2008	Tutor session		
	Monday	Sept. 29, 2008	Java Fundamentals	2	Chapter 2 – Java Fundamentals
	Tuesday	Oct. 1, 2008	Tutor session		
	Wednesday	Oct. 2, 2008	Decision Structures	3	Chapter 3 – Decision Structures
4	Thursday	Oct. 3, 2008	Tutor session		
	Monday	Oct. 6, 2008	Decision Structures	3	Chapter 3 – Decision Structures
	Tuesday	Oct. 7, 2008	Tutor session		
	Wednesday	Oct. 8, 2008	Decision Structures	3	Chapter 3 – Decision Structures
5	Thursday	Oct. 9, 2008	Tutor session		
	Monday	Oct. 13, 2008	In-class Test		Test 1 - Score
	Tuesday	Oct. 14, 2008	Tutor session		
	Wednesday	Oct. 15, 2008	Loops and Files	4	Chapter 4 – Loops and Files
6	Thursday	Oct. 16, 2008	Tutor session		
	Monday	Oct. 20, 2008	Loops and Files	4	Chapter 4 – Loops and Files
	Tuesday	Oct. 21, 2008	Tutor session		
	Wednesday	Oct. 22, 2008	Loops and Files	4	Chapter 4 – Loops and Files
7	Thursday	Oct. 23, 2008	Tutor session		
	Monday	Oct. 27, 2008	Loops and Files	4	Chapter 4 – Loops and Files
	Tuesday	Oct. 28, 2008	Tutor session		
	Wednesday	Oct. 29, 2008	Methods	5	Chapter 5 – Methods
8	Thursday	Oct. 30, 2008	Tutor session		
	Monday	Nov. 3, 2008	Methods Review	5	Chapter 5 – Methods
	Tuesday	Nov. 4, 2008	Tutor session		
	Wednesday	Nov. 5, 2008	Mid-term Exam		
9	Thursday	Nov. 6, 2008	Tutor session		
	Monday	Nov. 10, 2008	Methods	5	Chapter 5 – Methods
	Tuesday	Nov. 11, 2008	Tutor session		
	Wednesday	Nov. 12, 2008	Methods	5	Chapter 5 – Methods
10	Thursday	Nov. 13, 2008	Tutor session		
	Monday	Nov. 17, 2008	Methods	5	Chapter 5 – Methods
	Tuesday	Nov. 18, 2008	Tutor session		
	Wednesday	Nov. 19, 2008	Methods	5	Chapter 5 – Methods

	Thursday	Nov. 20, 2008	Tutor session		
11	Monday	Nov. 24, 2008	A First Look at Classes	6	Chapter 6 – A First Look at Classes
	Tuesday	Nov. 25, 2008	Tutor session		
	Wednesday	Nov. 26, 2008	A First Look at Classes	6	Chapter 6 – A First Look at Classes
	Thursday	Nov. 27, 2008	Tutor session		
	Monday	Dec. 1, 2008	In-class Test		
12	Tuesday	Dec. 2, 2008	Tutor session		
	Wednesday	Dec. 3, 2008	A First Look at GUI Applications	7	Chapter 7 – A First Look at GUI Applications
	Thursday	Dec. 4, 2008	Tutor session		
	Monday	Dec. 8, 2008	A First Look at GUI Applications	7	Chapter 7 – A First Look at GUI Applications
13	Tuesday	Dec. 9, 2008	Tutor session		
	Wednesday	Dec. 10, 2008	A First Look at GUI Applications	7	Chapter 7 – A First Look at GUI Applications
	Thursday	Dec. 11, 2008	Tutor session		
	Monday	Dec. 15, 2008	A First Look at GUI Applications	7	Chapter 7 – A First Look at GUI Applications
14	Tuesday	Dec. 16, 2008	Tutor session		
	Wednesday	Dec. 17, 2008	Arrays and Arraylist Class	8	Chapter 8 – Arrays and Arraylist Class
	Thursday	Dec. 18, 2008	Tutor session		
	Monday	Dec. 22, 2008	Arrays and Arraylist Class	8	Chapter 8 – Arrays and Arraylist Class
15	Tuesday	Dec. 23, 2008	Tutor session		
	Wednesday	Dec. 24, 2008	Arrays and Arraylist Class	8	Chapter 8 – Arrays and Arraylist Class
	Thursday	Dec. 25, 2008	Tutor session		
	Monday	Dec. 29, 2008	Review		
16	Tuesday	Dec. 30, 2008	Tutor session		
	Wednesday	Dec. 31, 2008	Final exam		

Other Information:

- **Preparation for Class:** It is expected that the students read related chapters in textbook and lecture notes before each class. This will help to capture the topics presented and discussed during class hours.
- **Use of Class Time:** Class time will be used mainly for lectures and discussions. A small part of class hours is used for testing. Home works will be discussed on individual basis.
- **Class Attendance:** Due to the broad range of topics discussed throughout the course and their inter-relationship, it is requested that the students should attend the class regularly.

- Incomplete Grade: A grade of "I" (Incomplete) will be administered only under extreme, verifiable "emergency" situation where the student is unable to complete some portion of the course work due to circumstances beyond his/her control provided the student is passing the course.