

Northeastern University



College of Engineering

INFO 5100 – Application Engineering and Development

Spring 2024

COURSE INFORMATION

Course Number: INFO 5100 Course Title: Application Engineering and Development Course Prerequisites: None Term and Year: Spring 2024 Credit Hours: 4 Class Schedule: Tuesday, 3:00 pm – 6:20 pm Course Format: In person on the Oakland campus

INSTRUCTOR INFORMATION

Instructor Name: Sergey Aityan, DSc, Ph.D. Email Address: s.aityan@northeastern.edu Office Hours: In person on the Oakland campus.

TEACHING ASSISTANT INFORMATION

TA Name: Ms. Kriti Sonal Email Address: sonal.k@northeastern.edu Office Hours: Online via Zoom or Teams in scheduled sessions and individually by appointment

COURSE DESCRIPTION

This course is an introduction to the Java Programming language with Object Oriented concepts, and an emphasis on design, engineering, and unit testing. The course covers Java development environment, major Java concepts, principles, structures, and functionality. Hands-on development exercises will explore software solutions to real-world problems. Upon completion of this course, the students will possess a solid foundation to core Java functionality and will be able to make informed decisions regarding Java's suitability to address workplace challenges.

RECOMMENDED MATERIALS AND TEXBOOK

- Main source: Sergey Aityan, INFO 5100 lecture notes
- **Recommended textbook:** Scott Brandt (2023). Java From Zero: Learn Java Programming Fast for Beginners to Professionals: The Complete Guide With Code Examples and Exercises to Become a Professional, 288 pages, ISBN-13 : 979-8377148494
- Java reference source: https://www.w3schools.com/java/

COURSE LEARNING OUTCOMES

At the completion of this course, the student should be able to:

- Describe the differences between traditional programming and object-oriented programming.
- Explain concepts related to object-oriented programming, including classes, objects, methods, inheritance, polymorphism, interfaces, overloading vs. overriding, and encapsulation.
- Design and develop programs in Java.
- Apply object-oriented principles and approach to design and develop software systems,

INSTRUCTIONAL METHODOLOGIES

This course will combine traditional lecturing with hands-on assignments that reinforce the lecture material. Lectures will focus on concepts and ideas while the assignments will provide practical experience and skills. Students will also have a final project, which allows them to apply their acquired knowledge to interesting topics.

EXAMS

- There will be both a midterm exam and a final exam.
- Each exam includes about eight questions (no multiple choice) and one or two programming assignments.
- The answers must be written clearly and easy to read, structurally with a clear and logical presentation of the answers.
- Graphs, charts, tables, and other supporting illustrations are required if needed.
- Examples to illustrate the answers are mandatory required.
- The exams are neither "open book" nor "open notes."
- The final exam is comprehensive, i.e. includes the whole course.
- Cheating in exam results in immediate termination of the exam, and grade "F" with ZERO points.
- The instructor reserves the right to change the exam format, replace the written exam with a verbal exam or multiple choice if finds appropriate.

HOMEWORK, QUIZZES, ASSIGNMENTS, AND PROJECTS

- There will be home tasks each week during the course to be submitted by next week's class. These home tasks will serve to develop practical skills on the learned material.
- A brief quiz may be given in class to check the students' knowledge learned in the previous class.
- There will be 3 lab assignments required to submit during the course on the assigned day. The lab assignments will test the student's ability to design, develop, and test a complete program from start to finish. Each lab assignment should include a detailed description of the problem and the expected outcome. The details will be defined in each lab assignment.
- All students are required to work in teams on a course project. Each team consists of 4-6 members depending on the overall class size. The teams will present their complete project to the class at the end of the semester in a group presentation that consists of three parts: (1) a PowerPoint presentation with the problem statement, design ideas, major challenges, and results, (2) a live project demo, and (3) class discussion on the project. All team members should participate in the presentation by delivering a certain part of it. The team members absent in class at the time of their presentation will not pass the project assignment.

• All programming assignments should be submitted in the form of the file with the actual source code as well as the snapshot of the output.

GRADING POLICY

Each answer in assignment including exams labs, homework, and quizzes will be graded by points assigned to the task. The total percentage for each category of activities is calculated as the total collected points divided by the total possible maximum points.

Activity	Time	Percent weights
Quizzes, home tasks, and	Every week	15%
classroom activities		
Lab assignments (for all labs)	As assigned	15%
Course project	Last week of the course	30%
Mid-term exam	In the middle of the course	20%
Final exam	At the end of the course	20%

The final grade for the course will be given as the total weighted score for all activities according to the percentage wrights shown in the table below.

Grade	Α	A-	B+	В	B-	C+	С	C-	D+	D	F
% points	93-100	90-92	87-89	83-86	80-82	77-79	73-76	70-72	67-69	60-66	0-59

If both grades for the midterm and final exams are "F" the term grade for the course is "F" regardless of the grades for other activities.

NO MAKE-UP WORK

Assignments are to be completed on time during the course. Late assignments will result in a reduced grade. Mid-term and final exams and group presentations cannot be made up unless there was a documented emergency.

Classes		Торіс	Cha	Chapters	
#	Date		Lectures	Textbook	
1	Jan. 9	(a) About the course			
		(b) Computers, software, languages, design, and coding	Ch. 1		
2	Jan. 16	(a) Tools for Java Development		Ch. 1	
		(b) Setting up your development environment			
		(c) Running your first simple java program			
3	Jan. 23	(a) Setting up your own Java project	Ch. 3	Ch. 2	
		(b) Classes objects, methods, expressions, and			
		statements			
		(c) Creating your first java project program with an			
		archetype		Ch. 3	
		(d) Using comments in Java			
		(e) Discussion on the course project		Ch. 4	
4	Jan. 30	(a) Data types and variables	Ch. 4	Ch. 5	
		(b) Classes and Objects			
		(c) Terminal input and output			

COURSE SCHEDULE

(b) Creating and using strings. (c) Arrays and Lists in Java (d) HashMap and HashSet (e) Discussion on the first lab assignmentCh. 76Feb. 13(a) Arithmetic and Logical Operators in Java (b) Java Math (c) Conditional StatementsCh. 6Ch. 87Feb. 20(c) Loops (d) Methods in JavaCh. 7Ch. 97Feb. 20(c) Loops (d) Methods in JavaCh. 7Ch. 98Feb. 27Midterm ExamCh. 10Series an class9Mar. 12(a) Object-Oriented Design (OOD) and Object- Oriented Programming (OOP) (b) ClassesCh. 9Ch. 1110Mar. 19(a) Inheritance, polymorphism, inner classes, abstraction, and interface (b) Four pillars of OOD: encapsulation, abstraction, inheritance, and polymorphism (c) Troubleshooting, handling errors and throwing exceptionsCh. 12Ch. 1411Mar. 26(a) Reading and writing files in Java (c) Discussion on the third lab assignmentCh. 12Ch. 15Ch. 1612Apr. 2(a) Application user interface (b) Software development life cycle (SDLCCh. 1414Apr. 16Comprehensive Final ExamCh. 16	~					
(c) Arrays and Lists in Java (d) HashMap and HashSet (e) Discussion on the first lab assignment6Feb. 13(a) Arithmetic and Logical Operators in Java (b) Java Math (c) Conditional StatementsCh. 6Ch. 87Feb. 20(c) Loops (d) Methods in JavaCh. 7Ch. 97Feb. 27Midterm ExamCh.108Feb. 27Midterm ExamCh.18 as in class9Mar. 12(a) Object-Oriented Design (OOD) and Object- Oriented Programming (OOP) (b) ClassesCh. 9Ch. 1110Mar. 19(a) Inheritance, polymorphism, inner classes, abstraction, and interface (b) Four pillars of OOD: encapsulation, abstraction, inheritance, and polymorphism (c) Troubleshooting, handling errors and throwing exceptionsCh. 12Ch. 1411Mar. 26(a) Reading and writing files in Java (c) Discussion on the third lab assignmentCh. 12Ch. 13Ch. 1612Apr. 2(a) Application user interface (b) Software development life cycle (SDLCCh. 1413Apr. 9(a) Functional Programming with JavaCh. 1614Apr. 16Comprehensive Final ExamCh. 1-6 as in class	5	Feb. 6	(a) Data Structures	Ch. 5	Ch. 6	
(d) HashMap and HashSet (e) Discussion on the first lab assignment					Ch. 7	
(e) Discussion on the first lab assignment6Feb. 13(a) Arithmetic and Logical Operators in Java (b) Java Math (c) Conditional StatementsCh. 6Ch. 87Feb. 20(c) Loops (d) Methods in JavaCh. 7Ch. 98Feb. 27Midterm ExamCh.1-8 as in classMar. 5Spring Break – No ClassesImage: Comparison of the second lab assignmentCh. 99Mar. 12(a) Object-Oriented Design (OOD) and Object- Oriented Programming (OOP) (b) ClassesCh. 9Ch. 1110Mar. 19(a) Inheritance, polymorphism, inner classes, abstraction, and interface (b) Four pillars of OOD: encapsulation, abstraction, inheritance, and polymorphismCh. 10Ch. 1211Mar. 26(a) Reading and writing files in Java (c) Discussion on the third lab assignmentCh. 11Ch. 1411Mar. 26(a) Application user interface (b) Using databases in Java (c) Discussion on the third lab assignmentCh. 13Ch. 1612Apr. 2(a) Application user interface (b) Software development life cycle (SDLC (ch. 15Ch. 1613Apr. 9(a) Functional Programming with JavaCh. 1614Apr. 16Comprehensive Final ExamCh. 116 as in class						
6 Feb. 13 (a) Arithmetic and Logical Operators in Java (b) Java Math (c) Conditional Statements Ch. 6 Ch. 8 7 Feb. 20 (c) Loops (d) Methods in Java Ch. 7 Ch. 9 8 Feb. 27 Midterm Exam Ch.10 8 Feb. 27 Midterm Exam Ch.1-8 as in class 9 Mar. 5 Spring Break – No Classes Ch. 9 9 Mar. 12 (a) Object-Oriented Design (OOD) and Object- Oriented Programming (OOP) Ch. 9 Ch. 11 0 Object-Oriented Design (OOD) and Object- Oriented Programming (OOP) Ch. 10 Ch. 12 10 Mar. 19 (a) Inheritance, polymorphism, inner classes, abstraction, and interface Ch. 10 Ch. 12 0 Four pillars of OOD: encapsulation, abstraction, inheritance, and polymorphism 11 Mar. 26 (a) Reading and writing files in Java Ch. 11 Ch. 14 11 Mar. 26 (a) Application user interface Ch. 13 Ch. 16 12 Apr. 2 (a) Application user interface Ch. 14 12 Apr. 9 (a) Functional Programming with Java Ch. 16 1						
(b) Java Math (c) Conditional StatementsCh. 7Ch. 97Feb. 20(c) Loops (d) Methods in JavaCh. 7Ch. 98Feb. 27Midterm ExamCh. 1-8 as in classMar. 5Spring Break – No Classes9Mar. 12(a) Object-Oriented Design (OOD) and Object- Oriented Programming (OOP) (b) ClassesCh. 9(c) Adding new classes to your program (d) Discussion on the second lab assignment10Mar. 19(a) Inheritance, polymorphism, inner classes, abstraction, and interface (b) Four pillars of OOD: encapsulation, abstraction, inheritance, and polymorphism (c) Troubleshooting, handling errors and throwing exceptionsCh. 1011Mar. 26(a) Reading and writing files in Java (c) Discussion on the third lab assignmentCh. 1211Mar. 26(a) Application user interface (b) Using databases in Java (c) Discussion on the third lab assignmentCh. 1412Apr. 2(a) Application user interface (b) Software development life cycle (SDLC (ch. 15Ch. 1613Apr. 9(a) Functional Programming with JavaCh. 1614Apr. 16Comprehensive Final ExamCh.1-16 as in class			(e) Discussion on the first lab assignment			
(c) Conditional Statements7Feb. 20(c) Loops (d) Methods in JavaCh. 7 Ch. 9 Ch. 8Ch. 7 Ch. 9 Ch. 88Feb. 27Midterm ExamCh.1-8 as in classMar. 5Spring Break – No Classes9Mar. 12(a) Object-Oriented Design (OOD) and Object- Oriented Programming (OOP) (b) ClassesCh. 9(d) Discussion on the second lab assignment10Mar. 19(a) Inheritance, polymorphism, inner classes, abstraction, and interface (b) Four pillars of OOD: encapsulation, abstraction, inheritance, and polymorphism11Mar. 26(a) Reading and writing files in Java (c) Discussion on the third lab assignmentCh. 12 Ch. 11Ch. 14 Ch. 1511Mar. 26(a) Application user interface (b) Software development life cycle (SDLC Ch. 15Ch. 14 Ch. 1513Apr. 9(a) Functional Programming with JavaCh. 16 Ch. 1614Apr. 16Comprehensive Final ExamCh.1-16 as in classe	6	Feb. 13		Ch. 6	Ch. 8	
7Feb. 20(c) Loops (d) Methods in JavaCh. 7Ch. 98Feb. 27Midterm ExamCh.108Feb. 27Midterm ExamCh.1-8 as in class9Mar. 5Spring Break – No Classes9Mar. 12(a) Object-Oriented Design (OOD) and Object- Oriented Programming (OOP) (b) Classes (c) Adding new classes to your program (d) Discussion on the second lab assignmentCh. 910Mar. 19(a) Inheritance, polymorphism, inner classes, abstraction, and interface (b) Four pillars of OOD: encapsulation, abstraction, inheritance, and polymorphism (c) Troubleshooting, handling errors and throwing exceptionsCh. 1011Mar. 26(a) Reading and writing files in Java (c) Discussion on the third lab assignmentCh. 1211Mar. 26(a) Application user interface (b) Software development life cycle (SDLCCh. 1412Apr. 2(a) Application Programming with JavaCh. 1613Apr. 9(a) Functional Programming with JavaCh. 16			(b) Java Math			
(d) Methods in JavaCh. 8Ch. 108Feb. 27Midterm ExamCh.1-8 as in class9Mar. 5Spring Break – No Classes9Mar. 12(a) Object-Oriented Design (OOD) and Object- Oriented Programming (OOP) (b) ClassesCh. 9Ch. 110Oriented Programming (OOP) (b) Classes(c) Adding new classes to your program (d) Discussion on the second lab assignment10Mar. 19(a) Inheritance, polymorphism, inner classes, abstraction, and interface (b) Four pillars of OOD: encapsulation, abstraction, inheritance, and polymorphism (c) Troubleshooting, handling errors and throwing exceptionsCh. 11Ch. 1411Mar. 26(a) Reading and writing files in Java (c) Discussion on the third lab assignmentCh. 12Ch. 1511Mar. 26(a) Application user interface (b) Software development life cycle (SDLC (ch. 15)Ch. 1412Apr. 2(a) Application user interface (b) Software development life cycle (SDLC (ch. 15)Ch. 1613Apr. 9(a) Functional Programming with JavaCh. 1614Apr. 16Comprehensive Final ExamCh. 1-16 as in classCh. 20			(c) Conditional Statements			
8 Feb. 27 Midterm Exam Ch.1-8 as in class 9 Mar. 5 Spring Break – No Classes 9 Mar. 12 (a) Object-Oriented Design (OOD) and Object- Oriented Programming (OOP) Ch. 9 Ch. 11 0 Oriented Programming (OOP) (b) Classes (c) Adding new classes to your program 10 Mar. 19 (a) Inheritance, polymorphism, inner classes, abstraction, and interface Ch. 10 Ch. 12 (b) Four pillars of OOD: encapsulation, abstraction, inheritance, and polymorphism (c) Troubleshooting, handling errors and throwing exceptions Ch. 11 Ch. 14 11 Mar. 26 (a) Reading and writing files in Java Ch. 12 Ch. 15 (b) Using databases in Java Ch. 13 Ch. 16 12 Apr. 2 (a) Application user interface Ch. 14 (b) Software development life cycle (SDLC Ch. 16 13 Apr. 9 (a) Functional Programming with Java Ch. 16	7	Feb. 20	(c) Loops	Ch. 7	Ch. 9	
Mar. 5Spring Break – No ClassesCh. 119Mar. 12(a) Object-Oriented Design (OOD) and Object- Oriented Programming (OOP) (b) ClassesCh. 9Ch. 11(c) Adding new classes to your program (d) Discussion on the second lab assignment10Mar. 19(a) Inheritance, polymorphism, inner classes, abstraction, and interface (b) Four pillars of OOD: encapsulation, abstraction, inheritance, and polymorphism (c) Troubleshooting, handling errors and throwing exceptionsCh. 10Ch. 1211Mar. 26(a) Reading and writing files in Java (c) Discussion on the third lab assignmentCh. 12Ch. 13Ch. 1612Apr. 2(a) Application user interface (b) Software development life cycle (SDLCCh. 1413Apr. 9(a) Functional Programming with JavaCh. 1614Apr. 16Comprehensive Final ExamCh.1-16 as in classe			(d) Methods in Java	Ch. 8	Ch. 10	
9Mar. 12(a) Object-Oriented Design (OOD) and Object- Oriented Programming (OOP) (b) Classes (c) Adding new classes to your program (d) Discussion on the second lab assignmentCh. 9Ch. 1110Mar. 19(a) Inheritance, polymorphism, inner classes, abstraction, and interface (b) Four pillars of OOD: encapsulation, abstraction, inheritance, and polymorphism (c) Troubleshooting, handling errors and throwing exceptionsCh. 10Ch. 1211Mar. 26(a) Reading and writing files in Java (c) Discussion on the third lab assignmentCh. 12Ch. 1512Apr. 2(a) Application user interface (b) Software development life cycle (SDLCCh. 1413Apr. 9(a) Functional Programming with JavaCh. 1614Apr. 16Comprehensive Final ExamCh.1-16 as in class	8	Feb. 27	Midterm Exam			
Oriented Programming (OOP)(b) Classes(c) Adding new classes to your program(d) Discussion on the second lab assignment10Mar. 19(a) Inheritance, polymorphism, inner classes, abstraction, and interfaceCh. 10(b) Four pillars of OOD: encapsulation, abstraction, inheritance, and polymorphism(c) Troubleshooting, handling errors and throwing exceptionsCh. 1111Mar. 26(a) Reading and writing files in JavaCh. 12(c) Discussion on the third lab assignmentCh. 13Ch. 1612Apr. 2(a) Application user interface (b) Software development life cycle (SDLCCh. 1413Apr. 9(a) Functional Programming with JavaCh. 1614Apr. 16Comprehensive Final ExamCh.1-16 as in class		Mar. 5	Spring Break – No Classes			
(b) Classes(c) Adding new classes to your program(d) Discussion on the second lab assignment10Mar. 19(a) Inheritance, polymorphism, inner classes, abstraction, and interfaceCh. 10(b) Four pillars of OOD: encapsulation, abstraction, inheritance, and polymorphism(c) Troubleshooting, handling errors and throwing exceptionsCh. 1111Mar. 26(a) Reading and writing files in JavaCh. 12(b) Using databases in JavaCh. 13Ch. 16(c) Discussion on the third lab assignmentCh. 1412Apr. 2(a) Application user interface (b) Software development life cycle (SDLCCh. 1613Apr. 9(a) Functional Programming with JavaCh. 1614Apr. 16Comprehensive Final ExamCh.16 as in class	9	Mar. 12	(a) Object-Oriented Design (OOD) and Object-	Ch. 9	Ch. 11	
(c) Adding new classes to your program (d) Discussion on the second lab assignmentCh. 1010Mar. 19(a) Inheritance, polymorphism, inner classes, abstraction, and interface (b) Four pillars of OOD: encapsulation, abstraction, inheritance, and polymorphism (c) Troubleshooting, handling errors and throwing exceptionsCh. 10Ch. 1211Mar. 26(a) Reading and writing files in Java (c) Discussion on the third lab assignmentCh. 12Ch. 1412Apr. 2(a) Application user interface (b) Software development life cycle (SDLCCh. 1413Apr. 9(a) Functional Programming with JavaCh. 1614Apr. 16Comprehensive Final ExamCh.1-16 as in classCh. 16			Oriented Programming (OOP)			
(d) Discussion on the second lab assignment10Mar. 19(a) Inheritance, polymorphism, inner classes, abstraction, and interface (b) Four pillars of OOD: encapsulation, abstraction, inheritance, and polymorphism (c) Troubleshooting, handling errors and throwing exceptionsCh. 10Ch. 1211Mar. 26(a) Reading and writing files in Java (c) Discussion on the third lab assignmentCh. 12Ch. 1412Apr. 2(a) Application user interface (b) Software development life cycle (SDLCCh. 1413Apr. 9(a) Functional Programming with JavaCh. 1614Apr. 16Comprehensive Final ExamCh.1-16 as in class			(b) Classes			
10Mar. 19(a) Inheritance, polymorphism, inner classes, abstraction, and interface (b) Four pillars of OOD: encapsulation, abstraction, inheritance, and polymorphism (c) Troubleshooting, handling errors and throwing exceptionsCh. 10Ch. 1211Mar. 26(a) Reading and writing files in Java (c) Discussion on the third lab assignmentCh. 12Ch. 14Ch. 1512Apr. 2(a) Application user interface (b) Software development life cycle (SDLCCh. 1413Apr. 9(a) Functional Programming with JavaCh. 1614Apr. 16Comprehensive Final ExamCh.1-16 as in class			(c) Adding new classes to your program			
10Mar. 19(a) Inheritance, polymorphism, inner classes, abstraction, and interface (b) Four pillars of OOD: encapsulation, abstraction, inheritance, and polymorphism (c) Troubleshooting, handling errors and throwing exceptionsCh. 10Ch. 1211Mar. 26(a) Reading and writing files in Java (c) Discussion on the third lab assignmentCh. 12Ch. 14Ch. 1512Apr. 2(a) Application user interface (b) Software development life cycle (SDLCCh. 1413Apr. 9(a) Functional Programming with JavaCh. 1614Apr. 16Comprehensive Final ExamCh.1-16 as in class			(d) Discussion on the second lab assignment			
(b) Four pillars of OOD: encapsulation, abstraction, inheritance, and polymorphism (c) Troubleshooting, handling errors and throwing exceptions11Mar. 26(a) Reading and writing files in Java (b) Using databases in Java (c) Discussion on the third lab assignmentCh. 12 Ch. 13Ch. 15 Ch. 1312Apr. 2(a) Application user interface (b) Software development life cycle (SDLCCh. 14 Ch. 1513Apr. 9(a) Functional Programming with JavaCh. 1614Apr. 16Comprehensive Final ExamCh.1-16 as in class	10	Mar. 19		Ch. 10	Ch. 12	
inheritance, and polymorphismCh. 11Ch. 14(c) Troubleshooting, handling errors and throwing exceptionsCh. 11Ch. 1411Mar. 26(a) Reading and writing files in JavaCh. 12Ch. 15(b) Using databases in JavaCh. 13Ch. 16Ch. 16(c) Discussion on the third lab assignmentCh. 1412Apr. 2(a) Application user interfaceCh. 14(b) Software development life cycle (SDLCCh. 1513Apr. 9(a) Functional Programming with JavaCh. 1614Apr. 16Comprehensive Final ExamCh.1-16 as in class			abstraction, and interface			
(c) Troubleshooting, handling errors and throwing exceptionsCh. 11Ch. 1411Mar. 26(a) Reading and writing files in Java (b) Using databases in Java (c) Discussion on the third lab assignmentCh. 12Ch. 1512Apr. 2(a) Application user interface (b) Software development life cycle (SDLC)Ch. 1413Apr. 9(a) Functional Programming with JavaCh. 1614Apr. 16Comprehensive Final ExamCh.1-16 as in class			(b) Four pillars of OOD: encapsulation, abstraction,			
(c) Troubleshooting, handling errors and throwing exceptionsCh. 11Ch. 1411Mar. 26(a) Reading and writing files in Java (b) Using databases in Java (c) Discussion on the third lab assignmentCh. 12Ch. 1512Apr. 2(a) Application user interface (b) Software development life cycle (SDLC)Ch. 1413Apr. 9(a) Functional Programming with JavaCh. 1614Apr. 16Comprehensive Final ExamCh.1-16 as in class			inheritance, and polymorphism			
exceptions11Mar. 26(a) Reading and writing files in JavaCh. 12Ch. 15(b) Using databases in JavaCh. 13Ch. 16Ch. 16(c) Discussion on the third lab assignmentCh. 1412Apr. 2(a) Application user interfaceCh. 14(b) Software development life cycle (SDLCCh. 1513Apr. 9(a) Functional Programming with JavaCh. 1614Apr. 16Comprehensive Final ExamCh.1-16 as in class				Ch. 11	Ch. 14	
11Mar. 26(a) Reading and writing files in JavaCh. 12Ch. 15(b) Using databases in Java(c) Discussion on the third lab assignmentCh. 13Ch. 1612Apr. 2(a) Application user interfaceCh. 14(b) Software development life cycle (SDLCCh. 1513Apr. 9(a) Functional Programming with JavaCh. 1614Apr. 16Comprehensive Final ExamCh.1-16 as in class						
(b) Using databases in JavaCh. 13Ch. 16(c) Discussion on the third lab assignmentCh. 13Ch. 1612Apr. 2(a) Application user interfaceCh. 14(b) Software development life cycle (SDLCCh. 1513Apr. 9(a) Functional Programming with JavaCh. 1614Apr. 16Comprehensive Final ExamCh.1-16 as in class	11	Mar. 26		Ch. 12	Ch. 15	
(c) Discussion on the third lab assignment12Apr. 2(a) Application user interfaceCh. 14(b) Software development life cycle (SDLCCh. 1513Apr. 9(a) Functional Programming with JavaCh. 1614Apr. 16Comprehensive Final ExamCh.1-16 as in class				Ch. 13	Ch. 16	
12Apr. 2(a) Application user interfaceCh. 14(b) Software development life cycle (SDLCCh. 1513Apr. 9(a) Functional Programming with JavaCh. 1614Apr. 16Comprehensive Final ExamCh.1-16 as in class						
Image: Non-Structure(b) Software development life cycle (SDLCCh. 1513Apr. 9(a) Functional Programming with JavaCh. 1614Apr. 16Comprehensive Final ExamCh.1-16 as in class	12	Apr. 2		Ch. 14		
13Apr. 9(a) Functional Programming with JavaCh. 1614Apr. 16Comprehensive Final ExamCh.1-16 as in class		1		Ch. 15		
	13	Apr. 9				
	14	Apr. 16	Comprehensive Final Exam	Ch.1-16	as in class	
15 Apr. 23 Group presentations of course projects	15	Apr. 23	Group presentations of course projects			

CHEATING AND PLAGIARISM

Cheating is the actual or attempted practice of fraudulent or deceptive acts for the purpose of improving one's grade or obtaining course credit. Acts of cheating include, but are not limited to, the following:

(a) plagiarism;

(b) copying or attempting to copy from others during an examination or on an assignment;

(c) communicating test information with another person during an examination;

(d) allowing others to do an assignment or portion of an assignment;

(e) using a commercial term paper service.

Cheating or plagiarism will result in zero points and letter grade F for an assignment, project, or exam and a report of the incident to the Dean of Students, who may place related documentation in a file. Repeated acts of cheating may result in an F in the course and/or disciplinary action.

OTHER COMMENTS

- Please participate. What you put into the class will determine what you get out of it and what others get out of it.
- Please come on time. Late arrivals disturb everyone else.
- If you miss a class, you are responsible for getting lecture notes/slide printouts on the material covered from a classmate or the instructor.
- Use of cellular phones is prohibited during class or exams. Cellular phones must be turned off or silenced.
- Questions and comments during the class are welcome. Do not hesitate to ask questions do not leave anything unclear for you.

MODIFICATION OF THE SYLLABUS:

The instructor reserves the right to modify this syllabus at any time during the semester. Announcements of any changes will be made in a classroom.