CMIS242: Intermediate Programming (3)

2012 Summer Session is from 05 Jun 2012 to 26 Jul 2012
MCAS Iwakuni on Tuesday & Thursday from 6:00PM to 9:00PM

Faculty Contact Information:

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- Office Hours: By appointment before class is usually best time.

Course Introduction

In this course, we will introduce you to the design and implementation of programs using the object-oriented programming language Java. We will begin by showing you how to create, compile, and execute simple programs using the Java software developer's kit (SDK). We will then introduce branching and looping structures and show you how to create subroutines that are referred to as methods in Java. After working with arrays to store and manipulate data, we will end with a discussion of object-oriented concepts, including classes. Throughout the course, we will cover good software engineering procedures as well as ethical issues.

Course Description

Prerequisite: CMIS 141. Further study of the Java programming language. The objective is to design, implement, test, debug, and document Java programs, using appropriate development tools. Topics include object-oriented design, event-driven programming, exceptions, recursion, arrays, and data structures.

Course Outcomes

Upon successful completion of this course, the student will achieve the following objectives:
1. write programs that use data structures, including arrays, strings, linked lists, stacks, queues, sets, and maps
2. design, implement, test, debug, and document recursive functions
3. design, implement, test, debug, and document GUI, event-driven programs
4. design, implement, test, debug, and document in object-oriented programming language

Course Materials

1. Introduction to Java Programming-Comprehensive, 8th ed., Y. Liang, Prentice Hall, ISBN: 9780132130806
2. USB Thumb Drive >= 1 GigaByte

Additional Information

Work Load

The University of Maryland expects students will need about 12 hours a week outside of class time preparing for classes and do projects. Although each student has a different background, goals and study habits, most students will need to spend that amount of time in order to succeed.

Late Work

Late assignments will be reduced 30% for each class period late. Don't fall behind in this class.

Grading Information and Criteria

The final grade will determined as described in the tables below with points allocation and grading scale shown.

Activities	Points	Weight
Participation	60	15%
Project 1	80	20%
Project 2	80	20%
Project 3	80	20%
Final Project	100	25%
Total	400	100%

Grade	Percent
A	100.0 to 90.0%
B	89.9 to 80.0%
C	79.9 to 70.0%
D	69.9 to 60.0%
F	< 60%

Additional Information:

Course Schedule

This is a tentative schedule and may be modified by instructor as circumstances deem necessary. Please read the sections to be covered prior to the class meeting.

Week	Readings, Assignments, and Due Dates	
1	Read:	• Liang, chapter 10 Thinking in Objects
	Do:	• Actively participate in class discussions • Install Java 6 and Eclipse
2	Read:	• Liang, chapter 11 – Inheritance and Polymorphism
	Do:	• Actively participate in class discussions • Submit Project 1 – Java Object and Inheritance
3	Read:	• Liang, chapter 13 – Exception Handling • Liang, chapter 12 – GUI Basics
	Do:	• Actively participate in class discussions
4	Read:	• Liang, chapter 14 – Abstract Classes and Interfaces
	Do:	• Actively participate in class discussions • Submit Project 2 – Exception Handling, Interfaces, GUI Design
5	Read:	• Liang, chapter 15 – Graphics • Liang, chapters 16 – Event Driven Programming
	Do:	• Actively participate in class discussions
6	Read:	• Liang -- chapter 17 – Creating Graphical User Interfaces
	Do:	• Actively participate in class discussions • Submit Project 3 – GUI Creation for Applications and Applets
7	Read:	• Liang, chapter 18 – Applets and Multimedia • Liang, chapter 33 – Containers, Layout Managers, and Borders
	Do:	• Actively participate in class discussions
8	Read:	• Liang, chapter 34 – Menus, Toolbars, and Dialogs
	Do:	• Actively participate in class discussions • Submit Final Project

UMUC Asia Administrative Policies, Procedures and Practices

Ordering Course Materials:

Textbooks can be ordered online at the Asia Web site, http://webtext.asia.umuc.edu/. Books ordered from any other source will be at the student's own risk. UMUC Asia cannot be responsible for problems encountered when textbooks are ordered from sources outside of the Asia Web site.

Contact Information (Japan Area):

- For administrative assistance contact please contact your local Enrollment Specialist Office:
    - Japan Regional Enrollment Office: ojapan@asia.umuc.edu
    - Atsugi: atsugi@asia.umuc.edu
    - Camp Fuji: fuji@asia.umuc.edu
    - Camp Zama: zama@asia.umuc.edu
    - Iwakuni: iwakuni@asia.umuc.edu
    - Misawa: misawa@asia.umuc.edu
    - Sasebo: sasebo@asia.umuc.edu
    - Yokosuka: yokosuka@asia.umuc.edu
    - Yokota yokota@asia.umuc.edu
- For Academic Advising Support contact: japanadvisors@asia.umuc.edu
- For GoArmyEd issues contact: GoArmyEd@asia.umuc.edu
- For WebTycho assistance on workdays contact: tycho@asia.umuc.edu
- For WebTycho assistance on Saturdays and Sundays: http://support.umuc.edu/
- For MyUMUC help visit UMUC 360 Helpdesk - http://support.umuc.edu/
- Support for UMUC Asia students is also available by phone at 225-3680 (DSN) or 81-42-552-2510 Ext. 5-3680 (international comm.), Monday - Friday 7:30 a.m. - 4:30 p.m. (JST).

Plagiarism:

Ask your professor about his/her plagiarism policies. Here is a great source for further guidance on how to avoid plagiarism: UMUC's Online Writing Center "How to Avoid Plagiarism"

    The University has a license agreement with Turnitin, a service that helps prevent plagiarism from Internet resources. The professor may be using this service in this class by either requiring students to submit their papers electronically to Turnitin or by submitting questionable text on behalf of a student. If you or the professor submit part or all of your paper, it will be stored by Turnitin in its database throughout the term of the University's contract with Turnitin. If you object to this temporary storage of your paper, you must let the professor know no later than two weeks after the start of this class. Please Note: If you object to the storage of your paper on Turnitin, the professor may utilize other services to check your work for plagiarism.

Students With Disabilities:

Reasonable accommodations are available for students who have disabilities and are enrolled in any program offered at UMUC. For more information, students should contact the Director, Student Affairs or e-mail SADirector@asia.umuc.edu.

Academic Policies:

Academic Policies are not course specific and are therefore created and housed separately from this document. You may access and print Academic Policies by going to this link http://www.umuc.edu/policies/academicpolicies/aa15025.cfm.

Caveat:

UMUC Asia syllabi are tentative and subject to change, if necessary. Changes will be announced with as much notice as possible.