University of Detroit Mercy
College of Engineering and Science
Department of Mathematics, Computer Science and Software Engineering

CSSE-2130 01 Java
Fall 2015

DESCRIPTION OF COURSE: Java applications, Java applets, control structures, methods, arrays, strings and characters, object-oriented programming, graphics and Java 2D, basic graphical user interface components, exception handling, files and streams, and Java utilities.

CREDIT HOURS: 3

PREREQUISITES: CSSE 1720 - Introduction to Programming II

PREREQUISITES BY TOPIC: Ability to program using the C++ programming language with an understanding of abstract data types.

REQUIRED TEXT: *Absolute Java*, Walter Savitch and Kenrick Mock, Addison-Wesley, Fifth Edition, ISBN: 978-0-13-283031-7

RECOMMENDED TEXTS: Java: How to Program, 9th Edition, Paul Deitel, Harvey Deitel, Prentice Hall, ISBN: 9780132575669

INSTRUCTOR: Dr. Shadi Banitaan, Assistant Professor
(313) 993-1163, Email: banitash@udmercy.edu

OFFICE HOURS: Tuesday & Thursday 2:00PM – 3:00PM; email or call to schedule an appointment.

LECTURE: MW 2:00 PM-3:15 PM, Room E372.

COURSE OBJECTIVE: To introduce the unique attributes and abilities of the Java programming language while strengthening understanding of OOP and other programming topics. This course will cover Java applications including user interface programming and data input/output.

COURSE OUTCOMES: Upon completion of the course, students will be able to*****:

1. Understand the unique features of Java. (i)
2. Perform data input and output (console and file). (a)(i)
3. Write and debug Java programs. (a)(i)
4. Create a graphical user interface. (a)(b)(d)(i)
5. Present final project clearly orally and in writing. (d)
    *Letters refer to Computer Science Program Outcomes

COMPUTER USAGE: Students will use the Eclipse IDE for Java developers in addition to Java SE JDK 1.6+.

TOPICS:
- Introduction to Java
- Console Input and Output
- Flow Control
- Defining Classes
- Arrays
- Inheritance
- Polymorphism and Abstract Classes
- Exception Handling
- File Input and Output
- Interfaces and Inner Classes
- Collections, Maps, and Iterators
- Swing - GUI

GRADING:

15%	Quizzes/HW
50%	Project and Program Assignments
15%	Midterm Exam
20%	Final Exam

EXAM SCHEDULE (TENTITATIVE):   Thursday, December 17, 2:00 PM-3:50 PM.

GRADING SCALE:

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

LATE ASSIGNMENTS:

Due dates will be provided for each assignment when it is posted. Late assignments will be accepted with a penalty of 10% per day late. Late assignments will not be accepted more than 1 week past the due date. No extensions will be given due to illness, school activities, etc. since there is plenty of time to complete assignments before the due date. Extensions will be considered in the case of serious family emergencies, extended illness, or other lengthy absence only, and must be requested prior to the due date.

IMPORTANT DATES:

Aug 31	Classes Begin
Sep 5-7	Labor Day Holiday
Sept 7	Last Day to Add a Class
Sept 7	Last Day to Drop a Class without a "W"
Oct 12-13	Fall Break- University open but no classes
Oct 27	Mid-term Grades are due
Nov 02	Advising for Winter and Summer
Nov 09	Registration for Winter and Summer begins
Nov 23	Last Day to Withdraw from Class
Nov 25	Thanksgiving Break- University open but no classes
Nov 26-29	Thanksgiving Recess (UNIV CLOSED)
Dec 15-19	Final Exam Week
Dec 19	Official End of Term I/Fall
Dec 21	Grades due by Noon for Term I/Fall

ACADEMIC INTEGRITY:

Students are expected to conform to a high standard of honesty and integrity in this course. Copying the work of someone else and other forms of cheating are strictly prohibited. Permitting or tolerating such behavior is also prohibited. The minimum penalty for any offense is a 0 on that assignment. The culprits may be subject to additional sanctions, up to and including expulsion from school for serious offenses, as prescribed by the University Catalog and the Engineering and Science Student Handbook.

STUDENTS WITH DISABILITIES

It is very important for students to be proactive with regard to requesting disability accommodations. While it is never required that you disclose your disability to your professors, all students at UDM are encouraged to talk to their professors to discuss their concerns. Faculty cannot provide disability accommodations without official notification from the Disability Support Services office. If you need an accommodation because of a disability, if you have emergency medical information to share, or if you need special arrangements in case the building must be evacuated, please contact Ms. Emilie Wetherington as soon as possible to schedule an appointment (gallegem@udmercy.edu or (313) 578-0310). Disability Support Services is located in the Student Success Center, Room 319, on the 3rd Floor of the Library, McNichols Campus.

LICENSURE STATEMENT

Notice that the institution cannot confirm whether or not the program meets licensure requirements in the student's state of residence and a list of current contact information for any applicable licensing boards.

Please note that important messages (such as cancellation of a class session) will be communicated through Blackboard and/or UDM email addresses.