

MESABI RANGE COMMUNITY & TECHNICAL COLLEGE – VIRGINIA/EVELETH

Course Outline

Course Title: Java Programming  
Semester Course Prefix and Number: CSCI 2461  
Old Quarter Course Prefix and Number:

Submitted By: R. Booth  
Approval Date:  
Revision Date: Feb. 2002

Number of Credits: 4 Number of Lecture Credits: 4  
Semester(s) Offered: Fall Number of Lab Credits: Number of Lab Hours:  
Negotiated Class Size: Number of Studio/Demonstration/Internship Credits:

Course Purpose Code:

- 0 – Developmental Courses
- 1 – Non-transferable, General Education
- 2 – Technical course related to career programs
- 3 – College course which has the primary goal of applying certain concepts (e.g. vocal ensemble)
- 4 – Other college course not considered a part of general education (MNTC) e.g. computer science, health, physical education
- 5 – Course which is intended to fulfill the Minnesota Transfer Curriculum (MNTC) requirements.
- 9 – Continuing Education/Customized Training specialized credit course (not occurring in 0-5)

Catalog Description:

This course provides an introductory overview of the Java programming language including its main features and advanced constructs. The course covers programming fundamentals, compilation, and execution of Java programs and Java applets.

Prerequisites and/or recommended entry skills/knowledge:

Course Prerequisite(s): Two programming courses or consent of instructor  
Reading Prerequisite: None  
Composition Prerequisite: None  
Mathematics Prerequisite: None

Career Programs and Transfer Majors Accessing this Course:

Computer Programming

Minnesota Transfer Curriculum Goal(s) partially met by this course if applicable: Notes: No more than two goals may be met by any one course. (Curriculum Committee review and the Chief Academic Officer's approval are required).

- 0.  None
- 1.  Communications
- 2.  Critical Thinking
- 3.  Natural Sciences
- 4.  Mathematical/Logical Reasoning
- 5.  History and the Social and Behavioral Sciences
- 6.  The Humanities and Fine Arts
- 7.  Human Diversity
- 8.  Global Perspectives
- 9.  Ethical and Civic Responsibility
- 10.  People and the Environment

**Learning outcomes, including any relevant competencies listed in the Minnesota Transfer Curriculum:**

The student will learn:

1. to use classes, objects, methods and properties.
2. about input, selection and repetition.
3. about arrays and strings.
4. about applets.
5. about graphics.
6. about inheritance.
7. how to compile and view Java programs and applets.
8. about Java as an event driven language.

**Student assessment methods:**

Lab exercises  
Unit exams

**Use of instructional technology** (includes software, interactive video and other instructional technologies):

Computer with Java required

**Outline of the major course content:**

Java as an object oriented language  
Variables, constants, data types, and variable scope  
Decisions and constants  
Writing Java functions  
Responding to events  
Working with graphics  
Recursion

**Additional special information** (special fees, directives on hazardous materials, etc.)

**Transfer Information:** (Please list colleges/majors that accept this course in transfer.)

**Approvals:**

Body	Representative Signatures	Date
Curriculum Committee		
Faculty Association		
Meet and Confer		
Chief Academic Officer		

Distribution: Original – Administrative Office, Library, Learning Center, Records, Student Services, Curriculum Committee Chair