I. TITLE: Introduction to Programming I

II. COURSE DESCRIPTION AND PREREQUISITE(S): An introduction to problem-solving methods and algorithm development using a high-level programming language. The course will include methods of program design, coding techniques, debugging and internal documentation. The course emphasizes structured programming and top-down design and also covers object-oriented programming. Topics include variable I/O, repetition, selection, subprograms, file handling, and object-oriented programming. Course includes three hours lecture and a two-hour laboratory experience each week. This is the recommended second course for majors in the discipline. Prerequisites: CSC 101 and MAT 150 or equivalent.

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III. COURSE OBJECTIVES: At the successful completion of this course, the student should:
A. Create programs in Java using an appropriate IDE
B. Be able to design simple algorithms for problem-solving with a computer
C. Learn the number-systems common in computing
D. Be able to debug syntax and run-time errors in a high-level programming language such as Java

IV. CONTENT OUTLINE: The following chapters in the Java text will be covered:

- Introduction to Computers and Programming
- Elementary Programming
- Selections & Loops
- Methods
- Single-Dimension Arrays
- Multi-Dimension Arrays
- Objects & Classes
- Strings and Text Input/Output
- Thinking in Objects
- Inheritance and Polymorphism
- GUI Basics
- Graphics
- Abstract Classes and Interfaces
- Event-Driven Programming
- Creating Graphical User Interfaces
V. INSTRUCTIONAL ACTIVITIES:   Classroom time will be spent with discussion and demonstration of features provided by the Java language library, JGrasp, and the Java Runtime Environment. Out-of-class time will be spent in completing programming assignments. You are expected to have read the material prior to class in order to contribute to the class discussion and demonstrations.

VI. FIELD, CLINICAL, AND/OR LABORATORY EXPERIENCES: None.

VII. TEXT(S) AND RESOURCES: Horstmann, Cay, Big Java: Late Objects – Wiley.

VIII. EVALUATION AND GRADING PROCEDURES:

- Programming Assignments  40%
- Exams 60%

This is tentative and subject to changes as announced in class.

Each of you is strongly discouraged from missing a scheduled examination. Should circumstances prevent you from taking a test at the scheduled time, your absence should be excused and a makeup time agreed upon at least 24 hours in advance. Failure to make such arrangements may result in a grade of zero for that test. No additional work will be accepted for "extra credit" or "grade improvement."

A numerical score will be computed based upon the above weights and a letter grade assigned according to a 10-point grading scale. I reserve the right to adjust this scale if the class average is either very high or very low.

IX. ATTENDANCE POLICY: You are expected and strongly encouraged to attend class regularly and on time in order to gain maximum benefit from the course. Class attendance will be checked, but will not be an explicit factor in the course grade. You are responsible for all material missed due to class absences. Students are expected to adhere to the MSU Attendance Policy on page 11 in the 2013-2014 MSU Bulletin.

X. ACADEMIC HONESTY POLICY:

Murray State University takes seriously its moral and educational obligation to maintain high standards of academic honesty and ethical behavior. Instructors are expected to evaluate students’ academic achievements accurately, as well as ascertain that work submitted by students is authentic and the result of their own efforts, and consistent with established academic standards. Students are obligated to respect and abide by the basic standards of personal and professional integrity.

Violations of Academic Honesty include:

- **Cheating** - Intentionally using or attempting to use unauthorized information such as books, notes, study aids, or other electronic, online, or digital devices in any academic exercise; as well as unauthorized communication of information by any means to or from others during any academic exercise.
- **Fabrication and Falsification** - Intentional alteration or invention of any information or citation in an academic exercise. Falsification involves changing information whereas fabrication involves inventing or counterfeiting information.
- **Multiple Submission** - The submission of substantial portions of the same academic work, including oral reports, for credit more than once without authorization from the instructor.
- **Plagiarism** - Intentionally or knowingly representing the words, ideas, creative work, or data of someone else as one’s own in any academic exercise, without due and proper acknowledgement.
Instructors should outline their expectations that may go beyond the scope of this policy at the beginning of each course and identify such expectations and restrictions in the course syllabus. When an instructor receives evidence, either directly or indirectly, of academic dishonesty, he or she should investigate the instance. The faculty member should then take appropriate disciplinary action.

Disciplinary action may include, but is not limited to the following:

1) Requiring the student(s) to repeat the exercise or do additional related exercise(s).
2) Lowering the grade or failing the student(s) on the particular exercise(s) involved.
3) Lowering the grade or failing the student(s) in the course.

If the disciplinary action results in the awarding of a grade of E in the course, the student(s) may not drop the course.

Faculty reserve the right to invalidate any exercise or other evaluative measures if substantial evidence exists that the integrity of the exercise has been compromised. Faculty also reserve the right to document in the course syllabi further academic honesty policy elements related to the individual disciplines.

A student may appeal the decision of the faculty member with the department chair in writing within five working days. Note: If, at any point in this process, the student alleges that actions have taken place that may be in violation of the Murray State University Non-Discrimination Statement, this process must be suspended and the matter be directed to the Office of Equal Opportunity. Any appeal will be forwarded to the appropriate university committee as determined by the Provost.

XI. NON-DISCRIMINATION POLICY STATEMENT: Murray State University endorses the intent of all federal and state laws created to prohibit discrimination. Murray State University does not discriminate on the basis of race, color, national origin, gender, sexual orientation, religion, age, veteran status, or disability in employment, admissions, or the provision of services and provides, upon request, reasonable accommodation including auxiliary aids and services necessary to afford individuals with disabilities equal access to participate in all programs and activities.

For more information, contact the Executive Director of Institutional Diversity, Equity and Access, 103 Wells Hall, (270) 809-3155 (voice), (270) 809-3361 (TDD).