



THE OHIO STATE UNIVERSITY
COLLEGE OF ENGINEERING

Introduction to Computer Programming in Java

CSE 6012

Credit Hours:

3.00

Course Levels:

Graduate (5000-8000 level)

Course Components:

Lecture

Lab

Course Description:

Introduction to computer programming and to problem solving techniques using computer programs; programming lab experience.

Prerequisites and Co-requisites:

Prereq: Permission of instructor.

Course Goals / Objectives:

- Be competent with using basic coding features provided by high-level imperative programming languages
 - Be competent with writing computer programs to implement given simple algorithms
 - Be familiar with analyzing simple real-life problems and choosing appropriate algorithms for their solution
 - Be familiar with using basic data structures such as arrays in simple programs
 - Be familiar with using methods and classes to help produce well-structured programs
 - Be familiar with reading and programming for API's
 - Be familiar with designing simple text-oriented user interfaces
 - Be exposed to the services provided by an operating system
 - Be exposed to the virtual machine model of modern computer systems
 - Be exposed to data abstraction concepts and other more advanced programming ideas
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Course Topics:

- Basic concepts
 - Primitive types and expressions; String; basic I/O
 - Flow of control and Boolean expressions
 - Defining methods
 - Arrays
 - Basic exception handling and standard Java I/O
 - Classes and objects
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Designation:

Elective