

Introduction to JAVA

CIS-149 30 O

Summer Term 2023-2024 School Year Section 30 O 3.00 Credits 05/13/2024 to 07/19/2024

Modified 05/21/2024

Course Description

Focus is on developing the skills necessary to understand, write and debug applications in the Java programming language. Topics covered include data types, operators, expressions, program flow control statements, methods, objects and classes, class inheritance, and creating graphical user interfaces.

Prerequisite: CIS 130

Outcomes

Course Outcomes

The student should have the following skills upon successful completion of this course:

- Familiarity with syntax and methods within the Java programming language
- Skills required to utilize IBM's Rational Application Developer for developing Java applications
- Problem analysis, logic design, and program development of entry level Java business applications
- Ability to develop Java desktop and web applications that can read/write/modify data in an object
- Ability to find and fix software "bugs" in entry level Java programs

Program Outcomes

Science and Technology

- Develop software applications to solve a business problem.
- Demonstrate proficiency in the design and use of databases.

Problem Solving/Critical Thinking

- Appraise the strengths and weaknesses of one's completed work.
- Analyze a client's software requirements in order to develop possible solutions.

Professionalism

- Utilize professional resources (i.e. professional organizations, media and IT websites).
- Use effective time management skills.

Communication

- Research and present an IT topic using appropriate terminology.
- Write programs with clarity, efficiency, and accuracy.

Additional Outcomes

Course Materials

Murach's Java Programming

Author: Murach

Publisher: Murach

Edition: 6th

ISBN: 9781943872879

Availability: Campus Bookstore

Price: \$59.99

eBook: \$52.50 (ISBN: 9781943872909)

Deliverables

Evaluation Procedures and Grading

Criteria

Exams & Quizzes (50% of grade). –

- Approximately four exams will be given during the semester.
- Exams will consist primarily of open book/open computer performance tests
- Exams may also contain T/F, Matching, and or MC questions.
- Any email or IM program must be turned off during a test or your test will be picked up and you will receive a zero for a grade on the test.

Programming Problems/Lab Assignments (44% of grade). -

- All assignments will be given a due date.
- Due dates will **not be changed** unless prior arrangements have been made.
- Student may receive partial credit for partial solutions.
- Since assignments are turned in electronically, being absent from class is not an excuse for turning in an assignment late.

Since the mission of Southeast Technical Institute is to educate people for employment in technical careers, it's important that students 'Do their own Work!'

Topic Review Assignments (6% of grade) –

In an effort to assist students with topics that may be challenging, periodic short **in-class** assignments/activities will be given (approximately one per week). Some assignments will be completed independently, while others will be done in small groups. Assignments in this category cannot be made up if missed.

Breakdown

Grading Scale:

A 89.5% +		B 79.5% - 89.5%		C 69.5% - 79.5%		D 59.5% 69.5%		F = 59.5% and Below	
Type		Weight		Topic		Notes			

Additional Items

Course Outline
