

## **ITDEV-110: Introduction to Object-Oriented Programming**

### Course Description:

This course introduces the fundamental concepts of programming from an object-oriented perspective. Topics include class design, simple data types, control structures, storage allocation, scope and simple data structures (arrays). Students will develop algorithms to solve programming problems and use debugging techniques to test their solutions. The course emphasizes good software engineering principles and developing fundamental programming skills in the context of a language that supports the object-oriented paradigm. Emphasis will be placed on class design, implementation and problem solving. MATC strongly recommends that students take this course concurrently with ITDEV117 Logic and Problem Solving.

To apply for CPLE - Students need to provide the following artifacts:

- Resume indicating organization, job title, time in position
- Job Description
- Performance Reviews
- Letter of validation from employer or coworker
- Sample of work: source code, executables, technical specifications, technical documentation
- Written Explanation: Narrative on how the work experience matches the MATC Course Description, Learning Objectives/Competencies

Total Credits: 3.00

### Course Competencies

- 1. Manipulate objects**
- 2. Use programming language constructs and operations**
- 3. Use fundamental data structures**
- 4. Solve problems with algorithms**
- 5. Apply logic structures**
- 6. Create classes**