

Title	Object Oriented Programming
Code	CMP-342
Credit Hours	3
Category	Computing
Prerequisite	CMP-340 Programming Fundamentals
Co-Requisite	None
Follow-up	CMP-410 Data Structures and Algorithms CMP-411 Data Structures and Algorithms Lab
Course Description	Topics: Object Oriented Concepts, Terminology and Features, Class/ADT/UDT, Data Abstraction and Encapsulation, Special Methods, Constructor and Destructor; Modifier const; Array and Pointer of ADT, Composition, Aggregation; this Pointer, friend Function and Class, Modifier static, Operator Overloading, Function and Class Templates, Inheritance, its types, and related Terminology, Overriding: static & dynamic/Polymorphism; Stream I/O, File Processing; Exception Handling
Text Book(s)	1. H. M. Deitel, P. J. Deitel, C++ How to Program, 5th Ed., Prentice Hall, 2005, ISBN 0-13-185757-6.
Reference Material	1. Victor Shtern, Core C++ A Software Engineering Approach, 1st Ed., Prentice Hall PTR, 2000, ISBN: 0-13-085729-7. 2. Stephen Parata, C++ Primer Plus, 5th Ed., Sams Publishing, 2005, ISBN 0-672-32697-3. 3. Bjarne Stroustrup, The C++ Programming Language, 4th Ed., Addison Wesley, 2013, ISBN-10 0-321-56384-0. 4. Handouts.