

Object Oriented Programming II

Syllabus Information

CS 1812 - Object Oriented Programming II

Associated Term: 2020/21 Academic Session

Learning Objectives:

This course teaches programming and object-orientation concepts, building on what is taught in CS1811. Students will reinforce their knowledge about program basics (e.g. variables, types, scope, lifetimes), algorithms (e.g. recursion, searching, sorting), data structures (e.g. sets, lists, trees), objects (e.g. classes, dynamic dispatch, interface, inheritance, generics), exceptions and I/O (e.g. streams, file reading, writing and copying). Furthermore, the course also teaches fundamentals of coding best practices. **Pre-requisites:** CS1811 **Learning Outcomes:** 1. Ability to implement basic algorithms and data structures; 2. Understand and use object-oriented concepts; 3. Appreciate the need for program documentation, testing, readability and modifiability.

Required Materials: [Click here for the reading list system](#)

Technical Requirements: The total number of notional learning hours associated with course are 150. **These will normally be broken down as follows:** Lectures - 3 hours per week - 11 weeks - 33 hours Guided Independent Study - 117 hours **Summative**

Assessment: Programming Assignments (30 Hours) - 30% Quizzes (100 Minutes) - 10% Written exam (90 Minutes) - 60%