

CS202: Programming Systems

Week 1: Introduction

09/2024

Objectives

- ❑ to prepare students for programming in the upper division 3xx and 4xx level classes.
 - ❑ to introduce students to object-oriented programming.
 - ❑ to experience object oriented design and programming at the same time as becoming better acquainted with advanced data structures.
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Exams and Marking

- ☐ Assignments: 20%
 - ☐ Project: 15%
 - ☐ Mid-term exam : 25%
 - ☐ Final exam: 40%

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Course schedule

- ☐ Week 1: Introduction of Object-Oriented Programming
 - ☐ Week 2: Constructor and Destructor
 - ☐ Week 3: Operators
 - ☐ Week 4: Inheritance (part 1)
 - ☐ Week 5: Inheritance (part 2) & polymorphism
 - ☐ Week 6: Review & Mid-term exam
 - ☐ Week 7: Templates
 - ☐ Week 8: Exception handling
 - ☐ Week 9: Patterns & STL
 - ☐ Week 10: Review for the final
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References

- ❑ Main Book:
 - Object Oriented Programming using C++, Pohl, Addison Wesley.
 - ❑ Further readings:
 - Effective and More Effective C++, Scott Meyers.
 - The C++ Programming Language, Bjarne Stroustrup, Addison-Wesley.
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