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| ECE 2310  **Object-Oriented Programming in C#**  **COURSE SYLLABUS**  Fall 2019 **INSTRUCTOR: Mei Klein, PhD.**  E-mail : mbklein@cpp.edu  Prerequisite:  ECE 1310 or ECE 114 |  |
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| Course Topics   1. the fundamental concepts of object-oriented design and programming  2. application of object-oriented programming to solving real world problems  3. C# programming language syntaxes |  |
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| Textbook/Tutorial (Recommended) |  |
| * John Sharp, "Visual C# 2010 Step by Step", by Microsoft, ISBN 13: 9780735626706 ISBN 10: 0-7356-2670-7. * https://www.tutorialspoint.com/csharp/index.htm * https://www.youtube.com/playlist?list=PLrW43fNmjaQXhWOKalftye87ObZA-xNIJ |  |
| Grading Policy  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | |  |  |  |  |  |  |  |  | |  |
| Homework: 25%  Quizzes: 25%  Midterm: 20%  Final: 30%  Your overall letter grade will be based on your total score:   |  |  |  |  | | --- | --- | --- | --- | | total score | approximate letter grade | | | | 90 – 100% | | A | | 80 – 90% | | B | | 70 – 80% | | C | | 60 – 70% | | D | | < 60% | | F |  No late work will be accepted under any circumstances unless a medical emergency occurred, of which a doctor’s notes is required. Students absent to a quiz will receive a 0. Students absent to the midterms who have a valid excuse will have the weight of the midterm added to their final examination. Proof must be given to the instructor no later than the test/quiz/exam starts if an emergency prevents a student from turning in an assignment or taking an exam on time.Tentative Schedule  |  |  | | --- | --- | | **WEEK** | **TOPIC** | | **1** | **Overview of C# programming for ECE, Introduction to basic concepts of C# and C# program development environment( Microsoft Visual Studio),**  **Your first C# program** | | **2** | **Windows Forms Application vs. Console Application**  **Variables, input/output, flowchart, pseudocode, arithmetic operators** | | **3** | **Structured programming: sequence, selection (I), relational and logical operators** | | **4** | **Selection (II), Repetition/Loop (I)** | | **5** | **Repetition(II)** | | **6.** | **Repetition(III), Problem-solving** | | **7.** | **Arrays** | | **8.** | **Function (I)** | | **9** | **Functions(II), Problem-solving**  **Review** | | **10** | **Midterm, Introduction to Object-oriented programming** | | **11** | **Object-oriented design: Abstraction, encapsulation and data hiding** | | **12** | **Object-oriented design: Composition** | | **13** | **Object-oriented design: Inheritance** | | **14** | **Object-oriented design: Polymorphism** | | **15** | **Object-oriented design: Abstract class/method, interface, Operator overloading**  **Review** | | **16** | **Final Exam** | |  |
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# Students’ Obligations

## Getting Help

If you are having difficulties with using Blackboard-specific tools or features, refer to [Blackboard eHelp](https://cpp.service-now.com/ehelp?id=kb_article&sys_id=321fc54e6fe8e600e020f35d5d3ee4bd) (https://cpp.service-now.com/ehelp?id=kb\_article&sys\_id=321fc54e6fe8e600e020f35d5d3ee4bd). More complicated Blackboard inquires can be directed to the [IT Service Desk](https://www.cpp.edu/~it/help/) (https://www.cpp.edu/~it/help/). Both links to the Blackboard eHelp page and IT Service Desk can be found under the “Technical Support” section located on the left navigation menu of this course.

It is expected that students will complete the assigned exercise and homework problems. If additional help with the material is needed outside the classroom, it is the student’s responsibility to attend the instructor’s office hours. Although computers will be used during lecture, students should not surf the web (unless it is directly related to the course) or use social media such as Facebook. The class is a No cell phone zone, which means, if you have to use your cell phone making/receiving calls or texting, please do it outside of the classroom.

# Course Policies

## Academic Integrity

All of the work completed in this course is expected to be your own. Plagiarism or cheating will not be tolerated in this course. For more information, visit [Academic Integrity Policies](http://www.cpp.edu/~studentconduct/academic-integrity-resources/academic-integrity.shtml) (http://www.cpp.edu/~studentconduct/academic-integrity-resources/academic-integrity.shtml).