

Software: This course will specifically use the Microsoft Visual Studio 2008 Professional software package. This will be available to students as part of the MSDN Academic Alliance.

Supplies and Materials: Removable media will be required. A USB memory device with a minimum of 4GB capacity is recommended.

Lab Assignments: Weekly assignments from the end of chapter problems or from additional instructor handouts will be given. The hand-in format will be via printed hardcopy. Class assignments should be submitted on or before the due date. An assignment will lose 20% of the score if it is submitted late. Assignments will be graded on professionalism, accuracy, style and completeness. The details for each assignment, including work to be done and the due date will be discussed in class. Students are encouraged to interact with the instructor or other students on these assignments via classroom discussion, but must personally perform the necessary actions to complete the assignments.

Grading and Evaluation Criteria:

- 45 % of the grade is based on lab assignments
- 45 % of the grade is based on midterm and final examinations
- 10 % of the grade is based on attendance and class participation

College Withdrawal Policy: Students may withdraw, through the Registrar's Office, for any reason. Last day to withdraw is May 9. The withdrawal process must be initiated by the student. Failure to do so will result in a semester grade based on the work completed before the student stopped attending the class.

| Week | Topics | Textbook assignments |
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| 1 | Computer science as a Career Path Introduction to Computers, Problem solving and Programming | Reading: Chapter 0 and Chapter 1 HW: Special Introductory Assignment” |
| 2 | Introduction to Visual studio 2008 First Look at C++ | Reading: Chapter 2, pages 53 – 80 HW: Page 111, # 5, #6 and 10 combined, and #11 |
| 3 | Overview of C++ | Reading: Chapter 2, pages 80 – 110 HW: Pages 112 - 113, #13, #15 and #18 |
| 4 | Intro to Top-Down Design with Functions and Classes | Reading: Chapter 3, pages 118 – 157 HW: Pages 188 - 189, #4 and #8 |
| 5 | More on Top-Down Design with Functions and Classes | Reading: Chapter 3, pages 157 – 187 HW: Pages 190 - 191, #9, #13, #14 and #15 |
| 6 | Intro to Selection Structures | Reading: Chapter 4, pages 197 – 229 HW: Pages 251 - 253, #6, #8 and #9 |
| 7 | More on Selection Structures | Reading: Chapter 4, pages 229 – 251 HW: Pages 253 – 256, #11, #14 (incorporated into Ch.2 HW #6 and 10 combined) and #18 |
| 8 | Midterm Exam | Reading: None Midterm study and review |
| 9 | Intro to Repetition and Loop Statements | Reading: Chapter 5, pages 259 – 286 HW: Pages 324 - 326, #2, #6 and #7 |
| 10 | More on Repetition and Loop Statements | Reading: Chapter 5, pages 286 – 323 HW: Pages 327 - 328, #13, #14 and #15 |
| 11 | Modular Programming | Reading: Chapter 6, pages 333 – 363 HW: Pages 378 - 382, #2, #3 and #4 combined |
| 12 | More on Modular Programming | Reading: Chapter 6, pages 363 – 375 HW: Pages 380 – 382, #5, #7 and #9 |
| 13 | Simple Data Types | Reading: Chapter 7, pages 387 – 432 HW: Pages 434 – 436, #7 and #10 |
| 14 | Streams and Files and Introduction to Arrays and Structures | Reading: Chapter 8, pages 444 – 477 HW: Page 479, #3 and #4 |
| 15 | Final Exam | Reading: None Final study and review |

Note: The foregoing course outline is subject to change as conditions warrant.