

## CMPE 106 Fundamentals of Computing (Spring 2009)

---

**Instructor:** Asst. Prof. Dr. Doğu Arifler  
**Course Web Site:** <http://cmpe.emu.edu.tr/courses/cmpe106>  
**Office Hours:** TBA. Please refer to the course Web site.  
**Textbooks:** L. Long and N. Long, *Computers: Information Technology in Perspective*, 12th ed., Pearson, 2005. (LL)  
J. R. Hanly and E. B. Koffman, *Problem Solving and Program Design in C*, 5th ed., Addison Wesley, 2007. (HK)

**Course Description:** This is a course on “computer literacy” and preliminaries of structured programming. The course starts with an introduction to fundamental principles of computing including data storage and manipulation. Operating systems and productivity software that are in wide use are introduced. Current uses of the Internet and the World Wide Web are discussed. Principles of problem solving and design of algorithms using pseudocodes and flowcharts are overviewed. The course concludes with basic sequence, selection, and repetition structure examples in the C and/or Fortran programming languages.

**Important Dates:** Midterms: 24 April–4 May 2009, Finals: 9–23 June 2009.

**Grading Policy:** Midterm 30%, Final 50%, Labs 15%, Attendance 5%

**Lab Policy:** There are **no** exemptions from labs. Consult the course Web site for lab assignments and other lab policies.

**Make-Up Policy:** Only one **comprehensive** make-up examination will be given to those who miss any of the exams. There are **no** make-ups for missed labs. The make-up exam will be given to only those who provide a valid excuse in writing within the next three working days following the missed exam. This rule is a University by-law, and I **will** enforce it. Students who miss an exam due to a serious medical condition are required to provide official documentation (doctor’s report approved by the Student Health Center). However, eligibility to take the make-up exam will still be **subject to my approval**.

**Academic Dishonesty:** Any conduct that attempts to gain unfair academic advantage is considered academic dishonesty. Copying labs and assignments, cheating during exams, substituting for another person are some examples of academic dishonesty. Cases of academic dishonesty **will not** be tolerated and will be punished according to EMU’s disciplinary policies.

**Tentative outline:** Below is a tentative outline for this course. I reserve the right to adjust the pace and topics of the class as the semester progresses.

---

|                |  |
|----------------|--|
| <b>Week 1</b>  | Computers and information technology(LL Ch. 1)                     |
| <b>Week 2</b>  | Operating systems and productivity software (LL Ch. 2)             |
| <b>Week 3</b>  | The Internet and the World Wide Web (LL Ch. 3)                     |
| <b>Week 4</b>  | Data storage and representation (LL Ch. 4)                         |
| <b>Week 5</b>  | Components of a PC (LL Ch. 4)                                      |
| <b>Week 6</b>  | Storage and I/O devices (LL Ch. 5)                                 |
| <b>Week 7</b>  | Networking (LL Ch. 6)  |
| <b>Week 8</b>  | Review for Midterm   |
| <b>Week 9</b>  | Midterm Week   |
| <b>Week 10</b> | Introduction to problem solving and algorithm design (HK Ch. 1, 2) |
| <b>Week 11</b> | Structured programming: Sequence structure (HK Ch. 2, Ch. 3.2)     |
| <b>Week 12</b> | Structured programming: Selection structure (HK Ch. 4)             |
| <b>Week 13</b> | Structured programming: Repetition structure (HK Ch. 5)            |
| <b>Week 14</b> | Review and concluding remarks                                      |

---

Reading the textbooks is a **must** for success in this course. Please schedule your reading according to the tentative outline given above.