



# CENG 111

## Algorithms and Programming I

Spring 2014-15

Dr. Sadık Eşmeliolu

# General Information

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Hours

## **Class S1-2**

Monday 13:20 – 16:10 H – A05

## **Lab S1 H – 313**

Thursday 11:20 – 13:10

## **Lab S2 H – 312**

Thursday 13:20 – 15:10

## **Office L - 215**

Tuesday 13:20 – 15:10

Thursday 09:20 – 11:10

Friday 09:20 – 12:10

# Text Book and References

## \* Text Book:

- \* “C How to Program”, Paul Deitel and Harvey Deitel, 7<sup>th</sup> Edition.

## \* Reference Material:

- \* “Problem Solving and Program Design in C”, Jeri R. Hanly and Elliot B. Koffman, 7<sup>th</sup> Edition.
- \* “C Dersi: Programlamaya Giriş”, Çağiltay, Selbes, Tokdemir ve Turhan, 5. Baskı

## \* Course Assistant:

- \* Ulaş Güleç

# Grading Components

- \* **Midterm** **30%**

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  - \* Will include the topics covered till the exam.
  - \* Closed books, notes, etc.
- \* **Lab Quizzes** **25%**

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  - \* Do not miss any lab work
  - \* There will be a quiz every lab.
- \* **Lab Exams** **10%**

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  - \* There will be two exams
  - \* Exams will be held in the lab using a computer
- \* **Final** **35%**

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  - \* Will include all the topics covered during the semester
  - \* Closed books, notes, etc.
  
- \* **Rules of the Game**
  - \* Attend every class – (Classroom attendance 70%, Lab attendance 80% required)
  - \* Attendance will be taken during the first 5 minutes of each lecture hour
  - \* Be on time
  - \* Pay attention during class and participate
  - \* Do not talk amongst yourselves
  - \* Ask questions anytime, but raise your hand
  - \* Remember that the program language is English
  - \* All work should be your own
  - \* Grades are earned, not given, do not ask for special treatment

# Course Outline

- ✿ Introduction to Computers: Main parts of a computer, CPU, RAM, I/O Devices, ALU, Binary Numbers
- ✿ Structure of a C program
- ✿ Variable declarations, Assignment statements
- ✿ Mathematical expressions/operators
- ✿ Logical expressions/operators, Priorities of Operators
- ✿ Selection Statements
- ✿ Looping Statements
- ✿ Functions

# Calendar

Wk	Date	Subject	Lab
1	09-Feb	Introduction	No Lab
2	16-Feb	Introduction to Computers and Binary Numbers	Internals of a Computer
3	23-Feb	Structure of a C program	How to use Visual Studio
4	02-Mar	Basic I/O, Declarations and Assignment	How to write, compile, and execute a program
5	09-Mar	Mathematical expressions, Library Functions	Declarations and Assignments
6	16-Mar	Logical expressions	Mathematical Expressions
7	23-Mar	Selection Statements	Logical Expressions
8	30-Mar	Selection Statements	Selection Statements
Midterm (To be determined) (Tentative)			
9	06-Apr	Selection Statements	Selection Statements
10	13-Apr	Looping Statements	Selection Statements
11	20-Apr	Looping Statements	No Lab
12	27-Apr	Looping Statements	Looping Statements
13	04-May	Functions	Looping Statements
14	11-May	Functions	Functions