CMPE 160: Introduction to Object Oriented Programming

Who is who?

- Instructor: Tuna Tuğcu
  - ETA 43
  - Phone: (212) 359 7611
  - E-mail: tugcu@boun.edu.tr
  - Please use the keyword “CMPE160:” in the subject line for all messages
- Assistants:
  - Salim Eryiğit
    - ETA 41
    - Phone: (212) 359 7686
    - E-mail: eryigit@boun.edu.tr
  - Akın Günay
    - ETA 31
    - Phone: (212) 359 7095
    - E-mail: akin.gunay@boun.edu.tr

General info about the course

- Objective: Familiarize the students with object oriented design and programming.
- In addition to the OO paradigm, basic data structures (stacks, queues, linked lists, trees) are taught.
- Java is used as the tool for programming.

Overall aim

- By the end of this semester (which also happens to be your first year in CMPE), you should be able to:
  - understand a problem given in a natural language,
  - design a solution and the corresponding algorithm,
  - implement it in Java,
  - properly document your work,
  - familiarize yourselves with basic notions of software engineering,
  - form the basis to learn any programming language on your own.
General info about the course

• Textbook:
  - Additional lecture notes will be made available when necessary

Grading

• 2 Midterms 30%
• 3 Projects 25%
• Class & lab participation 10%
• Quizzes 10%
• Final 25%

VERY IMPORTANT NOTICE

• An e-mail list will be constructed, and all announcements will be made through this e-mail list. The list will be constructed using your e-mail addresses in the OBKAS (Registration) system. Make sure that your address in the Registration system is:
  - your BOUN address,
  - you check it every day,
  - its quota is not exceeded and it is functional.
  (We will re-construct the list after the add-drop period is over, so change it now if your Registration e-mail address is not from BOUN.)
• Note that Yahoo, GMail, Hotmail, and similar addresses frequently have problems or the messages may go to the spam folder.
• It is completely your responsibility to make sure that your account receives the messages properly. We will send the announcements via the mailing list and assume you read it the same day. We do not have any additional means to contact you if your e-mail address is not working.
• NO EXCUSES WILL BE ACCEPTED FOR AN ANNOUNCEMENT ALREADY MADE THROUGH THE MAILING LIST.

Cheating

• NO MERCY FOR CHEATERS
• If you cheat in the exam, you directly get an F.
• If you cheat in a project, you get
  - (-300) points for the first one
  - (-700) pts for the second
  - I don't think you will dare the third
• Take good care of your code. Don't share it. Don't place it somewhere others can reach.
Tentative course outline

• Week 1: Introduction, software documentation, Javadoc
• Weeks 2&3: Classes and objects, encapsulation
• Weeks 4&5: Inheritance and polymorphism
• Week 6: Recursion
• Weeks 7&8: Lists, array lists
• Week 9: Stacks and queues
• Week 10: Trees
• Weeks 11&12: Binary trees
• Week 13: Heap

Lecture and PS schedule

• Lectures
  - Monday: 11:00-12:50
  - Tuesday: 11:00-11:50
• PS hours:
  - Thursday: 17:00-18:50