



In the Name of God
Course Info
Operating Systems (Spring 2017)
School of CE – Iran University of Science and Technology

The purpose of the course is to teach the concepts and principles of operating systems. Topics include principal concepts, systems programming, storage systems, multiple-program systems (processes, inter-process communication, and synchronization), memory allocation (segmentation, paging), resource allocation and scheduling, file systems, deadlock, virtualization technology and security.

- [Nachos](#) educational operating system must be used to carry out all 3-4 projects.
- Exercises (individual assignments) and projects (group assignments) will all be submitted and graded via TAs.
- Project teams can comprise of 2 or 3 students, though we recommend groups of 3.
- The last edition of “[Modern Operating Systems](#)” book by Andrew S. Tanenbaum is used as the reference book.

Prerequisites

It is assumed that all students are pretty familiar with Linux, C, Java, and data structures, have done some assembly language programming, and also know preliminaries of series and products, logarithms, advanced algebra, some calculus, and basic probability (means, standard deviations, etc.). TAs will spend some time reminding some of the prerequisites.

Grading

Grades will be determined roughly as follows:

- 40% Final Exam
- 40% Projects and Exercises
- 15% Practical Exam (out of projects and exercises)
- 5% Quizzes

Important notes

- Students **MUST** attend all tutorials delivered by TAs that provide essential specifics on hands-on aspects of the projects and exercises, including tools, techniques and concepts.

- Students with more than 4 session absence will be deprived from all exams and their names will be reported to the School.
- An automated system is used for detecting cheating by pairwise comparison of all project submissions and reporting any suspicious similarities. Odd similarities will result in zero scoring for copy-ers and the copy-ees.