

## CmpE 476 –Distributed Systems

<b>Instructor</b>	H. Birkan YILMAZ ( <a href="mailto:birkan.yilmaz@boun.edu.tr">birkan.yilmaz@boun.edu.tr</a> )
<b>Teaching Assistants</b>	TBA (Maybe None)
<b>Course Website</b>	moodle.boun.edu.tr
<b>Textbook</b>	Distributed Systems, by <i>M. van Steen and A.S. Tanenbaum</i> , 2 <sup>nd</sup> or 3 <sup>rd</sup> Edition
<b>Goals</b>	This course is designed to teach a) overview of research topics in distributed systems, b) design concepts for distributed systems.

### Tentative Outline:

**Week 1** : Introduction  
**Week 2** : Architectures  
**Week 3** : Processes  
**Week 4** : Communication  
**Week 5** : Naming & Distributed Hashtables  
**Week 6** : Synchronization  
**Week 7** : Consistency and Replication  
**Week 8** : Fault Tolerance  
**Week 9** : Security & Secure Key Distribution  
**Week 10**: Distributed Object-based Systems  
**Week 11**: Distributed File Systems  
**Week 12**: Distributed Web-based Systems  
**Week 13**: Distributed Coordination-based Systems (**This semester will take 12 weeks; we may omit this**)

### Grading: (A change of +- 5% may occur in the basis of evaluation!)

15% Quizzes (Quizzes will take place on the 3<sup>rd</sup> and 6<sup>th</sup> weeks)  
35% Projects (2 or 3) & Reports  
20% Midterm Exam (Tentative date is the 9<sup>th</sup> week)  
30% Final Exam

**Important:** **Projects and homeworks** assigned in this course are mandatory for passing the course. If you fail to submit on time, you will also fail the course!

**Important:** We apply “no mercy” rule for cheaters. Please stick with the honor code

Adapted by H. Birkan YILMAZ based on a version by Tuna Tuğcu.