

BLG 546E – Object Oriented Concurrent Programming

2017-2018 SPRING

CRN: 23438	
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Textbook: Maurice Herlihy, Nir Shavit, The Art of Multiprocessor Programming, Elsevier.

Week	Topic	Homeworks
1 (07 Feb)	Introduction – Concurrency in Java	
2 (14 Feb)	Concurrency in Java	
3 (21 Feb)	Concurrent Objects – Consensus Numbers	
4 (28 Feb)	Spin Locks and Barriers	HW1
5 (07 Mar)	Futures – Scheduling and Fork/Join Framework	
6 (14 Mar)	Parallel Lists	HW2
7 (21 Mar)	MIDTERM	
8 (28 Mar)	SPRING BREAK	
9 (04 Apr)	Concurrent Queueues and Stacks	
10 (11 Apr)	Concurrent Collections	HW3
11 (18 Apr)	Shared Counters	
12 (25 Apr)	Parallel Hashing	
13 (02 May)	Stream Programming	
14 (09 May)	Asynchronous Frameworks	
15 (16 May)	Project Presentations	

Grading

- Homeworks: 15%
- Project: %15
- Midterm: 30%
- Final exam: 40%.

You can follow the course announcements, exam results and your attendance status on the Ninova system (<http://ninoa.itu.edu.tr/>).