6.824 Schedule: Spring 2018

TR1-2:30, room 54-100

Here is the tentative schedule of lectures and due dates. The lecture notes and paper questions for future dates are copies from previous years, and may change.

Monday	Tuesday	Wednesday	Thursday	Friday
feb 5 *Reg day*	feb 6 **LEC 1:** Introduction **Preparation:** Read MapReduce (2004) **Assigned:** Lab 1: MapReduce *First day of classes*	feb 7	feb 8 **LEC 2:** RPC and Threads, Crawler, K/V **Preparation:** Do Online Go tutorial (FAQ) (Question)	feb 9
feb 12	feb 13 **LEC 3:** GFS **Preparation:** Read GFS (2003) (FAQ) (Question) **Assigned:** Lab 2: Raft	feb 14	feb 15 **LEC 4:** Primary-Backup Replication **Preparation:** Read Fault-Tolerant Virtual Machines (2010) (FAQ) (Question)	feb 16 **DUE:** Lab 1
feb 19 President's day	feb 20 *Monday schedule*	feb 21	feb 22 **LEC 5:** Fault Tolerance: Raft **Preparation:** Read Raft (extended) (2014), to end of Section 5 (FAQ) (Question)	feb 23 **DUE:** Lab 2A
feb 26	feb 27 **LEC 6:** Fault Tolerance: Raft **Preparation:** Read Raft (extended) (2014), Section 6 to end (FAQ) (Question)	feb 28	mar 1 **LEC 7:** Spinnaker **Preparation:** Read Spinnaker (2011) (including Appendices) (FAQ) (Question)	mar 2 **DUE:** Lab 2B
mar 5	mar 6 **LEC 8:** Zookeeper **Preparation:** Read ZooKeeper (2010) (FAQ) (Question) **Assigned:** Lab 3: KV Raft	mar 7	mar 8 **LEC 9:** Guest lecturer on Go (Russ Cox Google/Go) **Preparation:** (FAQ) (Question)	mar 9 **DUE:** Lab 2C *ADD DATE*
mar 12	mar 13 *Snow Day*	mar 14	mar 15 **LEC 10:** Distributed Transactions **Preparation:** Read 6.033 Chapter 9, just 9.1.5, 9.1.6, 9.5.2, 9.5.3, 9.6.3 (FAQ) (Question)	mar 16 **DUE:** Lab 3A
mar 19	mar 20 **LEC 11:** Optimistic Concurrency Control **Preparation:** Read FaRM (2015) (FAQ) (Question) **Assigned:** Final Project	mar 21	mar 22 **Mid-term Exam:** during lecture time in 54-100 **Materials:** Open book, notes, laptop **Scope:** Lectures 1 through 10, Labs 1 and 2 Old Exams	mar 23 **DUE:** Project proposals
mar 26 Spring break	mar 27 Spring break	mar 28 Spring break	mar 29 Spring break	mar 30 Spring break

Monday	Tuesday	Wednesday	Thursday	Friday
apr 2	apr 3 **LEC 12:** Big Data: Spark **Preparation:** Read Spark (2012) (FAQ) (Question) **Assigned:** Lab 4: Sharded KV	apr 4	apr 5 **LEC 13:** Big Data: Naiad **Preparation:** Read Naiad (2013) (FAQ) (Question)	apr 6
apr 9	apr 10 **LEC 14:** Distributed Machine Learning: Parameter Server **Preparation:** Read Parameter Server (2014) (FAQ) (Question)	apr 11	apr 12 **LEC 15:** Cache Consistency: Frangipani **Preparation:** Read Frangipani (FAQ) (Question)	apr 13 **DUE:** Lab 3B
apr 16 Patriots day	apr 17 Patriots day	apr 18	apr 19 *Hacking day, no lecture*	apr 20 **DUE:** Lab 4A
apr 23	apr 24 **LEC 16:** Cache Consistency: Memcached at Facebook **Preparation:** Read Memcached at Facebook (2013) (FAQ) (Question)	apr 25	apr 26 **LEC 17:** Disconnected Operation, Eventual Consistency **Preparation:** Read Bayou (1995) (FAQ) (Question) ***DROP DATE***	apr 27
apr 30	may 1 **LEC 18:** Guest lecturer: Frank Dabek of Google **Preparation:** Read The Tail at Scale	may 2	may 3 *Hacking day, no lecture*	may 4
may 7	may 8 **LEC 19:** Peer-to-peer, DHTs **Preparation:** Read Chord (2001) and Trackerless Bittorrent (2008) (FAQ) (Question)	may 9	may 10 **LEC 20:** Dynamo **Preparation:** Read Dynamo (2007) (FAQ) (Question)	may 11 **DUE:** Lab 4B **DUE:** Project reports and code
may 14	may 15 **LEC 21:** Peer-to-peer: Bitcoin **Preparation:** Read Bitcoin, summary (FAQ) (Question)	may 16	may 17 **LEC 22:** Project demos **Preparation:** Read AnalogicFS experience paper (FAQ) (Question) *Last day of classes*	may 18
may 21	may 22	may 23	may 24 **Final exam**, Ice Rink, 1:30 to 3:30 **Materials:** Open book, notes, and laptop **Scope:** Lectures 11 through 21, Lab 3 Old Exams	may 25

For questions or comments, email 6824-staff@lists.csail.mit.edu.

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