6.824 Schedule: Spring 2020

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 3 *First day of classes*	feb 4 **LEC 1:** Introduction, video **Preparation:** Read MapReduce (2004) **Assigned:** Lab 1: MapReduce	feb 5	feb 6 **LEC 2:** RPC and Threads, crawler.go, kv.go, video **Preparation:** Do Online Go tutorial (FAQ) (Question)	feb 7
feb 10	feb 11 **LEC 3:** GFS, video **Preparation:** Read GFS (2003) (FAQ) (Question) **Assigned:** Lab 2: Raft	feb 12	feb 13 **LEC 4:** Primary-Backup Replication, video **Preparation:** Read Fault-Tolerant Virtual Machines (2010) (FAQ) (Question)	feb 14 **DUE:** Lab 1
feb 17 President's day	feb 18 *Monday schedule*	feb 19	feb 20 **LEC 5:** Go, Threads, and Raft, video, code samples **Preparation:** Read The Go Memory Model (Question)	feb 21 **DUE:** Lab 2A
feb 24	feb 25 **LEC 6:** Fault Tolerance: Raft (1), video **Preparation:** Read Raft (extended) (2014), to end of Section 5 (FAQ) (Question)	feb 26	feb 27 **LEC 7:** Fault Tolerance: Raft (2), video **Preparation:** Read Raft (extended) (2014), Section 7 to end (but not Section 6) (FAQ) (Question)	feb 28 **DUE:** Lab 2B
mar 2	mar 3 **LEC 8:** Zookeeper, video **Preparation:** Read ZooKeeper (2010) (FAQ) (Question)	mar 4	mar 5 **LEC 9:** More Replication, CRAQ, video **Preparation:** Read CRAQ (2009) (FAQ) (Question) **Assigned:** Lab 3: KV Raft	mar 6 **DUE:** Lab 2C *ADD DATE*
mar 9	mar 10 **LEC 10:** Cloud Replicated DB, Aurora, video **Preparation:** Read Aurora (2017) (FAQ) (Question)	mar 11	mar 12 **LEC 11:** Cache Consistency: Frangipani, video **Preparation:** Read Frangipani (FAQ) (Question)	mar 13
mar 16	mar 17 **Assigned:** Final Project No Class	mar 18	mar 19 No Class	mar 20
mar 23 Spring break	mar 24 Spring break	mar 25 Spring break	mar 26 Spring break	mar 27 Spring break
mar 30	mar 31 **LEC 12:** Distributed Transactions, video **Preparation:** Read 6.033 Chapter 9, just 9.1.5, 9.1.6, 9.5.2, 9.5.3, 9.6.3 (FAQ) (Question) **DUE:** Project proposals **Assigned:** Lab 4: Sharded KV	apr 1	apr 2 **Remote Mid-term Exam** **Materials:** Open book, notes, laptop **Scope:** Lectures 1 through 11, Labs 1 and 2 Old Exams	apr 3 **DUE:** Lab 3A
apr 6	apr 7 **LEC 13:** Spanner, video **Preparation:** Read Spanner (2012) (FAQ) (Question)	apr 8	apr 9 **LEC 14:** Optimistic Concurrency Control, video **Preparation:** Read FaRM (2015) (FAQ) (Question)	apr 10
apr 13	apr 14 **LEC 15:** Big Data: Spark, video **Preparation:** Read Spark (2012) (FAQ) (Question)	apr 15	apr 16 **LEC 16:** Cache Consistency: Memcached at Facebook, video **Preparation:** Read Memcached at Facebook (2013) (FAQ) (Question)	apr 17 **DUE:** Lab 3B
apr 20 Patriots day	apr 21 ***DROP DATE*** No Class	apr 22	apr 23 No Class	apr 24 **DUE:** Lab 4A
apr 27	apr 28 **LEC 17:** Causal Consistency, COPS, video **Preparation:** Read COPS (2011) (Question)	apr 29	apr 30 **LEC 18:** Fork Consistency, Certificate Transparency, video **Preparation:** Read Certificate Transparency, Also This, And This, but skip the Tiles sections and the appendices. (FAQ) (Question)	may 1
may 4	may 5 **LEC 19:** Peer-to-peer: Bitcoin, video **Preparation:** Read Bitcoin (2008), and summary (FAQ) (Question)	may 6	may 7 **LEC 20:** Blockstack, video **Preparation:** Read BlockStack (2017) (FAQ) (Question)	may 8 **DUE:** Lab 4B **DUE:** Project reports and code

Monday	Tuesday	Wednesday	Thursday	Friday
may 11	may 12 **LEC 21:** Project demos **Preparation:** Read AnalogicFS experience paper (FAQ) (Question) *Last day of classes*	may 13	may 14	may 15 Finals
may 18 **Final exam**, gradescope.com, 9:00am to 11:00am EDT. **Materials:** Open book, notes, and laptop. **Scope:** Lectures 12 through 20, Lab 3. Old Exams	may 19 Finals	may 20 Finals	may 21	may 22

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

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