

CprE 281: Class Schedule (Fall 2017)

| Week | Day/Date | Topic | Readings | Homework | Lab |
|----------|-----------------|-------------------------------|--------------------|----------|--------------|
| 1 | Monday 8/21 | Introduction | 1.1, 1.2, 1.3, 1.4 | | No Lab |
| | Wednesday 8/23 | Binary Numbers | 1.5, 1.6 | | |
| | Friday 8/25 | Truth Tables & Logic Gates | 2.1, 2.2, 2.3, 2.4 | | |
| 2 | Monday 8/28 | Boolean Algebra | 2.5 | HW 1 due | Lab 1 |
| | Wednesday 8/30 | AND, OR, NOT | 2.6 | | |
| | Friday 9/1 | NAND, NOR | 2.7 | | |
| 3 | Monday 9/4 | NO CLASS: University Holiday | | | Lab 2 |
| | Wednesday 9/6 | Design Examples | 2.8 | HW 2 due | |
| | Friday 9/8 | Intro to Verilog | 2.9, 2.10 | | |
| 4 | Monday 9/11 | Karnaugh Maps | 2.11 | HW 3 due | Lab 3 |
| | Wednesday 9/13 | Minimization | 2.12, 2.13 | | |
| | Friday 9/15 | Functions and Circuits | 2.14, 2.15, 2.16 | | |
| 5 | Monday 9/18 | Examples | 2.17 | HW 4 due | Lab 4 |
| | Wednesday 9/20 | Midterm Review Session | | | |
| | Friday 9/22 | Midterm #1 | | | |
| 6 | Monday 9/25 | Addition of Unsigned Numbers | 3.1, 3.2 | | Lab 5 |
| | Wednesday 9/27 | Signed Numbers | 3.3 | | |
| | Friday 9/29 | Fast Adders | 3.4, 3.5 | | |
| 7 | Monday 10/2 | Multiplication | 3.6 | HW 5 due | Mini Project |
| | Wednesday 10/4 | Floating Point Numbers | 3.7 | | |
| | Friday 10/6 | Multiplexers | 4.1 | | |
| 8 | Monday 10/9 | Decoders & Encoders | 4.2, 4.3 | HW 6 due | Lab 6 |
| | Wednesday 10/11 | Code Converters | 4.4, 4.5 | | |
| | Friday 10/13 | Latches | 5.1, 5.2, 5.3 | | |
| | Friday 10/13 | * Midterm Grade Reports Due * | | | |
| 9 | Monday 10/16 | D Flip-Flops | 5.4 | HW 7 due | Lab 7 |
| | Wednesday 10/18 | T Flip-Flops & JK Flip-Flops | 5.5, 5.6, 5.7 | | |
| | Friday 10/20 | Registers | 5.8 | | |

| Week | Day/Date | Topic | Readings | Homework | Lab |
|-----------|-------------------|--------------------------------|------------------|-----------|-----------------------------|
| 10 | Monday 10/23 | Counters | 5.9, 5.10 | HW 8 due | Lab 8 |
| | Wednesday 10/25 | Midterm Review Session | | | |
| | Friday 10/27 | Midterm # 2 | | | |
| | Friday 10/27 | ***DROP DEADLINE*** | | | |
| 11 | Monday 10/30 | Examples with Counters | 5.11, 5.14, 5.17 | | Lab 9 |
| | Wednesday 11/1 | Basic Design Steps | 6.1 | | |
| | Friday 11/3 | State-Assignment Problem | 6.2 | | |
| 12 | Monday 11/6 | Moore & Mealy Machines | 6.3, 6.4 | HW 9 due | Lab 10 |
| | Wednesday 11/8 | Serial Adder | 6.5 | | |
| | Friday 11/10 | State Minimization | 6.6 | | |
| | Friday 11/10 | PROPOSE FINAL PROJECT | | | |
| 13 | Monday 11/13 | Designing a Counter | 6.7 | HW 10 due | Lab 11 |
| | Wednesday 11/15 | Arbiter Circuit | 6.8 | | |
| | Friday 11/17 | Analysis of Syn. Seq. Circuits | 6.9 | | |
| 14 | Monday 11/20 | NO CLASS: Thanksgiving Break | | | No Lab |
| | Wednesday 11/22 | NO CLASS: Thanksgiving Break | | | |
| | Friday 11/24 | NO CLASS: Thanksgiving Break | | | |
| 15 | Monday 11/27 | ASM charts | 6.10, 6.11 | HW 11 Due | Work on Final Project |
| | Wednesday 11/29 | Examples | 6.12, 6.13 | | |
| | Friday 12/1 | TBD | | | |
| 16 | Monday 12/4 | Simple Processor | 7.1, 7.2 | HW 12 due | Final Project Demo |
| | Wednesday 12/6 | Simple Processor | 7.1, 7.2 | | |
| | Friday 12/8 | Final Review Session | | | |
| 17 | Finals Week 12/13 | FINAL EXAM @ 7:30-9:30am | everything | | No Lab |