# EE3710 Tentative Course Schedule – Spring 2017 (TR 10:30)

| Date | Reading | HW | Lecture | Lab |
|---|---|---|---|---|
| 1/10/2016 | 1.1-1.2 | 1 | Syllabus, Project, Lab books, History | L0 – Installing the IDE |
| 1/12/2016 | 2.1-2.7 | 2 | Criteria, Language, 8051 arch., Memory Spaces | |
| 1/17/2016 | 3.1-3.3 | 3 | PSW, Stack, Branching, Subroutines, IDE, Lab 1 | L1 – Debug with the IDE |
| 1/19/2016 | 4.1-4.2 | 4 | Time delays, I/O Port, Masks, RMW | |
| 1/24/2016 | 5.1-5.4 | | Bit operations, Bit addresses, Lab 2 | L2 – Basic I/O |
| 1/26/2016 | | 5 | Addressing Modes, 8052, Arithmetic Instructions | |
| 1/31/2016 | 6.1-6.5 | 6 | Logic Instructions, Lab 3, Software structure | L3 – Tug-o-war |
| 2/2/2016 | 7.1-5 | 7 | Programming the 8051 in C, Reset to main() | |
| 2/7/2016 | 8.1, 8.3, 9.1 | 8 | Project 1 (Sumo), 8051 pins, Hex file | Work on Project 1 |
| 2/9/2016 | 9.1-3, | 9 | Timer/Counter Programming | |
| 2/14/2016 | 10.1-4 | 10 | Serial Communication, Lab 4 | Work on Project 1 |
| 2/16/2016 | 11.1-5 | 11 | Interrupts | Project 1 Due |
| 2/21/2016 | 14.1-4 | | Semiconductor Memory, Busses, Decoding | L4 – Magic 8 Ball |
| 2/23/2016 | | | Exam Q & A, Distribute Exam I (Chapters 1-10) Lab 5 | |
| 2/28/2016 | D-16 | 12 | External Memory Interface, C8051F020, Exam Due | L5 – Binary Stop Watch |
| 3/2/2016 | 12.1 | | Simple LCD Interface, The S64128xx, Lab 6 | |
| 3/7/2016 | | | Spring Break | |
| 3/9/2016 | | | | |
| 3/14/2016 | 12.2 | 13 | Graphic LCD Interface, Keypad Interface | L6 – LCD Interface |
| 3/16/2016 | 13.1,3, D-5 | 14 | Serial and Parallel ADC, C8051F020 ADC | |
| 3/21/2016 | | | A/D scaling, Writing chars, Lab 7 | L7 – Thermostat |
| 3/23/2016 | 13.2, D-8 | 15 | DACs, C8051F020, Sinusoids, Amplifier | |
| 3/28/2016 | | | Project Gorilla, Design Documentation, Lab 8 | L8 – Doorbell |
| 3/30/2016 | D-19 | | $I^2C$ and SPI Busses | |
| 4/4/2016 | D-23 | | PWM, Capture/Compare Registers | Work on Gorilla |
| 4/6/2016 | 17.1-17.3 | | Relays, Motors and solid state switches | |
| 4/11/2016 | | | Review (Comprehensive), Work on Gorilla. | Work on Gorilla |
| 4/13/2016 | | | Exam 2 | |
| 4/18/2016 | | | Work on Gorilla | Work on Gorilla |
| 4/20/2016 | | | | |

# EE3710 Tentative Course Schedule – Spring 2017 (MW 5:00)

| Date | Reading | HW | Lecture | Lab |
|---|---|---|---|---|
| 1/9/2016 | 1.1-1.2<br>2.1-2.5 | 1 | Syllabus, Project, Lab books, History, Criteria<br>Language, 8051 architecture | |
| 1/11/2016 | 2.6-7<br>3.1-2 | 2 | Memory Spaces, PSW, Stack, Branching,<br>Subroutines, IDE, Lab 1 | L0 – Installing the IDE |
| 1/16/2016 | | | Civil Rights Day | |
| 1/18/2016 | 3.3<br>4.1-4.2 | 3<br>4 | Time delays, I/O Port, Masks, RMW (Read-modify-write) | L1 – Debugging with IDE |
| 1/23/2016 | 5.1-5.4 | 5 | Bit operations, Bit addresses, Addressing Modes,<br>Lab 2 | |
| 1/25/2016 | | | | L2 – Basic I/O |
| 1/30/2016 | 6.1-6.5 | 6 | 8052, Arithmetic Instructions, Logic Instructions,<br>Lab 3, Software structure | |
| 2/1/2016 | | | | L3 – Tug-o-war |
| 2/6/2016 | 7.1-5,<br>8.1, 8.3 | 7<br>8 | Project 1 (Sumo), Programming the 8051 in C<br>Reset to main(), 8051 pins, Hex file | |
| 2/8/2016 | | | | Work on Project 1 |
| 2/13/2016 | 9.1-3,<br>10.1-4 | 9<br>10 | Timer/Counter Programming, Serial<br>Communication, Lab 4 | |
| 2/15/2016 | | | | L4 – Magic 8 Ball |
| 2/20/2016 | | | President's Day | |
| 2/22/2016 | 11.1-5 | 11 | Interrupts, Lab 5, Exam Q & A, Distribute Exam 1<br>(Ch 1-10), Project 1 Due. | |
| 2/27/2016 | | | (Exam I Due) | L5 – Binary Stop Watch |
| 3/1/2016 | 14.1-4<br>D-16 | 12 | Semiconductor Memory, Busses, Decoding<br>External Interface, C8051F020 | |
| 3/6/2016 | | | Spring Break | |
| 3/8/2016 | | | | |
| 3/13/2016 | 12.1-2 | 13 | Simple LCD Interface, The S64128xx<br>Graphic LCD Interface, Lab 6, Keypad Interface | |
| 3/15/2016 | | | | L6 – LCD Interface |
| 3/20/2016 | 13.1,3, D-5 | 14 | Serial and Parallel ADC, C8051F020 ADC<br>A/D Scaling, Writing chars, Lab 7 | |
| 3/22/2016 | | | | L7 – Thermostat |
| 3/27/2016 | 13.2, D-8 | 15 | DACs, C8051F020, Sinusoids, Amplifier, Lab 8<br>Project Gorilla, Design Documentation | |
| 3/29/2016 | | | | L8 – Doorbell |
| 4/3/2016 | D-19<br>D-23 | | $I^2C$ and SPI Busses<br>PWM, Capture/Compare Registers | |
| 4/5/2016 | | | | Work on Gorilla |
| 4/10/2016 | 17.1-17.3 | | Relays, Motors and solid state switches<br>Review (Comprehensive) | |
| 4/12/2016 | | | | Work on Gorilla |
| 4/17/2016 | | | Exam 2 | |
| 4/19/2016 | | | | Work on Gorilla |
| 4/24/2016 | | | | |