

CMPE 121 – Fall 2015
Course Syllabus and Schedule

Lecture Schedule

| Lecture | Date | Topic |
|----------------|------------------------------|---|
| 0 | Fri 9/25/15 | General information |
| 1 | Mon 9/28/15 | Evolution of microprocessors and microcontrollers |
| 2 | Wed 9/30/15 | Interrupts, timers, counters, PWM |
| 3 | Fri 10/2/15 | Interrupts, timers, counters, PWM |
| 4 | Mon 10/5/15 | Direct Memory Access (DMA) |
| 5 | Wed 10/7/15 | Direct Memory Access (DMA) |
| 6 | Fri 10/9/15 | Direct Memory Access (DMA) |
| 5 | Mon 10/12/15 | Parallel and serial IO, UART |
| 6 | Wed 10/14/15 | Parallel and serial IO, UART |
| 7 | Fri 10/16/15 | Parallel and serial IO, UART |
| 8 | Mon 10/19/15 | Serial IO standards: SPI, I2C, USB |
| 9 | Wed 10/21/15 | Serial IO standards: SPI, I2C, USB |
| 10 | Fri 10/23/15 | Serial IO standards: SPI, I2C, USB |
| 11 | Mon 10/26/15 | Serial IO Case Studies |
| 12 | Wed 10/28/15 | Display Technologies |
| 13 | Fri 10/30/15 | Analog to Digital Conversion |
| 14 | Mon 11/2/15 | Digital to Analog Conversion |
| 15 | Wed 11/4/15 | Digital to Analog Conversion |
| 16 | Fri 11/6/15 | Review |
| | Mon 11/9/15 | Midterm |
| 17 | Wed 11/11/15 | Veterans Day Holiday |
| | Fri 11/13/15 | Lab Project discussion |
| 18 | Mon 11/16/15 | Wireless technologies: WiFi, Bluetooth, Zigbee |
| 19 | Wed 11/18/15 | Wireless technologies: WiFi, Bluetooth, Zigbee |
| 20 | Fri 11/20/15 | Wireless technologies: WiFi, Bluetooth, Zigbee |
| 21 | Mon 11/23/15 | Memory technologies |
| 22 | Wed 11/25/15 | Lab Project discussion |
| | Fri 11/27/15 | Thanksgiving Holiday |
| 23 | Mon 11/30/15 | Memory technologies |
| 24 | Wed 12/2/15 | Review |
| | Fri 12/4/15 | Project demos |
| | Wed 12/9/15 8:00–11:00 AM | Final Exam |

Lab Schedule

| Lab | Checkoff Due | Report Due |
|---------|----------------------------------|----------------------|
| 1 | 10/13/15 – 10/16/15 | Fri 10/16/15 |
| 2 | 10/20/15 – 10/23/15 | Fri 10/23/15 |
| 3 | 10/27/15 – 10/30/15 | Fri 10/30/15 |
| 4 | 11/3/15 – 11/6/15 | Fri 11/6/15 |
| 5 | 11/10/15 – 11/13/15 | Fri 11/13/15 |
| Project | Fri 12/4/15 2:00 PM – 5:00 PM | Mon 12/7/15 11:55 PM |

Homework Schedule

| Homework | Assigned | Due |
|----------|--------------|--------------|
| 1 | Fri 9/25/15 | Fri 10/2/15 |
| 2 | Fri 10/2/15 | Fri 10/9/15 |
| 3 | Fri 10/9/15 | Fri 10/16/15 |
| 4 | Fri 10/16/15 | Fri 10/23/15 |
| 5 | Fri 10/23/15 | Fri 10/30/15 |
| 6 | Fri 10/30/15 | Fri 11/6/15 |