

BME 687 – CLASS SCHEDULE – Spring 2010

Date	Week	
1/20	1	Introduction to Course Studio #0: Electronic Components, Lab Instruments and Standards: A Practical Review Basic Sensors and Working Principles (Chapter 2)
1/27	2	Lecture: Basic Sensors and Working Principles (Cont.)
2/3	3	Studio #1 Wheatstone Bridge Blood Pressure Amplifier
2/10	4	DC and AC Characteristics of Amplifiers: CMRR, Slew Rate, and Band Width (Chapter 3) Homework #1
2/17	5	Studio #2 Instrumentation Amplifier: Differential and Common Mode Gain, and CMRR measurements
2/24	6	Midterm Exam
3/3	7	Signal Contamination and Noise in Biopotential Amplifiers (Chapter 6) Homework #2: Spike-Triggered Averaging for Noise Reduction
3/10	8	Studio#3 Using Matlab for Data Acquisition and Control
3/17	9	<i>Spring Recess</i>
3/24	10	A/D Converters / Data Acquisition Cards (Handout) Origin of Biopotentials (EEG, ENG, EMG, EOG) Homework #3: Strength-Duration Curve
3/31	11	Studio #4 A Practical A/D Converter Circuit as a Voltmeter
4/7	12	Biopotential Electrodes: Electrical model (Chapter 5)
4/14	13	Studio #5: Electro-Oculogram
4/21	14	Term Projects: Circuit Development and Troubleshooting
4/28	15	Term Project Presentations

Final Exam day and times are scheduled by the University.