

**ECBE Courses Offered 2021-22 By Term (DRAFT)**

**Electives are Highlighted in Orange Below and are not offered in Every Academic Year.\***

**FALL**

ECE-118-01 Intro Logic and Computer Design w/ Lab

BME-201 Biomechanics 1

ECE/BME-225 Electric Circuits w/ Lab

ECE/BME-241 Discrete Systems w/ Lab

BME-311 Advanced Biomechanics w/ Lab

BME-335 Polymetric Biomaterials

ECE-337 Data Communications

ECE-351 Probability and Digital Communications

ECE-363 Analysis/Design Electronic Circuits w/ Lab

ECE-463 Wireless Communications w/ Lab

BME/ECE 487 Medical Imaging

BME-495 BME Capstone 1

ECE-498 ECE Capstone 1

**WINTER**

BME-210 Statistical Methods in Biomedical Engineering

ECE-218 Embedded Microcontroller Projects w/ Lab

ECE-225 Electric Circuits w/ Lab

ECE-240 Circuits and Systems w/ Lab

ECE-310 Electronic Devices

BME-338 Mechanobiology

BME-345 Orthopedic Biomechanics

ECE-366 Control Theory w/ Lab

BME/ECE-386 Biomedical Instrumentation

BME 496 BME Capstone 2

ECE-499 ECE Capstone 2

**SPRING**

BME-101 Biomedical Imaging &amp; Graphics w/ Lab

ECE-101 The Joy of Electronics

BME-202 Biomechanics 2 w/ Lab

ECE-240 Circuits and Systems w/ Lab

ECE-241 Discrete Systems w/ Lab

ECE-248 Semiconductor Devices and Circuits w/ Lab

ECE-318 Digital Design w/ Lab

BME-331 Cell-Tissue-Material Interactions

ECE-343 Electromagnetics w/ Lab

ECE-344 Electric Machines &amp; Drives

ECE-350 Communication Systems w/ Lab

ECE-497 ECE Capstone Design Project Seminar

**\*Some required courses for EE may be used as CpE electives and vice-versa. BME majors can use some ECE courses as electives.**