### Academic Program Chart

**Senior**
- FPGA Lab (424/425), Adv Micro Lab (450), Design of Biomed. Inst./Sys. (427), Elec Design Lab (448), CAD VLSI (491/492), MicroFab Lab (495)
- Optical Inst (403), Elec Devices (485/486), Lasers (482), Bio-Photonics Lab (483)
- Image Proc (414/415), Audio Sig Proc (445), Med Imag (432/433/434/472/473/483), DSP (435), Control Sys Lab (454), Info Theory (447), Error Coding (460), Machine Learning (412)
- Adv ECE Team Project (452/453), Senior Design Project (498/499), LIDT (462/463), Non-ECE/CS Advanced Lab

**Advance Senior Courses & Approved Advanced, Design Intensive Labs May Cover Multiple Areas**

### Junior
- MicroP Lab 520.349
- Intro Mechatronics 520.340/240
- Intro DSP 520.344
- Intro Info Processing 520.315

### Sophomore
- Mastering Electronics 520.230
- Intro VLSI 520.216
- Electromagnetic Waves 520.220
- Signals & Systems 520.214
- Team Design (Fre/Soph) 520.212
- CS 200-level Elective 601.2xx
- Data Structures 601.226
- Interm. Program. 601.220
- Discrete Math 550.171

**Sophomore Courses**
- Intro Renew Energy 520.270
- Light, Image, Vision 520.150
- Comp Mods for ECE 520.123

### Freshman
- Intro ECE 520.137
- Required Course Selected Electives
  - Recently Introduced

**Legend:**
- Red boxes indicate core courses.
- Blue boxes indicate elective courses.
- Green boxes indicate advanced elective courses.
- Orange boxes indicate design intensive labs.
- Yellow boxes indicate recently introduced courses.

---

**Note:** This chart represents a structured academic program with course levels and designations, indicating the progression and requirements for students in the ECE major.