### Electrical Engineering Electives, Other Engineering Electives, Group A Focus Area & Group B Project Lab Options

**Group A Focus Area (Choose Two to complete)***

- ECE 3312: Advanced Electronics (ECE 3311, ECE 3303, & MATH 3350)
- ECE 3322: Principle of Communication Systems (ECE 3306, & ECE 3308)
- ECE 3342: Electromagnetic Fields II (ECE 3341 & MATH 3355 or ECE 3390)
- ECE 3355: Control System Analysis & Design (ECE 3303 & MATH 3350)

* cannot receive degree credit for both courses.

**Group B Project Lab Options**

- ECE 3353: Microcontroller Project Lab (ECE 3331, ECE 3311, & ECE 3362 or ECE 3363)
- ECE 3354: Digital Communications Project Lab (ECE 3331, ECE 3308, ECE 3311, & ECE 3362 or ECE 3363)
- ECE 3366: Modern Communications Circuits (ECE 3312 & ECE 3352)
- ECE 3377: Fiber Optic Systems I (ECE 3341)
- ECE 3378: Solar Energy (ECE 3331)

---

### ECE Title & Pre-Requisite(s)

- Solid State Devices (ECE 3311)
- VLSI Processing (ECE 3311, PHYS 2401, & MATH 3350)
- stead-state Analysis of Power Systems (ECE 3306)
- Antennas & Radiating Systems (ECE 3342)
- cannot receive degree credit for both courses.
- Quantum Mechanics II (PHYS 4307)
- Principles of Communication Systems (ECE 3306 & ECE 3308)
- Power Electronics (ECE 3311 & ECE 3353)
- RF Communications Project Lab (ECE 3331, ECE 3312, & ECE 3323)
- Data Structures (CS 1412)
- Group B
- Digital Comms Project Lab (ECE 3331, ECE 3303, ECE 3308, & ECE 3311)
- ECE 3333
- Title & Pre-Requisite(s) (May choose a MAX of Two From OEE)
- IE 3311
- RE 4323
- CS 3365
- Electric Machines & Drives (ECE 3341 & ECE 3353)
- Pattern Recognition (ECE 3308 or MATH 3342 or IE 2341; MATH 3350; ECE 3303, & ECE 3304 or ECE 3323)
- Intro to Artificial Intelligence (CS 1382 & CS 2413)
- Digital Signal Processing (ECE 3303)
- RE 4300
- Stat & Therm Phys (PHYS 2402 or PHYS 3301; MATH 3350 or MATH 3354 or PHYS 4325)
- Focus Area (Choose Two to complete)
- ECE 3336
- Topics in Electrical Engineering (may be repeated for credit)
- Wind Mod & Design (ENGL 1302, RE 2300, RE 3300, RE 3301, RE 3100, & RE 3310)
- CE 2301
- Unmanned Aircraft Systems
- Introduction to Numerical Analysis I (MATH 3350)
- Microwaves Engineering (ECE 3342)
- Microwave Solid-State Circuits (ECE 3312)
- Antennas & Radiating Systems (ECE 3342)
- Microwave Radar Systems & Circuits (ECE 3341)
- Power Semiconductor Devices (ECE 4314)
- Fiber Optic Systems (ECE 3341)
- Modern Optics for Engineers (ECE 3414)
- Digital Signal Processing (ECE 3403)
- Parametric & Functional Device Testing (ECE 3311 & ECE 3342 or IE 2342)
- Testing of Digital Systems (ECE 3311 & ECE 3342 or IE 2342)
- Engineering Thermo I (MATH 1452 & PHYS 1408)
- Materials Science (CHEM 1107 & CHEM 1107)
- Dynamics (MATH 2450 & ME 2301)
- Mechanical Engineering (MATH 2320 & ME 2301)
- Heat Transfer (ME 2301 & ME 2315 & PHYS 2401)
- Computational Fluid Dynamics (PHYS 1408, PHYS 2301, PHYS 2401, & PHYS 2402 or PHYS 3301)
- Solid State Physics (PHYS 1408, PHYS 2301, PHYS 2401, & PHYS 2402 or PHYS 3301)
- Thermodynamics (MATH 2450 & ME 2301)
- Quantum Mechanics (PHYS 3301 or PHYS 3402, MATH 3350 or PHYS 4345)
- Quantum Mechanics (PHYS 3301 or PHYS 3402, MATH 3350 or PHYS 4345)
- Quantum Mechanics (PHYS 3301 or PHYS 3402, MATH 3350 or PHYS 4345)
- Solid State Physics (PHYS 3301 & Knowledge of elementary quantum mechanics)
- Nuclear & Particle Physics (PHYS 4301)
- Wind Energy Sci & Tech II (RE 3300)
- Wind Energy Sci & Tech (RE 3300) WE CANNOT WAIVE THIS PRE-REQ FOR ECE'S - EMAIL EE ADVISOR
- Wind Energy Sci & Tech (RE 3300) WE CANNOT WAIVE THIS PRE-REQ FOR ECE'S - EMAIL EE ADVISOR
- Renewable Energy (MATH 1452 & PHYS 1408)
- Renewable Energy & the Environment (MATH 1452 & PHYS 1408)
- Renewable Energy & the Environment (MATH 1452 & PHYS 1408)
- Renewable Energy & the Environment (MATH 1452 & PHYS 1408)
- Renewable Energy & the Environment (MATH 1452 & PHYS 1408)
- Renewable Energy & the Environment (MATH 1452 & PHYS 1408)
- Renewable Energy & the Environment (MATH 1452 & PHYS 1408)
- Renewable Energy & the Environment (MATH 1452 & PHYS 1408)
- Renewable Energy & the Environment (MATH 1452 & PHYS 1408)
- Renewable Energy & the Environment (MATH 1452 & PHYS 1408)
- Renewable Energy & the Environment (MATH 1452 & PHYS 1408)
- Renewable Energy & the Environment (MATH 1452 & PHYS 1408)
- Renewable Energy & the Environment (MATH 1452 & PHYS 1408)