Department of Electrical Engineering and Computer Science
Electrical- Power & Energy Systems Concentration Catalog 2022

Fall 14 hours
Math 123 or 141 or 147 (3-4) (QR) FA, SP
Vol Core (3) FA, SP
Can be Math 123 or 147 or higher
English 101 or 118 or 198 (3) FA, SP, SU
Math 142 or 147 (4) (EI) FA, SP
Pre-req: Math 141 and SAT Math 600
Physics 201 (2) (OC) SP
Pre-req: Math 123 or 147 or higher
ECE 201 (3) FA, SP
Pre-req: Math 123 or 147 with C or better
ECE 256 (3) (EI) FA, SP
Pre-req: Math 123 or 147 with C or better
ECE 401 (2) (OC) SP
Pre-req: Math 123 or 147 with C or better
ECE 402 (3) (OC) SP
Pre-req: Math 123 or 147 with C or better
ECE 395 (1) (WC) FA, SP
Pre-req: Math 123 or 147 with C or better
ECE 401 (2) (OC) SP
Pre-req: Math 123 or 147 with C or better
ECE 496 (1) SP
Pre-req: Math 123 or 147 with C or better

Spring 10 hours
Math 152 or 154 or 156 (4) (QR) FA, SP
Vol Core (3) FA, SP
Can be Math 152 or 156 with C or better
ECE 201 (3) FA, SP
Pre-req: Math 152 or 156 with C or better
ECE 256 (3) (EI) FA, SP
Pre-req: Math 152 or 156 with C or better
ECE 315 (3) FA, SP
Pre-req: Math 152 or 156 with C or better
ECE 342 (3) FA, SP
Pre-req: Math 152 or 156 with C or better
ECE 395 (1) (WC) FA, SP
Pre-req: Math 152 or 156 with C or better
ECE 402 (3) (OC) SP
Pre-req: Math 152 or 156 with C or better
ECE 401 (2) (OC) SP
Pre-req: Math 152 or 156 with C or better

**Senior ECE elective:**
Math 496 (1) (ELC) SP
Pre-req: Math 123 or 147 with C or better

**Global Citizenship United States (GCUS):**
Electrical Engineering, Computer Science, Electrical Engineering, and Mathematics core course used for the undergraduate degree, ECE 291 requires c or better in EF 128 or 142 and Math 152 or 156.

**Volunteer Core courses highlighted in light orange.**

*Beginning students who have had high school computer science and/or who have had significant programming experience (e.g., summer institute study, special research projects, home laboratory) are invited to apply during the summer to the

**Economic-Energy Systems Concentration Catalog 2022**

Department of Electrical Engineering and Computer Science
Electrical- Power & Energy Systems Concentration Catalog 2022

Fall 14 hours
Math 123 or 141 or 147 (3-4) (QR) FA, SP
Vol Core (3) FA, SP
Can be Math 123 or 147 or higher
English 101 or 118 or 198 (3) FA, SP, SU
Math 142 or 147 (4) (EI) FA, SP
Pre-req: Math 141 and SAT Math 600
Physics 201 (2) (OC) SP
Pre-req: Math 123 or 147 or higher
ECE 201 (3) FA, SP
Pre-req: Math 123 or 147 with C or better
ECE 256 (3) (EI) FA, SP
Pre-req: Math 123 or 147 with C or better
ECE 401 (2) (OC) SP
Pre-req: Math 123 or 147 with C or better
ECE 402 (3) (OC) SP
Pre-req: Math 123 or 147 with C or better
ECE 395 (1) (WC) FA, SP
Pre-req: Math 123 or 147 with C or better
ECE 401 (2) (OC) SP
Pre-req: Math 123 or 147 with C or better
ECE 496 (1) SP
Pre-req: Math 123 or 147 with C or better

Spring 10 hours
Math 152 or 154 or 156 (4) (QR) FA, SP
Vol Core (3) FA, SP
Can be Math 152 or 156 with C or better
ECE 201 (3) FA, SP
Pre-req: Math 152 or 156 with C or better
ECE 256 (3) (EI) FA, SP
Pre-req: Math 152 or 156 with C or better
ECE 315 (3) FA, SP
Pre-req: Math 152 or 156 with C or better
ECE 342 (3) FA, SP
Pre-req: Math 152 or 156 with C or better
ECE 395 (1) (WC) FA, SP
Pre-req: Math 152 or 156 with C or better
ECE 402 (3) (OC) SP
Pre-req: Math 152 or 156 with C or better
ECE 401 (2) (OC) SP
Pre-req: Math 152 or 156 with C or better

**Senior ECE elective:**
Math 496 (1) (ELC) SP
Pre-req: Math 123 or 147 with C or better

**Global Citizenship United States (GCUS):**
Electrical Engineering, Computer Science, Electrical Engineering, and Mathematics core course used for the undergraduate degree, ECE 291 requires c or better in EF 128 or 142 and Math 152 or 156.

**Volunteer Core courses highlighted in light orange.**

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