Electrical engineers find innovative ways to use electricity, electronic materials and electrical phenomena to improve people’s lives. The field of electrical engineering encompasses a very broad spectrum of technical areas, including computers and digital systems, electronics and integrated circuits, communications, systems and control, electromagnetics and electro-optics, energy conversion and power distribution, robotics, signal processing, solid state electronics and photonics. Electrical engineers work at the frontier of high technology and are involved in research, the creation of new ideas and the design and development of new products, manufacturing and marketing activities. Electrical engineers work in a variety of industries: film and television, aerospace, automotive, business machines, professional and scientific equipment, computers and electronics, communications, medical technology. They work in public utilities, at NASA, the National Institutes of Health, and the Department of Defense. As researchers, they study everything from fuel cells to nanotechnology. If it’s got an on/off switch, these engineers have studied it, designed it or produced it.

Freshman Year

**FALL SEMESTER**
- EGR 101 - ENGINEERING EXPLORATION I - 1
- EGR 102 - FUNDAMENTALS OF ENGINEERING COMPUTING - 2
- Choose CHE 105 or PHY 231 - 4
- PHY 241 - GENERAL UNIVERSITY PHYSICS LABORATORY - 1
- Composition and Communication I - 3
- MA 113 - CALCULUS I - 4

**SPRING SEMESTER**
- EGR 103 - ENGINEERING EXPLORATION II - 2
- UK Core - Comp. & Comm. II - 3
- MA 114 - CALCULUS II - 4
- Choose CHE 105 or PHY 231 - 4
- UK Core - Social Sciences --OR-- CS 215 - 3

**TOTAL HOURS: 17**

Total Freshman Hours: 32

Sophomore Year

**FALL SEMESTER**
- MA 213 - CALCULUS III - 4
- PHY 232 - GENERAL UNIVERSITY PHYSICS - 4
- PHY 242 - GENERAL UNIVERSITY PHYSICS LABORATORY - 1
- EE 211 - CIRCUITS I - 4
- EE 282 --OR-- CPE 282 - 3

**SPRING SEMESTER**
- MA 214 - CALCULUS IV - 3
- EE 223 - AC CIRCUITS - 4
- EE 287 --OR-- CPE 287 - 3
- UK Core - Social Sciences --OR-- CS 215 - 3
- Intellectual Inquiry in the Humanities - 3

**TOTAL HOURS: 18**

Total Sophomore Hours: 35

Junior Year
FALL SEMESTER
EE 415G - ELECTROMECHANICS - 3
EE 421G - SIGNALS AND SYSTEMS - 3
EE Laboratory Elective - 3
EE 461G - INTRODUCTION TO ELECTRONICS - 3
MA/STA 320 --OR-- STA 381 - 3
Technical Elective - 3
TOTAL HOURS: 17

SPRING SEMESTER
EE 468G - INTRODUCTION TO ENGINEERING ELECTROMAGNETICS - 4
EE Laboratory Elective - 3
Engineering/Science Elective - 3
Technical Elective - 3
Community, Culture and Citizenship in the USA - 3
TOTAL HOURS: 15

Total Junior Hours: 32

Senior Year

FALL SEMESTER
EE 490 --OR-- CPE 490 - 3
EE Technical Elective - 3
EE Technical Elective - 3
Math/Statistics Elective - 3
Global Dynamics - 3
TOTAL HOURS: 15

SPRING SEMESTER
EE 491 --OR-- CPE 491 - 3
EE Technical Elective - 3
EE Technical Elective - 3
Supportive Elective - 3
Engineering/Science Elective - 3
Statistical Inferential Reasoning - 3
TOTAL HOURS: 18

Total Senior Hours: 33

Total Minimum hours Required for Degree: 131 hours

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Current UK students: Please login to http://myUK.uky.edu to access your personalized major template and degree audit via the Graduation Planning System (GPS). This major template is the curriculum requirements for completion of the degree program only and is not a personalized audit based on your completed coursework. This major template does not reflect entrance requirements for selective majors. Please consult with the college to learn more about admission to this major.