

Electrical Engineering

2020-2021 Catalog

128 Total Credits

First Year

Semester 1

R Engr 101 (Engr Orientation)
3 EE 185 (Engr Problem Solving)
4 Math 165 (Calculus I)
4 Chem 167 (Chem for Engrs)
3 Engl 150 (Critical Thinking & Comm)
1 Lib 160 (Library)

15 Total Credits

Semester 2

4 Math 166 (Calculus II)
5 Phys 221 (Classical Physics I)
4 EE 285 (Problem Solv Methods/Tools)
R EE 166 (Prof Program Orientation)
3 General Education Elective

16 Total Credits

Sophomore Year

Semester 3

4 EE 201 (Elect Circuits)
4 Phys 232 (Classical Physics II)
1 Phys 232L (Classical Physics II lab)
4 Math 267 (Differential Equations)
3 Engl 250 (WOVE Composition)
R EE 294 (Program Discovery)

16 Total Credits

Semester 4

4 Cpr E 281 (Digital Logic)
4 EE 230 (Electronic Circuits & Systems)
4 Math 265 (Calculus III)
4 EE 224 (Signals & Systems)

16 Total Credits

Junior Year

Semester 5

4 Cpr E 288 (Embedded Systems)
3 General Education Elective
3 EE 303 (Energy Systems/Power)
4 EE 311 (Electro Fields & Waves)
3 Math 207 (Matrices & Linear Alg)
R EE 394 (Program Exploration)

17 Total Credits

Semester 6

3-4 EE 330 (Integrated Electronics) **OR**
EE 332 (Semiconductor Matrils/Devices)
3 EE 322 (EE Probabilistic Methods)
3-4 EE 321 (Communication Systems) **OR**
EE 324 (Signals & Systems II)
3 General Education Elective
3 Engl 314 or 309 (Tech Comm/Reports)

16 Total Credits

Senior Year

Semester 7

3 EE 491 (Senior Design Project I)
R EE 494 (Portfolio Assessment)
3 IE 305 (Engr Econ)
9 Technical Electives

15 Total Credits

Semester 8

2 EE 492 (Senior Design Project II)
9 Technical Electives
6 General Education Electives

17 Total Credits

Shading indicates Basic Program courses

Compiled from official ISU catalog 4-year plans (catalog.iastate.edu/undergraduatemajors-alpha/)