

Computer Engineering

2020-2021 Catalog

127 Total Credits

First Year

Semester 1

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

15 Total Credits

Semester 2

4 Com S 227(Object-orient Program)
R Cpr E 166 (Prof Program Orientation)
3 General Education Elective
4 Math 166 (Calculus II)
5 Phys 221 (Classical Physics I)

16 Total Credits

Sophomore Year

Semester 3

4 Cpr E 281 (Digital Logic)
3 Com S 228 (Intro to Data Structures)
4 Math 265 (Calculus III)
4 Phys 232 (Classical Physics II)
1 Phys 232L (Classical Physics II lab)
R CprE 294 (Program Discovery)

16 Total Credits

Semester 4

4 Cpr E 288 (Embedded Systems I)
3 Engl 250 (WOVE Comp)
4 Math 267 (Differential Equations)
4 EE 201 (Electric Circuits)

15 Total Credits

Junior Year

Semester 5

4 Cpr E 381 (Org & Assembly Prog)

3 Cpr E 310 (Foundations of Cpr E)
3 Com S 309 (Software Develop)
4 EE 230 (Electronic Circuits and Sys)
R Cpr E 394 (Program Exploration)
3 General Education Elective

17 Total Credits

Semester 6

3 Com S 311 (Algorithms Analysis) **OR**
CPR E 315 (Algorithms Application)
4 Cpr E 308 (Operating Systems)
3 Engl 314 or 309 (Tech Comm/Reports)
3 General Education Elective
3 Computational Tech Elective

16 Total Credits

Senior Year

Semester 7

3 Cpr E 491 (Senior Design Project I)
R Cpr E 494 (Portfolio Assessment)
3 Stat 330 (Probabilities & Statistics)
6 Technical Electives
3 Cpr E Elective
3 General Education Elective

18 Total Credits

Semester 8

2 Cpr E 492 (Senior Design Project II)
3 Computational Tech Elective
3 Cpr E Elective
3 General Education Elective
3 Cpr E Elective

14 Total Credits

Shading indicates Basic Program courses

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