Cyber Security Engineering 2020-2021 Catalog

125 Total Credits

First Year

First Year	
Semester 1	Semester 2
4 Chem 167 (Chem for Engrs)	4 Com S 227(Object-orient Program)
3 Cpr E 185 (Engr Problem Solving)	R Cpr E 166 (Prof Program Orientation)
3 Engl 150 (Critical Think & Comm)	3 General Education Elective
R Engr 101 (Engr Orientation)	4 Math 166 (Calculus II)
1 Lib 160 (Library)	5 Phys 221 (Classical Physics I)
4 Math 165 (Calculus I)	
15 Total Credits	16 Total Credits
Sophomore Year	
Semester 3	Semester 4
4 Cpr E 281 (Digital Logic)	4 Cpr E 288 (Embedded Systems I)
3 Com S 228 (Intro to Data Structures)	3 Engl 250 (WOVE Comp)
4 Math 267 (Differential Equations)	3 Math Elective
3 Cpr E 230 (Intro Cyber Security)	3 Cpr E 231 (Cyber Security Tools)
R CprE 294 (Program Discovery)	3 Cpr E 234 (Cyber Legal/Ethical)
14 Total Credits	16 Total Credits
Junior Year	
Semester 5	Semester 6
4 Cpr E 381 (Org & Assembly Prog)	3 Com S 311 (Algorithms Analysis) OR
0 0 5040 (5 1 % (0 5)	CPR E 315 (Algorithms Application)
3 Cpr E 310 (Foundations of Cpr E)	4 Cpr E 308 (Operating Systems)
3 Com S 309 (Software Develop)	3 Engl 314 or 309 (Tech Comm/Reports)
3 Cpr E 331 (Cyber Crypto Concepts)	3 General Education Elective
3 General Education Elective	3 Cyber Security Elective
16 Total Credits	16 Total Cradita
10 Total Credits	16 Total Credits
Senior Year	
Semester 7	Semester 8
3 Cpr E 491 (Senior Design Project I)	2 Cpr E 492 (Senior Design Project II)
R Cpr E 494 (Portfolio Assessment)	3 Technical Elective
3 Stat 330 (Probabilities & Statistics)	3 Technical Elective
6 Cyber Security Electives	
- , , ,	3 General Education Elective
3 Cpr E Elective	3 Cyber Security Elective

Shading indicates Basic Program courses

General Education Elective

3

18 Total Credits

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

14 Total Credits