Computer Engineering 2020-2021 Catalog

127 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	
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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 265 (Calculus III)	4	Math 267 (Differential Equations)
4	Phys 232 (Classical Physics II)	4	EE 201 (Electric Circuits)
		4	EE 201 (Electric Circuits)
1 R	Phys 232L (Classical Physics II lab)		
K	CprE 294 (Program Discovery)		
16 Total Cradita			
16 Total Credits 15 Total Credits			
Junior Year			
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Com			montos 6
	nester 5	Ser	mester 6
Sem 4			Com S 311 (Algorithms Analysis) OR
4	nester 5 Cpr E 381 (Org & Assembly Prog)	Ser 3	Com S 311 (Algorithms Analysis) OR CPR E 315 (Algorithms Application)
4 3	rester 5 Cpr E 381 (Org & Assembly Prog) Cpr E 310 (Foundations of Cpr E)	Ser 3	Com S 311 (Algorithms Analysis) OR CPR E 315 (Algorithms Application) Cpr E 308 (Operating Systems)
4 3 3	Cpr E 310 (Foundations of Cpr E) Com S 309 (Software Develop)	Ser 3 4 3	Com S 311 (Algorithms Analysis) OR CPR E 315 (Algorithms Application) Cpr E 308 (Operating Systems) Engl 314 or 309 (Tech Comm/Reports)
4 3 3 4	Cpr E 381 (Org & Assembly Prog) Cpr E 310 (Foundations of Cpr E) Com S 309 (Software Develop) EE 230 (Electronic Circuits and Sys)	Ser 3 4 3 3	Com S 311 (Algorithms Analysis) OR CPR E 315 (Algorithms Application) Cpr E 308 (Operating Systems) Engl 314 or 309 (Tech Comm/Reports) General Education Elective
4 3 3 4 R	Cpr E 381 (Org & Assembly Prog) Cpr E 310 (Foundations of Cpr E) Com S 309 (Software Develop) EE 230 (Electronic Circuits and Sys) Cpr E 394 (Program Exploration)	Ser 3 4 3	Com S 311 (Algorithms Analysis) OR CPR E 315 (Algorithms Application) Cpr E 308 (Operating Systems) Engl 314 or 309 (Tech Comm/Reports)
4 3 3 4	Cpr E 381 (Org & Assembly Prog) Cpr E 310 (Foundations of Cpr E) Com S 309 (Software Develop) EE 230 (Electronic Circuits and Sys)	Ser 3 4 3 3	Com S 311 (Algorithms Analysis) OR CPR E 315 (Algorithms Application) Cpr E 308 (Operating Systems) Engl 314 or 309 (Tech Comm/Reports) General Education Elective
4 3 3 4 R 3	Cpr E 381 (Org & Assembly Prog) Cpr E 310 (Foundations of Cpr E) Com S 309 (Software Develop) EE 230 (Electronic Circuits and Sys) Cpr E 394 (Program Exploration) General Education Elective	Ser 3 4 3 3 3	Com S 311 (Algorithms Analysis) OR CPR E 315 (Algorithms Application) Cpr E 308 (Operating Systems) Engl 314 or 309 (Tech Comm/Reports) General Education Elective Computational Tech Elective
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4 3 4 R 3 17 7	Cpr E 381 (Org & Assembly Prog) Cpr E 310 (Foundations of Cpr E) Com S 309 (Software Develop) EE 230 (Electronic Circuits and Sys) Cpr E 394 (Program Exploration) General Education Elective Total Credits Seni Dester 7 Cpr E 491 (Senior Design Project I)	Ser 3 4 3 3 3 16 or Year 2	Com S 311 (Algorithms Analysis) OR CPR E 315 (Algorithms Application) Cpr E 308 (Operating Systems) Engl 314 or 309 (Tech Comm/Reports) General Education Elective Computational Tech Elective Total Credits mester 8 Cpr E 492 (Senior Design Project II)
3 3 4 R 3 17 7 Sem 3 R	Cpr E 381 (Org & Assembly Prog) Cpr E 310 (Foundations of Cpr E) Com S 309 (Software Develop) EE 230 (Electronic Circuits and Sys) Cpr E 394 (Program Exploration) General Education Elective Cotal Credits Seni Dester 7 Cpr E 491 (Senior Design Project I) Cpr E 494 (Portfolio Assessment)	Ser 3 4 3 3 3 3 4 6 6 6 7 Year 2 3	Com S 311 (Algorithms Analysis) OR CPR E 315 (Algorithms Application) Cpr E 308 (Operating Systems) Engl 314 or 309 (Tech Comm/Reports) General Education Elective Computational Tech Elective Total Credits mester 8 Cpr E 492 (Senior Design Project II) Computational Tech Elective
3 3 4 R 3 17 7 Sem 3 R 3	Cpr E 381 (Org & Assembly Prog) Cpr E 310 (Foundations of Cpr E) Com S 309 (Software Develop) EE 230 (Electronic Circuits and Sys) Cpr E 394 (Program Exploration) General Education Elective Total Credits Seni Dester 7 Cpr E 491 (Senior Design Project I) Cpr E 494 (Portfolio Assessment) Stat 330 (Probabilities & Statistics)	Ser 3 4 3 3 3 3 4 6 6 6 7 Year 2 3 3 3	Com S 311 (Algorithms Analysis) OR CPR E 315 (Algorithms Application) Cpr E 308 (Operating Systems) Engl 314 or 309 (Tech Comm/Reports) General Education Elective Computational Tech Elective Total Credits mester 8 Cpr E 492 (Senior Design Project II) Computational Tech Elective Cpr E Elective
4 3 4 R 3 17 7 Sem 3 R 3 6	Cpr E 381 (Org & Assembly Prog) Cpr E 310 (Foundations of Cpr E) Com S 309 (Software Develop) EE 230 (Electronic Circuits and Sys) Cpr E 394 (Program Exploration) General Education Elective Cotal Credits Seni Dester 7 Cpr E 491 (Senior Design Project I) Cpr E 494 (Portfolio Assessment) Stat 330 (Probabilities & Statistics) Technical Electives	Ser 3 4 3 3 3 3 16 or Year 2 3 3 3 3	Com S 311 (Algorithms Analysis) OR CPR E 315 (Algorithms Application) Cpr E 308 (Operating Systems) Engl 314 or 309 (Tech Comm/Reports) General Education Elective Computational Tech Elective Total Credits mester 8 Cpr E 492 (Senior Design Project II) Computational Tech Elective Cpr E Elective General Education Elective
4 3 4 R 3 17 7 Sem 3 R 3 6 3	Cpr E 381 (Org & Assembly Prog) Cpr E 310 (Foundations of Cpr E) Com S 309 (Software Develop) EE 230 (Electronic Circuits and Sys) Cpr E 394 (Program Exploration) General Education Elective Total Credits Seni Dester 7 Cpr E 491 (Senior Design Project I) Cpr E 494 (Portfolio Assessment) Stat 330 (Probabilities & Statistics) Technical Electives Cpr E Elective	Ser 3 4 3 3 3 3 4 6 6 6 7 Year 2 3 3 3	Com S 311 (Algorithms Analysis) OR CPR E 315 (Algorithms Application) Cpr E 308 (Operating Systems) Engl 314 or 309 (Tech Comm/Reports) General Education Elective Computational Tech Elective Total Credits mester 8 Cpr E 492 (Senior Design Project II) Computational Tech Elective Cpr E Elective
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14 Total Credits

Shading indicates Basic Program courses

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

18 Total Credits