

Electrical and Computer Engineering Curriculum

Electrical Engineering Option

Freshman Year							
01:160:159	General Chemistry for Engineers		3	14:440:127	Intro to Computers for Engineers		3
01:160:171	Introduction to Experimentation		1	14:440:221	Engineering Mechanics		3
01:355:101	Expository Writing		3	01:640:152	Calculus II		4
14:440:100	Engineering Orientation		1	01:750:124	Analytical Physics IB		2
01:640:151	Calculus I Math/Physics		4	__ : __ : __	Hum/Soc elective		3
01:750:123	Analytical Physics IA		2				
__ : __ : __	Hum/Soc elective		3				
Total Credits			17	Total Credits			15
Sophomore Year							
14:332:221	Principles of Elec. Eng. I	M	3	14:332:222	Principles of Elec. Eng. II	M	3
14:332:223	Principles of EE I Lab	M	1	14:332:224	Principles of EE II Lab	M	1
14:332:231	Digital Logic Design	M	3	14:332:226	Probability & Random Proc.	M	3
14:332:233	Digital Logic Design Lab	M	1	14:332:252	Programming Method. I	M	3
01:640:251	Multivariable Calculus		4	14:332:254	Programming Method. I. Lab	M	1
01:750:227	Analytical Physics IIA		3	01:640:244	Differential Equations		4
01:750:229	Analytical Physics II Lab		1				
Total Credits			16	Total Credits			15
Junior Year							
14:332:331	Computer Arch.& Asmb. Lang.	M	3	14:332:312	Discrete Mathematics	M	3
14:332:333	Computer Arch. Lab	M	1	14:332:346	Digital Signal Processing	M	3
14:332:345	Linear Systems & Signals	M	3	14:332:348	Digital Signal Proc. Lab	M	1
14:332:347	Linear Sys. & Signals Lab	M	1	14:332:393	Professionalism/Ethics	M	1
14:332:361	Electronic Devices	M	3	14:332:366	Digital Electronics	M	3
14:332:363	Electronic Devices Lab	M	1	14:332:368	Digital Electronics Lab	M	1
__ : __ : __	Hum/Soc elective (200+)		3	14:332: __	Electrical elective	M	3
				__ : __ : __	Technical elective	M	3
Total Credits			15	Total Credits			18
Senior Year							
14:332: __	Electrical elective	M	3	14:332:448	Capstone Design elective	M	3
14:332: __	Electrical elective	M	3	14:332: __	Electrical elective	M	3
__ : __ : __	Science Math Eng elective	M	3	__ : __ : __	General elective		3
__ : __ : __	Technical elective	M	3	01:220:102	Microeconomics		3
__ : __ : __	Hum/Soc elective (200+)		3				
Total Credits			15	Total Credits			12
Total degree credits: 123							

Electives consists of: four (4) courses of electrical electives, two (2) courses of Technical electives, one (1) course of Science Math Eng'g elective, two (2) courses of lower level Hum/Soc electives, two (2) courses of upper level Hum/Sci electives, and one (1) course of general elective. For more info on humanity electives, see <http://soe.rutgers.edu/oa/electives>. Residency requirement is 54 credits

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Computer Engineering Option

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01:160:159	General Chemistry for Engineers		3	14:440:127	Intro to Computers for Engineers		3
01:160:171	Introduction to Experimentation		1	14:440:221	Engineering Mechanics		3
01:355:101	Expository Writing		3	01:640:152	Calculus II		4
14:440:100	Engineering Orientation		1	01:750:124	Analytical Physics IB		2
01:640:151	Calculus I Math/Physics		4	__ : __ : __	Hum/Soc elective		3
01:750:123	Analytical Physics IA		2				
__ : __ : __	Hum/Soc elective		3				
Total Credits			17	Total Credits			15
Sophomore Year							
14:332:221	Principles of Elec. Eng. I	M	3	14:332:222	Principles of Elec. Eng. II	M	3
14:332:223	Principles of EE I Lab	M	1	14:332:224	Principles of EE II Lab	M	1
14:332:231	Digital Logic Design	M	3	14:332:226	Probability & Random Proc.	M	3
14:332:233	Digital Logic Design Lab	M	1	14:332:252	Programming Method. I	M	3
01:640:251	Multivariable Calculus		4	14:332:254	Programming Method. I. Lab	M	1
01:750:227	Analytical Physics IIA		3	01:640:244	Differential Equations		4
01:750:229	Analytical Physics II Lab		1				
Total Credits			16	Total Credits			15
Junior Year							
14:332:331	Computer Arch.& Asmb. Lang.	M	3	14:332:312	Discrete Mathematics	M	3
14:332:333	Computer Arch. Lab	M	1	14:332:452	Software Engineering	M	3
14:332:345	Linear Systems & Signals	M	3	14:332:434	Intro to Comp. Systems	M	3
14:332:347	Linear Sys. & Signals Lab	M	1	14:332:393	Professionalism/Ethics	M	1
14:332:361	Electronic Devices	M	3	14:332:366	Digital Electronics	M	3
14:332:363	Electronic Devices Lab	M	1	14:332:368	Digital Electronics Lab	M	1
14:332:351	Programming Method. II	M	3	__ : __ : __	Comp/Technical elective	M	3
Total Credits			15	Total Credits			17
Senior Year							
14:332:437	Digital System Design	M	3	14:332:448	Capstone Design elective	M	3
__ : __ : __	Computer elective	M	3	__ : __ : __	Computer elective	M	3
__ : __ : __	Science Math Eng elective	M	3	__ : __ : __	Hum/Soc elective (200+)		3
__ : __ : __	Technical elective	M	3	01:220:102	Microeconomics		3
__ : __ : __	Hum/Soc elective (200+)		3				
Total Credits			15	Total Credits			12
Total degree credits: 122							

Electives consists of: two (2) courses of computer electives, one (1) course of technical elective, one (1) course of either computer or technical elective, one (1) course of Science Math and Engineering elective, two (2) lower level Hum/Soc electives, and two (2) upper level Hum/Soc electives. For more info on humanity electives, see <http://soe.rutgers.edu/oa/electives>. **Residency requirement is 50 credits**