RUTGERS
School of Engineering

Electrical Engineering Curriculum

Class of 2022 and above

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
14:332:361	Electronic Devices	M	3	14:332:393	Professionalism/Ethics	M	1
14:332:363	Electronic Devices Lab	M	1	14:332:366	Digital Electronics	M	3
__:___:___	Hum/Soc elective (200+)		3	14:332:368	Digital Electronics Lab	M	1
14:332:___	Restricted Electrical elective	M	3	14:540:343	Engineering Econ	M	3
Total Credits			**17**	**Total Credits**			**15**
Senior Year							
14:332:449	Intro to Capstone Design	M	1	14:332:448	Capstone Design	M	3
14:332:___	Electrical elective	M	3	14:332:___	Electrical elective	M	3
14:332:___	Electrical elective	M	3	__:___:___	Technical elective	M	3
__:___:___	Technical elective	M	3	__:___:___	General elective		3
__:___:___	Hum/Soc elective (200+)		3				
__:___:___	Science Math Eng elective	M	3				
Total Credits			**16**	**Total Credits**			**12**
Total degree credits: 123							

Electives consists of: three (3) courses of electrical electives, one (1) course of restricted electrical elective, 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/oaa/electives. **Residency requirement is 54 credits**

RUTGERS
School of Engineering

Computer Engineering Curriculum

Class of 2022 and above

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	14:332:452	Software Engineering	M	3
14:332:345	Linear Systems & Signals	M	3	14:332:434	Intro to Comp. Systems	M	3
14:332:351	Programming Method. II	M	3	14:332:393	Professionalism/Ethics	M	1
14:332:___	Restricted Comp. elective	M	3	14:540:343	Engineering Econ	M	3
__:___:___	Hum/Soc elective (200+)	M	3	__:___:___	Technical elective	M	3
Total Credits			**16**	**Total Credits**			**16**
Senior Year							
14:332:437	Digital System Design	M	3	14:332:448	Capstone Design	M	3
14:332:449	Intro to Capstone Design	M	1	__:___:___	Computer elective	M	3
__:___:___	Computer elective	M	3	__:___:___	Technical elective	M	3
__:___:___	Computer elective	M	3	__:___:___	General elective		3
__:___:___	Hum/Soc elective (200+)		3				
__:___:___	Science Math Eng elective	M	3				
Total Credits			**16**		**Total Credits**		**12**

Total degree credits: 123

Electives consists of: Three (3) courses of computer electives, two (2) course of technical elective, one (1) course of restricted computer elective, one (1) course of Science Math and Engineering elective, two (2) lower level Hum/Soc electives, one (1) general elective, and two (2) upper level Hum/Soc electives. For more info on humanity electives, see http://soe.rutgers.edu/oaa/electives. **Residency requirement is 54 credits**