



# Electrical Engineering

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**Geneva's Electrical Engineering program** educates students in the elements of electrical systems and products. Students leave the program equipped with skills and knowledge to effectively design and develop quality electrical products. This program encourages students to use the skills that they learn to improve the state of the world and to design ethically. The program also includes opportunities to engage with local industries for sponsored design projects. Upon the completion of this program, students will be ready to begin a successful and meaningful career in engineering.



scan to learn more



# Electrical Engineering

## Example 4-Year Plan\*

	YEAR 1	YEAR 2	YEAR 3	YEAR 4
FALL SEMESTER	<b>EGR 100</b> Calling and Vocation			<b>EGR 481</b> Senior Design Project
	<b>EGR 101/102</b> Intro to Engineering	<b>EGR 212</b> Linear Circuit Analysis I	<b>CPE 490</b> Embedded Systems	<b>PHY 318</b> Modern Physics
	<b>CHM 111</b> General College Chemistry	<b>MAT 261</b> Calculus III	<b>ELE 402 or ELE 410</b>	<b>EGR 211</b> Solid Mechanics
	<b>MAT 161</b> Calculus I	<b>PHY 201</b> College Physics	<b>ELE 305</b> Field & Waves	<b>ELE 440</b> Digital Signal Processing
	<b>ENG 101</b> English Composition	<b>ECO 270</b> Principles of Microeconomics	<b>CSC 101</b> Intro to Programming	<b>CPE 304</b> Advanced Digital Logic
	<b>BIB 112</b> Old Testament Introduction	<b>HUM 103</b> Invitation to Humanities	<b>MAT 405</b> Differential Equations	Society Group B or C
SPRING SEMESTER	<b>BIB 113</b> New Testament Introduction	<b>HUM 203</b> Making the West	<b>BIB 300</b> Biblical Worldview	<b>POL 352</b> Great Issues in Politics
	<b>PED 103</b> Physical Fitness	<b>EGR 225</b> Signals and Systems	<b>HUM 303</b> Perspectives	<b>MAT 265</b> Probability and Statistics
	Reason and Rhetoric Option	<b>ELE 309</b> Electr Dev & Circuits I	<b>EGR 330</b> Thermal Fluid Science	<b>EGR 401</b> Christian Ethics and Engg
	<b>CPE 220</b> Digital Systems	<b>CPE 303</b> Microprocessor Systems	<b>ELE 222</b> Linear Circuit Analysis II	<b>EGR 482</b> Senior Design Project
	<b>EGR 101/102</b> Intro to Engineering	<b>PHY 202</b> College Physics II	<b>EGR 316</b> Process Control	ELE/EGR Elective
	<b>MAT 162</b> Calculus II		Elective	

■ Core  
■ Major  
□ Elective

**GENEVA  
COLLEGE**

**OFFICE OF ADMISSIONS**

3200 College Avenue  
Beaver Falls, PA 15010  
800.847.8255

\*Courses listed are examples and subject to change. Your class schedule will be developed with an advisor and may differ from what is listed above.