Grove City College Status Sheet

Status Sheets are provided as a convenience for the student and may be helpful for recording completed courses. However, the College Bulletin is the controlling authority on all requirements. Questions should be directed to your academic advisor or the Registrar.

(WI)=Writing Intensive, (SI)=Speaking Intensive, (IL)=Information Literacy courses.

B.S. in Electrical Engineering
Entering in 2026

(REVISED 03-16-2026)

Name: _____

ID# _____ **Date:** _____

Year of Anticipated Graduation: _____ **Advisor:** _____

TOTAL HOURS REQUIRED FOR THIS DEGREE----------128 HOURS

General Education + Elective Requirements---------- 30 HOURS

Minimum CQPA and MQPA required for graduation----------2.00

MQPA Courses----------ELEE; COMP; ENGR; ROBO

Major Requirements----------98 HOURS

GENERAL EDUCATION REQUIREMENTS---------- 26 HOURS

		Cr.	Sem. Taken	Grade
HUMANITIES CORE---------- 18 HOURS				
HUMA 100	The Humanities: Christian Wisdom	1		
HUMA 200	Western Civilization	3		
HUMA 202	Civilization and Literature	3		
HUMA 204	Civilization and the Arts	3		
HUMA 261	Scripture & Theology for the Chr. Life I	3		
HUMA 271	Scripture & Theology for the Chr. Life II	3		
HUMA 300	Gospel & the Good Life: Christian Ethics	2		
WRITING REQUIREMENT---------- 3 HOURS				
WRIT 101	Found. of Academic Discourse (WI/IL)	3		

FOUNDATIONS OF THE SOCIAL SCIENCES*---------- 3 HOURS

Choose one course from the following:

ECON 120	Foundations of Economics	PSYC 101	Foundations of Psychology
HIST 120	Foundations of History	PSYC 200	Cross-Cultural Psychology
HIST 204	Historical & Phil. Found. of Education	SOCW 101	Foundations of Social Work
POLS 101	Foundations of Political Science	SOCI 101	Foundations of Sociology
		SOCI 103	Found. of Cultural Anthr.

3 _____ _____

NATURAL SCIENCE (with lab)/ QUANTITATIVE/LOGICAL REASONING---- 0 HOURS

(1)	Natural Science with lab	4	(Met through major)
(2)	Quantitative/Logical Reasoning	3-4	(Met through major)
(3)	Third course in Natural Science, Quantitative or Logical Reasoning	3-4	(Met through major)

STUDIES IN SCIENCE, FAITH, & TECHNOLOGY ---------- 2 HOURS

Choose one course from the following:

COMP 205/SSFT 205 Ethics, Faith, and the Conscious Mind

PHIL 243 Science and the Human: Inquiry, Design, & the Person

SSFT 212 Science, Faith, Technology, & Origins

2 _____ _____

GENERAL ELECTIVES---------- 4 HOURS

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MAJOR-RELATED REQUIREMENTS ---------- 39-40 HOURS

Math/Science Core…… 30-31 HOURS

CHEM 105	Chemistry for Engineers **or**			
BIOL 101	General Biology I	4		
ENGR 274	Math Methods in Engineering **or**			
MATH 214	Applied Prob. & Linear Algebra	3-4		
MATH 161	Calculus I	4		
MATH 162	Calculus II	4		
MATH 261	Calculus III	4		
MATH 262	Differential Equations	3		
PHYS 101	General Physics I	4		

ELECTRICAL ENGINEERING CORE---------- 36 HOURS

		Cr.	Sem. Taken	Grade
COMP 141	Computer Programming I	3		
ELEE 201	Linear Circuits I	3		
ELEE 202	Linear Circuits II (IL)	3		
ELEE 204	Digital Logic	3		
ELEE 221	Signal Analysis	3		
ELEE 251	Lab Skills and Prototyping (IL)	1		
ELEE 301	Electronics I	3		
ELEE 302	Electronics II	3		
ELEE 303	Electric Machines	3		
ELEE 304	Electromagnetic Theory	3		
ELEE 351	Lab Design Experiences (IL)	1		
ENGR 401	Engineering Design	1		
ENGR 451	Capstone Design Laboratory I (WI/SI)	3		
ENGR 452	Capstone Design Laboratory II (SI)	3		

CONCENTRATION REQUIREMENT (Choose one of the following)---------- 13 HOURS

Automation Concentration:			
	ELEE 310 Microcontrollers	3	
	ENGR 317 Mechatronics II	3	
	ENGR 305 Labview	1	
	ENGR 411 Control Systems	3	
	ENGR 412 Modern Control Theory	3	
Communications Concentration:			
	COMP 342 Data Communication and Networking	3	
	ELEE 404 RF Engineering	3	
	ELEE 416 Antenna Analysis and Design	1	
	ELEE 431 Communications Systems I	3	
	ELEE 432 Communications Systems II	3	
Technical Entrepreneurship:			
	ELEE 431 Communications Systems I	3	
	ENGR 411 Control Systems	3	
	ENTR 304 Intellectual Property Protection	1	
	ENTR 466 Business Planning	3	
	ENTR 201 Lean Launchpad **OR**		
	ENTR 303 Law for Entrepreneurs	3	

Technical Electives…… 9-10 HOURS

Choose 9-10 hours from any 200-400 level ELEE, ENGR, ROBO, MECE, or COMP course (excluding ENGR 216 and COMP 205).

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Engineering (ENGR) Core…… 9 HOURS

ENGR 120	Numerical Computing for Engineers	3		
ENGR 156	Introduction to Engineering	2		
ENGR 301	Ethics in Engineering	1		
ENGR 402	Engineering Senior Seminar	1		
MECE 109	Intro to Solid Modeling **OR**			
ENGR 209	SolidWorks: Modeling and Simulation	2		

MAJOR-RELATED REQUIREMENTS CONTINUED----------

PHYS 102	General Physics II	4		

SAMPLE FOUR-YEAR PLAN for the BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING

Freshman Year

Fall	Credits	Spring	Credits
MATH 161 Calculus I	4	MATH 162 Calculus II	4
PHYS 101 General Physics I	4	PHYS 102 General Physics II	4
Writing Requirement	3	General Elective	1
ENGR 120 Numerical Computing for Engineers	3	HUMA 100 The Humanities: Christian Wisdom	1
ENGR 156 Intro to Engineering	2	ELEE 204 Digital Logic	3
	16	COMP 141 Computer Programming I	3
			16

Sophomore Year

Fall	Credits	Spring	Credits
MATH 261 Calculus III	4	MATH 262 Differential Equations	3
ELEE 201 Linear Circuits I	3	ELEE 202 Linear Circuits II	3
ELEE 251 Lab Skills and Prototyping	1	Foundations of Social Science Course	3
CHEM 105 Chem for Engr/BIOL 101 Gen. Biology	4	ELEE 221 Signal Analysis	3
HUMA Course	3	MECE 109 or ENGR 209	2
SSFT Course	2	HUMA Course	3
	17		17

Junior Year

Fall	Credits	Spring	Credits
ELEE 301 Electronics I	3	ELEE 302 Electronics II	3
ELEE 303 Electrical Machines	3	ELEE 304 Electromagnetic Theory	3
ELEE 351 Lab Design Experiences	1	ENGR 274 Math Methods in Engr/MATH 214 Applied Prob	3 - 4
ENGR 301 Ethics in Engineering	1	Concentration Course	3
Concentration Course	3	Concentration Course	1
HUMA Course	3	HUMA Course	3
	14		16 - 17

Senior Year

Fall	Credits	Spring	Credits
ENGR 401 Engineering Design	1	ENGR 452 Capstone Design Project II	3
ENGR 451 Capstone Design Project I	3	ENGR 402 Engineering Senior Seminar	1
Concentration Course	3	Concentration Course	3
Technical Electives	6-7	Technical Electives	3
HUMA Course	3	HUMA 300 Gospel and the Good Life: Christian Ethics	2
	16-17	General Elective	3
			15

*Technical electives can be any 200-400 level ELEE, ENGR, ROBO, MECE, or COMP course, excluding ENGR 216 and COMP 205.

Students are expected to use this status sheet in conjunction with the College *Bulletin* and to contact their advisors for a detailed schedule of courses recommended to meet requirements for this major.

TOTAL CREDIT HOURS REQUIRED = 128