

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.

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

B.S. in Electrical Engineering - EEEE Electrical Engineering Concentration Entering in 2022

(REVISED 03-21-2022)

Name: _____

ID# _____

Year of Anticipated Graduation: _____

Date: _____

Advisor: _____

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

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

General Education + Elective Requirements----- 28-29 HOURS

MQPA Courses-----ELEE; ENGR 390; COMP 141, 220, 222, 340; ROBO

Major Requirements-----99-100 HOURS

GENERAL EDUCATION REQUIREMENTS----- 24 HOURS

ELECTRICAL / COMPUTER ENGINEERING CORE----- 28 HOURS

	Cr.	Sem. Taken	Grade
HUMANITIES CORE----- 15 HOURS			
HUMA 102 Civ and the Biblical Revelation (IL)*	3	_____	_____
HUMA 200 Western Civilization	3	_____	_____
HUMA 202 Civilization and Literature	3	_____	_____
HUMA 301 Civilization and the Arts	3	_____	_____
HUMA 303 Christianity and Civilization	3	_____	_____

	Cr.	Sem. Taken	Grade
COMP 141 Computer Programming I	3	_____	_____
ELEE 201 Linear Circuits I	3	_____	_____
ELEE 204 Digital Logic Design	3	_____	_____
ELEE 251 Linear Circuits Lab (IL)	1	_____	_____
ELEE 252 Digital Circuits Lab (IL)	1	_____	_____
ELEE 301 Electronics I	3	_____	_____
ELEE 304 Electromagnetic Theory	3	_____	_____
ELEE 321 Signal Analysis	3	_____	_____
ELEE 351 Intermediate Lab I (IL)	1	_____	_____
ELEE 401 Electrical Engineering Design (W, SI)	3	_____	_____
ENGR/ROBO 451 Capstone Design Laboratory I	1	_____	_____
ENGR/ROBO 452 Capstone Design Laboratory II (SI)	3	_____	_____

*The year-long sequence of RELI 211 and 212 may substitute for this course.

WRITING REQUIREMENT----- 3 HOURS

WRIT 101 Found. of Academic Discourse (IL) 3 _____

STUDIES IN SCIENCE, FAITH, & TECHNOLOGY (SSFT)----- 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 210 Science & Religion			
SSFT 212 Science, Faith, Technology, & Origins			
	2	_____	_____

ELECTRICAL ENGINEERING CONCENTRATION (EEEE)----- 34 HOURS

Core Requirements----- 10 HOURS

ELEE 202 Linear Circuits II (IL)	3	_____	_____
ELEE 302 Electronics II	3	_____	_____
ELEE 303 Electrical Machines	3	_____	_____
ELEE 352 Intermediate Lab II	1	_____	_____

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

Choose one course from the following:

ECON 120 Foundations of Economics			
HIST 120 Foundations of History			
HIST 141 World Geography			
HIST 204 Hist/Phil Foundations of Education			
POLS 101 Foundations of Political Science			
PSYC 101 Foundations of Psychology			
PSYC 200 Cross-Cultural Psychology			
SOCI 101 Foundations of Sociology			
SOCI 103 Found. of Cultural Anthr.			
SOCW 101 Found. of Social Work			
	3	_____	_____

Math/Science Elective----- 3 HOURS

Choose one course from ASTR 206, 207; BIOL 101, 102; CHEM 227, 241, 345; MATH 210, 213, 222; STAT 331; PHYS 234, or 402.

QUANTITATIVE/LOGICAL REASONING----- 0 HOURS

Satisfied by major-related requirements.

Technical Electives----- 15 HOURS

Choose fifteen hours from any 200-400 level ELEE, ENGR, ROBO, MECE, or COMP course (excluding ELEE 210 and COMP 205).

NATURAL SCIENCES (with labs)----- 0 HOURS

Satisfied by major-related requirements.

Advanced Electives----- 6 HOURS

Choose two courses from ELEE 404, 432, 442, or ENGR 412.

PHYSICAL EDUCATION----- 1 HOURS

PHYE 100 Healthful Living 1 _____

	3	_____	_____
	3	_____	_____

GENERAL ELECTIVES----- 4-5 HOURS

MAJOR-RELATED REQUIREMENTS----- 37-38 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	_____	_____
PHYS 102 General Physics II	4	_____	_____

MAJOR-RELATED REQUIREMENTS (cont)

Engineering (ENGR) Core----- 7 HOURS

ENGR 120 Numerical Computing for Engineers	3	_____	_____
ENGR 156 Introduction to Engineering	2	_____	_____
ENGR 301 Ethics in Engineering and Robots	1	_____	_____
ENGR 402 Engineering Economy	1	_____	_____

SAMPLE FOUR-YEAR PLAN for the BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING w/ Electrical Engineering Concentration

Freshman Year

<u>Fall</u>	<u>Credits</u>	<u>Spring</u>	<u>Credits</u>
MATH 161 Calculus I.....	4	MATH 162 Calculus II	4
CHEM 105 Chem for Engr/BIOL 101 Gen. Biology.....	4	PHYS 101 General Physics I.....	4
HUMA 102 Civ and the Biblical Revelation.....	3	WRIT 101 Foundations of Academic Discourse.....	3
ENGR 120 Numerical Computing for Engineers.....	3	PHYE 100 Healthful Living.....	1
ENGR 156 Intro to Engineering.....	<u>2</u>	COMP 141 Computer Programming I.....	<u>3</u>
	16		15

Sophomore Year

<u>Fall</u>	<u>Credits</u>	<u>Spring</u>	<u>Credits</u>
MATH 261 Calculus III.....	4	MATH 262 Differential Equations	3
ELEE 201 Linear Circuits I.....	3	ELEE 202 Linear Circuits II.....	3
ELEE 251 Linear Circuits Lab.....	1	ELEE 204 Digital Logic Design.....	3
PHYS 102 General Physics II.....	4	ELEE 252 Digital Circuits Lab.....	1
HUMA 200 Western Civilization.....	3	ELEE 321 Signal Analysis.....	3
SSFT Course.....	<u>2</u>	Math/Science Elective.....	<u>3</u>
	17		16

Junior Year

<u>Fall</u>	<u>Credits</u>	<u>Spring</u>	<u>Credits</u>
ELEE 301 Electronics I.....	3	ELEE 302 Electronics II.....	3
ELEE 303 Electrical Machines.....	3	ELEE 304 Electromagnetic Theory.....	3
ELEE 351 Intermediate Lab I.....	1	ELEE 352 Intermediate Lab II.....	1
ENGR 301 Ethics in Engineering and Robotics.....	1	Technical Elective*.....	3
Technical Elective*.....	3	ENGR 274 Math Methods in Engr/MATH 214 Applied Prob.....	3 - 4
Foundations of Social Science Course.....	3	HUMA 202 Civilization and Literature.....	<u>3</u>
HUMA 301 Civilization and the Arts.....	<u>3</u>		16 - 17
	17		

Senior Year

<u>Fall</u>	<u>Credits</u>	<u>Spring</u>	<u>Credits</u>
ELEE 401 Electrical/Computer Eng Design.....	3	ENGR/ROBO 452 Capstone Design Project II.....	3
ENGR/ROBO 451 Capstone Design Project I.....	1	ENGR 402 Engineering Economy.....	1
Technical Electives*.....	6	Technical Elective*.....	3
General Electives.....	<u>4 - 5</u>	Advanced Electives**.....	6
	14 - 15	HUMA 303 Christianity and Civilization.....	<u>3</u>
			16

*Technical electives can be any 200-400 level ELEE, ENGR, ROBO, MECE, or COMP course, excluding ELEE 210 and COMP 205.

**Advanced electives can be chosen from ELEE 404, 422, 432, or 442.

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