

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 - EECE
Computer 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----- 29-30 HOURS

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

Major Requirements-----98-99 HOURS

GENERAL EDUCATION REQUIREMENTS----- 24 HOURS

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

HUMANITIES CORE----- 15 HOURS

	Cr.	Sem. Taken	Grade
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	_____	_____

COMPUTER ENGINEERING CONCENTRATION (EECE)----- 33 HOURS

WRITING REQUIREMENT----- 3 HOURS

WRIT 101 Found. of Academic Discourse (IL)	3	_____	_____
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Core Requirements----- 18 HOURS

STUDIES IN SCIENCE, FAITH, & TECHNOLOGY (SSFT)----- 2 HOURS

Choose one course from the following:

COMP 205/SSFT 205 Ethics, Faith, and the Conscious Mind	2	_____	_____
PHIL 243 Science and the Human: Inquiry, Design, & the Person			
SSFT 210 Science & Religion			
SSFT 212 Science, Faith, Technology, & Origins			

COMP 220 Computer Programming II	3	_____	_____
COMP 222 Intro to Data Structures & Algorithms	3	_____	_____
COMP 340 Operating Systems	3	_____	_____
ELEE 310 Microcontrollers w/ Robotic Applications	3	_____	_____
ELEE 441 Computer Architecture	3	_____	_____
ELEE 442 Parallel Computer Architecture	3	_____	_____

Math/Science Elective----- 3 HOURS

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 141 World Geography	SOCI 101 Foundations of Sociology		
HIST 204 Hist/Phil Foundations of Education	SOCI 103 Found. of Cultural Anthr.		
POLS 101 Foundations of Political Science	SOCW 101 Found. of Social Work		

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

STAT 331; PHYS 234, or 402.

Technical Elective Requirements----- 9 HOURS

QUANTITATIVE/LOGICAL REASONING----- 0 HOURS

Satisfied by major-related requirements.

Choose nine 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 Elective Requirement----- 3 HOURS

Choose one course from ELEE 404, ELEE 432, or ENGR 412.

PHYSICAL EDUCATION----- 1 HOURS

PHYE 100 Healthful Living	1	_____	_____
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MAJOR-RELATED REQUIREMENTS-----37-38 HOURS

GENERAL ELECTIVES----- 5-6 HOURS

_____	_____	_____
_____	_____	_____
_____	_____	_____

MATH/SCIENCE CORE----- 30-31 HOURS

CHEM 105 Chemistry for Engineers <u>or</u>		
BIOL 101 General Biology I	4	_____
ENGR 274 Math Methods in Engineering <u>or</u>		
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	_____

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/ Computer 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/BIOLOGY 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 204 Digital Logic Design.....	3
ELEE 251 Linear Circuits Lab.....	1	ELEE 252 Digital Circuits Lab.....	1
COMP 220 Computer Programming II.....	3	ELEE 321 Signal Analysis.....	3
PHYS 102 General Physics II.....	4	COMP 222 Intro to Data Structures & Algorithms.....	3
SSFT Course.....	<u>2</u>	HUMA 200 Western Civilization.....	<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 304 Electromagnetic Theory.....	3
ELEE 351 Intermediate Lab I.....	1	ELEE 310 Microcontrollers w/ Robotic Appl.....	3
ENGR 301 Ethics in Engineering and Robotics.....	1	ENGR 274 Math Methods in Engr/MATH 214 Applied Prob.....	3 - 4
Technical Elective*.....	3	COMP 340 Operating Systems.....	3
Math/Science Elective.....	3	HUMA 202 Civilization and Literature.....	<u>3</u>
HUMA 301 Civilization and the Arts.....	3		15 - 16
Foundations of Social Science Course.....	<u>3</u>		
	17		

Senior Year

<u>Fall</u>	<u>Credits</u>	<u>Spring</u>	<u>Credits</u>
ELEE 401 Electrical/Computer Eng Design.....	3	ELEE 442 Parallel Computer Architecture.....	3
ELEE 441 Computer Architecture.....	3	ENGR/ROBO 452 Capstone Design Project II.....	3
ENGR/ROBO 451 Capstone Design Project I.....	1	ENGR 402 Engineering Economy.....	1
Technical Electives*.....	3	Technical Elective*.....	3
General Electives.....	<u>5 - 6</u>	Advanced Elective**.....	3
	15 - 16	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, or 432.

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