

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 - EEEE Electrical Engineering Concentration Entering in 2019

(REVISED 06-01-19)

Name: _____

ID# _____

Date: _____

Year of Anticipated Graduation: _____

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 (WI, SI)	3	_____	_____
ELEE/ROBO 451 Capstone Design Project I	1	_____	_____
ELEE/ROBO 452 Capstone Design Project 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 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
_____ 3 _____

Math/Science Elective----- 3 HOURS
Choose one course from ASTR 206, 207; BIOL 101, 102; CHEM 227, 241, 345; MATH 210, 213, 222, 331; PHYS 234, or 402.

QUANTITATIVE/LOGICAL REASONING----- 0 HOURS
Satisfied by major-related requirements.

Technical Electives----- 15 HOURS
Choose 15 hours from any 200-400 level ELEE, ROBO, MECE, or COMP course (excluding ELEE 210).

NATURAL SCIENCES (with labs)----- 0 HOURS
Satisfied by major-related requirements.

PHYSICAL EDUCATION----- 1 HOURS
PHYE 100 Healthful Living 1 _____

Advanced Electives----- 6 HOURS
Choose two courses from ELEE 404, 422, 432, or 442.
_____ 3 _____
_____ 3 _____

GENERAL ELECTIVES----- 4-5 HOURS

MAJOR-RELATED REQUIREMENTS-----37-38 HOURS

MAJOR-RELATED REQUIREMENTS (cont)
Engineering (ENGR) Core----- 7 HOURS
ENGR 156 Introduction to Engineering 2 _____
ENGR 301 Ethics in Engineering and Robots 1 _____
ENGR 402 Engineering Economy 1 _____
MECE 120 Numerical Computer for Engineers 3 _____

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 _____

**SUGGESTED 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>
Mathematics 161.....	4	Mathematics 162.....	4
Chemistry 105 or Biology 101.....	4	Physics 101.....	4
Humanities 102.....	3	Writing 101.....	3
Mechanical Engineering 120.....	3	Physical Education 100.....	1
Engineering 156.....	<u>2</u>	Computer Science 141.....	<u>3</u>
	16		15

Sophomore Year

<u>Fall</u>	<u>Credits</u>	<u>Spring</u>	<u>Credits</u>
Mathematics 261.....	4	Mathematics 262.....	3
Electrical Engineering 201.....	3	Electrical Engineering 202.....	3
Electrical Engineering 251.....	1	Electrical Engineering 204.....	3
Physics 102.....	4	Electrical Engineering 252.....	1
Humanities 200.....	3	Electrical Engineering 321.....	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>
Electrical Engineering 301.....	3	Electrical Engineering 302.....	3
Electrical Engineering 303.....	3	Electrical Engineering 304.....	3
Electrical Engineering 351.....	1	Electrical Engineering 352.....	1
Engineering 301.....	1	Technical Elective*.....	3
Technical Elective*.....	3	Mathematics 214 or Engineering 274.....	3
Foundations of Social Science Course.....	3	Humanities 202.....	<u>3</u>
Humanities 301.....	<u>3</u>		16
	17		

Senior Year

<u>Fall</u>	<u>Credits</u>	<u>Spring</u>	<u>Credits</u>
Electrical Engineering 401.....	3	Electrical Engineering or Robotics 452.....	3
Electrical Engineering or Robotics 451.....	1	Engineering 402.....	1
Technical Electives*.....	6	Technical Elective*.....	3
General Electives.....	<u>5</u>	Advanced Electives**.....	6
	15	Humanities 303.....	<u>3</u>
			16

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

**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