

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 2023

(REVISED 04-17-2023)

Name: _____

ID# _____

Year of Anticipated Graduation: _____

Date: _____

Advisor: _____

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

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

GENERAL EDUCATION REQUIREMENTS----- 24 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	_____	_____

*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	_____	_____
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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	_____	_____
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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	_____	_____
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QUANTITATIVE/LOGICAL REASONING----- 0 HOURS

Satisfied by major-related requirements.

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

Satisfied by major-related requirements.

PHYSICAL EDUCATION----- 1 HOURS

PHYE 100	Healthful Living	1	_____	_____
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GENERAL ELECTIVES----- 5-7 HOURS

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

MQPA Courses-----ELEE; ENGR 390; ROBO

Major Requirements-----97-99 HOURS

ELECTRICAL / COMPUTER 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	3	_____	_____
ELEE 204	Digital Logic	3	_____	_____
ELEE 221	Signal Analysis	3	_____	_____
ELEE 251	Lab Skills and Prototyping	1	_____	_____
ELEE 301	Electronics I	3	_____	_____
ELEE 302	Electronics II	3	_____	_____
ELEE 303	Electric Machines	3	_____	_____
ELEE 304	Electromagnetic Theory	3	_____	_____
ELEE 351	Intermediate Laboratory I	1	_____	_____
ENGR 401	Engineering Design (WI/SI)	3	_____	_____
ENGR/ROBO 451	Capstone Design Laboratory I	1	_____	_____
ENGR/ROBO 452	Capstone Design Laboratory II (SI)	3	_____	_____

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

Automation Concentration:

ELEE 310	Microcontrollers	3	_____	_____
ENGR 217	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	_____	_____
ENR 304	Intellectual Property Protection	1	_____	_____
ENR 466	Business Planning	3	_____	_____
ENR 201	Lean Launchpad <u>OR</u>			
ENR 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).

MAJOR-RELATED REQUIREMENTS CONTINUED-----

PHYS 102	General Physics II	4	_____	_____
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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 and Robots	1	_____	_____
ENGR 402	Engineering Economy	1	_____	_____
MECE 109	Intro to Solid Modeling	2	_____	_____

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

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 Lab Skills and Prototyping.....	1	ELEE 204 Digital Logic	3
PHYS 102 General Physics II.....	4	ELEE 221 Signal Analysis.....	3
HUMA 200 Western Civilization.....	3	MECE 109 Intro to Solid Modeling	2
SSFT Course.....	<u>2</u>	HUMA 202 Civilization and Literature.....	<u>3</u>
	17		17

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 Laboratory I.....	1	ENGR 274 Math Methods in Engr/MATH 214 Applied Prob.....	3 - 4
ENGR 301 Ethics in Engineering and Robotics.....	1	Concentration Course.....	3
Concentration Course.....	3	Concentration Course.....	1
Foundations of Social Science Course.....	<u>3</u>	HUMA 301 Civilization and the Arts.....	<u>3</u>
	14		16 - 17

Senior Year

<u>Fall</u>	<u>Credits</u>	<u>Spring</u>	<u>Credits</u>
ENGR 401 Engineering Design.....	3	ENGR/ROBO 452 Capstone Design Project II.....	3
ENGR/ROBO 451 Capstone Design Project I.....	1	ENGR 402 Engineering Economy.....	1
Concentration Course.....	3	Concentration Course.....	3
Technical Electives.....	6-7	Technical Electives.....	3
General Electives.....	<u>3</u>	HUMA 303 Christianity and Civilization.....	3
	16-17	General Electives.....	<u>3</u>
			16

*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