

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 - EECE Computer Engineering Concentration Entering in 2020

(REVISED 03-01-2020)

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-----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

		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	_____	_____

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

		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 45	Capstone Design Project I	1	_____	_____
ELEE/ROBO 45	Capstone Design Project II (SI)	3	_____	_____

WRITING REQUIREMENT-----3 HOURS

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

Core Requirements-----18 HOURS

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

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	_____	_____

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 102; CHEM 227, 241, 345; MATH 210, 213, 222, 331; PHYS 234, or 402.

QUANTITATIVE/LOGICAL REASONING-----0 HOURS

Technical Elective Requirements-----9 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

Advanced Elective Requirement-----3 HOURS

Satisfied by major-related requirements.

Choose one course from ELEE 404, 422, or 432.

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 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	_____	_____

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>
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 204.....	3
Electrical Engineering 251.....	1	Electrical Engineering 252.....	1
Computer Science 220.....	3	Electrical Engineering 321.....	3
Physics 102.....	4	Computer Science 222.....	3
SSFT Course.....	<u>2</u>	Humanities 200.....	<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 304.....	3
Electrical Engineering 351.....	1	Electrical Engineering 310.....	3
Engineering 301.....	1	Mathematics 214 or Engineering 274.....	4
Technical Elective*.....	3	Computer Science 340.....	3
Math/Science Elective.....	3	Humanities 202.....	<u>3</u>
Humanities 301.....	3		16
Foundations of Social Science Course.....	<u>3</u>		
	17		

Senior Year

<u>Fall</u>	<u>Credits</u>	<u>Spring</u>	<u>Credits</u>
Electrical Engineering 401.....	3	Electrical Engineering 442.....	3
Electrical Engineering 441.....	3	Electrical Engineering or Robotics 452.....	3
Electrical Engineering or Robotics 451.....	1	Engineering 402.....	1
Technical Electives*.....	3	Technical Elective*.....	3
General Electives.....	<u>5</u>	Advanced Elective**.....	3
	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, 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