

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 Computer Engineering Entering in 2024

(REVISED 04-15-2024)

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----- 30 HOURS

MQPA Courses-----ELEE; COMP; ENGR; ROBO

Major Requirements-----98 HOURS

GENERAL EDUCATION REQUIREMENTS----- 24 HOURS

COMPUTER ENGINEERING CORE----- 58 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

ELEE 201 Linear Circuits I	3	_____	_____
ELEE 204 Digital Logic	3	_____	_____
ELEE 221 Signal Analysis	3	_____	_____
ELEE 251 Lab Skills and Prototyping (IL)	1	_____	_____
ELEE 301 Electronics I	3	_____	_____
ELEE 310 Microcontrollers	3	_____	_____
ELEE 351 Lab Design Experiences (IL)	1	_____	_____
ELEE 441 Computer Architecture	3	_____	_____
ELEE 442 Parallel Computer Architecture	3	_____	_____
COMP 141 Computer Programming I	3	_____	_____
COMP 220 Computer Programming II	3	_____	_____
COMP 222 Intro to Data Structures & Algorithms	3	_____	_____
COMP 230 Advanced Programming	3	_____	_____
COMP 340 Operating Systems	3	_____	_____
COMP 342 Data Networks	3	_____	_____
COMP 350 Software Engineering (W/SI)	3	_____	_____
COMP 448 Computer Security	3	_____	_____
ENGR 156 Intro to Engineering	2	_____	_____
ENGR 301 Ethics in Engineering and Robotics	1	_____	_____
ENGR 401 Electrical/Computer Eng Design (W/SI)	3	_____	_____
ENGR 402 Engineering Economy	1	_____	_____
ENGR 451 Capstone Design Project I (SI)	1	_____	_____
ENGR 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 (W/IL)	3	_____	_____
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STUDIES IN SCIENCE, FAITH, & TECHNOLOGY (SSFT)----- 2 HOURS

Choose one course from the following:

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

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		_____	_____

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----- 6 HOURS

_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Technical Elective Requirements----- 6 HOURS

Choose six hours from any 200-400 level ELEE, ENGR, ROBO, or COMP course (excluding ENGR 216 and COMP 205).

MATH/SCIENCE CORE----- 34 HOURS

MATH 213 Discrete Mathematics	4	_____	_____
MATH 214 Applied Prob. & Linear Algebra	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	_____	_____
ENGR 120 Numerical Computing for Engineers	3	_____	_____

SAMPLE FOUR-YEAR PLAN for the BACHELOR OF SCIENCE IN COMPUTER 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
PHYS 101 General Physics I.....	4	PHYS 102 General Physics II.....	4
HUMA 102 Civ and the Biblical Revelation.....	3	WRIT 101 Foundations of Academic Discourse.....	3
ENGR 120 Numerical Computing for Engineers.....	3	COMP 141 Computer Programming I.....	3
ENGR 156 Intro to Engineering.....	<u>2</u>	PHYE 100 Healthful Living.....	<u>1</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	3
ELEE 251 Lab Skills and Prototyping.....	1	ELEE 221 Signal Analysis.....	3
COMP 220 Computer Programming II.....	3	COMP 230 Advanced Programming.....	3
Foundations of Social Science Course.....	3	HUMA 202 Civilization and Literature.....	<u>3</u>
HUMA 200 Western Civilization.....	<u>3</u>		15
	17		

Junior Year

<u>Fall</u>	<u>Credits</u>	<u>Spring</u>	<u>Credits</u>
ELEE 301 Electronics I.....	3	MATH 214 Applied Prob. & Linear Algebra.....	4
ELEE 351 Lab Design Experiences.....	1	COMP 340 Operating Systems.....	3
COMP 222 Intro to Data Structures & Algorithms.....	3	COMP 342 Data Networks.....	3
MATH 213 Discrete Mathematics	4	Technical Elective *.....	3
ELEE 310 Microcontrollers.....	3	HUMA 303 Christianity and Civilization.....	3
HUMA 301 Civilization and the Arts.....	<u>3</u>	ENGR 301 Ethics in Engineering and Robotics.....	<u>1</u>
	17		17

Senior Year

<u>Fall</u>	<u>Credits</u>	<u>Spring</u>	<u>Credits</u>
ELEE 441 Computer Architecture.....	3	ELEE 442 Parallel Computer Architecture.....	3
ENGR 401 Electrical/Computer Eng Design.....	3	ENGR 402 Engineering Economy.....	3
ENGR 451 Capstone Design Project I.....	1	ENGR 452 Capstone Design Project II.....	1
COMP 448 Computer Security.....	3	COMP 350 Software Engineering.....	3
Technical Elective *	3	General Elective.....	3
General Elective	<u>3</u>	SSFT Course.....	<u>2</u>
	16		15

*Technical electives can be any 200-400 level ELEE, COMP, ENGR, or ROBO 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