

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 2022

(REVISED 03-21-2022)

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

Major Requirements-----98 HOURS

GENERAL EDUCATION REQUIREMENTS----- 24 HOURS

COMPUTER ENGINEERING CORE----- 58 HOURS

Cr. Sem. Taken Grade

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.

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	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	_____	_____	_____
_____	_____	2	_____	_____

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	_____	_____	

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

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

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 310	Microcontrollers w/ Robotic Appl	3	_____	_____
ELEE 321	Signal Analysis	3	_____	_____
ELEE 351	Intermediate Lab I (IL)	1	_____	_____
ELEE 401	Electrical/Computer Eng Design (SI) (WI)	3	_____	_____
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 340	Operating Systems	3	_____	_____
COMP 342	Data Networks	3	_____	_____
COMP 350	Software Engineering (SI) (WI) (IL)	3	_____	_____
COMP 448	Computer Security	3	_____	_____
ENGR 130	Intro to Computer Programming	2	_____	_____
ENGR 156	Intro to Engineering	2	_____	_____
ENGR 301	Ethics in Engineering and Robotics	1	_____	_____
ENGR 402	Engineering Economy	1	_____	_____
ENGR 451	Capstone Design Project I	1	_____	_____
ENGR 452	Capstone Design Project II	3	_____	_____

Technical Elective Requirements----- 6 HOURS

Choose six hours from any 200-400 level ELEE, ENGR, ROBO, MECE, or COMP course (excluding ELEE 210 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 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
ENGR 130 Intro to Computer Programming.....	2	MATH 214 Applied Prob. & Linear Algebra.....	4
HUMA 200 Western Civilization.....	<u>3</u>	HUMA 202 Civilization and Literature.....	<u>3</u>
	16		17

Junior Year

<u>Fall</u>	<u>Credits</u>	<u>Spring</u>	<u>Credits</u>
ELEE 301 Electronics I.....	3	ELEE 310 Microcontrollers w/ Robotic Appl.....	3
ELEE 351 Intermediate Lab I.....	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
Foundations of Social Science Course.....	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		16

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 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 ELEE 210 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