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 Computer Engineering
Entering in 2025

(REVISED 02-21-2025)

Name: _____

ID# _____ **Date:** _____

Year of Anticipated Graduation: _____ **Advisor:** _____

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

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

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

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

Major Requirements---------- 98 HOURS

GENERAL EDUCATION REQUIREMENTS---------- 26 HOURS

		Cr.	Sem. Taken	Grade
HUMANITIES CORE---------- 18 HOURS				
HUMA 100	The Humanities: Christian Wisdom	1		
HUMA 200	Western Civilization	3		
HUMA 202	Civilization and Literature	3		
HUMA 204	Civilization and the Arts	3		
HUMA 261	Scripture & Theology for the Chr. Life I	3		
HUMA 271	Scripture & Theology for the Chr. Life II	3		
HUMA 300	Gospel & the Good Life: Christian Ethics	2		
WRITING REQUIREMENT---------- 3 HOURS				
WRIT 101	Found. of Academic Discourse (WI/IL)	3		

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 204	Historical & Phil. Found. of Education	SOCW 101	Foundations of Social Work
POLS 101	Foundations of Political Science	SOCI 101	Foundations of Sociology
		SOCI 103	Found. of Cultural Anthr.

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NATURAL SCIENCE (with lab)/ QUANTITATIVE/LOGICAL REASONING---- 0 HOURS

(1) Natural Science with lab	4	(Met through major)
(2) Quantitative/Logical Reasoning	3-4	(Met through major)
(3) Third course in Natural Science, Quantitative or Logical Reasoning	3-4	(Met through major)

STUDIES IN SCIENCE, FAITH, & TECHNOLOGY ---------- 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

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GENERAL ELECTIVES---------- 4 HOURS

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COMPUTER ENGINEERING CORE---------- 58 HOURS

		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 (WI/SI)	3		
COMP 448	Computer Security	3		
ENGR 156	Intro to Engineering	2		
ENGR 301	Ethics in Engineering	1		
ENGR 401	Engineering Design	1		
ENGR 402	Engineering Senior Seminar	1		
ENGR 451	Capstone Design Project I (WI/SI)	3		
ENGR 452	Capstone Design Project II (SI)	3		

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).

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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

Fall	Credits	Spring	Credits
MATH 161 Calculus I	4	MATH 162 Calculus II	4
PHYS 101 General Physics I	4	PHYS 102 General Physics II	4
Writing Requirement	3	ELEE 204 Digital Logic	3
ENGR 120 Numerical Computing for Engineers	3	COMP 141 Computer Programming I	3
ENGR 156 Intro to Engineering	2	HUMA 100 The Humanities: Christian Wisdom	1
	16	General Elective	1
			16

Sophomore Year

Fall	Credits	Spring	Credits
MATH 261 Calculus III	4	MATH 262 Differential Equations	3
ELEE 201 Linear Circuits I	3	COMP 342 Data Networks	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 Course	3
HUMA Course	3		15
	17		

Junior Year

Fall	Credits	Spring	Credits
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	HUMA Course	3
MATH 213 Discrete Mathematics	4	Technical Elective *	3
ELEE 310 Microcontrollers	3	SSFT Course	2
HUMA Course	3	ENGR 301 Ethics in Engineering	1
	17		16

Senior Year

Fall	Credits	Spring	Credits
ELEE 441 Computer Architecture	3	ELEE 442 Parallel Computer Architecture	3
ENGR 401 Engineering Design	1	ENGR 402 Engineering Senior Seminar	1
ENGR 451 Capstone Design Project I	3	ENGR 452 Capstone Design Project II	3
COMP 448 Computer Security	3	COMP 350 Software Engineering	3
Technical Elective *	3	General Elective	3
HUMA Course	3	HUMA 300 Gospel and the Good Life: Christian Ethics	2
	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