		First	Year					
Fall Semester (Credit Hours:18)			Spring Semester (Credit Hours:18)					
MATH 10550	Calculus I	4	MATH 10560	Calculus II	4			
CHEM 10171	Intro to Chemical Principles	4		Technical Elective	3			
EG 10117	Engineering Design	3	EG 10118	Engineering Computing	3			
	Core Curriculum Course	3	PHYS 10310	Engineering Physics I	4			
USEM or WR 13100	University Seminar or Writing & Rhetoric (or WRIT)	3	USEM or WR 13100	University Seminar or Writing & Rhetoric (or WRIT)	3			
FYS 10101	Moreau First Year Experience	1	FYS 10102	Moreau First Year Experience	1			
	So	phom	ore Year					
Fall Semester (Credit Hours:17.5)			Spring Semester (Credit Hours:17.5)					
MATH 20550	Calculus III	3.5	MATH 20580	Intro to Linear Algebra and Differential Equations	3.5			
PHYS 10320	Engineering Physics II	4	CSE 20221	Logic Design	4			
CSE 20110	Discrete Mathematics	3	CSE 20289	Systems Programming	3			
CSE 20311	Fundamentals of Computing	4	CSE 20312	Data Structures	4			
	Core Curriculum Course	3		Core Curriculum Course	3			
		Junio	r Year					
Fall Semester (Credit Hours:16)			Spring Semester (Credit Hours:15)					
	CSE Elective	3	CSE 30151	Theory of Computing	3			
	CSE Elective	3	CSE 30332	Programming Paradigms	3			
	Technical Elective	3	CSE 30341	Operating Systems	3			
CSE 30321	Computer Architecture	4	ACMS 30440	Probability and Statistics	3			
	Core Curriculum Course	3		Core Curriculum Course	3			
Senior Year								
Fall Semester (Credit Hours:15)			Spring Semester (Credit Hours:12)					
	CSE Elective	3		CSE Elective	3			
	CSE Elective	3		CSE Elective	3			
	Technical Elective	3	CSE 40175	Ethical and Social Issues	3			
CSE 40113	Algorithms	3		Core Curriculum Course	3			
	Free Elective	3		Total credit hours	129			

2.10 CS Course Plan for Class of 2026 and Beyond

CS Program Requirements for Class of 2026 and Beyond

To earn the BS CS, students must complete the following requirements

- 1. *Completion of University Core Curriculum requirements (26 credits)*. Note the Liberal Arts 1, 2 and 3 requirements will be covered by courses required by the College of Engineering and the Department of Computer Science Engineering.
- 2. *Completion of the College of Engineering requirements (22 credits)*. Students must complete the following courses:
 - EG 10117 Engineering Design (3 credits)
 - EG 10118 Engineering Programming (3 credits)
 - MATH 10550 Calculus I (4 credits)
 - MATH 10560 Calculus II (4 credits)
 - CHEM 10171/11171 Introduction to Chemical Principles (4 credits)
 - PHYS 10310 General Physics I (4 credits)

Additional College of Engineering degree requirements are covered by courses required by the Department of Computer Science and Engineering.

- 3. Completion of the Computer Science Engineering degree requirements.
 - a. *CSE mathematics and science requirement (14 credits)*. In addition to the College of Engineering mathematics and science requirements, students must also complete the following courses:
 - MATH 20550 Calculus III (3.5 credits)
 - MATH 20580 Introduction to Linear Algebra and Differential Equations (3.5 credits)
 - ACMS 30440 Probability and Statistics (3 credits)
 - PHYS 10320 General Physics II (4 credits)
 - b. *CPEG Core requirement (37 credits)*. Students must complete the following courses:
 - CSE 20321 Fundamentals of Computing (4 credits)
 - CSE 20110 Discrete Math (3 credits)
 - CSE 20312 Data Structures (4 credits)
 - CSE 20221 Logic Design (4 credits)
 - CSE 20289 Systems Programming (3 credits)
 - CSE 30321 Computer Architecture (4 credits)
 - CSE 30141 Theory of Computing (3 credits)
 - CSE 30332 Programming Paradigms (3 credits)
 - CSE 30341 Operating Systems (3 credits)
 - CSE 40113 Algorithms (3 credits)
 - CSE 40175 Ethics and Social Issues (3 credits)
 - c. *CSE Electives (18 credits)*. Students must complete 18 additional credits of CSE elective course. Students have a choice from 30+ courses offered by the departments of Computer Science Engineering and Electrical Engineering. (Up to

9 of the aforementioned electives may be fulfilled by courses offered by the Department of Electrical Engineering)

- d. *Technical Electives (9 credits)*. Students must complete 9 additional credits of technical elective courses. Students can choose from numerous courses offered by the College of Engineering and the College of Science.
- e. *Free Electives (3 credits).* Students must 3 additional credits of elective courses. Students can choose from courses offered by University of Notre Dame.

First Year									
Fall Semester (Credit Hours: 18)			Spring Semester (Credit Hours: 18)						
MATH 10550	Calculus I	4	MATH 10560	Calculus II	4				
CHEM 10171	Intro to Chemical Principles	4		Technical Elective	3				
EG 10117	Engineering Design	3	EG 10118	Engineering Computing	3				
	Core Curriculum Course	3	PHYS 10310	Engineering Physics I	4				
USEM or WR 13100	University Seminar or Writing & Rhetoric (or WRIT)	3	USEM or WR 13100	University Seminar or Writing & Rhetoric (or WRIT)	3				
FYS 10101	Moreau First Year Experience	1	FYS 10102	Moreau First Year Experience	1				
	So	phom	ore Year						
Fall Semester (Credit Hours: 17.5)			Spring Semester (Credit Hours: 17.5)						
MATH 20550	Calculus III	3.5	MATH 20580	Intro to Linear Algebra and Differential Equations	3.5				
PHYS 10320	Engineering Physics II	4	CSE 20221	Logic Design	4				
CSE 20110	Discrete Mathematics	3	EE 20223 (spring only)	Intro to Electric Circuits	3				
CSE 20311	Fundamentals of Computing	4	CSE 20312	Data Structures	4				
	Core Curriculum Course	3		Core Curriculum Course	3				
		Junio	r Year						
Fall Semester (Credit Hours: 16)			Spring Semester (Credit Hours: 15)						
CSE 20289	Systems Programming	3	CSE 30341	Operating Systems	3				
	Free Elective	3	ACMS 30440	Probability and Statistics	3				
CSE xxxxx (fall only)	Digital Integrated Circuits	3		CSE Elective	3				
CSE 30321	Computer Architecture	4	CSE xxxxx (spring only)	Signal Processing Fundamentals	3				
	Core Curriculum Course	3		Core Curriculum Course	3				
		Senio	r Year						
Fall Semester (Credit Hours: 13)			Spring Semester (Credit Hours: 12)						
CSE 40522 (fall only)	CPEG Capstone Design	4	CSE 40175	Ethical and Social Issues	3				
	CSE Elective	3		CSE Elective	3				
	CSE Elective	3		CSE Elective	3				
	CSE Elective	3		Core Curriculum Course	3				
				Total credit hours	127				

2.11 CPEG Course Plan for Class of 2026 and Beyond

CPEG Program Requirements for Class of 2026 and Beyond

To earn the BS CPEG, students must complete the following requirements

- 1. *Completion of University Core Curriculum requirements (26 credits)*. Note the Liberal Arts 1, 2 and 3 requirements will be covered by courses required by the College of Engineering and the Department of Computer Science Engineering.
- 2. *Completion of the College of Engineering requirements (22 credits)*. Students must complete the following courses:
 - EG 10117 Engineering Design (3 credits)
 - EG 10118 Engineering Programming (3 credits)
 - MATH 10550 Calculus I (4 credits)
 - MATH 10560 Calculus II (4 credits)
 - CHEM 10171/11171 Introduction to Chemical Principles (4 credits)
 - PHYS 10310 General Physics I (4 credits)

Additional College of Engineering degree requirements are covered by courses required by the Department of Computer Science and Engineering.

- 3. Completion of the Computer Science Engineering degree requirements.
 - a. *CSE mathematics and science requirement (14 credits)*. In addition to the College of Engineering mathematics and science requirements, students must also complete the following courses:
 - MATH 20550 Calculus III (3.5 credits)
 - MATH 20580 Introduction to Linear Algebra and Differential Equations (3.5 credits)
 - ACMS 30440 Probability and Statistics (3 credits)
 - PHYS 10320 General Physics II (4 credits)
 - b. *CPEG Core requirement (41 credits)*. Students must complete the following courses:
 - CSE 20321 Fundamentals of Computing (4 credits)
 - CSE 20110 Discrete Math (3 credits)
 - CSE 20312 Data Structures (4 credits)
 - CSE 20221 Logic Design (4 credits)
 - EE 20223 Intro to Electric Circuits (new course) (3 credits)
 - CSE xxxxx Digital Integrated Circuits (new course) (3 credits)
 - CSE 30321 Computer Architecture (4 credits)
 - CSE 20289 Systems Programming (3 credits)
 - CSE 30341 Operating Systems (3 credits)
 - CSE xxxxx Signal Processing Fundamentals (3 credits)
 - CSE 40522 CPEG Capstone Design (4 credits)
 - CSE 40175 Ethics and Social Issues (3 credits)
 - c. *CSE Electives (18 credits)*. Students must complete 18 additional credits of CSE elective course. Students have a choice from 30+ courses offered by the departments of Computer Science Engineering and Electrical Engineering. (Up to

9 of the aforementioned electives may be fulfilled by courses offered by the Department of Electrical Engineering)

- d. *Technical Electives (3 credits)*. Students must complete 3 additional credits of technical elective courses. Students can choose from numerous courses offered by the College of Engineering and the College of Science.
- e. *Free Electives (3 credits).* Students must 3 additional credits of elective courses. Students can choose from courses offered by University of Notre Dame.