Electrical Engineering

Bachelor of Science

Curriculum Year 2023-2024

FRESHMAN YEAR

Fall Semester		Cr	Term Completed		Spring Semester		Cr	Term Completed	
ENGR 1020/1021	Engineering Disciplines and Skills[1]	3			ENGR 1410/1411	Programming and Problem Solving[4]	3		
CH 1010/1011	General Chemistry	4			CH 1020/1021	General Chemistry II + Lab	4		
ENGL 1030/1031	Composition and Rhetoric	3			MATH 1080	Calculus II	4		
MATH 1060	Calculus I[2]	4			PHYS 1220	Physics with Calculus I	3		
	Arts & Humanities/Social Science Req.[3]	3				Arts & Humanities/Social Science Req.[3]	3		
		17					17		

SOPHOMORE YEAR

Fall Semester		Cr	Term Completed		Spring Semester		Cr	Term Completed	
CPSC 1110/1111	Intro to Programming in C + Lab	3			ECE 2120	Electrical Engineering Lab II	1		
ECE 2010	Logic and Computing Devices	3			ECE 2620	Electric Circuits II	3		
ECE 2020	Electric Circuits I	3			ECE 2720	Computer Organization	3		
ECE 2090	Logic Lab	1			ECE 2730	Computer Organization Lab	1		
ECE 2110	Electrical Engineering Lab I	1			MATH 2080	Differential Equations	4		
MATH 2060	Calculus III	4				Arts & Humanities/Social Science Req.[3, 5]	3		
PHYS 2210	Physics with Calculus II	3							
		18					15		

JUNIOR YEAR

Fall Semester		Cr	Term Completed		Spring Semester		Cr	Term Completed	
ECE 3110	Electrical Engineering Lab III	1			ECE 3120	Electrical Engineering Lab IV	1		
ECE 3200	Electronics I	3			ECE 3170	Random Signal Analysis	3		
ECE 3300	Signals, Systems and Transforms	3			ECE 3210	Electronics II	3		
ECE 3710	Microcontroller Interfacing	3			ECE 3600	Electric Power Engineering	3		
ECE 3720	Microcontroller Interfacing Lab	1			ECE 3810	Fields, Waves and Circuits	3		
ECE 3800	Electromagnetics	3			ENGL 3140	Technical Writing[7]	3		
	Advanced Mathematics Req.[6]	3							
		17					16		

SENIOR YEAR

Fall Semester		Cr	Term Completed		Spring Semester		Cr	Term Completed	
ECE 4090	Intro to Linear Control Systems	3			ECE 4960	Integrated Systems Design II	2		
ECE 4270	Communications Systems	3				Arts & Humanities/Social Science Req.[3]	3		
ECE 4950/4951	Integrated Systems Design I	2				EE Technical Elective[8]	3		
	EE Technical Elective[8]	3				EE Technical Elective[8, 10]	3		
	Communications Requirement[9]	3				Special Requirement[11]	3		
		14					14		

Total credit hours = 128

[1] Or ENGR 1050/1060 or ENGR 1510/1520. Satisfies three credits of the Global Challenges requirement if met by ENGR 1020 and taken at Clemson. (Otherwise, three credits of the Global Challenges requirement must be met with three additional credits.)
[2] Or MATH 1040/1070.
[3] See General Education section of the *Undergraduate Announcements*. Three of these credits must also satisfy the South Carolina REACH Act Requirement (if the requirement is not already satisfied upon admission to Clemson.)
[4] Or ENGR 1070/1080/1090 or ENGR 1640.
[5] Students may choose to take the EE Technical Elective ECE 2220 at this time and take the Arts & Humanities/Social Science Req. in the senior year (swapping the courses).
[6] MATH 3650 or MATH 4190* or MATH 4340 or MATH 4400* or MATH 4410 or STAT 4110. *Requires MATH 3110 as prerequisite.
[7] Or the cluster of AS 3090, AS 3100 and AS 4090 may be substituted.
[8] Select from approved Technical Elective listing found on the ECE website https://www.clemson.edu/cecas/departments/ece/resources/undergrad_resources/curriculum.html.
[9] COMM 1500/1501 or COMM 2500/2501 or HON 1950 or HON 2230 or AS 3090/3100/4090/4100 or ML 1010/1020.
[10] Students may choose to take an Arts & Humanities/Social Science Req. at this time and take the EE Technical Elective ECE 2220 in the sophomore year (swapping the courses).
[11] Three additional Global Challenges credits at the 3000 or 4000 level with a course prefix other than ENGR; or, if the six Global Challenges credits are satisfied by other requirements such as ENGR 1020 and a qualifying EE Technical Elective, any of the following: (1) A 3-credit approved Humanities/Social Sciences course (see listing in the current Undergraduate Catalog: http://catalog.clemson.edu/); (2) An additional 3-credit, 4000-level course from the EE Technical Elective List or the CpE Technical Elective List; (3) MATH 3110 or MATH 4120 or MATH 4190 or MATH 4340 or MATH 4350 or MATH 4400 or MATH 4410 or MATH 4530 or MATH 4540.

Updated 16 June 2023

Electrical Engineering

Bachelor of Science

Curriculum Year 2022-2023

FRESHMAN YEAR

Fall Semester		Cr	Term Completed		Spring Semester		Cr	Term Completed	
ENGR 1020/1021	Engineering Disciplines and Skills[1]	3			ENGR 1410/1411	Programming and Problem Solving[4]	3		
CH 1010/1011	General Chemistry	4			CH 1020/1021	General Chemistry II + Lab	4		
ENGL 1030/1031	Composition and Rhetoric	3			MATH 1080	Calculus II	4		
MATH 1060	Calculus I[2]	4			PHYS 1220	Physics with Calculus I	3		
	Arts & Humanities/Social Science Req.[3]	3				Arts & Humanities/Social Science Req.[3]	3		
		17					17		

SOPHOMORE YEAR

Fall Semester		Cr	Term Completed		Spring Semester		Cr	Term Completed	
CPSC 1110/1111	Intro to Programming in C + Lab	3			ECE 2120	Electrical Engineering Lab II	1		
ECE 2010	Logic and Computing Devices	3			ECE 2620	Electric Circuits II	3		
ECE 2020	Electric Circuits I	3			ECE 2720	Computer Organization	3		
ECE 2090	Logic Lab	1			ECE 2730	Computer Organization Lab	1		
ECE 2110	Electrical Engineering Lab I	1			MATH 2080	Differential Equations	4		
MATH 2060	Calculus III	4				Arts & Humanities/Social Science Req.[3, 5]	3		
PHYS 2210	Physics with Calculus II	3							
		18					15		

JUNIOR YEAR

Fall Semester		Cr	Term Completed		Spring Semester		Cr	Term Completed	
ECE 3110	Electrical Engineering Lab III	1			ECE 3120	Electrical Engineering Lab IV	1		
ECE 3200	Electronics I	3			ECE 3170	Random Signal Analysis	3		
ECE 3300	Signals, Systems and Transforms	3			ECE 3210	Electronics II	3		
ECE 3710	Microcontroller Interfacing	3			ECE 3600	Electric Power Engineering	3		
ECE 3720	Microcontroller Interfacing Lab	1			ECE 3810	Fields, Waves and Circuits	3		
ECE 3800	Electromagnetics	3			ENGL 3140	Technical Writing[7]	3		
	Advanced Mathematics Req.[6]	3							
		17					16		

SENIOR YEAR

Fall Semester		Cr	Term Completed		Spring Semester		Cr	Term Completed	
ECE 4090	Intro to Linear Control Systems	3			ECE 4960	Integrated Systems Design II	2		
ECE 4270	Communications Systems	3				Arts & Humanities/Social Science Req.[3]	3		
ECE 4950/4951	Integrated Systems Design I	2				EE Technical Elective[8]	3		
	EE Technical Elective[8]	3				EE Technical Elective[8, 10]	3		
	Communications Requirement[9]	3				Special Requirement[11]	3		
		14					14		

Total credit hours = 128

[1] Or ENGR 1050/1060 or ENGR 1510/1520. Satisfies three credits of the Global Challenges requirement if met by ENGR 1020 and taken at Clemson. (Otherwise, three credits of the Global Challenges requirement must be met with three additional credits.)
[2] Or MATH 1040/1070.
[3] See General Education section of the *Undergraduate Announcements*. Three of these credits must also satisfy the South Carolina REACH Act Requirement (if the requirement is not already satisfied upon admission to Clemson.)
[4] Or ENGR 1070/1080/1090 or ENGR 1640.
[5] Students may choose to take the EE Technical Elective ECE 2220 at this time and take the Arts & Humanities/Social Science Req. in the senior year (swapping the courses).
[6] MATH 3650 or MATH 4190* or MATH 4340 or MATH 4400* or MATH 4410 or STAT 4110. *Requires MATH 3110 as prerequisite.
[7] Or AS 4090.
[8] Select from approved Technical Elective listing found on the ECE website https://www.clemson.edu/cecas/departments/ece/resources/undergrad_resources/curriculum.html.
[9] COMM 1500/1501 or COMM 2500/2501 or HON 1950 or HON 2230 or AS 3090/3100/4090/4100 or ML 1010/1020.
[10] Students may choose to take an Arts & Humanities/Social Science Req. at this time and take the EE Technical Elective ECE 2220 in the sophomore year (swapping the courses).
[11] Three additional Global Challenges credits at the 3000 or 4000 level with a course prefix other than ENGR; or, if the six Global Challenges credits are satisfied by other requirements such as ENGR 1020 and a qualifying EE Technical Elective, any of the following: (1) A 3-credit approved Humanities/Social Sciences course (see listing in the current Undergraduate Catalog: http://catalog.clemson.edu/); (2) An additional 3-credit, 4000-level course from the EE Technical Elective List or the CpE Technical Elective List; (3) MATH 3110 or MATH 4120 or MATH 4190 or MATH 4340 or MATH 4350 or MATH 4400 or MATH 4410 or MATH 4530 or MATH 4540.

Updated 23 May 2022

Electrical Engineering
Bachelor of Science Degree

Curriculum Year 2021-2022

FRESHMAN YEAR

Fall Semester		Cr	Term Completed		Spring Semester		Cr	Term Completed	
ENGR 1020/1021	Engineering Disciplines and Skills[1]	2			ENGR 1410/1411	Programming and Problem Solving[3]	3		
CH 1010/1011	General Chemistry + Lab	4			CH 1020/1021	General Chemistry II + Lab	4		
ENGL 1030	Composition and Rhetoric	3			MATH 1080	Calculus II	4		
MATH 1060	Calculus I	4			PHYS 1220	Physics with Calculus I	3		
	Humanities/Social Science Req.[2]	3				Humanities/Social Science Req.[2]	3		
		16					17		

SOPHOMORE YEAR

Fall Semester		Cr	Term Completed		Spring Semester		Cr	Term Completed	
CPSC 1110/1111	Intro to Programming in C + Lab	3			ECE 2120	Electrical Engineering Lab II	1		
ECE 2010	Logic and Computing Devices	3			ECE 2620	Electric Circuits II	3		
ECE 2020	Electric Circuits I	3			ECE 2720	Computer Organization	3		
ECE 2090	Logic Lab	1			ECE 2730	Computer Organization Lab	1		
ECE 2110	Electrical Engineering Lab I	1			MATH 2080	Differential Equations	4		
MATH 2060	Calculus III	4				Humanities/Social Science Req.[2, 4]	3		
PHYS 2210	Physics with Calculus II	3							
		18					15		

JUNIOR YEAR

Fall Semester		Cr	Term Completed		Spring Semester		Cr	Term Completed	
ECE 3110	Electrical Engineering Lab III	1			ECE 3120	Electrical Engineering Lab IV	1		
ECE 3200	Electronics I	3			ECE 3170	Random Signal Analysis	3		
ECE 3300	Signals, Systems and Transforms	3			ECE 3210	Electronics II	3		
ECE 3710	Microcontroller Interfacing	3			ECE 3600	Electric Power Engineering	3		
ECE 3720	Microcontroller Interfacing Lab	1			ECE 3810	Fields, Waves and Circuits	3		
ECE 3800	Electromagnetics	3			ENGL 3140	Technical Writing	3		
	Advanced Mathematics Req.[5]	3							
		17					16		

SENIOR YEAR

Fall Semester		Cr	Term Completed		Spring Semester		Cr	Term Completed	
ECE 4090	Intro to Linear Control Systems	3			ECE 4960	Integrated Systems Design II	2		
ECE 4270	Communications Systems	3				Humanities/Social Science Req.[2]	3		
ECE 4950/4951	Integrated Systems Design I	2				EE Technical Elective[6]	3		
	EE Technical Elective[6]	3				EE Technical Elective[6, 8]	3		
	Communications Requirement[7]	3				Special Requirement[9]	3		
		14					14		

[1] Or ENGR 1050/1060.

[2] See General Education section of the *Undergraduate Announcements*. Six of these credit hours must also satisfy General Education Cross-Cultural Awareness and Science and Technology in Society Requirements. To comply with the South Carolina REACH ACT, all undergraduate students who enter the university during summer 2021 or afterward must pass one of HIST 1010, POSC 1010, and POSC 1030. Additional courses may be approved which can satisfy this requirement. Successful completion of coursework in compliance with the REACH ACT is required for graduation.

[3] Or ENGR 1070/1080/1090.

[4] Or EE Technical Elective (ECE 2220 Systems Programming Concepts for Computer Engineering).

[5] MATH 3650, MATH 4190*, MATH 4340, MATH 4400*, MATH 4410** or STAT 4110.

Notes: *requires MATH 3110 as prereq; **MATH 4000 is prereq. Students will need override to use ECE 3170 in place of MATH 4000. **See MATH Dept.**

[6] Select from approved Technical Elective listing found on the ECE website https://www.clemson.edu/cecas/departments/ece/resources/undergrad_resources/curriculum.html.

[7] COMM 1500/1501 *or* COMM 2500/2501.

[8] Or Humanities/Social Science Req. if ECE 2220 taken in sophomore year.

[9] Special Requirement Options:

a. A 3-credit approved Humanities/Social Sciences course (see listing in the current Undergraduate Catalog: http://catalog.clemson.edu/); or

b. An additional 3-credit, 4000-level course from the EE Technical Elective List *or* the CpE Technical Elective List; or

c. An additional 3-credit MATH course from the following list: MATH 3110 (Linear Algebra), MATH 4120 (Intro to Modern Algebra), MATH 4190 (Discrete Math), MATH 4340 (Advanced Engineering Math), MATH 4350 (Complex Variables), MATH 4400 (Linear Programming), MATH 4410 (Intro to Stochastic Models), MATH 4530 (Advanced Calculus I), MATH 4540 (Advanced Calculus II).

Updated 14 June 2021

Electrical Engineering
Bachelor of Science Degree

Curriculum Year 2020-2021

FRESHMAN YEAR

Fall Semester		Cr	Term Completed		Spring Semester		Cr	Term Completed	
ENGR 1020/1021	Engineering Disciplines and Skills[1]	2			ENGR 1410/1411	Programming and Problem Solving[3]	3		
CH 1010/1011	General Chemistry	4			CH 1020/1021	General Chemistry II	4		
ENGL 1030	Composition and Rhetoric	3			MATH 1080	Calculus II	4		
MATH 1060	Calculus I	4			PHYS 1220	Physics with Calculus I	3		
	Humanities/Social Science Req.[2]	3				Humanities/Social Science Req.[2]	3		
		16					17		

SOPHOMORE YEAR

Fall Semester		Cr	Term Completed		Spring Semester		Cr	Term Completed	
CPSC 1110/1111	Intro to Programming in C	3			ECE 2120	Electrical Engineering Lab II	1		
ECE 2010	Logic and Computing Devices	3			ECE 2620	Electric Circuits II	3		
ECE 2020	Electric Circuits I	3			ECE 2720	Computer Organization	3		
ECE 2090	Logic Lab	1			ECE 2730	Computer Organization Lab	1		
ECE 2110	Electrical Engineering Lab I	1			MATH 2080	Differential Equations	4		
MATH 2060	Calculus III	4				Humanities/Social Science Req.[2, 4]	3		
PHYS 2210	Physics with Calculus II	3							
		18					15		

JUNIOR YEAR

Fall Semester		Cr	Term Completed		Spring Semester		Cr	Term Completed	
ECE 3110	Electrical Engineering Lab III	1			ECE 3120	Electrical Engineering Lab IV	1		
ECE 3200	Electronics I	3			ECE 3170	Random Signal Analysis	3		
ECE 3300	Signals, Systems and Transforms	3			ECE 3210	Electronics II	3		
ECE 3710	Microcontroller Interfacing	3			ECE 3600	Electric Power Engineering	3		
ECE 3720	Microcontroller Interfacing Lab	1			ECE 3810	Fields, Waves and Circuits	3		
ECE 3800	Electromagnetics	3			ENGL 3140	Technical Writing	3		
	Advanced Mathematics Req.[5]	3							
		17					16		

SENIOR YEAR

Fall Semester		Cr	Term Completed		Spring Semester		Cr	Term Completed	
ECE 4090	Intro to Linear Control Systems	3			ECE 4960	Integrated Systems Design II	2		
ECE 4270	Communications Systems	3				Humanities/Social Science Req.[2]	3		
ECE 4950/4951	Integrated Systems Design I	2				EE Technical Elective[6]	3		
	EE Technical Elective[6]	3				EE Technical Elective[6, 8]	3		
	Communications Requirement[7]	3				Special Requirement[9]	3		
		14					14		

[1] Or ENGR 1050/1060.

[2] See General Education section of the *Undergraduate Announcements*. Six of these credit hours must also satisfy General Education Cross-Cultural Awareness and Science and Technology in Society Requirements.

[3] Or ENGR 1070/1080/1090.

[4] Or EE Technical Elective (ECE 2220 Systems Programming Concepts for Computer Engineering).

[5] MATH 3650, MATH 4190*, MATH 4340, MATH 4400*, MATH 4410** or STAT 4110.

Notes: *requires MATH 3110 as prereq; **MATH 4000 is prereq. Students will need override to use ECE 3170 in place of MATH 4000. **See MATH Dept.**

[6] Select from approved Technical Elective listing found on the ECE website https://www.clemson.edu/cecas/departments/ece/resources/undergrad_resources/curriculum.html.

[7] COMM 1500/1501 *or* COMM 2500/2501.

[8] Or Humanities/Social Science Req. if ECE 2220 taken in sophomore year.

[9] Special Requirement Options:

a. A 3-credit approved Humanities/Social Sciences course (see listing in the current Undergraduate Catalog: http://catalog.clemson.edu/); or

b. An additional 3-credit, 4000-level course from the EE Technical Elective List *or* the CpE Technical Elective List; or

c. An additional 3-credit MATH course from the following list: MATH 3110 (Linear Algebra), MATH 4120 (Intro to Modern Algebra), MATH 4190 (Discrete Math), MATH 4340 (Advanced Engineering Math), MATH 4350 (Complex Variables), MATH 4400 (Linear Programming), MATH 4410 (Intro to Stochastic Models), MATH 4530 (Advanced Calculus I), MATH 4540 (Advanced Calculus II).

Updated 4 February 2021

Electrical Engineering
Bachelor of Science Degree
Curriculum Year 2019-2020

FRESHMAN YEAR

Fall Semester		Cr	Term Completed		Spring Semester		Cr	Term Completed	
ENGR 1020/1021	Engineering Disciplines and Skills[1]	2			ENGR 1410/1411	Programming and Problem Solving[3]	3		
CH 1010/1011	General Chemistry	4			CH 1020/1021	General Chemistry II	4		
ENGL 1030	Composition and Rhetoric	3			MATH 1080	Calculus II	4		
MATH 1060	Calculus I	4			PHYS 1220	Physics with Calculus I	3		
	Humanities/Social Science Req.[2]	3				Humanities/Social Science Req.[2]	3		
		16					17		

SOPHOMORE YEAR

Fall Semester		Cr	Term Completed		Spring Semester		Cr	Term Completed	
CPSC 1110/1111	Intro to Programming in C	3			ECE 2120	Electrical Engineering Lab II	1		
ECE 2010	Logic and Computing Devices	3			ECE 2620	Electric Circuits II	3		
ECE 2020	Electric Circuits I	3			ECE 2720	Computer Organization	3		
ECE 2090	Logic Lab	1			ECE 2730	Computer Organization Lab	1		
ECE 2110	Electrical Engineering Lab I	1			MATH 2080	Differential Equations	4		
MATH 2060	Calculus III	4				Humanities/Social Science Req.[2, 4]	3		
PHYS 2210	Physics with Calculus II	3							
		18					15		

JUNIOR YEAR

Fall Semester		Cr	Term Completed		Spring Semester		Cr	Term Completed	
ECE 3110	Electrical Engineering Lab III	1			ECE 3120	Electrical Engineering Lab IV	1		
ECE 3200	Electronics I	3			ECE 3170	Random Signal Analysis	3		
ECE 3300	Signals, Systems and Transforms	3			ECE 3210	Electronics II	3		
ECE 3600	Electric Power Engineering	3			ECE 3710	Microcontroller Interfacing	3		
ECE 3800	Electromagnetics	3			ECE 3720	Microcontroller Interfacing Lab	1		
	Advanced Mathematics Req.[5]	3			ECE 3810	Fields, Waves and Circuits	3		
					ENGL 3140	Technical Writing	3		
		16					17		

SENIOR YEAR

Fall Semester		Cr	Term Completed		Spring Semester		Cr	Term Completed	
ECE 4090	Intro to Linear Control Systems	3			ECE 4960	Integrated Systems Design II	2		
ECE 4270	Communications Systems	3				Humanities/Social Science Req.[2]	3		
ECE 4950/4951	Integrated Systems Design I	2				EE Technical Elective[6]	3		
	EE Technical Elective[6]	3				EE Technical Elective[6, 8]	3		
	Communications Requirement[7]	3				Special Requirement[9]	3		
		14					14		

[1] Or ENGR 1050/1060.
[2] See General Education section of the *Undergraduate Announcements.* Six of these credit hours must also satisfy General Education Cross-Cultural Awareness and Science and Technology in Society Requirements.
[3] Or ENGR 1070/1080/1090.
[4] Or EE Technical Elective (ECE 2220 Systems Programming Concepts for Computer Engineering).
[5] MATH 4190 (Discrete Math. Structures), MATH 4340 (Adv. Engr. Math), MATH 4350 (Complex Variables), MATH 4530 (Adv. Calc. I), or MATH 4540 (Adv. Calc. II).
[6] Select from the list on page 2 of this document.
[7] COMM 1500/1501 *or* COMM 2500/2501.
[8] Or Humanities/Social Science Req. if ECE 2220 taken in sophomore year.
[9] Special Requirement Options:

a. A 3-credit approved Humanities/Social Sciences course (see listing here: www.clemson.edu/cecas/current-students/humanities_policy.html); or
b. An additional 3-credit, 4000-level course from the EE Technical Elective List *or* the CpE Technical Elective List; or
c. An additional 3-credit MATH course from the following list: MATH 3110 (Linear Algebra), MATH 4120 (Intro to Modern Algebra), MATH 4190 (Discrete Math), MATH 4340 (Advanced Engineering Math), MATH 4350 (Complex Variables), MATH 4400 (Linear Programming), MATH 4410 (Intro to Stochastic Models), MATH 4530 (Advanced Calculus I), MATH 4540 (Advanced Calculus II); or
d. ELE 3010 Executive Leadership and Entrepreneurship I (prerequisite MGT 2010).

Updated 21 February 2019

Electrical Engineering
Bachelor of Science Degree
Curriculum Year 2018-2019

FRESHMAN YEAR

Fall Semester		Cr	Term Completed		Spring Semester		Cr	Term Completed	
ENGR 1020/1021	Engineering Disciplines and Skills[1]	2			ENGR 1410/1411	Programming and Problem Solving[3]	3		
CH 1010/1011	General Chemistry	4			CH 1020/1021	General Chemistry II	4		
ENGL 1030	Composition and Rhetoric	3			MATH 1080	Calculus II	4		
MATH 1060	Calculus I	4			PHYS 1220	Physics with Calculus I	3		
	Humanities/Social Science Req.[2]	3				Humanities/Social Science Req.[2]	3		
		16					17		

SOPHOMORE YEAR

Fall Semester		Cr	Term Completed		Spring Semester		Cr	Term Completed	
CPSC 1110/1111	Intro to Programming in C	3			ECE 2120	Electrical Engineering Lab II	1		
ECE 2010	Logic and Computing Devices	2			ECE 2620	Electric Circuits II	3		
ECE 2020	Electric Circuits I	3			ECE 2720	Computer Organization	3		
ECE 2090	Logic Lab	1			ECE 2730	Computer Organization Lab	1		
ECE 2110	Electrical Engineering Lab I	1			MATH 2080	Differential Equations	4		
MATH 2060	Calculus III	4				Humanities/Social Science Req.[2, 4]	3		
PHYS 2210	Physics with Calculus II	3							
		17					15		

JUNIOR YEAR

Fall Semester		Cr	Term Completed		Spring Semester		Cr	Term Completed	
ECE 3110	Electrical Engineering Lab III	1			ECE 3120	Electrical Engineering Lab IV	1		
ECE 3200	Electronics I	3			ECE 3170	Random Signal Analysis	3		
ECE 3300	Signals, Systems and Transforms	3			ECE 3210	Electronics II	3		
ECE 3710	Microcontroller Interfacing	3			ECE 3600	Electric Power Engineering	3		
ECE 3720	Microcontroller Interfacing Lab	1			ECE 3810	Fields, Waves and Circuits	3		
ECE 380	Electromagnetics	3			ENGL 3140	Technical Writing	3		
	Advanced Mathematics Req.[5]	3							
		17					16		

SENIOR YEAR

Fall Semester		Cr	Term Completed		Spring Semester		Cr	Term Completed	
ECE 4090	Intro to Linear Control Systems	3			ECE 4960	Integrated Systems Design II	2		
ECE 4270	Communications Systems	3				Humanities/Social Science Req.[2]	3		
ECE 4950/4951	Integrated Systems Design I	2				EE Technical Elective[6]	3		
	EE Technical Elective[6]	3				EE Technical Elective[6, 8]	3		
	Communications Requirement[7]	3				Special Requirement[9]	3		
		14					14		

[1] Or ENGR 1050/1060.
[2] See General Education section of the *Undergraduate Announcements.* Six of these credit hours must also satisfy General Education Cross-Cultural Awareness and Science and Technology in Society Requirements.
[3] Or ENGR 1070/1080/1090.
[4] Or EE Technical Elective (ECE 2220 Systems Programming Concepts for Computer Engineering).
[5] MATH 4190 (Discrete Math. Structures), MATH 4340 (Adv. Engr. Math), MATH 4350 (Complex Variables), MATH 4530 (Adv. Calc. I), or MATH 4540 (Adv. Calc. II).
[6] Select from the list on page 2 of this document.
[7] COMM 1500/1501 *or* COMM 2500/2501.
[8] Or Humanities/Social Science Req. if ECE 2220 taken in sophomore year.
[9] Special Requirement Options:

a. A 3-credit approved Humanities/Social Sciences course (see listing here: www.clemson.edu/cecas/current-students/humanities_policy.html); or
b. An additional 3-credit, 4000-level course from the EE Technical Elective List *or* the CpE Technical Elective List; or
c. An additional 3-credit MATH course from the following list: MATH 3110 (Linear Algebra), MATH 4120 (Intro to Modern Algebra), MATH 4190 (Discrete Math), MATH 4340 (Advanced Engineering Math), MATH 4350 (Complex Variables), MATH 4400 (Linear Programming), MATH 4410 (Intro to Stochastic Models), MATH 4530 (Advanced Calculus I), MATH 4540 (Advanced Calculus II); or
d. ELE 3010 Executive Leadership and Entrepreneurship I (prerequisite MGT 2010).

Updated 12 June 2017

Electrical Engineering
Bachelor of Science Degree
Curriculum Year 2017-2018

FRESHMAN YEAR

Fall Semester		Cr	Term Completed		Spring Semester		Cr	Term Completed	
ENGR 1020/1021	Engineering Disciplines and Skills[1]	2			ENGR 1410/1411	Programming and Problem Solving[3]	3		
CH 1010/1011	General Chemistry	4			CH 1020/1021	General Chemistry II	4		
ENGL 1030	Composition and Rhetoric	3			MATH 1080	Calculus II	4		
MATH 1060	Calculus I	4			PHYS 1220	Physics with Calculus I	3		
	Humanities/Social Science Req.[2]	3				Humanities/Social Science Req.[2]	3		
		16					17		

SOPHOMORE YEAR

Fall Semester		Cr	Term Completed		Spring Semester		Cr	Term Completed	
CPSC 1110/1111	Intro to Programming in C	3			ECE 2120	Electrical Engineering Lab II	1		
ECE 2010	Logic and Computing Devices	2			ECE 2620	Electric Circuits II	3		
ECE 2020	Electric Circuits I	3			ECE 2720	Computer Organization	3		
ECE 2090	Logic Lab	1			ECE 2730	Computer Organization Lab	1		
ECE 2110	Electrical Engineering Lab I	1			MATH 2080	Differential Equations	4		
MATH 2060	Calculus III	4				Humanities/Social Science Req.[2, 4]	3		
PHYS 2210	Physics with Calculus II	3							
		17					15		

JUNIOR YEAR

Fall Semester		Cr	Term Completed		Spring Semester		Cr	Term Completed	
ECE 3110	Electrical Engineering Lab III	1			ECE 3120	Electrical Engineering Lab IV	1		
ECE 3200	Electronics I	3			ECE 3170	Random Signal Analysis	3		
ECE 3300	Signals, Systems and Transforms	3			ECE 3210	Electronics II	3		
ECE 3710	Microcontroller Interfacing	3			ECE 3600	Electric Power Engineering	3		
ECE 3720	Microcontroller Interfacing Lab	1			ECE 3810	Fields, Waves and Circuits	3		
ECE 3800	Electromagnetics	3			ENGL 3140	Technical Writing	3		
	Advanced Mathematics Req.[5]	3							
		17					16		

SENIOR YEAR

Fall Semester		Cr	Term Completed		Spring Semester		Cr	Term Completed	
ECE 4090	Intro to Linear Control Systems	3			ECE 4960	Integrated Systems Design II	2		
ECE 4270	Communications Systems	3				Humanities/Social Science Req.[2]	3		
ECE 4950/4951	Integrated Systems Design I	2				EE Technical Elective[6]	3		
	EE Technical Elective[6]	3				EE Technical Elective[6, 8]	3		
	Communications Requirement[7]	3				Special Requirement[9]	3		
		14					14		

[1] Or ENGR 1050/1060.
[2] See General Education section of the *Undergraduate Announcements.* Six of these credit hours must also satisfy General Education Cross-Cultural Awareness and Science and Technology in Society Requirements.
[3] Or ENGR 1070/1080/1090.
[4] Or EE Technical Elective (ECE 2220 Systems Programming Concepts for Computer Engineering).
[5] MATH 4190 (Discrete Math. Structures), MATH 4340 (Adv. Engr. Math), MATH 4350 (Complex Variables), MATH 4530 (Adv. Calc. I), or MATH 4540 (Adv. Calc. II).
[6] Select from the list on page 2 of this document.
[7] COMM 1500/1501 *or* COMM 2500/2501.
[8] Or Humanities/Social Science Req. if ECE 2220 taken in sophomore year.
[9] Special Requirement Options:

a. A 3-credit approved Humanities/Social Sciences course (see listing here: www.clemson.edu/cecas/current-students/humanities_policy.html); or
b. An additional 3-credit, 4000-level course from the EE Technical Elective List *or* the CpE Technical Elective List; or
c. An additional 3-credit MATH course from the following list: MATH 3110 (Linear Algebra), MATH 4120 (Intro to Modern Algebra), MATH 4190 (Discrete Math), MATH 4340 (Advanced Engineering Math), MATH 4350 (Complex Variables), MATH 4400 (Linear Programming), MATH 4410 (Intro to Stochastic Models), MATH 4530 (Advanced Calculus I), MATH 4540 (Advanced Calculus II); or
d. ELE 3010 Executive Leadership and Entrepreneurship I (prerequisite MGT 2010).

Updated 12 June 2017

Electrical Engineering
Bachelor of Science
Degree Curriculum Year
2016-2017

FRESHMAN YEAR

Fall Semester		Cr	Term Completed		Spring Semester		Cr	Term Completed	
ENGR 1020/1021	Engineering Disciplines and Skills[1]	2			ENGR 1410/1411	Programming and Problem Solving[3]	3		
CH 1010/1011	General Chemistry	4			CH 1020/1021	General Chemistry II	4		
ENGL 1030	Composition and Rhetoric	3			MATH 1080	Calculus II	4		
MATH 1060	Calculus I	4			PHYS 1220	Physics with Calculus I	3		
	Humanities/Social Science Req.[2]	3				Humanities/Social Science Req.[2]	3		
		16					17		

SOPHOMORE YEAR

Fall Semester		Cr	Term Completed		Spring Semester		Cr	Term Completed	
CPSC 1110/1111	Intro to Programming in C	3			ECE 2120	Electrical Engineering Lab II	1		
ECE 2010	Logic and Computing Devices	2			ECE 2620	Electric Circuits II	3		
ECE 2020	Electric Circuits I	3			ECE 2720	Computer Organization	3		
ECE 2090	Logic Lab	1			ECE 2730	Computer Organization Lab	1		
ECE 2110	Electrical Engineering Lab I	1			MATH 2080	Differential Equations	4		
MATH 2060	Calculus III	4				Humanities/Social Science Req.[2, 4]	3		
PHYS 2210	Physics with Calculus II	3							
		17					15		

JUNIOR YEAR

Fall Semester		Cr	Term Completed		Spring Semester		Cr	Term Completed	
ECE 3110	Electrical Engineering Lab III	1			ECE 3120	Electrical Engineering Lab IV	1		
ECE 3200	Electronics I	3			ECE 3170	Random Signal Analysis	3		
ECE 3300	Signals, Systems and Transforms	3			ECE 3210	Electronics II	3		
ECE 3710	Microcontroller Interfacing	3			ECE 3600	Electric Power Engineering	3		
ECE 3720	Microcontroller Interfacing Lab	1			ECE 3810	Fields, Waves and Circuits	3		
ECE 3800	Electromagnetics	3			ENGL 3140	Technical Writing	3		
	Advanced Mathematics Req.[5]	3							
		17					16		

SENIOR YEAR

Fall Semester		Cr	Term Completed		Spring Semester		Cr	Term Completed	
ECE 4090	Intro to Linear Control Systems	3			ECE 4960	Integrated Systems Design II	2		
ECE 4270	Communications Systems	3				Humanities/Social Science Req.[2]	3		
ECE 4950/4951	Integrated Systems Design I	2				EE Technical Elective[6]	3		
	EE Technical Elective[6]	3				EE Technical Elective[6, 8]	3		
	Communications Requirement[7]	3				Special Requirement[9]	3		
		14					14		

[1] Or ENGR 1050/1060.
[2] See General Education section of the *Undergraduate Announcements.* Six of these credit hours must also satisfy General Education Cross-Cultural Awareness and Science and Technology in Society Requirements.
[3] Or ENGR 1070/1080/1090.
[4] Or EE Technical Elective (ECE 2220 Systems Programming Concepts for Computer Engineering).
[5] MATH 4190 (Discrete Math. Structures), MATH 4340 (Adv. Engr. Math), MATH 4350 (Complex Variables), MATH 4530 (Adv. Calc. I), or MATH 4540 (Adv. Calc. II).
[6] Select from the list on page 2 of this document.
[7] COMM 1500/1501 *or* COMM 2500/2501.
[8] Or Humanities/Social Science Req. if ECE 2220 taken in sophomore year.
[9] Special Requirement Options:

a. A 3-credit approved Humanities/Social Sciences course (see listing here: www.clemson.edu/cecas/current-students/humanities_policy.html); or
b. An additional 3-credit, 4000-level course from the EE Technical Elective List *or* the CpE Technical Elective List; or
c. An additional 3-credit MATH course from the following list: MATH 3110 (Linear Algebra), MATH 4120 (Intro to Modern Algebra), MATH 4190 (Discrete Math), MATH 4340 (Advanced Engineering Math), MATH 4350 (Complex Variables), MATH 4400 (Linear Programming), MATH 4410 (Intro to Stochastic Models), MATH 4530 (Advanced Calculus I), MATH 4540 (Advanced Calculus II); or
d. ELE 3010 Executive Leadership and Entrepreneurship I (prerequisite MGT 2010).

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Electrical Engineering
Bachelor of Science Degree
Curriculum year 2014-2016

FRESHMAN YEAR

Fall semester	Cr	Term completed	Spring semester	Cr	Term completed
ENGR 1050 Engr Discipline & Skills I	1		CH 1020 & 1021 Gen Chemistry II	4	
ENGR 1060 Engr Discipline & Skills II	1		ENGR 1070 Program & Prob Slvng I	1	
CH 1010 & 1011 General Chemistry	4		ENGR 1080 Program & Prob Slvng II	1	
ENGL 1030 Accelerated Composition	3		ENGR 1090 Program & Prob Slvng III	1	
MATH 1060 Calculus I	4		Hum/Soc Sci req	3	
Hum/Soc Sci req	3		MATH 1080 Calculus II	4	
			PHYS 1220 Physics with Calculus I	3	
	16			17	

SOPHOMORE YEAR

Fall semester	Cr	Term completed	Spring semester	Cr	Term completed
CPSC 1110 & 1111 C/C++	3		ECE 2120 Electrical Engr Lab II	1	
ECE 2010 Logic & Computing Devices	2		ECE 2620 Electric Circuits II	3	
ECE 2020 Electric Circuits I	3		ECE 2720 Computer Organization	3	
ECE 2090 Logic Lab	1		ECE 2730 Computer Org Lab	1	
ECE 2110 Electrical Engineering Lab I	1		MATH 2080 Differential Equations	4	
MATH 2060 Calculus III	4		Hum/Soc Sci req OR EE Tech Elec	3	
PHYS 2210 Physics with Calculus II	3		[ECE 2220 Sys Progrmng]		
	17			15	

JUNIOR YEAR

Fall semester	Cr	Term completed	Spring semester	Cr	Term completed
ECE 3110 Electrical Engr Lab III	1		ECE 3120 Lab IV	1	
ECE 3200 Electronics I	3		ECE 3170 Random Signal	3	
ECE 3300 Signals, Sys, & Transforms	3		ECE 3210 Electronics II	3	
ECE 3600 Electric Power Engineering	3		ECE 3710 Microcntrllr Interfacing	3	
ECE 3800 Electromagnetics	3		ECE 3720 Microcontroller Lab	1	
Adv. Mathematics Elective [1]	3		ECE 3810 Fields, Waves & Circuits	3	
			ENGL 3140 Technical writing	3	
	16			17	

SENIOR YEAR

Fall semester	Cr	Term completed	Spring semester	Cr	Term completed
COMM 1500 &1501 or COMM 2500 &2501	3		ECE 4960 Systems Design II	2	
			EE Technical Elective OR	3	
ECE 4090 Cont &Discrete Sys Design	3		Hum/Soc Sci req		
ECE 4270 Communications Systems	3		EE Technical Elective	3	
ECE 4950 Systems Design I	2		Hum/Soc Sci req	3	
EE Technical Elective	3		Special Elective [2]	3	
	14			14	

NOTES:

1. Advanced Mathematics Elective Options: MATH 4190, MATH 4340, MATH 4350, MATH 4530, or MATH 4540.
2. Special Elective Options:
    a. 3 additional credits of approved Humanities/Social Science courses; or
    b. ELE 3010 - Executive Leadership and Entrepreneurship I or ELE 4010 - Executive Leadership and Entrepreneurship II; or
    c. An additional 3-credit, 400-level course from the EE Technical Elective List or the CpE Technical Elective List; or
    d. An additional 3-credit MATH course from the following list: MATH 3110 (Linear Algebra), MATH 4120 (Intro. to Modern Algebra), MATH 4190 (Discrete Math I), MATH 4340 (Advanced Engineering Math), MATH 4350 (Complex Variables), MATH 4400 (Linear Programming), MATH 4410 (Intro to Stochastic Models), and MATH 4530 (Advanced Calculus I), MATH 4540 (Advanced Calculus II).

Electrical Engineering
Bachelor of Science Degree
Curriculum year 2013-2014

FRESHMAN YEAR

Fall semester	Cr	Term completed	Spring semester	Cr	Term completed
ENGR 1020 Intro Engr	2		CH 1020 & 1021 Gen Chemistry II	4	
CH 1010 & 1011 Gen Chemistry I	4		ENGR 1410 & 1411 Problm solvng	3	
ENGL 1030 Comp I	3		MATH 1080 Calc II	4	
MATH 1060 Calc I	4		PHYS 1220 Phys I	3	
Hum/Soc Sci req	3		Hum/Soc Sci req	3	
	16			17	

SOPHOMORE YEAR

Fall semester	Cr	Term completed	Spring semester	Cr	Term completed
CPSC 1110 & 1111 C/C++	3		ECE 2120 Circuits Lab II	1	
ECE 2010 Logic	2		ECE 2620 Circuits II	3	
ECE 2020 Circuits I	3		ECE 2720 Comp Org	3	
ECE 2090 Logic Lab	1		ECE 2730 Comp Org Lab	1	
ECE 2110 Circuits Lab I	1		MATH 2080 Diff Eq	4	
MATH 2060 Calc III	4		Hum/Soc Sci req OR EE Tech Elec	3	
PHYS 2210 Physics II	3		[ECE 2220 Sys Progrmng]		
	17			15	

JUNIOR YEAR

Fall semester	Cr	Term completed	Spring semester	Cr	Term completed
ECE 3110 Lab III	1		ECE 3120 Lab IV	1	
ECE 3200 Electronics I	3		ECE 3170 Random Signal	3	
ECE 3300 Signals/Sys	3		ECE 3210 Electronics II	3	
ECE 3600 Power Engineering	3		ECE 3710 Micro Inter	3	
ECE 3800 Electromagnetics	3		ECE 3720 Micro Inter Lab	1	
Adv. Mathematics Elective [1]	3		ECE 3810 Fields, Waves	3	
			ENGL 3140 Tech writing	3	
	16			17	

SENIOR YEAR

Fall semester	Cr	Term completed	Spring semester	Cr	Term completed
COMM 1500 &1501 or COMM 2500 &2501	3		ECE 4960 Systems Design II	2	
			EE Tech Elec OR	3	
ECE 4090 Syst. Des	3		Hum/Soc Sci req		
ECE 4270 Comm Systems	3		EE Tech Depth Elec	3	
ECE 4950 Systems Design I	2		Hum/Soc Sci req	3	
EE Tech Elec	3		Special Elective [2]	3	
	14			14	

NOTES:

1. Advanced Mathematics Elective Options: MATH 4190, MATH 4340, MATH 4350, MATH 4530, or MATH 4540.
2. Special Elective Options:
    a. 3 additional credits of approved Humanities/Social Science courses; or
    b. ELE 3010 - Executive Leadership and Entrepreneurship I or ELE 4010 - Executive Leadership and Entrepreneurship II; or
    c. An additional 3-credit, 400-level course from the EE Technical Elective List or the CpE Technical Elective List; or
    d. An additional 3-credit MATH course from the following list: MATH 3110 (Linear Algebra), MATH 4120 (Intro. to Modern Algebra), MATH 4190 (Discrete Math I), MATH 4340 (Advanced Engineering Math), MATH 4350 (Complex Variables), MATH 4400 (Linear Programming), MATH 4410 (Intro to Stochastic Models), and MATH 4530 (Advanced Calculus I), MATH 4540 (Advanced Calculus II).

Electrical Engineering
Bachelor of Science Degree
Curricula years 2011-2012, 2012-2013

FRESHMAN YEAR

Fall semester	Cr	Term completed	Spring semester	Cr	Term completed
ENGR 1020 Intro Engr	2		CH 1020 & 1021 Gen Chemistry II	4	
CH 1010 & 1011 Gen Chemistry I	4		ENGR 1410 & 1411 Problm solvng	3	
ENGL 1030 Comp I	3		MATH 1080 Calc II	4	
MATH 1060 Calc I	4		PHYS 1220 Phys I	3	
Hum/Soc Sci req	3		Hum/Soc Sci req	3	
	16			17	

SOPHOMORE YEAR

Fall semester	Cr	Term completed	Spring semester	Cr	Term completed
CPSC 1110 & 1111 C/C++	3		ECE 2120 Circuits Lab II	1	
ECE 2010 Logic	2		ECE 2620 Circuits II	3	
ECE 2020 Circuits I	3		ECE 2720 Comp Org	3	
ECE 2090 Logic Lab	1		ECE 2730 Comp Org Lab	1	
ECE 2110 Circuits Lab I	1		MATH 2080 Diff Eq	4	
MATH 2060 Calc III	4		Hum/Soc Sci req OR EE Tech Elec	3	
PHYS 2210 Physics II	3		[ECE 2220 Sys Progrmng]		
	17			15	

JUNIOR YEAR

Fall semester	Cr	Term completed	Spring semester	Cr	Term completed
ECE 3110 Lab III	1		ECE 3120 Lab IV	1	
ECE 3200 Electronics I	3		ECE 3170 Random Signal	3	
ECE 3300 Signals/Sys	3		ECE 3210 Electronics II	3	
ECE 3600 Power Engineering	3		ECE 3710 Micro Inter	3	
ECE 3800 Electromagnetics	3		ECE 3720 Micro Inter Lab	1	
Adv. Mathematics Elective [1]	3		ECE 3810 Fields, Waves	3	
			ENGL 3140 Tech writing	3	
	16			17	

SENIOR YEAR

Fall semester	Cr	Term completed	Spring semester	Cr	Term completed
COMM 1500 &1501 or COMM 2500 &2501	3		ECE 4960 Systems Des II	2	
			EE Tech Elec OR	3	
ECE 4090 Syst. Des	3		Hum/Soc Sci req		
ECE 4270 Comm Systems	3		EE Tech Depth Elec	3	
ECE 4950 Systems Design I	2		Hum/Soc Sci req	3	
EE Tech Elec	3		Special Elective [2]	3	
	14			14	

NOTES:

1. Advanced Mathematics Elective Options: MATH 4190, MATH 4340, MATH 4350, MATH 4530, MATH 4540.
2. Special Elective Options:
    a. 3 additional credits of approved Humanities/Social Science courses; or
    b. ELE 3010 - Executive Leadership and Entrepreneurship I or ELE 4010 - Executive Leadership and Entrepreneurship II; or
    c. An additional 3-credit, 400-level course from the EE Technical Elective List or the CpE Technical Elective List; or
    d. An additional 3-credit MATH course from the following list: MATH 3110 (Linear Algebra), MATH 4120 (Intro. to Modern Algebra), MATH 4190 (Discrete Math I), MATH 4340 (Advanced Engineering Math), MATH 4350 (Complex Variables), MATH 4400 (Linear Programming), MATH 4410 (Intro to Stochastic Models), and MATH 4530 (Advanced Calculus I), MATH 4540 (Advanced Calculus II).

Electrical Engineering
Bachelor of Science Degree
Curriculum year 2010-2011

FRESHMAN YEAR

Fall semester	Cr	Term completed	Spring semester	Cr	Term completed
ENGR 1020 Intro Engr	2		CH 1020 & 1021 Gen Chemistry II	4	
CH 1010 & 1011 Gen Chemistry I	4		ENGR 1410 & 1411 Problm solvng	3	
ENGL 1030 Comp I	3		MATH 1080 Calc II	4	
MATH 1060 Calc I	4		PHYS 1220 Phys I	3	
Hum/Soc Sci req	3		Hum/Soc Sci req	3	
	16			17	

SOPHOMORE YEAR

Fall semester	Cr	Term completed	Spring semester	Cr	Term completed
CPSC 1110 & 1111 C/C++	3		ECE 2120 Circuits Lab II	1	
ECE 2010 Logic	2		ECE 2620 Circuits II	3	
ECE 2020 Circuits I	3		ECE 2720 Comp Org	3	
ECE 2090 Logic Lab	1		ECE 2730 Comp Org Lab	1	
ECE 2110 Circuits Lab I	1		MATH 2080 Diff Eq	4	
MATH 2060 Calc III	4		Hum/Soc Sci req OR EE Tech Elec	3	
PHYS 2210 Physics II	3		[ECE 2220 Sys Progrmng]		
	17			15	

JUNIOR YEAR

Fall semester	Cr	Term completed	Spring semester	Cr	Term completed
ECE 3110 Lab III	1		ECE 3120 Lab IV	1	
ECE 3200 Electronics I	3		ECE 3170 Random Signal	3	
ECE 3300 Signals/Sys	3		ECE 3210 Electronics II	3	
ECE 3710 Micro Inter	3		ECE 3600 Power Engineering	3	
ECE 3720 Micro Inter Lab	1		ECE 3810 Fields, Waves	3	
ECE 3800 Electromagnetics	3		ENGL 3140 Tech writing	3	
Adv. Mathematics Elective [1]	3				
	17			16	

SENIOR YEAR

Fall semester	Cr	Term completed	Spring semester	Cr	Term completed
COMM 1500 &1501 or COMM 2500 &2501	3		ECE 4960 Systems Des II	2	
			EE Tech Elec OR	3	
ECE 4090 Syst. Des	3		Hum/Soc Sci req		
ECE 4270 Comm Systems	3		EE Tech Depth Elec	3	
ECE 4950 Systems Design I	2		Hum/Soc Sci req	3	
EE Tech Elec	3		Literature requirement	3	
	14			14	

NOTES:
1. Advanced Mathematics Elective Options: MATH 4190, MATH 4340, MATH 4350, MATH 4530, MATH 4540.
2. No student may enroll in ECE courses until all pre-requisites have been passed with a grade of C or higher.
3. All EE majors must have a cumulative and Engineering GPR of 2.0 to enroll in any 300- or 400-level ECE course.
4. No student may exceed a maximum of two attempts, excluding a W, to successfully complete any ECE course.

Electrical Engineering
Bachelor of Science Degree
Curricula years 2008-2009, 2009-2010

FRESHMAN YEAR

Fall semester	Cr	Term completed	Spring semester	Cr	Term completed
ENGR 1020 Intro Engr	2		CH 1020 & 1021 Gen Chemistry II	4	
CH 1010 & 1011 Gen Chemistry I	4		ENGR 1410 & 1411 Problm solvng	3	
ENGL 1030 Comp I	3		MATH 1080 Calc II	4	
MATH 1060 Calc I	4		PHYS 1220 Phys I	3	
Hum/Soc Sci req	3		Hum/Soc Sci req	3	
	16			17	

SOPHOMORE YEAR

Fall semester	Cr	Term completed	Spring semester	Cr	Term completed
CPSC 1110 & 1111 C/C++	3		ECE 2120 Circuits Lab II	1	
ECE 2010 Logic	2		ECE 2620 Circuits II	3	
ECE 2020 Circuits I	3		ECE 2720 Comp Org	3	
ECE 2090 Logic Lab	1		ECE 2730 Comp Org Lab	1	
ECE 2110 Circuits Lab I	1		MATH 2080 Diff Eq	4	
MATH 2060 Calc III	4		Hum/Soc Sci req OR EE Tech Elec	3	
PHYS 2210 Physics II	3		[ECE 2220 Sys Progrmng]		
	17			15	

JUNIOR YEAR

Fall semester	Cr	Term completed	Spring semester	Cr	Term completed
ECE 3110 Lab III	1		ECE 3120 Lab IV	1	
ECE 3200 Electronics I	3		ECE 3170 Random Signal	3	
ECE 3300 Signals/Sys	3		ECE 3210 Electronics II	3	
ECE 3710 Micro Inter	3		ECE 3600 Power Engineering	3	
ECE 3720 Micro Inter Lab	1		ECE 3810 Fields, Waves	3	
ECE 3800 Electromagnetics	3		ENGL 3140 Tech writing	3	
Adv. Mathematics Elective [1]	3				
	17			16	

SENIOR YEAR

Fall semester	Cr	Term completed	Spring semester	Cr	Term completed
COMM 1500 &1501 or COMM 2500 &2501	3		ECE 4960 Systems Des II	2	
			EE Tech Elec OR	3	
ECE 4090 Syst. Des	3		Hum/Soc Sci req		
ECE 4270 Comm Systems	3		EE Tech Depth Elec	3	
ECE 4950 Systems Design I	2		Hum/Soc Sci req	3	
E E Tech Elec	3		Hum/Soc Sci req	3	
	14			14	

NOTES:
1. Advanced Mathematics Elective Options: MATH 4190, MATH 4340, MATH 4350, MATH 4530, MATH 4540.
2. No student may enroll in ECE courses until all pre-requisites have been passed with a grade of C or higher.
3. All EE majors must have a cumulative and Engineering GPR of 2.0 to enroll in any 300- or 400-level ECE course.
4. No student may exceed a maximum of two attempts, excluding a W, to successfully complete any ECE course.

2008-2009, 2009-2010 academic year

Updated 16 March 2014

Electrical Engineering
Bachelor of Science Degree
Curricula years 2005-2006, 2006-2007, 2007-2008

FRESHMAN YEAR

Fall semester	Cr	Term completed	Spring semester	Cr	Term completed
ENGR 1020 Intro Engr	2		CH 1020 & 1021 Gen Chemistry II	4	
CH 1010 & 1011 Gen Chemistry I	4		Hum/Soc Sci req	3	
ENGL 1030 Comp I	3		CPSC 1110 & 1111 C/C++	3	
MATH 1060 Calc I	4		MATH 1080 Calc II	4	
Hum/Soc Sci req	3		PHYS 1220 Phys I	3	
	16			17	

SOPHOMORE YEAR

Fall semester	Cr	Term completed	Spring semester	Cr	Term completed
Hum/Soc Sci req	3		ECE 2120 Circuits Lab II	1	
ECE 2010 Logic	2		ECE 2620 Circuits II	3	
ECE 2020 Circuits I	3		ECE 2720 Comp Org	3	
ECE 2090 Logic Lab	1		ECE 2730 Comp Org Lab	1	
ECE 2110 Circuits Lab I	1		MATH 2080 Diff Eq	4	
MATH 2060 Calc III	4		CE 2010 Statics	3	
PHYS 2210 Physics II	3				
	17			15	

JUNIOR YEAR

Fall semester	Cr	Term completed	Spring semester	Cr	Term completed
ECE 3110 Lab III	1		ECE 3120 Lab IV	1	
ECE 3200 Electronics I	3		ECE 3170 Random Signal	3	
ECE 3300 Signals/Sys	3		ECE 3210 Electronics II	3	
ECE 3710 Micro Inter	3		ECE 3600 Power Engineering	3	
ECE 3720 Micro Inter Lab	1		ECE 3810 Fields, Waves	3	
ECE 3800 Electromagnetics	3		ENGL 3140 Tech writing	3	
Adv. Mathematics Elective [1]	3				
	17			16	

SENIOR YEAR

Fall semester	Cr	Term completed	Spring semester	Cr	Term completed
COMM 1500 &1501 or COMM 2500 &2501	3		ECE 4960 Systems Des II	2	
			EE Tech Elec OR	3	
ECE 4090 Syst. Des	3		Hum/Soc Sci req		
ECE 4270 Comm Systems	3		EE Tech Depth Elec	3	
ECE 4950 Systems Design I	2		Hum/Soc Sci req	3	
EE Tech Elec	3		Hum/Soc Sci req	3	
	14			14	

NOTES:
1. Advanced Mathematics Elective Options: MATH 4190, MATH 4340, MATH 4350, MATH 4530, MATH 4540.
2. No student may enroll in ECE courses until all pre-requisites have been passed with a grade of C or higher.
3. All EE majors must have a cumulative and Engineering GPR of 2.0 to enroll in any 300- or 400-level ECE course.
4. No student may exceed a maximum of two attempts, excluding a W, to successfully complete any ECE course.

2005-2006, 2006-2007, 2007-2008 academic year

Updated 16March 2014