



Bachelor of Science in Electrical Engineering Electrical Engineering

				Min. Grade		Prerequisite	Additional Notes					
	3	Choose 1	Communication	С	010	For all 010 courses: Satisfactory scores on English portion of ACT test and TSI examination or ENGL 0301. For ENGL 1302, a grade of "C" or better in ENGL 1301.	See Core Curriculum for details. Option: ENGL 1301					
	4	MATH 2413	Calculus I	С	020	MATH 2412 with a grade of 'C' or better; or passing the Precalculus Exemption Test administered by the Department of Mathematics.						
	3	CSCI 1381	Introduction to Programming C++	С	090	Concurrent enrollment or credit for MATH 1314 or higher level mathematics course.						
FALL	1	EECE 1101	Introduction to Electrical and Computer Engineering	С								
	3	Choose 1	Social and Behavioral Sciences		080		See Core Curriculum for course options.					
		UNIV	1301 Learning Framework 1101 Academic and Career Success 1001/1300 Living and Working by Design				As required, based on a number of factors such as credit hours earned, TSI status, high school rank, major declaration, etc.					
EAR	14 Semester Total Hours											
ST YE	4	MATH 2414	Calculus II	С		MATH 2413 (or MATH 2487) with a grade of 'C' or better.						
E _	3	MATH 2346	Mathematics for Electrical and Computer Engineers	С		CSCI 1381 or CMPE 1170/1370 (or CMPE 1378/1178) or CSCI 1470 with a grade of 'C' or better, and MATH 2413 (or MATH 2487) with a grade of 'C' or better.						
SPRING	4	PHYS 2425	Physics for Scientists and Engineers I	С	030	MATH 2413.						
SPR	3	EECE 2306	Digital Systems Engineering I	С		Grade of C or better or registration in CMPE 1101 or ELEE 1101 or CSCI 1101 or EECE 1101.						
	1	EECE 2106	Digital Systems Engineering I Lab	С		Grade of C or better or registration in [CMPE 2330 or ELEE 2330 or EECE 2306].						
	15 Semester Total Hours											
	3	Choose 1	Communication	С		For all 010 courses: Satisfactory scores on English portion of ACT test and TSI examination or ENGL 0301. For ENGL 1302, a grade of "C" or better in ENGL 1301.	See Core Curriculum for details. Options: ENGL 1302 or ENGL 1305					
SUMMER	3	Choose 1	Creative Arts		050		See Core Curriculum for course options.					
	6 Se	mester Total Hours										
				Min. Grade		Prerequisite	Additional Notes					
	3	MATH 3341	Differential Equations	С		MATH 2414 with a grade of 'C' or better.						
	4	PHYS 2426	Physics for Scientists and Engineers II	С	030	PHYS 2425 and MATH 2414.						
FALL	3	EECE 2305	Electric Circuits I	С		Grade of C or better in MATH 2414 and [CMPE 1101 or ELEE 1101 or EECE 1101] and a grade of C or better or registration in PHYS 2426.						
w.	1	EECE 2105	Electric Circuits I Lab	С		Grade of C or better or registration in [CMPE 2320 or ELEE 2305 or EECE 2305].						
	3	EECE 2319	Numerical Computation and Data Visualization	С		Grade of C or better in CSCI 1381 and a grade of C or better or registration in MATH 2346.						
EAR	14 Se	mester Total Hours										
Y QNC	4	MATH 2415	Calculus III	С		MATH 2414 (or MATH 2488) with a grade of 'C' or better.						
SECO	3	CHEM 1309 or CHEM 1311	Chemistry for Engineers or General Chemistry			Minimum grade of C is required in one of the following courses: MATH 1314, MATH 1414, MATH 2412, MATH 2413 or MATH 2487.						
	3	EECE 3321	Signals and Systems	С		Grade of C or better in [CMPE 2320 or ELEE 2305 or EECE 2305] and a grade of C or better or registration in MATH 3341.						
SPRING	3	EECE 3301	Electronics I	С		Grade of C or better in [CMPE 2320 or ELEE 2305 or EECE 2305] and [CMPE 2120 or ELEE 2105 or EECE 2105]						
	1	EECE 3101	Electronics I Lab	С		Grade of C or better in [CMPE 2320 or ELEE 2305 or EECE 2305] and [CMPE 2120 or ELEE 2105 or EECE 2105] and a grade of C or better or registration in [EECE 3301 or ELEE 3301].						
	3	Choose 1	American History		060		See Core Curriculum. Options: HIST 1301 or HIST 2327					
	17 Se	mester Total Hours										

Symbols Key

			Min. GEC Grade	Prerequisite	Additional Notes					
2	EECE 3225	Electrical Engineering Lab I	С	Grade of C or better in: [ELEE 2330 or CMPE 2330 or EECE 2306] and [ELEE 2130 or CMPE 2130 or EECE 2106] and [EECE 2319 or CSCI 2380 or CMPE 2380] and a grade of C or better or registration in [ELEE 3321 or CMPE 3322 or EECE 3321] and [CMPE 3403 or ELEE 3301 or EECE 3301].						
3	EECE 3315	Electromagnetics Engineering		Grade of C or better in [EECE 2305 or ELEE 2305], MATH 2415 and PHYS 2426.						
4	EECE 3435	Microprocessor Systems	С	Grade of C or better in [ELEE 2330 or CMPE 2330 or EECE 2306] and [CSCI 1370 or CSCI 1381 or CSCI 1470] .						
3	EECE 4303	Digital Systems Engineering II		Grade of C or better in [ELEE 2330 or CMPE 2330 or EECE 2306].						
3	Choose 1	American History	060		See Core Curriculum. Options: HIST 1302 or HIST 2328					
15 Semester Total Hours										
2	EECE 3230	Electrical Engineering Lab II	С	[EECE 2319 or ELEE 2319] and [EECE 3225 or ELEE 3225] with a minimum grade of C.						
3	EECE 3340	Probability and Statistics for Electrical and Computer Engineers	С	Grade of 'C' or better in MATH 2414.						
3	EECE 3302	Electronics II		Grade of C or better in [EECE 3301 or ELEE 3301] and [EECE 3321 or ELEE 3321].						
3	EECE 43XX or 33XX	Prescribed Elective			Must be an approved 3000- or 4000-level EECE Prescribed Elective Course. See program of study for approved list.					
3	POLS 2305	U.S. Federal Govt & Politics	070							
14 \$	4 Semester Total Hours									
			Min. GEC Grade	Prerequisite	Additional Notes					
3	EECE 4321	Automatic Controls		Grade of C or better in [EECE 3321 or ELEE 3321] and MATH 3341.						
3	EECE 4328	Solid State Devices		Grade of C or better in [EECE 3301 or ELEE 3301].						
3	EECE 4351	Communication Theory		Grade of C or better in [EECE 3340 or ELEE 3340] and [EECE 3321 or ELEE 3321].						
3	EECE 4361	Senior Design I	С	Grade of C or better in [ELEE 3435 or CMPE 3437 or EECE 3435 or CSCI 2333 or CMPE 2333] and [CMPE 3403 or ELEE 3301 or EECE 3301] and [STAT 3337 or CMPE 3433 or ELEE 3340 or EECE 3330 or ELEE 3230] and [CMPE 3340 or ECCE 3230 or ELEE 3230] and [PMPE 3340 or ECCE 3230 or ELEE 3230] and [having finished with a grade of C or better or be enrolled in at least 6 credits of 4000-level ECCE coursework].						
3	PHIL 2326	Ethics, Technology, and Society	040							
15 5	Semester Total Hours									
15 §	Semester Total Hours EECE 43XX or 33XX	Prescribed Elective			Must be an approved 3000- or 4000-level EECE Prescribed Elective Course. See program of study for approved list.					
	EECE 43XX	Prescribed Elective Prescribed Elective			Must be an approved 3000- or 4000-level EECE Prescribed Elective Course. See program of study for approved list. Must be an approved 3000- or 4000-level EECE Prescribed Elective Course. See program of study for approved list.					
3	EECE 43XX or 33XX EECE 43XX			Grade of C or better in [EECE 4361 or ELEE 4361] or CMPE 4371 or CMPE 4373.	study for approved list. Must be an approved 3000- or 4000-level EECE Prescribed Elective Course. See program o					
3	EECE 43XX or 33XX EECE 43XX or 33XX	Prescribed Elective	070	Grade of C or better in [EECE 4361 or ELEE 4361] or CMPE 4371 or CMPE 4373.	study for approved list. Must be an approved 3000- or 4000-level EECE Prescribed Elective Course. See program o					
	3 4 3 3 3 115 5 1 3 3 3 3 3 3 3 3 3 3 3 3 3	3 EECE 3315 4 EECE 3435 3 EECE 4303 3 Choose 1 15 Semester Total Hours 2 EECE 3230 3 EECE 3230 3 EECE 3340 3 EECE 3302 3 POLS 2305 14 Semester Total Hours H Course # 3 EECE 4321 3 EECE 4321 3 EECE 4328 3 EECE 4351	3 EECE 4303 Digital Systems Engineering II 3 Choose 1 American History 15 Semester Total Hours 2 EECE 3230 Electrical Engineering Lab II 3 EECE 3340 Probability and Statistics for Electrical and Computer Engineers 3 EECE 3302 Electronics II 3 EECE 4303 Prospective Electrical Statistics of Electrical Additional Electronics II 4 Semester Total Hours 14 Semester Total Hours 15 Course II Course Title 16 EECE 4321 Automatic Controls 17 EECE 4328 Solid State Devices 18 EECE 4351 Communication Theory 2 EECE 4361 Senior Design I	Semester Total Hours	EECE 3225 Electrical Engineering Lab I C [EECE 2319 or CSQL 2380 or CSQL 2380 or CMPE 2380] and a grade of C or better or registration in [ELEE 3321 or CMPE 3322 or EECE 3321] and [CMPE 3430 or ECEE 3301] or EECE 3301 or EECE 3300 or EECE 2306] and [CSCL 1370 or CSCL 1381 or CSCL 1470]. 3					

125 TOTAL HOURS

(42) Advanced minimum credit hours

Revised: Tuesday, February 18th, 2025