

Table 2: EE-CpE curricula AND CS curriculum that is starting in Fall 2016

EE B.S. Curriculum			CpE B.S. Curriculum			CS B.S. Curriculum		
Number	Course Title	Cr.	Number	Course Title	Cr.	Number	Course Title	Cr.
MATH 156	Calculus I	4	MATH 156	Calculus I	4	CSCI-100	Intro to Computer Science	3
EECE 156	Math I Lab	1	EECE 156	Math I Lab	1		Non-technical Elective	3
EGPP 101	Intro. to Engineering	2	EGPP 101	Intro. to Engineering	2	EGPP 101	Intro. to Engineering	2
ENGW 104	Writing Literacy & Discourse	3	ENGW 104	Writing Literacy & Discourse	3	ENGW	English I	3
CHEM 003	Chemistry	4	CHEM 003	Chemistry	4		Science Lec A	4
CHEM 005	Chemistry Lab	1	CHEM 005	Chemistry Lab	1		Science Lab A	0
			PHED xxx	Physical Ed./ROTC	1			
	Total Credits Semester 1	15		Total Credits Semester 1	16		Total Credits Semester 1	15
MATH 157	Calculus II	4	MATH 157	Calculus II	4	MATH 156	Calculus I	4
EECE 157	Math II Lab	1	EECE 157	Math II Lab	1			
EGPP 102	Intro to Electrical Engineering and Computer Engineering	1	EGPP 102	Intro to Electrical Engineering and Computer Engineering	1	CSCI-211	UNIX Lab	1
ENGW 105	Reflective Writing Portfolio	3	ENGW 105	Reflective Writing Portfolio	3	ENGW	English II	3
PHYS 013	Physics Science and Eng. 1	3	PHYS 013	Physics Science and Eng. 1	3	SLMC 101	Principles of Speech	3
PHYS 023	Physics Science and Eng. 1 Lab	1	PHYS 023	Physics Science and Eng. 1 Lab	1	CSCI 135	Computer Science I	4
PHED xxx	Physical Ed./ROTC	1	PHED xxx	Physical Ed./ROTC	1			
	Total Credits Semester 2	14		Total Credits Semester 2	14		Total Credits Semester 2	15
MATH 158	Calculus III	4	MATH 158	Calculus III	4	MATH 157	Calculus II	4
EECE 158	Math III Lab	1	EECE 158	Math III Lab	1			
PHYS 014	Physics Science and Eng. 1	3	PHYS 014	Physics Science and Eng. II	3		Science Lec B (1)	4
PHYS 024	Physics Science and Eng. 1 Lab	1	PHYS 024	Physics Science and Eng. II Lab	1		Science Lab B (1)	0
CSCI 135	Computer Science I	4	CSCI 135	Computer Science I	4	CSCI 136	Computer Science II	3
	Social Science Elective	3		African American Studies Elective	3	CSCI 201	Computer Organization I	3
	Total Credits Semester 3	16		Total Credits Semester 3	16		Total Credits Semester 3	17
EECE 160	Engineering Mathematics	3	EECE 160	Engineering Mathematics	3	MATH 181	Discrete Math	3
EECE 260	Engineering Programming & Applications	3	CSCI 136	Computer Science II	3	CSCI 354	Computer Science III	3
EECE 203	Fundamentals of Circuit Theory	4	EECE 203	Fundamentals of Circuit Theory	4	CSCI 375	Software Engineering	3
EECE 209	Fundamentals of Circuit Theory Lab	1	EECE 209	Fundamentals of Circuit Theory Lab	1	CSCI 202	Computer Organization II	3
EECE 212	Fundamentals of Digital Systems	4	EECE 212	Fundamentals of Digital Systems	4		Science Lec B (2)	4
EECE 218	Fundamentals of Digital Systems Lab	1	EECE 218	Fundamentals of Digital Systems Lab	1		Science Lab B (2)	0
	Total Credits Semester 4	16		Total Credits Semester 4	16		Total Credits Semester 4	16

EE B.S. Curriculum			CpE B.S. Curriculum			CS B.S. Curriculum		
Number	Course Title	Cr.	Number	Course Title	Cr.	Number	Course Title	Cr.
EECE 305	Fundamentals of Electromagnetics	3	EECE 305	Fundamentals of Electromagnetics	3	CSCI 341	Theory of Computation	3
EECE 306	Fundamentals of Electromagnetics Lab	1	EECE 306	Fundamentals of Electromagnetics L.	1	CSCI 401	Operating Systems	3
EECE 309	Fund. of Electronics and SS Devices	3	EECE 309	Fund. of Electronics and SS Devices	3	CSCI 470	Fundamentals of Alg.	3
EECE 312	Fundamentals of Electronics and SS Devices Lab	1	EECE 312	Fundamentals of Electronics and SS Devices Lab	1	CSCI 450	Data Communications and Network Programming	3
EECE 331	Probability and Random Variables	3	EECE 331	Probability and Random Variables	3	CSCI 453	Intro to Cybersecurity	3
	Humanities Elective	3	EECE 406	Advanced Digital Systems	3			
PHED xxx	Physical Ed./ROTC	1	EECE 412	Advanced Digital Systems Lab	1			
	Total Credits Semester 5	15		Total Credits Semester 5	15		Total Credits Semester 5	15
EECE 333	Fundamentals of Signals and Systems	3	EECE 333	Fundamentals of Signals and Systems	3	CSCI 350	Structure of Programming Languages	3
EECE 325	Fundamentals of Energy Systems	3		Computer Engineering Elective	3		Technical Elective	3
EECE 326	Fundamentals of Energy Systems Lab	1	MATH 181	Discrete Structures	3	CSCI 211	Database Systems	3
	Engineering Science Elective	3	CSCI 201	Computer Organization I	3	MATH 180	Intro to Linear Algebra	3
EECE 320	Research in Undergraduate Experience	1	EECE 320	Research in Undergraduate Experience	1	ENGL 009	Technical Writing	3
	African American Studies Elective	3	ECON 001	Principles of Economics	3			
	Total Credits Semester 6	14		Total Credits Semester 6	16		Total Credits Semester 6	15
	Electrical Engineering Elective	3	EECE 416	Microcomputer Design	3	CSCI 363	Large Scale Programming	3
	Electrical Engineering Elective	3		Computer Engineering Elective	3		Applied Data Science	3
	Electrical Engineering Elective	3		Electrical Engineering Elective	3		Technical Elective	3
EECE 401	Senior Design I	3	EECE 401	Senior Design I	3	CSCI 491	Senior Project I	3
	Free Elective	3		Humanities Elective	3		Technical Elective	3
	Total Credits Semester 7	15		Total Credits Semester 7	16		Total Credits Semester 7	15
	Electrical Engineering Elective	3		Computer Engineering Elective	3		Technical Elective	3
	Electrical Engineering Elective	3		Electrical Engineering Elective	3		Technical Elective	3
	Electrical Engineering Elective	3		Social Science Elective	3		Non-technical Elective	3
EECE 404	Senior Design II	3	EECE 404	Senior Design II	3	CSCI 492	Senior Project II	3
ECON 001	Principles of Economics	3					Non-technical Elective	3
	Total Credits Semester 8	15		Total Credits Semester 8	12		Total Credits Semester 8	15