General Education and Major Coursework:	VCCS Equivalency:	General Education and Major Coursework:	VCCS Equivalency:
ENGL 110C	ENG 111*	CHEM 123N and 124N (4 credits)	CHM 112*
MATH 211 (4 credits)	MTH 173, 263 or 273*	MATH 212 (4 credits)	MTH 174, 264, or 274*
ENGN 110 (2 credits)	EGR 121 or 120*	PHYS 261N, 231N, or 226N	See note below*
CHEM 121N and 122N (4 credits)	CHM 111*	ECE 111	ITE 119 OR 120
Oral Communication: COMM 101R preferred	CST 100, 105 or 110		
1			
General Education and Major Coursework:	VCCS Equivalency:	General Education and Major Coursework:	VCCS Equivalency:
ENGL 211C or 231C	ENG 115 or 131*	MATH 312 or 285 (4 credits)	MTH 265 or 277*
ECE 201	EGR 260 or 271*	PHYS 319	11111200 012,7
MATH 307 or 280	MTH 267 or 279*	ECE 241	EGR 270 or 277*
PHYS 262N, 232N, or 227N (4 credits)	See note below*	PHYS 262N (4 credits)	See note below*
. 1115 2021, 2021, of 2271 (Teledita)	EGR 126 or ITP 132 (all VCCS) or	11115 2021 (Feledits)	See Hote Selow
ENGN 150	CSC 201 (only accepted from TCC,	ECE 287 (2 credits)	EGR 262*
	TNCC, PHCC or PDCCC)*	ECE 202	EGR 261 or 272*
		ECD 202	EGR 201 01 272
Major Coursework:	VCCS Equivalency:	Major Coursework:	VCCS Equivalency:
PHYS 323		PHYS 453 or ECE 323**	
PHYS 355		ECE 313 (4 credits)	
PHYS 425		ECE 381	
ECE 302 ECE 303		PHYS 411, 415, 416, or 417**	Transfer Equivalency Guide
ECE 303		Literature	Transfer Equivalency Guide
Major Coursework:		Major Coursework:	VCCS Equivalency:
ENMA 480 (Meets Philosophy and Ethics requirement)		PHYS 413	
PHYS 452		PHYS 456	
1110 102		PHYS 499W or 489W & 490W**	
ECE 304		ECE 387	
ECE 332		Human Behavior	Transfer Equivalency Guide
ECE 332 ECE Technical Elective I**		пинан велауюг	Transfer Equivalency Guide
ECE Technical Elective I**			
Major Coursework:	VCCS Equivalency:	Major Coursework:	VCCS Equivalency:
PHYS 420		PHYS 454	
ECE Technical Elective II**		ECE 487 (2 credits)	
ECE 485W		ECE Technical Elective III**	
ECE 486 (2 credits)		ECE Technical Elective IV**	
EGE 204			

The Upper Division General Education will be satisfied by completion of the dual majors.

ECE 304 Human Creativity

5-year, dual degree program in physics and electrical engineering. Students will receive a B.S. and B.S.E.E. upon graduation. Major provides the highest level of preparation for both graduate school and positions in industry.

Interpreting the Past

Transfer Equivalency Guide

Transfer Equivalency Guide

Note: PHYS 261N and 262N have no VCCS equivalency. However, if you must take Physics courses for the AS degree, you should take PHY 221, 231 or 241 and PHY 222, 232 or 242. These courses transfer as PHYS 231N and PHYS 232N. The Department will assess student's proficiency and substitute for PHYS 261N and 262N if eligible.

This five-year plan is a suggested curriculum to complete this degree program in four years. It is just one of several plans that will work and is presented only as broad guidance to students. Each student is strongly encouraged to develop a customized plan in consultation with their academic advisor. Additional information can also be found in Degree Works.