

B. S. Electrical Engineering Curriculum

Department of Electrical & Computer Engineering
2010-2011 Catalog

Name: _____

UIN: _____

FRESHMAN FIRST SEMESTER

			Term	Grade	Pre-/Co-requisites
ENGN 110	Engineering & Tech I	2	_____	_____	P-MATH 162M
CHEM 121N	Foundations Chem. I	3	_____	_____	P-MATH 102M
CHEM 122N	Foundations Chem I Lab	1	_____	_____	P-MATH 102M
MATH 211	Calculus I	4	_____	_____	P-MATH 163
ENGL 110C	English Comp I	3	_____	_____	P-pass Placement test
GEN ED: Human Creativity Way of Knowing		3	_____	_____	_____

FRESHMAN SECOND SEMESTER

ENGN 111	Engineering & Tech II	2	_____	_____	P-MATH 162M
CHEM 123N	Foundations Chem II	3	_____	_____	P-CHEM 121N/122N
MATH 212	Calculus II	4	_____	_____	P-MATH 211
CS 150	Intro to Programming	4	_____	_____	P-MATH 102M
PHYS 231N	University Physics I	4	_____	_____	P/C-MATH 211

SOPHOMORE FIRST SEMESTER

MATH 307(280)	Differential Equations	3	_____	_____	P-MATH 212
ECE 200	Engr. Analysis Tools	3	_____	_____	P-MATH 212, C-ECE 201
ECE 201	Circuit Analysis	3	_____	_____	P/C-MATH 307, PHYS 232N, ECE 200
PHYS 232N	University Physics	4	_____	_____	P-PHYS 231N
ECE 241	Fund. Comp. Engr.	4	_____	_____	P-CS 150, MATH 211

SOPHOMORE SECOND SEMESTER

ECE 202	Circ., Signals & Lin. Syst.	3	_____	_____	P-ECE 201, MATH 307
ECE 287	Circuit Laboratory	2	_____	_____	P-ECE 201, CS 150, C-ECE 202
Engr	Nonmajor Engr elec	3	_____	_____	_____
MATH 312(285)	Calculus III	4	_____	_____	P-MATH 212
GEN ED: Interpreting Past Way of Knowing		3	_____	_____	_____

JUNIOR FIRST SEMESTER

ECE 303	Electrical Power	3	_____	_____	P-ECE 201
ECE 313	Electronic Circuits	4	_____	_____	P-ECE 202, P/C-241
ECE 332	Micro. Materials	3	_____	_____	P-ECE 202
GEN ED: Literature Way of Knowing		3	_____	_____	_____
ECE 381	Discrete-Time Signal Proc	3	_____	_____	_____

JUNIOR SECOND SEMESTER

ECE 304	Prob. Stat. & Reliab.	3	_____	_____	P-MATH 212
ECE 387	Microelec. Fabric. Lab	3	_____	_____	P-ECE 332
ECE 323	Electromagnetics	3	_____	_____	P-ECE 202
ENMA 480: Ethics & Philosophy in Engin.		3	_____	_____	_____
ENGL 231C	Technical Writing	3	_____	_____	P-ENGL 110C

SENIOR FIRST SEMESTER

ECE 485W	EE Design I	3	_____	_____	P-ECE 313, P/C-ECE 304
ECE 486	Prep to ECE Design II	1	_____	_____	P-ECE 485W
ECE 4XX	Technical Elective 1	3	_____	_____	_____
ECE 4XX	Technical Elective 2	3	_____	_____	_____
Upper Division Gen Education		3	_____	_____	_____
GEN ED: Human Behavior Way of Knowing		3	_____	_____	_____

SENIOR SECOND SEMESTER

ENGN 401	FE Exam Review	1	_____	_____	_____
ECE 487	ECE Design II	2	_____	_____	_____
ECE 4XX	Technical Elective 3	3	_____	_____	_____
ECE 4XX	Technical Elective 4	3	_____	_____	_____
Elec	Approved Elective	3	_____	_____	_____
Upper Division Gen Education		3	_____	_____	_____

TOTAL CREDITS: 127

Additional Graduation Requirements:

Foreign Language Requirement: _____ Senior Assessment: _____
Application for Graduation: _____ Passage of Exit Writing Exam _____

The General Education requirements in Information Literacy and Research, Oral Communication, Impact of Technology, and Philosophy and Ethics are met through the major. Does not include the University general education Language and Culture requirement- students may need to take additional classes to meet this requirement.