

Bachelor of Science in Electrical Engineering, Manufacturing Emphasis

Effective D Fall 2019

S-H-F: Social Science, Humanities, or Fine Arts Electives; Tech-E: Technical Electives

FRESHMAN YEAR					
MANF 150	Intro to Eng/Manufacturing	1	MANF 152	Intro to Eng/Manufacturing I	1
CHEM 105	General Chemistry I _____	3	CSCI 259 #	Programming in C++ _____	3
CHEM 115	General Chemistry Lab I _____	1	EL E 235	Princip. of Digital Systems _____	3
CSCI 251	Prog. for Eng. and Sci. _____	3	EL E 236	Digital Systems Lab I _____	1
EL E 100 #	Intro. to Electrical Eng. _____	1	WRIT 102	First Year Writing II _____	3
WRIT 101	First Year Writing I _____	3	MATH 262	Calculus II _____	3
MATH 261	Calculus I _____	3	PHYS 211	Phys. for Sci. & Eng. I _____	3
S-H-F		3	PHYS 221	Phys. for Sci. & Eng. Lab I _____	1
Semester Total:			18	Semester Total: 18	
SOPHOMORE YEAR					
EL E 385 #	Advanced Digital Systems _____	3	ECON 310	Engineering Economy _____	3
MATH 263	Calculus III _____	3	EL E 386 #	Adv. Digital Sys. Lab _____	1
PHYS 212	Phys. for Sci. & Eng. II _____	3	ENGR 361	Electric Circuit Laboratory _____	1
PHYS 222	Phys. for Sci. & Eng. Lab II _____	1	MATH 264	Calculus IV _____	3
ENGR 360	Electric Circuit Theory _____	3	MATH 353	Differential Equations _____	3
MANF 251	Manufacturing Processes _____	3	ENGR 310	Engineering Analysis I _____	3
MANF 252	Product Realization Lab _____	1			
EL E 237 #	Elect. Eng. Tools & Toys _____	1	MANF 253	Strategic Planning* _____	3
Semester Total:			18	Semester Total: 17	
JUNIOR YEAR					
MANF 353	Acct. Finance Mgmt for Mfg _____	2	MANF 351	Manf Prod./Process Design* _____	1
EL E 331 #	Linear Systems _____	3	EL E 341 #	Theory of Fields _____	3
EL E 351 #	Electronics Circuits I _____	3	EL E 352 #	Electronics Circuits II _____	3
EL E 485 #	Micropr. Systems Eng. _____	2	EL E 353 #	Electronics Lab _____	1
EL E 486 #	Micropr. Systems Eng. Lab _____	1	EL E 367 #	CAD in Electrical Eng. _____	3
MANF 255*	Lean Manuf. I _____	1	EL E 391 #	Random Signals _____	3
EL E 340 #	Elect. Eng. Analysis I _____	3	MANF 355*	Lean Manuf. II _____	1
Semester Total:			15	Semester Total: 15	
SENIOR YEAR					
MANF 455	Lean Manuf. III* _____	3	EL E 462 #	Senior Design in EE II _____	2
S-H-F xxx	_____	3	EL E 431 #	Theory of Control Systems _____	3
EL E xxx	Tech-E _____	3	S-H-F xxx	_____	3
EL E 447 #	Mod., Noise, & Comm. _____	3	EL E xxx	Tech-E _____	3
EL E 461 #	Senior Design in EE I _____	1	S-H-F xxx	_____	3
S-H-F xxx	_____	3			
ENGR 309	Statics _____	3			
Semester Total:			19	Semester Total: 14	

Offered only in the semester listed. No summer offering

Total Credit Hours: 134

MANF 255* includes May Intersession after Sophomore Year Registration

MANF 355* includes Winter Intersession of Junior Year Registration

MANF courses marked as * count as Tech. Electives for BSEE;

other non-MANF, Tech-E courses, are mandatory for the BSEE degree