

## ELECTRICAL ENGINEERING – *manufacturing track*

### Recommended course schedule

YEAR	FIRST SEMESTER	HOURS	SECOND SEMESTER	HOURS
<b>FRESHMAN</b>	MANF 150 - Intro to Engineering & Manufacturing I	1	MANF 152 - Intro to Engineering & Manufacturing II	1
	Writ 101 – First Year Writing I	3	Writ 102 – First Year Writing II	3
	Chem 105/115 – General Chemistry I	4	Math 262 – Calculus II	3
	Math 261 – Calculus I	3	Phys 211/221 – Calc-based physics I	4
	Social Science/Humanities or Fine Arts	3	El E 235/236 – Principles of Digital Systems	4
	Social Science/Humanities or Fine Arts	3	CSCI 256 – Programming in Python	3
	<b>TOTAL CREDIT HOURS</b>	<b>17</b>	<b>TOTAL CREDIT HOURS</b>	<b>18</b>
	<b>SOPHOMORE</b>	MANF 251/252 - Manufacturing Processes/Prod Realization Lab	4	MANF 253 – Strategic Planning
Math 263 – Calculus III		3	Math 264 – Calculus IV	3
Phys 212/222 – Calc-based Physics II		4	Math 353 – Differential Equations	3
ENGR 360 – Electric Circuit Theory		3	ENGR 310 – Engineering Analysis I	3
El E 385/386 – Adv Digital Systems		4	ENGR 361 – Circuits Lab	1
El E 237 – Elec. Engr Tools and Toys		1	CSCI 356 – Data Structures in Python	3
<b>TOTAL CREDIT HOURS</b>		<b>19</b>	<b>TOTAL CREDIT HOURS</b>	<b>16</b>
<b>JUNIOR</b>		MANF 353 - Accounting & Financial Management for Manufacturing	3	MANF 351 - Manufacturing Product and Process Design
	MANF 255 – Standardized Work & Takt Time	1	MANF 355 - Continuous Flow/Layout	1
	El E 351 – Electronics Circuits I	3	El E 341 – Theory of Fields	3
	El E 485/486 – Microprocessor Systems	3	El E 352/353 – Electronics Circuits II	4
	El E 331 – Linear Systems	3	El E 367 – CAD in Electrical Engineering	3
	El E 340 – Elec. Engr Analysis I	3	El E 391 – Random Signals	3
	<b>TOTAL CREDIT HOURS</b>	<b>16</b>	<b>TOTAL CREDIT HOURS</b>	<b>15</b>
	<b>SENIOR</b>	MANF 455 - Practical Problem Solving	3	El E 462 – Senior Design II
El E 461 – Senior Design I		1	El E 431 – Control Theory	3
El E 447- Modulation, Noise and Comms		3	El E Tech Elective	3
Econ 310 – Engineering Economy		3	Social Science, Humanities or Fine Arts	3
Engr 309 – Statics		3	Social Science, Humanities or Fine Arts	3
El E Tech Elective		3		
Social Science, Humanities or Fine Arts		3		
<b>TOTAL CREDIT HOURS</b>		<b>19</b>	<b>TOTAL CREDIT HOURS</b>	<b>14</b>
			<b>MINIMUM TOTAL CREDIT HOURS</b>	<b>134</b>



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