

# Springfield Technical Community College Engineering

<b>WNE PROPOSED CURRICULUM</b> (Without Recommended Courses)		
<b>SUMMER SEMESTER PRIOR TO START OF YEAR 1</b>		
MATH 133	Calculus I	4 cr.
CUL XXX	Global Cultures Perspective	3 cr.
	Total	7 cr.
<b>FALL SEMESTER 1</b>		
MATH 134	Calculus II	4 cr.
PHYS 133	Mechanics	4 cr.
ENGR 105/HONE 105	Computer Programming for Engineers	2 cr.
PH XXX	Ethical Perspective	3 cr.
HIST XXX	Historical Perspective	3 cr.
	Total	16 cr.
<b>SPRING SEMESTER 2</b>		
MATH 236	Differential Equations	3 cr.
PHYS 134	Electricity and Magnetism	4 cr.
CPE 271	Digital System Design	4 cr.
EE 205/HONE 205	Electrical Engineering I	4 cr.
ENGL 133	English Composition II	3 cr.
	Total	18 cr.
<b>SUMMER SEMESTER AFTER YEAR 1</b>		
EE 206	Electrical Engineering II	4 cr.
	Total	4 cr.
<b>FALL SEMESTER 3</b>		
EE 301	Signals and Systems	3 cr.
EE 303	Electronic Circuits	3 cr.
EE 314	Electromagnetic Fields and Waves	3 cr.
EE 319	Electrical Engineering Laboratory I	2 cr.
MATH 235	Calculus III	3 cr.
ME 202/HONE 202	Statics	3 cr.
	Total	17 cr.
<b>SPRING SEMESTER 4</b>		
EE 302	Introduction to Digital Signal Processing	3 cr.
EE 320	Analog Integrated Circuits	3 cr.
EE 322	Electrical Engineering Laboratory II	2 cr.
xxx	Design Elective	3 cr.
xxx	Technical Elective	3 cr.
EE 436	Project Research, Innovation and Development	2 cr.
	Total	16 cr.
<b>FALL SEMESTER 5</b>		
EE 422	Control Systems	3 cr.
EE 427	Electrical Engineering Laboratory III	2 cr.
EE 439	Professional Awareness	1 cr.
EE 440	Senior Design Projects	3 cr.
xxx	Design Elective	3 cr.
xxx	Design Elective	3 cr.
xxx	Technical Elective	3 cr.
	Total	18 cr.

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<b>FALL SEMESTER 1</b>		
ENGR 105/HONE 105	Computer Programming for Engineers	2 cr.
MATH 236	Differential Equations	3 cr.
PHYS 134	Electricity and Magnetism	4 cr.
EE 205/HONE 205	Electrical Engineering I	4 cr.
ENGL 133	English Composition II	3 cr.
	Total	16 cr.
<b>SPRING SEMESTER 2</b>		
CPE 271	Digital System Design	4 cr.
EE 206	Electrical Engineering II	4 cr.
MATH 235	Calculus III	3 cr.
ME 202/HONE 202	Statics	3 cr.
HIST XXX	Historical Perspective	3 cr.
	Total	17 cr.
<b>FALL SEMESTER 3</b>		
EE 301	Signals and Systems	3 cr.
EE 303	Electronic Circuits	3 cr.
EE 314	Electromagnetic Fields and Waves	3 cr.
EE 319	Electrical Engineering Laboratory I	2 cr.
PH XXX	Ethical Perspective	3 cr.
CUL XXX	Global Cultures Perspective	3 cr.
	Total	17 cr.
<b>SPRING SEMESTER 4</b>		
EE 302	Introduction to Digital Signal Processing	3 cr.
EE 320	Analog Integrated Circuits	3 cr.
EE 322	Electrical Engineering Laboratory II	2 cr.
xxx	Design Elective	3 cr.
xxx	Technical Elective	3 cr.
EE 436	Project Research, Innovation and Development	2 cr.
	Total	16 cr.
<b>FALL SEMESTER 5</b>		
EE 422	Control Systems	3 cr.
EE 427	Electrical Engineering Laboratory III	2 cr.
EE 439	Professional Awareness	1 cr.
EE 440	Senior Design Projects	3 cr.
xxx	Design Elective	3 cr.
xxx	Design Elective	3 cr.
xxx	Technical Elective	3 cr.
	Total	18 cr.

WESTERN NEW ENGLAND COURSES			STCC EQUIVALENT COURSES	
ENGL 132	English Composition I	3 cr.	ENG-101: English Composition 1	3
ENGR 103	Introduction to Engineering	4 cr.	MET 101 and MET 160 or EGR 103	4
ENGR 110/HONE 110	Data Acquisition and Processing	3 cr.	ELE-180: Instrumentation and Measurement	3
CHEM 105	General Chemistry I	4 cr.	CHM-111: General Chemistry 1/CHM-111L–Lab: General Chemistry 1	4
SBP XXX	Social/Behavioral Perspective	3 cr.	EL-SOC: General Behavioral/Social Science Elective	3
EE 285	Computational Techniques in C	3 cr.	ELE-240: Sensors and Data Acquisition	3
IE 212	Probability and Statistics	3 cr.	MAT-115: Statistics	3
EE 212	Fundamentals of Electro-Optics	3 cr.	LEO 240/240L	3
xxx	Technical Elective	3 cr.	LEO 135 and LEO 235 Satisfy PHYS 301–Optics	3
GEN XXX	General Elective	3 cr.	ENG-104: Technical Report Writing	3
Total		32	Total	32

RECOMMENDED STCC COURSES PRIOR TO ENROLLING AT WNE		
MAT-131	Calculus 1	4 cr.
MAT-132	Calculus 2	4 cr.
PHYS-231	Physics 1	4 cr.

This is not an articulation agreement. This chart should serve as a reference for Springfield Technical Community College students who eventually plan to transfer to Western New England University. We hope that this will aid you in working towards your academic goals and maximize the transfer credit applied towards a degree at Western New England University. Please reference our University Catalogue for additional information. A maximum of 70 semester hours may be transferred from two-year institutions.