

Articulation Verification: Course to Course Alignment

WESTCHESTER COMMUNITY COLLEGE					SUNY Polytechnic Institute			
Degree:		A.S.			Degree:		B.S.	
Program of Study:		Engineering Science			Program of Study:		Mechanical Engineering	
Course Prefix	Course Number	Title	Cr.	√	Course Prefix	Course Number	Title	Cr.
CORE REQUIREMENTS								
ENG	101	Writing and Research	3		ENG	101	Composition	3
ENG	102	Writing and Literature	3		HUM	0	Humanities	3
MATH	181	Calculus 1	4		MAT	151	Calculus 1	4
MATH	191	Calculus 2	4		MAT	152	Calculus 2	4
MATH	230	Calculus 3	4		MAT	253	Calculus 3	4
MATH	240	Differential Equations	4		MAT	260	Differential Equations and Time Series	4
CHEM	107	Inorganic Chemistry 1 (and Lab)	5		CHE	130	Introductory Chemistry	4
PHYSC	121	Engineering Physics 1 (and Lab)	5		PHY	201	Calc-based Physics 1	4
PHYSC	122	Engineering Physics 2 (and Lab)	5		PHY	202	Calc-based Physics 2	4
		Social Sciences, see SUNY Gen. Ed. Courses	3				Gen Ed	3
		American History, The Arts, Foreign Language, Other World Civilizations, Western Civilization- see SUNY Gen. Ed. courses (Select ONE course)	3				Gen Ed	3
DEGREE REQUIREMENTS								
COMSC	101	Computer Programming 1	4		ESC	120	Design Tools and Processes	3
MECH	109	Intro to Engineering	3		ESC	110	Introduction to Engineering	3
MECH	126	Statics	3		ESC	210	Engineering Mechanics: Statics	3
		Select ONE of the following FOUR paths to complete the remaining degree requirements:						
		Engineering Science (No Concentration)	12					
CIVIL	214	Surveying 1						
CIVIL	221	Strength of Materials			ESC	230	Mechanics of Materials	3
COMSC	110	Computer Programming 2						
COMSC	201	Data Structures						
ELEC	128	Electrical Circuits						
ELEC	129	Digital Logic						
ELEC	223	Digital Logic and Switching Circuits						
ELEC	227	Electrical System Analysis						
ELEC	255	Circuits for Engineers			ECE	260	Electrical Circuits	3
MECH	127	Introduction to Thermodynamics			ME	330	Thermodynamics 1	3
MECH	227	Dynamics			ESC	240	Dynamics	3
		Civil Engineering Concentration	9					
CIVIL	214	Surveying 1						
CIVIL	221	Strength of Materials						
MECH	227	Dynamics						
		and select ONE of the following courses:	4					
BIOL	101	Principles of Biological Science (and Lab)						

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CHEM	111	Inorganic Chemistry 2 (and Lab) (5 credits)					
PHYS	143	Earth Science (and Lab)					
		Electrical Engineering Concentration	14		14	#VALUE!	
ELEC	223	Digital Logic and Switching Circuits					
ELEC	227	Electrical System Analysis					
ELEC	255	Circuits for Engineers					
MATH	215	Linear Algebra					
		Mechanical Engineering Concentration	12		12	#VALUE!	
CIVIL	221	Strength of Materials					
ELEC	255	Circuits for Engineers					
MECH	127	Introduction to Thermodynamics					
MECH	227	Dynamics					
TOTAL							61
NOTES:							
WCC general education "gen. ed." course options are located at www.sunywcc.edu/gened							
Minimum Total Credits = 65							