## PRE/COREQUISITES FOR MECHANICAL & MANUFACTURING ENGINEERING PROGRAM

	Course	Pre and Co-requisites
Freshman all Semester	ENGL 1010 - Freshman English I	Pre-requisite: None
	MATH 1910 - Calculus I	Pre-requisite: MATH 1720 or 1730, or permission of Department Chair
	CHEM 1110 - General Chemistry I	<b>Pre-requisite:</b> High School Chemistry OR CHEM 1000/1001 and 2 years of high school algebra
	CHEM 1111 - General Chemistry Lab I	Co-requisite: CHEM 1110
	ENGR 1020 - Freshman Engr. Seminar	Pre-requisite: None
	ENGR 1151 - Computer Engr. Graphics	Pre-requisite: None
	UNIV 1000 - University Orientation	Pre-requisite: None
	ENGL 1020 - Freshman English II	Pre-requisite: Grade of "C" or better in ENGL 1010
	MATH 1920 - Calculus II	Pre-requisite: Grade of "C" or better in MATH 1910
Spring Semester	PHYS 2110 - General Physics I	Pre-requisite: Grade of "C" or better in MATH 1910; Co-requisite: MATH 1920
ıes	PHYS 2111 - General Physics Lab I	Co-requisite: PHYS 2110
en	ENGR 2230 - Engineering	Pre-requisite: Grade of "C" or better in ENGR 1020 and MATH 1910
<u> </u>	Programming, or	
ri.	ENGR 2240 – MATLAB Based	
ds	Programming for Engineers	
	COMM 2200-Public Speaking	Pre-requisite: None
	MATH 2110 - Calculus III	Pre-requisite: Grade of "C" or better in MATH 1920
Fall Semester	HIST 2010 - American History I	Pre-requisite: Grade of "C" or better in ENGL 1020
	ENGR 2110 - Statics	Pre-requisite: Grade of "C" or better in PHYS 2110
	ENGR 2010 - Thermodynamics	Pre-requisite: Grade of "C" or better in PHYS 2110
II S	PHYS 2120 - General Physics II	Pre-requisite: PHYS 2110
Fa	PHYS 2121 - General Physics Lab II	Co-requisite: PHYS 2120
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Sophomore Spring Semester	MATH 3120 - Applied Mathematics	Pre-requisite: Grade of "C" or better in MATH 1920
	(Ordinary Differential Equation on	
	the Banner)	
	ENGR 2000 - Circuits I	<b>Pre-requisite:</b> Grade of "C" or better in ENGR 2230 (or ENGR 2240), MATH 2110 and PHYS 2120; <b>Corequisite:</b> MATH 3120
	ENGR 2001 - Circuits Lab I	Co-requisite: ENGR 2000
	Humanities Elective	Please check current TSU Undergraduate Catalog
	ENGR 2120 - Dynamics	Pre-requisite: Grade of "C" or better in ENGR 2110
	Humanities Elective English	Pre-requisite: Grade of "C" or better in ENGL 1020

## PRE/COREQUISITES FOR MECHANICAL & MANUFACTURING ENGINEERING PROGRAM (Contd.)

		Course	Pre and Co-requisites
Junior Fall Semester		ENGR 3200 - Introduction to Design	Pre-requisite: Grade of "C" or better in ENGR 2010, ENGR 2120
		ENGR 3300 - Materials Science	Pre-requisite: Grade of "C" or better in CHEM 1110 and PHYS 2120
		ENGR 3400 - Numerical Analysis	<b>Pre-requisite:</b> Grade of "C" or better in ENGR 2230 (or ENGR 2240) and MATH 3120
		MEEN 3210 - Mechanism Design	Pre-requisite: Grade of "C" or better in ENGR 2120
		MEEN 3511 - Measurements Lab	Pre-requisite: ENGR 2230 (or ENGR 2240), Co-requisite: ENGR 3200
lr F		ENGR 2130 - Mechanics of Materials	Pre-requisite: Grade of "C" or better in ENGR 2110
Junic		ENGR 2131 - Mechanics of Materials Lab	Co-requisite: ENGR 2130
Junior Spring		Mathematics/Science	Please check current TSU Undergraduate Catalog
		MEEN 3100 - Materials Processing	Pre-requisite: Grade of "C" or better in ENGR 3300; Co-requisite: MEEN 3521
	Semester	MEEN 3220 - Design of Machine Elements	Pre-requisite: Grade of "C" or better in ENGR 2130 and MEEN 3210
	ne	MEEN 3250 - Computer Aided Design	Pre-requisite: Grade of "C" or better in ENGR 3200
	Ser	MEEN 3521- Materials Processing	<b>Pre-requisite:</b> Grade of "C" or better in MEEN 3511, ENGR 3300; <b>Co-requisite</b> :
n(		Lab	MEEN 3100
		CVEN 3100 - Fluid Mechanics	Pre-requisite: Grade of "C" or better in ENGR 2110
		Technical Elective	Please check current TSU Undergraduate Catalog
		HIST 2020 - American History II	Pre-requisite: Grade of "C" or better in ENGL 1020
		MEEN 4011 - Mechatronics Lab	Pre-requisite: Grade of "C" or better in ENGR 2000, ENGR 2001, MEEN 3511
		MEEN 4150 - Heat Transfer	Pre-requisite: Grade of "C" or better in ENGR 2010, CVEN 3100 and ENGR 3400
Senior Fall	ter	MEEN 4230 - Machine Design	Pre-requisite: Grade of "C" or better in MEEN 3220 and MEEN 3250
	ıes	ENGR 4201 - FE Review Lab	Pre-requisite: senior standing
	Semester	ENGR 4500 - Capstone Design I	Pre-requisite: Grade of "C" or better in ENGR 3200, MEEN 3220, MEEN 3250, Co-requisite: MEEN 4150
	0,	ENGR 4900 - Professional	Pre-requisite: senior standing
		Development	11e-requisite. Semon standing
		Social Science Elective	Please check current TSU Undergraduate Catalog
Senior Spring		MEEN 4021 - Thermal/Fluid Systems	Pre-requisite: Grade of "C" or better in MEEN 4150
		Lab	
	er	MEEN 4250 - Design of Thermal	Pre-requisite: Grade of "C" or better in MEEN 4150
	Semester	Systems	
	em	ENGR4510- Capstone Design II	Pre-requisite: Grade of "C" or better in ENGR 4500
	Š	Design Elective	Please check current TSU Undergraduate Catalog
S		Humanities Elective	Please check current TSU Undergraduate Catalog
1		Social Science Elective	Please check current TSU Undergraduate Catalog