PRE/COREQUISITES FOR MECHANICAL & MANUFACTURING ENGINEERING PROGRAM

	Course	Pre and Co-requisites	MME Website	TSU Catalog
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	Pre-requisite: High School Chemistry OR CHEM 1000/1001 and 2 years of high		
		school algebra		
	CHEM 1111 - General Chemistry Lab I	Co-requisite: CHEM 1110		
	CHEM 1111 - General Chemistry Lab I ENGR 1020 - Freshman Engr. Seminar ENGR 1151 - Computer Engr.	Pre-requisite: None		
	ENGR 1151 - Computer Engr. Graphics	Pre-requisite: None		
		Pre-requisite: None		
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	ENGL 1020 - Freshman English II	Pre-requisite: Grade of "C" or better in ENGL 1010		1
<u>_</u>		Pre-requisite: Grade of "C" or better in MATH 1910	1	
ر ste	PHYS 2110 - General Physics I	Pre-requisite: Grade of "C" or better in MATH 1910; Co-requisite: MATH 1920		
Freshman ing Semes	MATH 1920 - Calculus II PHYS 2110 - General Physics I PHYS 2111 - General Physics Lab I			
res	ENGR 2240 – MATLAB Based	Pre-requisite: Grade of "C" or better in ENGR 1020 and MATH 1910	Ok	Ok
	ENGR 2240 – MATLAB Based Programming for Engineers	·		
	COMM 2200-Public Speaking	Pre-requisite: None		
	MATH 2110 - Calculus III	Pre-requisite: Grade of "C" or better in MATH 1920		
_	HIST 2010 - American History I	Pre-requisite: Grade of "C" or better in ENGL 1020		
ore ste	ENGR 2110 - Statics	Pre-requisite: Grade of "C" or better in PHYS 2110	Ok	Ok
Sophomore all Semeste	ENGR 2110 - Statics ENGR 2010 - Thermodynamics PHYS 2120 - General Physics II	Pre-requisite: Grade of "C" or better in PHYS 2110	Ok	Ok
Se	PHYS 2120 - General Physics II	Pre-requisite: PHYS 2110		
Sop Fall	PHYS 2121 - General Physics Lab	Co-requisite: PHYS 2120		
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	MATH 3120 - Applied Mathematics	Pre-requisite: Grade of "C" or better in MATH 1920		
	(Ordinary Differential Equation on			
	the Banner)			
	ENGR 2000 - Circuits I	Pre-requisite: Grade of "C" or better in ENGR 2230 (or ENGR 2240), and PHYS 2120; Corequisite: MATH 3120	Ok	Ok
Se	ENGR 2001 - Circuits Lab I	Prerequisite(s): ENGR 2230 or ENGR 2240, PHYS 2120, Corequisite(s): ENGR 2000	Ok	Ok
d gr	Humanities Elective ENGR 2120 - Dynamics	Please check current TSU Undergraduate Catalog		
So Sprir	ENGR 2120 - Dynamics	Pre-requisite: Grade of "C" or better in ENGR 2110	Ok	Ok
	ENGR 2130 - Mechanics of Materials	Pre-requisite: Grade of "C" or better in ENGR 2110	Ok	Ok
	ENGR 2131 - Mechanics of Materials Lab	Co-requisite: ENGR 2130	Ok	Ok

	Course	Pre and Co-requisites	MME Website	TSU Catalog
Junior Fall Semester	ENGR 3200 - Introduction to Design	Pre-requisite: Grade of "C" or better in ENGR 2010	Ok	Ok
	ENGR 3300 - Materials Science	Pre-requisite: Grade of "C" or better in CHEM 1110 and PHYS 2120	Ok	Ok
	ENGR 3400 - Numerical Analysis	Pre-requisite: Grade of "C" or better in ENGR 2230 or ENGR 2240 and MATH 3120	Ok	Ok
	MEEN 3210 - Mechanism Design	Pre-requisite: Grade of "C" or better in ENGR 2120	Ok	Ok
	MEEN 3511 - Measurements Lab	Pre-requisite: ENGR 2230 (or ENGR 2240), Co-requisite: ENGR 3200	Ok	Ok
	CVEN 3100 - Fluid Mechanics	Pre-requisite: Grade of "C" or better in ENGR 2110; Co-requisite: ENGR 2120	Ok	Ok
	ENGL 2??? – Sophomore English	Please check current TSU Undergraduate Catalog		
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Junior pring Semes	Mathematics/Science	Please check current TSU Undergraduate Catalog		
	MEEN 3100 - Materials Processing	Pre-requisite: Grade of "C" or better in ENGR 3300	Ok	Ok
	MEEN 3220 - Design of Machine Elements	Pre-requisite: Grade of "C" or better in ENGR 2130 and MEEN 3210	Ok	Ok
	MEEN 3250 - Computer Aided Design	Pre-requisite: Grade of "C" or better in ENGR 3200	Ok	Ok
	MEEN 3521- Manufacturing Processes Laboratory	Pre-requisite: Grade of "C" or better in MEEN 3511, Co-requisite: MEEN 3100	Ok	Ok
S	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	Ok	Ok
	MEEN 4150 - Heat Transfer	Pre-requisite: Grade of "C" or better in ENGR 2010, CVEN 3100 and ENGR 3400	Ok	Ok
<u>.</u>	MEEN 4230 - Machine Design	Pre-requisite: Grade of "C" or better in MEEN 3220 and MEEN 3250	Ok	Ok
ste	ENGR 4201 - FE Review Lab	Pre-requisite: senior standing	Ok	Ok
Senior Fall Semester	ENGR 4500 - Capstone Design I	Pre-requisite: Grade of "C" or better in ENGR 3200, MEEN 3220, MEEN 3250, Co-requisite: MEEN 4150 (This is MME internal requirement)	Ok	Pre-req: Senior standing, approval of advisor or department chair (Catalog language for all departments)
	ENGR 4900 - Professional Development	Pre-requisite: senior standing	Ok	Ok
	Social Science Elective	Please check current TSU Undergraduate Catalog		
r nestei	MEEN 4021 - Thermal/Fluid Systems Lab	Pre-requisite: Grade of "C" or better in MEEN 4150	Ok	Ok
	MEEN 4250 - Design of Thermal Systems	Pre-requisite: Grade of "C" or better in MEEN 4150	Ok	Ok
	ENGR4510- Capstone Design II	Pre-requisite: Grade of "C" or better in ENGR 4500	Ok	Ok
	Design Elective	Please check current TSU Undergraduate Catalog		
	Humanities Elective	Please check current TSU Undergraduate Catalog		
	Social Science Elective	Please check current TSU Undergraduate Catalog		
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	Course	Pre and Co-requisites	MME Website	TSU Catalog
Technical/Design Electives	MEEN 4100 Instrumentation and Automatic Control(s) (Tech Elec)	Prerequisites: MATH 3120, ENGR 2000	Ok	Ok
	MEEN 4120 – Mechanical Metallurgy (Tech Elec)	Prerequisites: ENGR 3300, ENGR 2130	Ok	Ok
	MEEN 4200 Heating and Air Conditioning (Design Elec)	Prerequisite(s): ENGR 2010. ENGR 4150 or consent of instructor/advisor	Ok	Ok
	MEEN 4300 Mechanical Energy Conversion (Tech Elec)	Prerequisites: ENGR 2010, CVEN 3100	Ok	Ok
	MEEN 4400 Manufacturing Engineering (Tech Elec)	Prerequisite: MEEN 3100	Ok	Ok
	MEEN 4600 Fluid Dynamics (Tech Elec)	Prerequisite: CVEN 3100	Ok	Ok
	MEEN 4700 Mechanical Vibration (Tech Elec)	Prerequisites: ENGR 2120 and MATH 3120	Ok	Ok
	MEEN 4800 Advanced Machine Design (Design Elec)	Prerequisite(s): MEEN 4230	Ok	Ok

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