

REQUIRED COURSES – Pre-requisites and Co-requisites List-Effective Fall 2014

Course	Title	Pre-req	Pre-req	Pre-req	Co-req	Co-req
ENGR 1201	Intro to Engineering	MATH1314 or equivalent				
MENG 1201	Mechanical Eng I	ENGR1201				
ENGR 2301	Statics	PHYS 2325 (Physics I)	PHYS 2125 (Physics I Lab)	MATH2414 (Calculus II)		
MENG 2201	Mechanical Eng II	MATH2413(Calculus I)				
ENGR 2302	Dynamics	ENGR 2301 (Statics)				
MENG 3319	Materials & Manuf.	CHEM 1311 (Chemistry)	CHEM 1111 (Chemistry Lab)	ENGR 1201 MENG 1201		
MENG 3301	Thermo. I	PHYS 2325 (Physics I)	PHYS 2125 (Physics I Lab)			
MENG 3303	Dynamics of Machinery	ENGR 2302 (Dynamics)				
MENG 3306	Mechanics of Materials	ENGR 2301 (Statics)				
MENG 3310	Fluid Mechanics	ENGR 2302 (Dynamics)	MATH 3404 (Multiv.Calc)	MATH 3305 (Dif. Eq.)		
MENG 3210	ME Lab I	ENGR 1201 (Intro to Eng)	MENG 2201 (ME II)	PHYS 2326 PHYS 2126		
ENGR 3314	Design Meth.	MENG3304	MENG3309	MENG3316	(OR) Concurrent Enrollment	
MENG 3211	ME Lab II	MENG 3210 (ME Lab I)			MENG 3304 (Thermo II)	MENG 3316 (Heat Trans.)
MENG 3304	Thermo. II	MENG 3301 (Thermo. I)	MATH 3305 Diff Equations			
MENG 3309	Mechanical Systems Design	MENG 3303 (Dyn. Of Mach.)	MENG 3306 (Mech. Of Mat.)			
MENG 3316	Heat Transfer	MENG 3301 (Thermo I)	MENG 3310 (Fluid Mech.)			
ENGR 4109	Senior Seminar	MENG4115 (Senior DesignI)	OR Concurrent Enrollment	ENGR1201		
MENG 4115	Senior Design I	ENGR 3314 (Des. Meth.)	SPCM 1315		MENG 3309	MENG 4312 MENG4313
MENG 4312	System Dynamics & Control	EENG 3304	MENG 3301	MENG 3310		
MENG 4313	Thermal Fluids System Design	MENG 3211 (ME Lab II)	MENG 3316 (Heat Transfer)	MENG 3304 (Thermo II)		
MENG 4315	Senior Design II	MENG 4115 (Sen. Des. I)				
EENG 3304	Linear Circuit Analysis	EENG1301 (OR) ENGR1201			PHYS 2326 PHYS 2126	MATH 3305
ENGR4009	FE Exam Prep	Senior Standing in ME				
Updated060216	Effective Fall2014					

NOTE: A minimum "C" grade is required for all math and science prerequisite courses. You are allowed to take upper-level engineering courses with a "D" grade in prerequisite courses. However, a minimum "C" grade is required in ALL courses listed in the ME Curriculum. Always check my UTTyler and the UG Catalog at UT Tyler website for any changes to the pre and corequisites.

Course	Title	Pre-Req	Co-Req
MATH & PHYS			
MATH2413	Calculus I	Sat & ACT scores	
MATH2414	Calculus II	MATH2413-Calc I	
MATH3203	Matrix Methods	MATH2413-Calc I	
MATH3305	Diff Equations	MATH2414-Calc II	
MATH3351	Prob & Statistics	MATH2414-Calc II	
MATH3404	Multivariate Calc	MATH2414-Calc II	
PHYS2325	Physics I	MATH2413-Calc I	
PHYS2326	Physics II	PHYS2325-Phys I & MATH2414-Calc II	
ENGR2301	Statics	PHYS2325/2125 (Phys I+Lab) MATH2414(Calc II)	
ENGR4109	Senior Seminar	ENGR1201	CENG,EENG,MENG 4115,CMGT4195
EENG3304	Linear Circuits	MATH3305-Diff Eqns & PHYS2326-Phys II	MATH3305-Diff Eqns & PHYS2326-Phys II
ME ELECTIVES	Commonly Offered		
MENG4316	Bldg Energy Simulation	MENG3301	MENG3316
MENG4317	Vibrations	ENGR2302, MATH3305	
MENG4320	Design for Manuf	MENG3319	
MENG4322	CAD/CAM	MENG1201, MATH3404	
MENG4326	FEM	MATH3203, MENG3306, MENG3316	
MENG4370	UG Internship	Min150hours of work, Consent of dept chair	Max 3 credits as tech elective, CR/NC
MENG4395	UG Research	Consent of dept chair	Max 3 credits as tech elective
Updated06/02/2016			
	Other Courses		

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