

Mechanical and Energy Engineering

2020-2021 Catalog: Sample Four-Year Schedule

	Fall Semester	Course Title	Credit Hours	Term(s) Offered	Spring Semester	Course Title	Credit Hours	Term(s) Offered
Year One	*MATH 1710	Calculus I <i>Pre-req: MATH 1650 or Test Placement</i>	4	F., Sp., Su.	MATH 1720	Calculus II <i>Pre-req: MATH 1710</i>	3	F., Sp., Su.
	CHEM 1410	General Chemistry I <i>Pre-req: MATH 1100 or higher</i>	3	F., Sp., Su.	*PHYS 1710	Mechanics <i>Pre-req: MATH 1710</i>	3	F., Sp., Su.
	CHEM 1430	General Chemistry I Lab <i>Co/Pre-req: CHEM 1410</i>	1	F., Sp., Su.	*PHYS 1730	Mechanics Lab <i>Co/Pre-req: PHYS 1710</i>	1	F., Sp., Su.
	*MEEN 1000	Discover Mechanical & Energy <i>Pre-req: MATH 1650</i>	2	F., Sp.	ENGR 1304	Engineering Graphics	3	F., Sp.
	*Comm. Core	Options on Page 29 in Academic Guide or mydegreeaudit.unt.edu	3	F., Sp., Su.	TECM 2700	Technical Writing <i>Pre-req: Communication Core</i>	3	F., Sp., Su.
	University Core	Options on Page 29 in Academic Guide or mydegreeaudit.unt.edu	3	F., Sp., Su.	University Core	Options on Page 29 in Academic Guide or mydegreeaudit.unt.edu	3	F., Sp., Su.
	Total Hours		16				16	

Year Two	MATH 2730	Multivariable Calculus <i>Pre-req: MATH 1720</i>	3	F., Sp., Su.	MATH 3410	Differential Equations <i>Pre-req: MATH 1720</i>	3	F., Sp., Su.
	PHYS 2220	Electricity & Magnetism <i>Pre-reqs: MATH 1720 & PHYS 1710/1730</i>	3	F., Sp., Su.	*MEEN 2210	Thermodynamics I <i>Pre-reqs: MEEN 1000, MATH 1720, & PHYS 1710</i>	3	F., Sp., Su.
	PHYS 2240	Electricity & Magnetism Lab <i>Co/Pre-req: PHYS 2220</i>	1	F., Sp., Su.	*MEEN 2302	Mechanics II <i>Pre-reqs: MEEN 2301 & MATH 1720</i>	3	F., Sp., Su.
	*MEEN 2301	Mechanics I <i>Pre-req: PHYS 1710/1730, MEEN 1000</i>	3	F., Sp., Su.	MEEN 2332	Mechanics III <i>Pre-req: MEEN 2301</i>	3	F., Sp., Su.
	MEEN 2240	Programming for Mechanical Engineers <i>Pre-req: MEEN 1000, Co-req MATH 2700</i>	3	F., Sp.	EENG 2610 or ENGR 2405	Circuit Analysis <i>Pre-reqs: MATH 1720</i> <i>Co/Pre-req: PHYS 2220/2240</i>	3	F., Sp., Su.
	MATH 2700	Linear Algebra <i>Pre-req: MATH 1720</i>	3	F., Sp., Su.	MEEN 2110	Engineering Data Analysis <i>Pre-reqs: MATH 2700 & MEEN 1000</i>	3	F., Sp., Su.
	Total Hours		16				18	

Year Three	MEEN 3110	Thermodynamics II <i>Pre-req: MEEN 2210</i>	3	F., Sp., Su.	MEEN 3130	Machine Elements <i>Pre-reqs: MEEN 2332 & ENGR 1304</i>	3	F., Sp., Su.
	MEEN 3120	Fluid Mechanics <i>Pre-reqs: MATH 2730, 3410, MEEN 2210, 2332</i>	3	F., Sp., Su.	MEEN 3210	Heat Transfer <i>Pre-reqs: MEEN 3110, 3120, 3250</i>	3	F., Sp., Su.
	MEEN 3240	Laboratory I <i>Pre-reqs: MEEN 2110, 2210, & MATH 3410</i>	2	F., Sp.	MEEN 3230	Dynamics and Controls <i>Pre-reqs: MEEN 2302, MATH 2700, 3410</i>	3	F., Sp., Su.
	MEEN 3250	Analytical Methods <i>Pre-reqs: MEEN 2240 & MATH 3410</i>	3	F., Sp., Su.	MEEN 3242	Laboratory II <i>Pre-reqs: MEEN 3240 & 3120, Co/Pre-req: MEEN 3210</i>	1	F., Sp.
	MTSE 3000	Materials Fundamentals <i>Pre-req: CHEM reqt.</i>	3	F., Sp.	University Core	Options on Page 29 in Academic Guide or mydegreeaudit.unt.edu	3	F., Sp., Su.
	MTSE 3003	Materials Lab <i>Pre-req: CHEM reqt.</i>	1	F., Sp.	University Core	Options on Page 29 in Academic Guide or mydegreeaudit.unt.edu	3	F., Sp., Su.
	Total Hours		15				16	

Year Four	MEEN 3100	Manufacturing Processes <i>Pre-reqs: MEEN 2332, & MTSE 3000/3003</i>	3	F., Sp.	MEEN 4250	Capstone Design <i>Pre-req: MEEN 3100 & 4150</i>	3	F., Sp.
	MEEN 4150	Design I <i>Pre-reqs: EENG 2610 or ENGR 2405, MEEN 3130, 3210, 3230, & 3242 Co/Pre-req: MEEN 3100</i>	3	F., Sp.	Energy Elective	Options at mydegreeaudit.com Must complete pre-reqs	3	F., Sp.
	Energy Elective	Options at mydegreeaudit.com Must complete pre-reqs	3	F., Sp.	Technical Elective	Options at mydegreeaudit.com Must complete pre-reqs	3	F., Sp., Su.
	Technical Elective	Options at mydegreeaudit.com Must complete pre-reqs	3	F., Sp.	University Core	Options on Page 29 in Academic Guide or mydegreeaudit.unt.edu	3	F., Sp.
	University Core	Options on Page 29 in Academic Guide or mydegreeaudit.unt.edu	3	F., Sp., Su.	University Core	Options on Page 29 in Academic Guide or mydegreeaudit.unt.edu	3	F., Sp., Su.
	Total Hours		15				15	

Courses in **Bold** = Destination courses required to transition to a full-major. Minimum grade of "C" and 2.5 GPA required for completion. Courses with * = Foundations courses required to progress to advanced level courses. Minimum grade of "C" required for completion. Courses with subject abbreviations of ENGL, TECM, MATH, CHEM, PHYS, ENGR, EENG, MEEN, and MTSE require minimum grade of "C" for completion and/or prerequisite.

This is an unofficial sample schedule. Requirements, prerequisites, corequisites, and term offerings may change. You should check your degree audit at mydegreeaudit.unt.edu each term. You should meet with your advisor each term to discuss individual scheduling, program decisions, etc.