

University of Texas at El Paso
Mechanical Engineering Dept.
 Phone: (915) 747-5450 <http://me.utep.edu/>
2010 B.S. in Mechanical Engineering Degree Plan

Year	Semester I			Hrs	Semester II			Hrs
Freshman	MECH	1305	Graphic and Design Fundamentals +	3	MECH	1321	Mechanics I – Statics + (MATH 1411+)	3
	ENGL	1311	Expository English Composition +	3	HIST	1301	History of US to 1865 +	3
	MATH	1411	Calculus I +	4	ENGL	1312	Research and Critical Writing + (ENGL 1311+)	3
	CHEM CHEM	1305 1105	Chemistry I +	4	MATH	1312	Calculus II + (MATH 1411+)	3
	UNIV	1301 2350	Introduction to Engineering can be taught in a specific section. +	3	PHYS	2420	Physics I + (MATH 1411+)	4
				17				16
Sophomore	MECH	2322	Mechanics of Materials + (MECH 1321+)	3	MECH	2340	Mechanics II – Dynamics + (MECH 1321+)	3
	MATH	2313	Calculus III + (MATH 1312+)	3	MECH	2311	Introduction to Thermo-Fluid Science + (MATH 1312+)	3
	MECH	2331	Mat’ls and Manufacturing Processes + (CHEM 1305+)	3	MECH	2351	Engineering Analysis I + (MATH 1312+)	3
	MECH	2131	Manufacturing Engineering Lab + (MECH 1305+)	1	MECH	2342	Electro Mechanical Systems + (MATH 1312+)	3
	POLS	2310	Introduction to Politics +	3	CE	2326	Engineering Economics +	3
			Science Elective + (see note 1)	4				
				17				15
[Upper Division Courses]								
Junior	MECH	3323	Solid Mechanics Lab (MECH 2322+)	3	MECH	3313	Thermo-fluid Lab (MECH 2311+)	3
	MECH	3352	Engineering Analysis II (MECH 2351+)	3	COMM	1302	Business and Professional Communication +	3
	MECH	3312	Thermodynamics (MECH 2311+)	3	MECH	3345	System Dynamics (MECH 2340+, MECH 2342+)	3
	MECH	3314	Fluid Mechanics (MECH 2311+)	3	MECH	3334	Mechanical Design (MECH 2331+, MECH 2322+)	3
	HIST	1302	History of US since 1865 +	3			Humanities Electives +	3
							Science/Math Elective + (see note 2)	3
				15				18
Senior	MECH	4336	Principles of Engineering Design (MECH 3334)	3	MECH	4366	Senior Design (see note 4) (requires MECH 4336)	3
	MECH	4346	Mechatronics (MECH 3345)	3	MECH	4316	Thermal System Design (MECH 4315)	3
	MECH	4315	Heat Transfer (MECH 3314, MECH 3312)	3			Technical Elective II (see note 3)	3
	MECH	4326	Finite Element Analysis (MECH 2351, MECH 3334)	3	POLS	2311	American Government and Politics +	3
			Technical Elective I (see note 3)	3			Visual and Performing Art Elective +	3
				15				15
Total 128 Credit Hrs								

Notes: Prerequisites listed in parentheses, + = Grade of C or better required

1. Must be either CHEM 1306 with CHEM 1106, BIOL 1107 with 1305 or PHYS 2421 or by permission of advisor.
2. Approved courses are: BIOL 1306, MATH 2325, MATH 2326, MATH 3323, MATH 3325, PHYS 3325, PHYS 3351, PHYS 4348. Also, as per the UTEP core curriculum requirements two of your science classes must be in the same area.
3. Must be Department approved elective: MECH 4355, MECH 4368, MECH 4371, MECH 4395, or MECH 3363. In addition, students who will be engaged with internship/job training/co-operative work study in a private or federal science and or engineering organization. Maximum of 3.0 credit hours can be counted towards a technical elective for graduation requirements. This course will be available as MECH 4370 “Pre Professional Experience” From Spring 2012. Approval from the Department is necessary for MECH 4370 (see rules 15). Application form is available online or in Departmental office.
4. Must be in the last full semester, have taken and passed MECH 4336, and a 2.0 GPA or better in major.

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Core Curriculum Worksheet for ME Majors

1. Communications-9 credits

A. English Composition-6 credits

- ENGL 1311: Expository English Composition
- ENGL 1312: Research and Critical Writing
OR
- ESOL 1311: Expository English Composition for Speakers of ESL
- ESOL 1312: Research and Critical Writing for Speakers of ESL

B. Communications-3 credits

- COMM 1302: Business and Professional Communications

3. Humanities- 3 credits

- PHIL 1301: Introduction to Philosophy
- PHIL 2306: Ethics
- HIST 2301: World History to 1500
- HIST 2302: World History since 1500

Prerequisite for all ENGL below courses is ENGL 1312

- ENGL 2311: English Literature
- ENGL 2312: English Literature
- ENGL 2313: Introduction to American Fiction
- ENGL 2318: Introduction to American Poetry

4. Visual and Performing Arts-3 credits

- ART 1300: (Art General Courses) Art Appreciation
- ART 1305: (Art History) History of World Art I
- ART 1306: (Art History) History of World Art II
- DANC 1304: Dance Appreciation
- MUSL 1324: (Literature & History) Music Appreciation
- MUSL 1327: (Literature & History) Jazz to Rock
- THEA 1313: Introduction to Theater
- FILM 1390: Introduction to the Art of Motion Picture

5. United States History-6 credits

- HIST 1301: History of the US to 1865
- HIST 1302: History of the US since 1865

6. Political Science-6 credits

- POLS 2310: Introduction to Politics
- POLS 2311: American Government and Politics

8. University Courses-3 credits

- UNIV 1301: Seminar in Critical Inquiry
Enrollment in UNIV 1301 is restricted to students with fewer than 29 credit hours.

- UNIV 2350: Interdisciplinary Technology and Society

Enrollment in UNIV 2350 is restricted to students with 30 or more credit hours and has completed ENGL 1312 or ESOL 1312 with a "C" or better