

**Bachelor of Science in Mechanical Engineering**  
**College of Engineering**  
**University of Texas at Arlington**  
**General Requirements 2007-2008 ■ Total Credit Hours = 131**

**Freshman**

First Semester			Hours	Second Semester			Hours
CHEM	1441	Gen Chemistry I (w/ Lab)*	4	DG	1350	Graphics for Engineers*	3
ENGL	1301	Critical Thinking, Reading and Writing I	3	ENGL	1302	Critical Thinking, Reading and Writing II	3
MAE	1104	Intro to Engineering*	1	MAE	1312	Engineering Statics*	3
MAE	1105	Intro to MAE*	1	MATH	2425	Calculus II*	4
MATH	1426	Calculus I*	4	PHYS	1444	Tech Physics II (w/ Lab)*	4
PHYS	1443	Tech Physics I (w/ Lab)*	4				
<b>Total Credit Hours</b>			<b>17</b>	<b>Total Credit Hours</b>			<b>17</b>

**Sophomore**

First Semester			Hours	Second Semester			Hours
HIST	1311	U.S. History to 1865	3	EE	2320	Circuit Analysis*	3
MAE	2312	Solid Mechanics*	3	HIST	1312	History since 1865	3
MAE	2321	Material Science*	3	MAE	2360	Numerical Analysis & Programming	3
MAE	2323	Dynamics*	3	MAE	2381	Experimental Methods & Measurements*	3
MATH	2326	Calculus III*	3	MAE	3310	Thermodynamics I	3
MATH	3330	Intro to Matrices & Linear Algebra	3	MAE	3360	Engineering Analysis	3
<b>Total Credit Hours</b>			<b>18</b>	<b>Total Credit Hours</b>			<b>18</b>

**Junior**

First Semester			Hours	Second Semester			Hours
COMS	3302	Prof & Tech Comm.	1	MAE	3314	Heat Transfer	3
MAE	2314	Fluid Mechanics I	3	MAE	3318	Kinematics and Dynamics of Machines	3
MAE	3121	Materials Science Lab	1	MAE	3319	Dynamic Systems Modeling and Simulation	3
MAE	3242	Mechanical Design I	2	MAE	3344	Introduction to Manufacturing Engineering	3
MAE	3311	Thermodynamics II	3	POLS	2311	U.S. Government	3
MAE	3321	Mechanical Behavior of Materials	3				
<b>Total Credit Hours</b>			<b>15</b>	<b>Total Credit Hours</b>			<b>15</b>

**Senior**

First Semester			Hours	Second Semester			Hours
MAE	3183	Measurements Laboratory	1	ECON	2305	Economics	3
MAE	4287	Design Project I	2	ENGL	23XX	English Literature	3
MAE	4342	Mechanical Design II	3	MAE	4188	Design Project Laboratory II	1
MAE	4344	Computer-Aided Engineering	3	MAE	4310	Introduction to Automatic Control	3
POLS	2312	State and Local Government	3			Technical Elective §	3
		Technical Elective §	3			Fine Arts Elective ■	3
<b>Total Credit Hours</b>			<b>15</b>	<b>Total Credit Hours</b>			<b>16</b>

Students who do not have two units of a single foreign language in high school will be required to take two courses of a single foreign language in addition to the previously listed curriculum requirements.

\* Must earn a grade of "C" or better in these courses before taking further 3000-4000 level courses.

\*\* Courses offered only during the semester shown.

§ Must be approved 3000-4000 level course in math, science or engineering.

■ Approved fine arts electives are: ARCH 1301, 2300, 2302, 2305, 2308-2310; ART 1301, 1309, 1310, 3302, 3305-3308, 3310-3315, 3331, 4302-4304, 4306, 4317, 4330; MUSI 1300, 1302, 3300, 3301; THEA 1343, 3307, 4303, 4304, 4330; CLAS 2310, 2320; PHIL 2312.