



## 2016-2017 BS Mechanical Engineering Degree Plan

Last First Middle SMU Student ID

See University Curriculum requirements in the Undergraduate Catalog.

### MAJOR

Courses	Hours	Semester & Year	Grade
ME 1302 – Introduction to Mechanical Engineering	3		
ME 2310 – Statics	3		
ME 2320 – Dynamics	3		
ME 2331 – Thermodynamics	3		
ME 2131 – ME Laboratory: Thermodynamics	1		
ME 2340 – Mechanics of Deformable Bodies	3		
ME 2140 – ME Laboratory: Solid Mechanics	1		
ME 2342 – Fluid Mechanics	3		
ME 2142 – ME Laboratory: Fluid Mechanics	1		
ME 2350 – Elements of Mechanical Engineering Measurements	3		
ME 2372 – Introduction to CAD	3		
ME 3332 – Heat & Mass Transfer	3		
ME 3132 – ME Laboratory: Heat & Mass Transfer	1		
ME 3340 – Engineering Materials	3		
ME 3370 – Manufacturing Processes	3		
ME 4360 – Design & Control of Mechanical Systems	3		
ME 4160 – ME Laboratory: Automatic Control	1		
ME 4370 – Elements of Machine Design			
ME 4380 – Mechanical Engineering Design I	3		
ME 4381 – Mechanical Engineering Design II	3		
EE 2350 – Circuit Analysis I	3		
<b>TOTAL</b>	<b>53</b>		

### MAJOR TRACKS

Courses	Hours	Semester & Year	Grade
<b>Distributed Track</b>			
	<b>18</b>		
One course from Thermofluids required courses	3		
One course from Dynamics and Controls required courses	3		
One course from Solid Mechanics, Materials and Manufacturing required courses	3		
ME course from any track's required or elective courses	3		
ME course from any track's required or elective courses	3		
ME course from any track's required or elective courses	3		
<b>Thermofluids Track</b>			
	<b>18</b>		
ME 4338 – Thermal Systems Design	3		
ME 5371 – Gas Dynamics	3		
Two from Thermofluids electives: ME 3360, 5332, 5333, 5383	6		
One of Dynamics and Controls required or elective courses	3		
One of Solid Mechanics, Materials and Manufacturing required or elective courses	3		
<b>Dynamics and Controls Track</b>			
	<b>18</b>		
ME 5320 – Intermediate Dynamics	3		
ME 5322 – Vibrations	3		
Two from Dynamics and Controls electives: ME 3360, 5302, 5326	6		
One of Thermofluids required or elective courses	3		
One of Solid Mechanics, Materials and Manufacturing required or elective courses	3		
<b>Solid Mechanics, Materials and Manufacturing Track</b>			
	<b>18</b>		
ME 5374 – Advanced CAD	3		
ME 5338 – Non-traditional Manufacturing Processes	3		
Two from Solid Mechanics, Materials and Manufacturing electives: ME 5361 and 5364	6		

One of Thermofluids required or elective courses	3		
One of Dynamics and Controls required or elective courses	3		

### MATHEMATICS/STATISTICS

Courses	Hours	Semester & Year	Grade
MATH 1337 – Calculus with Analytic Geometry I	3		
MATH 1338 – Calculus with Analytic Geometry II	3		
MATH 2339 – Calculus with Analytic Geometry III	3		
MATH 2343 – Elementary Differential Equations	3		
MATH 3353 – Introduction to Linear Algebra	3		
STAT 4340 (CSE 4340, EMIS 4340) or STAT 5340 – Statistics	3		
<b>TOTAL</b>	<b>18</b>		

### SCIENCE

Courses	Hours	Semester & Year	Grade
CHEM 1303 – General Chemistry I	3		
PHYS 1303 – Introductory Mechanics	3		
PHYS 1304 – Introductory Electricity & Magnetism	3		
PHYS 1105 – General Physics Laboratory I	1		
<b>TOTAL</b>	<b>10</b>		

### MATHEMATICS or SCIENCE ELECTIVES

Courses	Hours	Semester & Year	Grade
Mathematics or Science Elective <sup>1</sup>	3		
<b>TOTAL</b>	<b>3</b>		

### ENGINEERING LEADERSHIP

Courses	Hours	Semester & Year	Grade
EMIS 3308 or EMIS 3309 or EMIS 3375 or CEE 3302 or CSE 4360	3		
<b>TOTAL</b>	<b>3</b>		

**White Degree Plan** (For advising ONLY!)

**Blue Degree Plan** (For graduating seniors ONLY: Due at the beginning of the graduating semester.)

### GRADUATION CERTIFICATION:

\_\_\_\_\_  
Advisor Date

\_\_\_\_\_  
Dept. Chair or Associate Chair Date

\_\_\_\_\_  
Assistant Dean Date

<sup>1</sup>To be chosen from BIOL 1401, 1402; CHEM 1304; GEOL 1301, 1305, 1307, 1308, 1313; PHYS 3305, 3340, 4321; MATH at 3000 level or higher and approved by ME adviser.