



2016-2017 BS Mechanical Engineering Degree Plan
BS Math Dual Degree

Last First Middle SMU Student ID

See University Curriculum requirements in the Undergraduate Catalog.

MAJOR

Courses	Hours	Semester & Year	Grade
ME 1302 – Introduction to Engineering	3		
ME 2310 – Statics	3		
ME 2320 – Dynamics	3		
ME 2331 – Thermodynamics	3		
ME 2131 – ME Laboratory: Thermodynamics	1		
EE 2350 - Circuit Analysis I	3		
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	3		
ME 4380 – Mechanical Engineering Design I	3		
ME 4381 – Mechanical Engineering Design II	3		
One of ME 5302, 5322, or 5361	3		
Advanced Major Elective ¹	3		
Advanced Major Elective ¹	3		
TOTAL	62		

MATHEMATICS/STATISTICS/COMPUTER SCIENCE

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		
MATH 3315 – Introduction to Scientific Computing	3		
MATH 3337 – Advanced Mathematics for Science & Engineering	3		
MATH 5315, 5316, 5331, or 5334 ²	3		
STAT 4340 (CSE 4340, EMIS 4340) or STAT 5340 (EMIS 5370)	3		
CSE 1341 – Computer Science	3		
TOTAL	30		

SCIENCE

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

ENGINEERING LEADERSHIP

Courses	Hours	Semester & Year	Grade
EMIS 3308 or EMIS 3309 or CEE 3302 or CSE 4360	3		
TOTAL	3		

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

¹At least one of ME 5302, 5320, 5322, or 5361. Additional options for other two electives include ME 5302, 5320, 5322, 5326, 5332, 5333, 5338, 5361, 5364, 5371, 5374 or 5383. One
²The advanced mathematics electives must be approved by the student's mathematics advisor.