



2016-2017 BS Mechanical Engineering Degree Plan
BS Physics 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 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		
Advanced Major Elective ¹	3		
TOTAL	53		

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 (EMIS 5370)	3		
TOTAL	18		

SCIENCE

Courses	Hours	Semester & Year	Grade
CHEM 1303 – General Chemistry I	3		
PHYS 1303 – Introductory Mechanics	3		
PHYS 1105 – General Physics Laboratory	1		
PHYS 1106 – General Physics Laboratory	1		
PHYS 1304 – Introductory Electricity & Magnetism	3		
PHYS 3305 – Introduction to Modern Physics	3		
PHYS 3344 – Classical Mechanics	3		
PHYS 3374 – Thermodynamics & Statistical Mechanics	3		
PHYS 4211 – Laboratory Physics I	2		
PHYS 4321 – Methods of Theoretical Physics	3		
PHYS 4392 – Introduction to Electromagnetic Theory	3		
PHYS 5382 – Introduction to Quantum Mechanics	3		
PHYS 5383 – Advanced Quantum Mechanics	3		
Advanced Physics Elective ²	3		
Advanced Physics Elective ²	3		
TOTAL	40		

Note: CSE 1341 or 1342 is required by the Physics department for the PHYS-BS degree.

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

¹To be chosen from ME 3360, 4338, 5302, 5320, 5322, 5326, 5332, 5333, 5338, 5361, 5364, 5371, 5374 or 5383.

²The advanced physics electives must be 3000 level or higher and be approved by the student's physics advisor.