

# BS Mechanical Engineering Suggested Four Year Plan

## 2017-2018 Catalog

(6/19/2017)

A grade of C- or better is required in "Major Requirements Courses"

CS 1336 is required of students with no prior programming experience  
**Not For Credit in ECS**  
**C- or better needed**

### Freshman Fall (16 SCH)

Description	Course No
Intro to Engr & CS	ECS 1100
Intro to Mechanical Engineering I	MECH 1100
Calculus I	MATH 2417 or 2413
General Chemistry I & Lab	CHEM 1311/1111
Freshman Seminar	UNIV 1010
Intro to Programming	CS 1325
3 hours CORE: choices below	

### Freshman Spring (16 SCH)

Description	Course No
Intro to Mechanical Engineering II	MECH 1208
Calculus II	MATH 2419 or 2414
Linear Algebra for Engineers	ENGR 2300
Mechanics	PHYS 2325
Physics Laboratory I	PHYS 2125
3 hours CORE	RHET 1302

### Multivariate Calculus (Summer)

### Sophomore Fall (17 SCH)

Description	Course No
Statics	MECH 2310
Differential Equations with Apps	MATH 2420
Advanced Engineering Math	ENGR 3300
Probability Theory and Statistics	ENGR 3341
Electromagnetism and Waves	PHYS 2326
Physics Laboratory II	PHYS 2126

### Sophomore Spring (17 SCH)

Description	Course No
Mechanics of Materials	MECH 2320
Mechanics of Materials Lab	MECH 2120
Computer Aided Design	MECH 3305
CAD Laboratory	MECH 3105
Thermodynamics	MECH 3310
Dynamics	MECH 2330
3 hours CORE: choices below	

### Junior Fall (15 SCH)

Description	Course No
Fluid Mechanics	MECH 3315
Kinematics & Dynamics	MECH 3350
Prof & Tech Communication	ECS 3390
6 hours CORE: choices below	GOVT 2305

### Junior Spring (17 SCH)

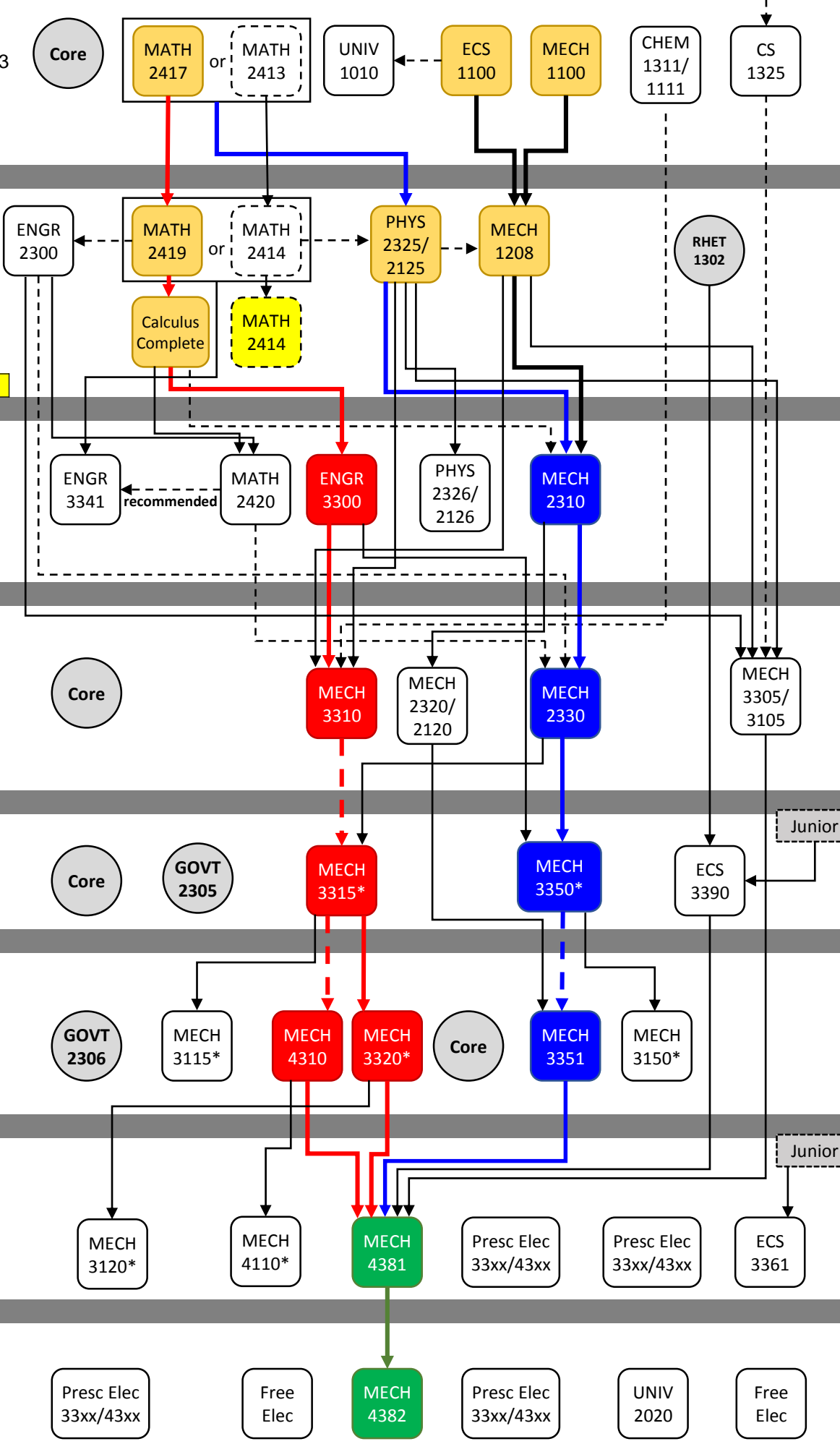
Description	Course No
Fluid Mechanics Lab	MECH 3115
Kinematics & Dynamics Lab	MECH 3150
Heat Transfer	MECH 3320
Design of Mechanical Systems	MECH 3351
Systems and Controls	MECH 4310
6 hours CORE: choices below	GOVT 2306

### Senior Fall (14 SCH)

Description	Course No
Heat Transfer Lab	MECH 3120
Systems and Controls Lab	MECH 4110
Senior Design Project I	MECH 4381
Prescribed Elective	MECH 33XX/43XX
Prescribed Elective	MECH 33XX/43XX
Social Issues & Ethics in CS&E	ECS 3361

### Senior Spring (15 SCH)

Description	Course No
Senior Design Project II	MECH 4382
Prescribed Elective	MECH 33XX/43XX
Prescribed Elective	MECH 33XX/43XX
Free Elective	See Advisor
Free Elective	See Advisor
Core Curriculum Assessment	UNIV 2020



\* Take LAB next long semester

**LEGEND**

- Prerequisite
- Prereq Critical Path
- - - - - Pre- or Co-requisite

Courses may be taken in any order, as long as prerequisites are met.  
 See UG catalog for complete pre/co-requisites.  
 Texas common core courses may have other choices available; check with your advisor.

Core Courses			
RHET 1302	3 hours from:		6 hours from:
GOVT 2305	AHST 1303, 1304, 2331	DANC 1310, FILM 2332	HIST 1301, HIST 1302, HIST 2330, HIST 2332, HIST 2301
GOVT 2306	ARTS 1301	MUSI 1306, THEA 1310	HUMA 1301, PHIL 1301, PHIL 1316, 1317