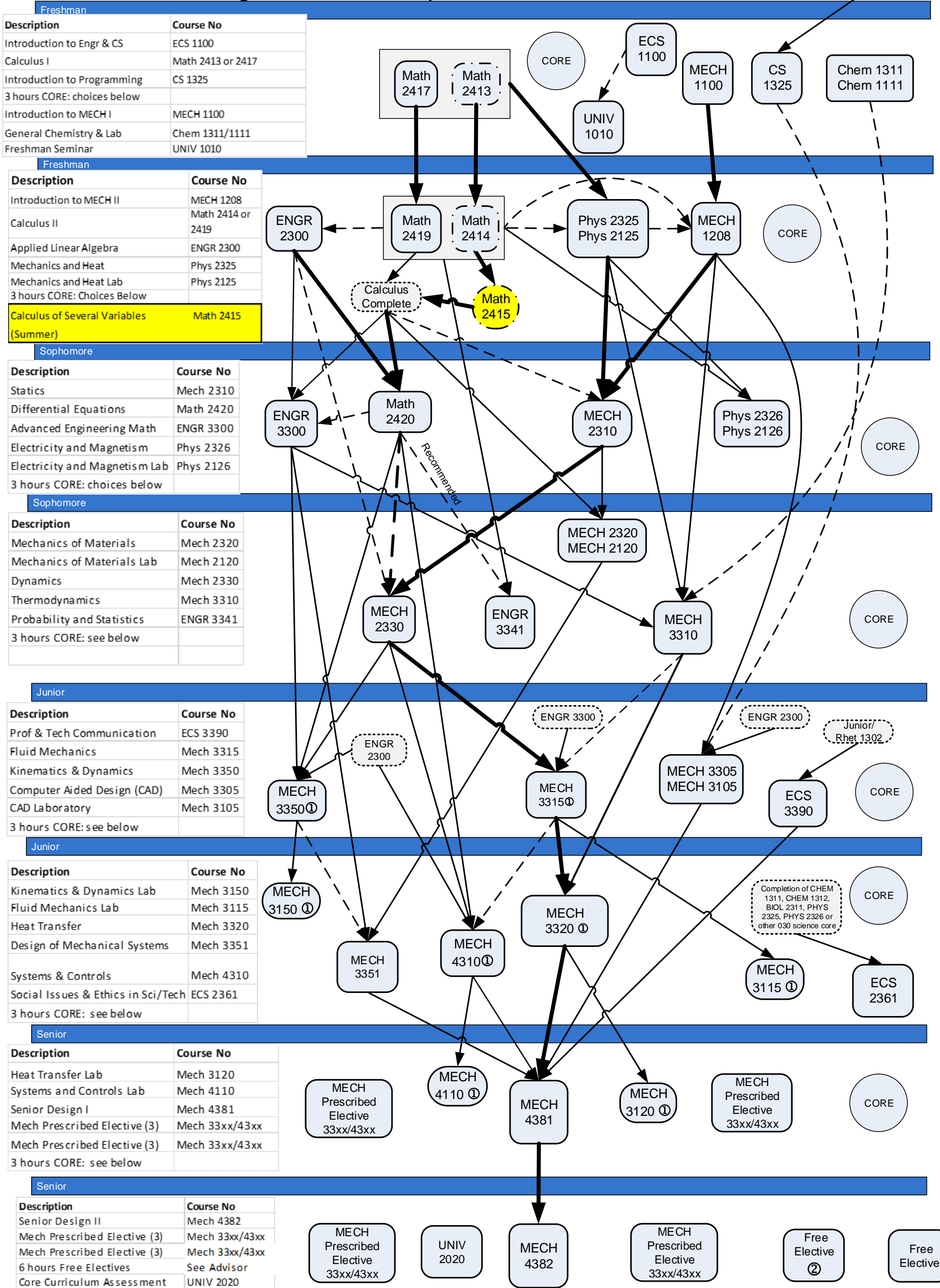


# BS Mechanical Engineering Suggested Four Year Plan 2019 – 2020 Catalog

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

CS 1336/1136  
Programming Fundamentals

A grade of C- or better is required



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

Description	Course No
Introduction to MECH II	MECH 1208
Calculus II	Math 2414 or 2419
Applied Linear Algebra	ENGR 2300
Mechanics and Heat	Phys 2325
Mechanics and Heat Lab	Phys 2125
3 hours CORE: Choices Below	
Calculus of Several Variables (Summer)	Math 2415

Description	Course No
Statics	Mech 2310
Differential Equations	Math 2420
Advanced Engineering Math	ENGR 3300
Electricity and Magnetism	Phys 2326
Electricity and Magnetism Lab	Phys 2126
3 hours CORE: choices below	

Description	Course No
Mechanics of Materials	Mech 2320
Mechanics of Materials Lab	Mech 2120
Dynamics	Mech 2330
Thermodynamics	Mech 3310
Probability and Statistics	ENGR 3341
3 hours CORE: see below	

Description	Course No
Prof & Tech Communication	ECS 3390
Fluid Mechanics	Mech 3315
Kinematics & Dynamics	Mech 3350
Computer Aided Design (CAD)	Mech 3305
CAD Laboratory	Mech 3105
3 hours CORE: see below	

Description	Course No
Kinematics & Dynamics Lab	Mech 3150
Fluid Mechanics Lab	Mech 3115
Heat Transfer	Mech 3320
Design of Mechanical Systems	Mech 3351
Systems & Controls	Mech 4310
Social Issues & Ethics in Sci/Tech	ECS 2361
3 hours CORE: see below	

Description	Course No
Heat Transfer Lab	Mech 3120
Systems and Controls Lab	Mech 4110
Senior Design I	Mech 4381
Mech Prescribed Elective (3)	Mech 33xx/43xx
Mech Prescribed Elective (3)	Mech 33xx/43xx
3 hours CORE: see below	

Description	Course No
Senior Design II	Mech 4382
Mech Prescribed Elective (3)	Mech 33xx/43xx
Mech Prescribed Elective (3)	Mech 33xx/43xx
6 hours Free Electives	See Advisor
Core Curriculum Assessment	UNIV 2020

Core Choices			
<b>Rhet 1302</b>	<b>3 hours From:</b> Ahst 1303, 1304, 2331 Arts1301 Danc 1310 Film 2332 Musi 1306 Thea 1310	<b>3 hours From:</b> Ams 2300, 2341 Huma 1301 Lit 2331 Phil 1301 Phil 1316, 1317	<b>6 hours From:</b> Hist 1301 Hist 1302 Hist 2301 Hist 2330 Hist 2332

① take LAB next long semester

② May use lower level free elective. Consult advisor for details.

Courses may be taken in any order, as long as prerequisites are met.

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