

Wheaton College 4-year General Engineering Plan

**THIS PROGRAM PLAN IS FOR GUIDANCE ONLY. GRADUATION REQUIREMENTS ARE FOUND IN CATALOGS.**

54 CATC (3x 2 tags), 30 math & science, 45 ENGR

Engineering Core

Engineering Concentration

Supporting Science & Math

CATC

**Biomedical Engineering  
Concentration**

Fall Semester

Sem	Code	Name	Hrs.
1	MATH 235	Calculus I (AAQR)	4
	PHYS 231	Introductory Physics I (SP)	4
	ENGR 101	Introduction to Engineering	1
	CORE 101	First Year Seminar	4
	ENGW 103	Writing (0-4)	4
<i>Total</i>			17

3	MATH 237	Calculus III	4
	ENGR 271	Biology for Engineers	2
	ENGR 211	Engr. Mechanics I - Statics w lab	3
	ENGR 334	Comp. Modeling of Phys. Syst.	2
	ENGR 351	Analog Electronics w lab	2
	LANG	Language Core Competency I	4
<i>Total</i>			17

5	CHEM 231	General Chemistry I	4
	ENGR 313	Mechanics of Materials w lab	3
	ENGR 371	Biomaterials	3
	ENGR 372	Cell and Tissue Engineering	3
	LANG	Language Core Competency III	4
<i>Total</i>			17

7	ENGR 451	Senior Design I	4
	ENGR XXX	BME Engineering Elective	3
	BITH 315	Christian Thought	4
	SELECT	Visual & Performing Art (2 of 2)	2
<i>Total</i>			13

Spring Semester

Sem	Code	Name	Hrs.
2	MATH 236	Calculus II	4
	PHYS 232	Introductory Physics II	4
	ENGR 132	Engineering Graphics and CAD	3
	COMM 101	Oral Communication (0-2)	2
	BITH 211	Old Testament Literature	4
<i>Total</i>			17

4	MATH 333	Differential Equations	4
	ENGR 212	Engr. Mechanics II - Dynamics w lab	3
	ENGR 214	Innovative Design in Engr.	3
	LANG	Language Core Competency II	4
	SELECT	Visual & Performing Art (1 of 2)	2
<i>Total</i>			16

6	ENGR 302	Engineering Systems Analysis	2
	ENGR 373	Biomechanics	3
	ENGR 374	Biomedical Device Design	3
	SELECT	Thematic Core (1 of 3) (2 tags)	4
	BITH 213	New Testament Literature	4
<i>Total</i>			16

8	ENGR 452	Senior Design II	2	
	ENGR 494	Engineering Ethics Capstone	2	
		Apply for FE Exam	0	
	CORE 3xx	Advanced Int. Seminar (1 tag)	4	
	SELECT	Thematic Core (2 of 3) (2 tags)	4	
	SELECT	Thematic Core (3 of 3) (2 tags)	4	
	<i>Total</i>			16

*Total Credit Hours* 129

*Avg. per semester* 16.125

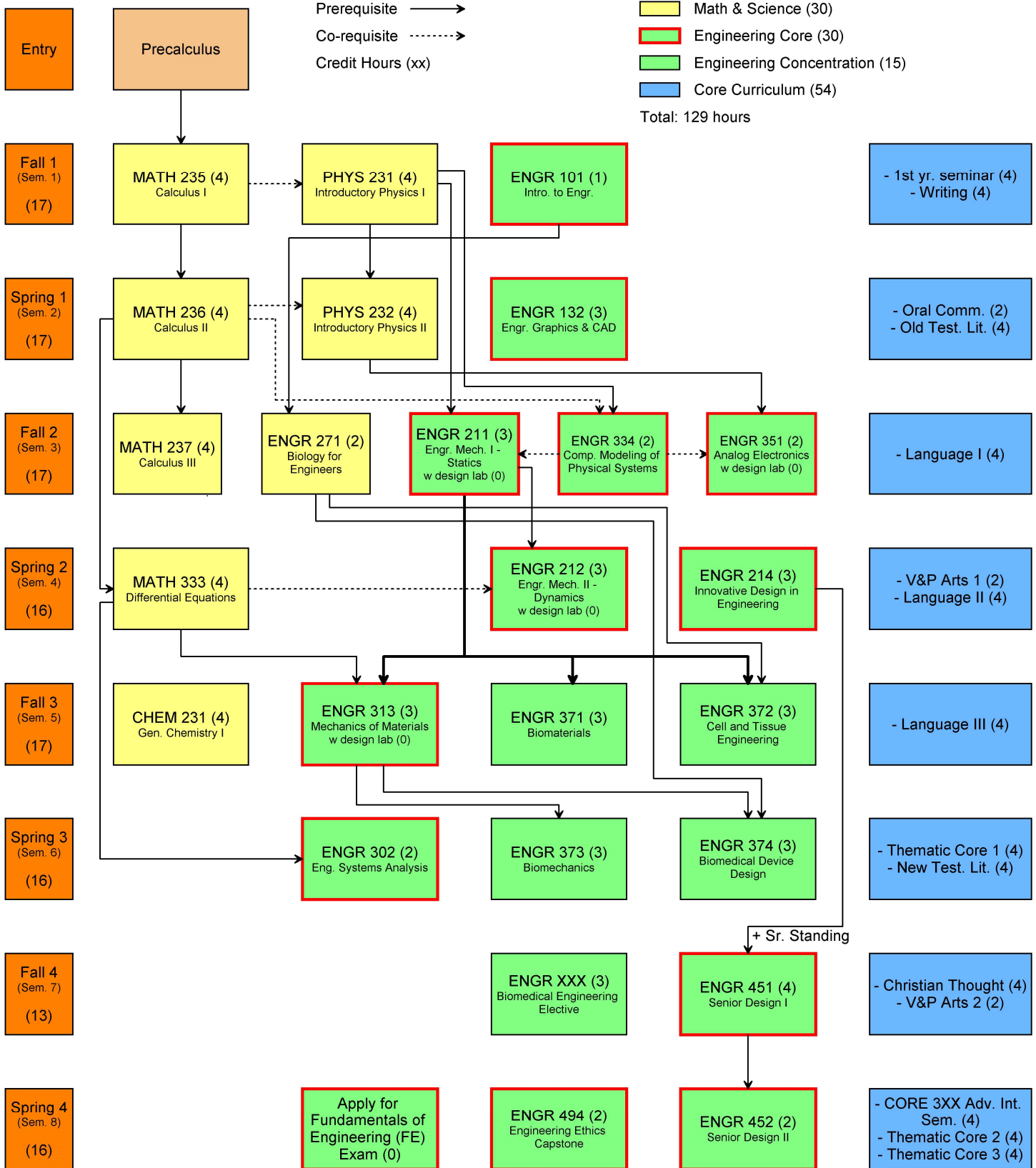
revised: 1/12/2024

Biomedical Engineering Concentration electives:

ENGR 336	Fluid Mechanics	3
ENGR 338	Thermodynamics & Heat Transfer	3
ENGR 375	Biomedical Imaging	3
ENGR 495	Independent Study	1-3

# Wheaton College Engineering Biomedical Concentration

Updated March 7, 2024



### Biomedical Engineering Concentration Electives:

- ENGR 336 Fluid Mechanics (3)
- ENGR 338 Thermodynamics & Heat Transfer (3)
- ENGR 375 Biomedical Imaging (3)
- ENGR 495 Independent Study (1-3)