

BME Undergraduate Tracking Document

Student: [Blank tracking document](#)

Rev: February 10, 2022

13/3 Units

MATH / BASIC SCIENCE / SUPPLEMENTAL SCIENCE		
Math (2 Units)	Biology (2/3 Units; at least one at 2000+)	Chemistry (2/3 Units)
	Physics (2/3 Units)	Suppl. Science (1/3 Units; any level) (BB, PH, CH, MA, CS, FY)

COMPUTER PROGRAMMING (1/3 Unit)	
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1/3 Unit

PHYSICAL EDUCATION			

2/3 Units

FREE ELECTIVES	

2/3 Units

SOCIAL SCIENCE	

courses & ID2050 (for global IQP)

6/3 Units

HUMANITIES REQ'MENT		

Click for [HU Requirement](#)

3/3 Unit

IQP		

To find an IQP click [link](#)

3/3 Unit

MQP		

14/3 Units

ENGINEERING										
Distribution requirement (or higher level, or equivalent)	Course	Notes								
Biomechanics		- Consult the Biomedical Engineering Program Chart in the Undergraduate catalog for courses that count towards these requirements. - Students that entered Fall 2020 and after: You can only receive ENGR distribution credit for one of BME2502 or ES2502. You can only receive ENGR distribution credit for one of BME2001 or ES2001. - We do not recommend you take both BME2210 and ECE2010.								
Biomaterials										
Bioinstrumentation										
BME Analysis										
ENGR 2000+										
ENGR 2000+		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr style="background-color: #cccccc;"> <th colspan="2" style="text-align: center;">Notes</th> </tr> </thead> <tbody> <tr> <td style="width: 50%;"></td> <td style="width: 50%;">ENGR course can be all courses designated "BME" (except BME 1001, BME 1004, BME 3110, BME 532, BME 560, BME 562, BME 564, and BME 593; BME 595 requires departmental approval) and AE, AREN, CE, CHE, ECE, RBE, and ME courses at the 2000-level or above (except RBE 3100 and CE3022).</td> </tr> <tr> <td colspan="2">* Suggested: BME3111</td> </tr> <tr> <td colspan="2">** Suggested: BME3300</td> </tr> </tbody> </table>	Notes			ENGR course can be all courses designated "BME" (except BME 1001, BME 1004, BME 3110, BME 532, BME 560, BME 562, BME 564, and BME 593; BME 595 requires departmental approval) and AE, AREN, CE, CHE, ECE, RBE, and ME courses at the 2000-level or above (except RBE 3100 and CE3022).	* Suggested: BME3111		** Suggested: BME3300	
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* Suggested: BME3111										
** Suggested: BME3300										
ENGR 2000+ *										
Engr Design **										
BME Lab #1 (1/6 unit)										
BME Lab #2 (1/6 unit)										
BME Lab #3 (1/6 unit)										
BME Lab #4 (1/6 unit)										
ENGR 3000+										
ENGR 3000+										
BME 4000 depth										
BME 4000+ depth										

SELF AUDIT (check Banner/WorkDay to assure your courses are assigned correctly)

- 1/3 units Stats (MA 2610, MA 2611) (y/n)? _____
- 1/3 unit Prog (BME 1004) (y/n)? _____
- 14/3 units Engineering (y/n)? _____ with 9/3 units BME (y/n)? _____
- 3/3 units ENG 2000+ level (y/n)? _____ (note that the green highlighted rows may bin in this category)
- 2/3 units ENG 3000+ level (y/n)? _____
- BME Labs (4 x 1/6 unit) (y/n)? _____
- Living Systems Laboratory requirement (BME 3111, BME 3012, BME 3503, or BME 3813) (y/n)? _____
- 2/3 units BME 4000+ (y/n)? _____ (Note: 1/3 unit **AT** BME 4000 level)
- 1/3 unit BME design (BME 3300 or equiv) (y/n)? _____
- 1/3 unit Capstone Design in BME (must be checked off by BME program MQP advisor) (y/n)? _____

Note that all required courses above will equal 45/3 Units, i.e., you have an additional 3/3 units free to equal 48/3 in 4 years.

BIOMEDICAL ENGINEERING PROGRAM CHART

13/3 UNITS

BASIC SCIENCE AND MATHEMATICS	
Mathematics (MA): 6/3 units, including differential equations and statistics	
Biology (BB): 2/3 units	Physics (PH): 2/3 units
Chemistry (CH): 2/3 units	Supplemental Science: 1/3 unit

1/3 UNIT

COMPUTER PROGRAMMING
1/3 unit Computer Programming/Logic

9/3 UNITS

BIOMEDICAL ENGINEERING^{*,a}
4/3 units BME at ≥ 2000-level
2/3 units BME laboratories at ≥ 3000-level (four 1/6-unit labs)
1/3 unit Design
1/3 unit at 4000-level
1/3 unit at ≥ 4000-level
At least 1/6 unit must fulfill the living systems laboratory requirement[†]

* 1000-level courses do not satisfy requirements

† BME 3111, BME 3012, BME 3503, or BME 3813

5/3 UNITS

ENGINEERING^a
Engineering: 3/3 units at ≥ 2000-level
Engineering: 2/3 units at ≥ 3000-level

2 UNITS

HUMANITIES
See undergraduate catalog

2/3 UNITS

SOCIAL SCIENCE
See undergraduate catalog

1 UNIT

IQP
See undergraduate catalog

1 UNIT

MQP
See undergraduate catalog Must include a minimum of 1/3 unit Capstone Design

2/3 UNITS

FREE ELECTIVES
See undergraduate catalog

1/3 UNIT

PHYSICAL EDUCATION
See undergraduate catalog

BME CORE KNOWLEDGE/BREADTH AREAS

^a At least one course must be selected from each of the areas below (part of the 14/3 units):			
Biomechanics/ Biofluids	Biomaterials/Tissue Engineering	Bioinstrumentation /Biosensors	Measurement and Data Analysis
BME 2502 BME 3610 ES 2501 ES 2502 ES 2503 ES 3004	BME 2001 ES 2001	BME 2210 ECE 2010	BME 2211 ME 3901
The course designation determines if the selected course counts towards the 9/3 units BME requirement or the 5/3 units other Engineering requirement			