



**University of Hawai'i at Mānoa – Four-Year Academic Plan 2017-2018**  
**Colleges of Tropical Agriculture and Human Resources**  
**Bachelor of Science (BS) in Biological Engineering**

**SAMPLE**

This is a sample academic plan. Students should meet with an academic advisor prior to registration to formulate their own plan.

Year 1		Year 2		Year 3		Year 4	
Fall		Fall		Fall		Fall	
BIOL 171 (DB)	3	CEE 270	3	BE 350	3	BE 437	3
BIOL 171L	1	EE 160 or EE 110	4	BE 350L	1	BE 481	3
CHEM 161 (DP)	3	MATH 243	3	CHEM 272	3	BE Elective	3
CHEM 161 (DY)	1	PHYS 272	3	CHEM 272L	2	BE Elective	3
MATH 241 (FS)	4	PHYS 272L	1	EE 211	4	DA/DH/DL	3
FW	3	FG (A/B/C)	3	NREM 310	3		
Credits	15	Credits	17	Credits	16	Credits	15
Spring		Spring		Spring		Spring	
CHEM 162	3	BE 260	3	BE 373	3	BE 482	3
CHEM 162L	1	BIOL 172/172L or MICR	3	CEE 320 or ME 322	4	BIOL 275/275L or MICR	4
ECON 120, 130, or 131 (DS)	3	351/351L or BE 120		ME 311	4	351/351L or MICR	
MATH 242	4	CEE 271	3	FG (A/B/C)	3	485/485L	
PHYS 170	4	MATH 244	3			BE Elective	3
PHYS 170L	1	DA/DH/DL	3			BE Elective	3
						DS	3
Credits	16	Credits	15	Credits	14	Credits	16
Summer		Summer		Summer		Summer	
Credits	0	Credits	0	Credits	0	Credits	0
<b>Total Credits</b>	<b>31</b>	<b>Total Credits</b>	<b>63</b>	<b>Total Credits</b>	<b>93</b>	<b>Total Credits</b>	<b>124</b>

**Notes:**

- Students must take placement exams to be able to register for CHEM 161 and MATH 241. Minimum 45 upper division (300+ course) credits are required.
- Students must take 12 credits of the following BE electives: BE 405, 410, 411, 420, 431, 460, 470; CEE 355; ME 371.
- Students must incorporate all focus requirements into this plan. Focus designations (i.e., W, E, O, H) are CRN specific & semester specific.
- Students must complete 48 credits from engineering courses. Computer programming EE 160 or EE 110 does not count toward this total.
- Students can complete the general chemistry requirement with CHEM 161/161L and 162/162L or CHEM 171/171L or 181A/181L.

Students can complete the math requirement with Math 241, 242, 243, and 244 or Math 251A, 252A, and 253A.

Students must take but not necessarily pass the NCEES Fundamentals of Engineering exam in the semester that they intend to graduate.

**SAMPLE**