



University of Hawai'i at Mānoa – Four-Year Academic Plan 2013-2014
Colleges of Tropical Agriculture and Human Resources
Bachelor of Science (BS) in Molecular Biosciences and Biotechnology

Track: Environmental and Microbial Biotechnology

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	
CHEM 161 (DP)	3	CHEM 272	3	MBBE 402	4	MBB Elective	3
CHEM 161L (DY)	1	CHEM 272L	2	MBBE 402L	2	MBB Elective	3
BIOL 171 (DB)	3	MATH 215 or 241 (FS)	4	PEPS 371 or BIOL 375 or	3	MBB Elective	3
BIOL 171L	1	MBBE 304	3	ANSC 446		Elective	3
H/SL	3	PHYS 100/100L or	4	DA/DH/DL	3		
FW	3	151/151L and 152/152L		Elective	3		
FG (A/B/C)	3						
Credits	17	Credits	16	Credits	15	Credits	12
Spring		Spring		Spring		Spring	
CHEM 162	3	CHEM 273	3	MBBE 401	3	MBB Elective	3
CHEM 162L	1	CHEM 273L	1	MICR 351	3	MBB Elective	3
BIOL 172	3	BIOL 275	3	MICR 351L	2	DS	3
BIOL 172L	1	BIOL 275L	1	MBBE/PEPS/TPSS 499	6	Elective	3
NREM 220 (DS)	3	NREM 310	3				
H/SL	3	DA/DH/DL	3				
FG (A/B/C)	3	DS	3				
Credits	17	Credits	17	Credits	14	Credits	12
Summer		Summer		Summer		Summer	
Credits	0	Credits	0	Credits	0	Credits	0
Total Credits	34	Total Credits	67	Total Credits	96	Total Credits	120

Notes:

Students must take placement exams to be able to register for CHEM 161 and MATH 215 or 241.

Students must take 15 credits in Environmental and Microbial Biotechnology from the following: BE 431; CHEM 274/274L, CHEM 445; GEOG 101/101L; MICR 431/431L, MICR 461/461L, MICR 475/475L; PEPS 405; or MBBE/PEPS/TPSS 499 credits beyond 3.

Students must incorporate all focus requirements into this plan.

Minimum 45 upper division (300+ course) credits are required.