



**University of Hawai'i at Mānoa – Four-Year Academic Plan 2017-2018**  
**Colleges of Arts and Sciences**  
**Bachelor of Science (BS) in Molecular Cell Biology**

**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	CHEM 272	3	BIOL 275	3	MCB 461	3
BIOL 171L (DY)	1	CHEM 272L	2	BIOL 275L	1	Group 1	3
CHEM 161 (DP)	3	PHYS 151	3	BIOL 407	3	DS	3
CHEM 161L	1	PHYS 151L	1	Group 1	3	DS	3
MATH 215 (FS)	4	HSL 101	3	DA/DH/DL	3	Elective	3
FW	3	FG (A/B/C)	3	HSL 201	3	Elective	1
Credits	15	Credits	15	Credits	16	Credits	16
Spring		Spring		Spring		Spring	
BIOL 172 (DB)	3	CHEM 273	3	BIOL 375	3	MCB 314 (DS)	1
BIOL 172L (DY)	1	PHYS 152	3	BIOL 375L	2	MCB 472	3
CHEM 162	3	PHYS 152L	1	BIOL 408	3	Group 1	4
CHEM 162L	1	DA/DH/DL	3	BIOL 408L	2	Group 2	1
MATH 216	3	HSL 102	3	MBBE 402 or BIOC 441	4	Elective	3
FG (A/B/C)	3			HSL 202	3	Elective	2
Credits	14	Credits	13	Credits	17	Credits	14
Summer		Summer		Summer		Summer	
Credits	0	Credits	0	Credits	0	Credits	0
<b>Total Credits</b>	<b>29</b>	<b>Total Credits</b>	<b>57</b>	<b>Total Credits</b>	<b>90</b>	<b>Total Credits</b>	<b>120</b>

**Notes:**

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

Students must incorporate all focus requirements into this plan. Focus designations (i.e., W, E, O, H) are CRN specific & semester specific.

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

**Molecular Cell Biology BS Group Electives\***

**10 credits from Group 1 and 2; minimum of 1 credit from Group 2)**

**Group 1:** ICS 475; MATH 304, 305; MICR 351, 431, 470, 475, 490, 499; PHYL 301; ZOOL 420, 442; ZOOL 499

**Group 2:** MICR 351L, 461L, 475L, 485L, 490L; PHYL 301L; ZOOL 420L

\*Availability of courses may vary between years and/or semesters.

**SAMPLE**