

# University of Hawai'i at Mānoa Colleges of Arts & Sciences Program Sheet 2017-2018 Bachelor of Science (BS) in Molecular Cell Biology Admissions: Open Process: Declaration Min. Total Credits: 120 (107 in core & major + 13 in electives)

### **UHM General Education Core Requirements**

Foundations
<b>FW</b> ENG 100, 100A, 190, ESL 100, or AMST 111
<b>FS</b> MATH 215, 241, or 251A
$\Box FG(A/B/C)$
$\Box FG(A/B/C)$
Diversification
$\Box$ DA / DH / DL
$\Box$ DA / DH / DL
<b>DB</b> BIOL 171, 172
DP CHEM 161
<b>DY</b> BIOL 171L, 172L, CHEM 161L
<b>DS</b> MCB 314
* See degree, college and major requirements for courses that
can also fulfill these.
UHM Graduation Requirements
Focus

Focus				
□H				
□ E (300+)				
• O (300+)				
□ W (300+)				
□ W (300+)				
Hawaiian / Second Language				
<b>1</b> 01				
<b>1</b> 02				
<b>2</b> 01				
<b>2</b> 02				
Credit Minimums				
• 120 total applicable				
• 30 in residence at UHM				
• 45 upper division (300+ level) credits				

#### **Grade Point Average**

- 2.0 cumulative or higher (*Note: Other GPAs may be required.*)
- Good academic standing

## This program sheet was prepared to provide information and does not constitute a contract. See back for major requirements. Meet regularly with your major advisor.

## **Degree Requirements**

Ba	achelor of Science Requirements
	Calculus I
	Calculus II
	Chemistry I with lab
	Chemistry II with lab
	Physics I with lab
	Physics II with lab
	Refer to major requirements for the specific courses that
	satisfy these requirements.
C	ollege Requirements
C	redit Maximums
٠	8 KRS activity
٠	9 Directed Reading / Research
•	12 Practicum / Internship

Major Requirements for	DS III Molecular	Cell Blology		
Admission: Open				
Application: NA				
Min. major credits: $BS = 4$	46 (77-79 with rela	ated requirements)		
Min. C grade (not C-) in a	all prerequisite cou	irses		
Requirements				
Molecular Cell Biology (	Core Requiremen	ts (36 credits)		
$\square BIOL 171^{*DB} / DB$	/ • 171L* <sup>DY</sup>			
□ BIOL 172* <sup>DB</sup> /				
□ BIOL 275 / □		(Fall and Summer)		
□ BIOL 375 / □	375L	(Spring only)		
BIOL 407	10.07	(Fall only)		
□ BIOL 408/ □		(Spring only)		
	MBBE 402 or BIC	,		
$\square MCB 314^{DS}$		(Spring only)		
□ MCB 461		(Fall only)		
□ MCB 472				
Mala and an Call Diala and	D-1-4-J D			
	kelated kequirem	ents (10 creatts from Gre	oup 1 and 2, minimum of 1 c	realt from 2)
Group 1 Courses	MATH 204 205	MICD 251 421 470 475	, 490, PHYL 301, ZOOL 420,	442
MICR/BOT/ZOOL 499	, MATH 304, 303,	, MICK 551, 451, 470, 475	, 490, FHTL 301, ZOOL 420,	442,
		D		
G	ш	<b>U</b>		
Group 2 Courses				
MICR 351L, 461L, 475L,	490L PHYL 301	L. ZOOL 420L		
Related Major Courses (	(31-33 credits)			
Related Major Courses ( MATH 215* <sup>FS</sup>	( <b>31-33 credits</b> ) , 241* <sup>FS</sup> , or 251A*			
Related Major Courses ( MATH 215* <sup>FS</sup> MATH 216, 24	( <b>31-33 credits</b> ) , 241* <sup>FS</sup> , or 251A* 42, or 252A			
Related Major Courses ( MATH 215* <sup>FS</sup>	( <b>31-33 credits</b> ) , 241* <sup>FS</sup> , or 251A* 42, or 252A 2/ 161L* <sup>DY</sup>			
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Related Major Courses ( <ul> <li>MATH 215*<sup>FS</sup></li> <li>MATH 216, 24</li> <li>CHEM 161*<sup>DP</sup></li> <li>CHEM 161/<sup>DP</sup></li> <li>CHEM 162/<sup>D</sup></li> <li>CHEM 272/<sup>D</sup></li> <li>CHEM 273</li> <li>PHYS 151/151</li> </ul>	( <b>31-33 credits</b> ) , 241* <sup>FS</sup> , or 251A* 42, or 252A 2/□ 161L* <sup>DY</sup> 162L 272L	FS		
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