

## University of Hawai'i at Mānoa Colleges of Arts & Sciences Program Sheet 2016-2017 Bachelor of Science (BS) in Molecular Cell Biology

Admissions: Open Process: Declaration Min. Total Credits: 120 (109 in core & major + 11 in electives)

UHM General Education Core Requirements
Foundations
☐ FW ENG 100, 100A, 190, ESL 100, or AMST 111
☐ FS MATH 215, 241, or 251A
□ FG (A / B / C)
□ FG (A / B / C)
Diversification
□ DA/DH/DL
□ DA/DH/DL
☐ <b>DB</b> BIOL 171, 172
□ DP CHEM 161
☐ DY BIOL 171L, 172L, CHEM 161L
□ DS MCB 314
□ DS
* See degree, college and major requirements for courses that
can also fulfill these.
<b>UHM Graduation Requirements</b>
Focus
□Н
□ E (300+)
□ O (300+)
□ W
□ W
□ W
□ W (300+)
□ W (300+)
Hawaiian / Second Language
□ 101
□ 102
□ 201
□ 202
Credit Minimums
• 120 total applicable
• 30 in residence at UHM
• 45 upper division (300+ level) credits
Grade Point Average
• 2.0 cumulative or higher ( <i>Note: Other GPAs may be</i>
required.)
Good academic standing

B	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
•	8 KRS activity
•	9 Directed Reading / Research
	12 Practicum / Internship

Major Requirements for BS in Molecular Cell Biology
Admission: Open
Application: NA
Min. major credits: $BS = 46$ (74 with related requirements)
Min. C grade (not C-) in all prerequisite courses
Requirements
Molecular Cell Biology Core Requirements (36 credits)
□ BIOL 171* <sup>DB</sup> / □ 171L* <sup>DY</sup>
□ BIOL 172* <sup>DB</sup> / □ 172L* <sup>DY</sup>
□ BIOL 275 / □ 275L
□ BIOL 375 / □ 375L
□ BIOL 407
□ BIOL 408 / □ 408L
☐ Biochemistry (MBBE 402 or BIOC 441)
□ MCB 314 DS
☐ MCB 461
☐ MCB 472
Molecular Cell Biology Related Requirements (10 credits from Group 1 and 2, minimum of 1 credit from 2)
Group 1 Courses
<b>10 credits</b> from: ICS 475, MATH 304, 305, MICR 351, 431, 470, 475, 490, MBBE 405, PHYL 301, ZOOL 420, 442,
MICR/BOT/ZOOL 499
Group 2 Courses
MICR 351L, 431L, 461L, 475L, 490L, PHYL 301L, ZOOL 420L
Related Major Courses
Related Major Courses  MATH 215, 241, or 251A *FS
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Related Major Courses  MATH 215, 241, or 251A *FS  MATH 216, 242, or 252A  CHEM 161*DP / 161L*DY  CHEM 162/ 162L
Related Major Courses  MATH 215, 241, or 251A *FS  MATH 216, 242, or 252A  CHEM 161*DP / 161L*DY  CHEM 162/ 162L  CHEM 272/ 272L
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