

## Bachelor of Science Major: Molecular Biology Catalog: 2016-17

Name: Catalog: 2016-17 Updated: Student ID: Audited: Audited:

UNIVERSITY GENERAL EDUCATION CORE - 43 hrs				MAJOR			
	Inst.	Hours	Grade	Molecular Biology - 40 (4) hrs	Inst.	Hours	Grade
Choose one: COMS 1301, 1303, 2302 or 2303 - 3 hrs				BIOL 1401 - (4) hrs			
ENG. 4004 01				BIOL 1402 - 4 hrs			
ENGL 1301 - 3 hrs ENGL 1302 - 3 hrs				BIOL 3402 - 4 hrs BIOL 3403 - 4 hrs			
ENGL 1302 - 3 hrs ENGL Literature Elective - 3 hrs				BIOL 3403 - 4 hrs			
LINGE Eliciature Elective - 3 ms				CHEM 4402 - 4 hrs			
Choose one: ECON 2307, EDUC 2307, GEOG 1301,				CHEM 4403 - 4 hrs			
GEOG 1302, PHIL 1301, PSYC 1301 or SOCI 1301 - 3 hi	rs			Twelve hours from:			
				BIOL 3401 / 3404 / 3405 / 3407 / 3408 / 3409 / 3410			
Choose one: ART. 1301, ART. 2301, ART. Studio Course,				4400 / 4404 / 4409 / 4410 / CHEM 3407 / MSCI 4360	/ MSCI 4X03	3	
MUSI 1301, 1303, 3304, 3305, 3306, 3307, Performing E	nsembles	S,					
or THEA 1303 - 3 hrs							
MATH 1304 or higher - 3 hrs							
Life Laboratory Science - 4 hrs							
Life Eaboratory Ocienies 4 mg							
HIST 1303 and HIST 1304 - 6 hrs OR				*Up to 4 hours from MSCI 4360/4X03 can be counted to	towards the 1	12 hours	
HIST 2301 and HIST 2302 - 6 hrs				of biology electives.			
RLGN 1301 or RLGN 1303 - 3 hrs					Req.	Have	Need
RLGN 1302 or RLGN 1304 - 3 hrs				Total Hours in Major	40	0	40
				Upper-Level Hours in Major	32	0	32
POLS 2301 - 3 hrs				Minimum GPA Required in Major	2.00		
EVSS 1112 1 br				MINOR Minimum of 18 hours	last	Ua	G-a-l-
EXSS 1112 - 1 hr EXSS Activity - 1 hr				Minimum of 18 nours  Minor Course - 3 hrs	Inst.	Hours	Grade
EX33 Activity - 1 III				Minor Course - 3 hrs			
UNIV 1100/1101 - 1 hr				Minor Course - 3 hrs			
GRAD 0001 - 0 hrs				Minor Course - 3 hrs			
				Upper-Level Minor Course - 3 hrs			
DEGREE SPECIFIC GENERAL EDUCATION - 14 hrs				Upper-Level Minor Course - 3 hrs			
	1						
MATH 1206 - 2 hrs	Inst.	Hours	Grade				
MATH 1306 - 3 hrs Physical Lab Sci - CHEM 1401 - 4 hrs (required for major) Lab Sci - CHEM 1402 - 4 hrs (required for major) MSCI 2311 - 3 hrs (required for major)	inst.	Hours	Grade				
Physical Lab Sci - CHEM 1401 - 4 hrs (required for major) Lab Sci - CHEM 1402 - 4 hrs (required for major)	Req.	Have	Grade				
Physical Lab Sci - CHEM 1401 - 4 hrs (required for major) Lab Sci - CHEM 1402 - 4 hrs (required for major)					Req.	Have	Need
Physical Lab Sci - CHEM 1401 - 4 hrs (required for major) Lab Sci - CHEM 1402 - 4 hrs (required for major) MSCI 2311 - 3 hrs (required for major)	Req.	Have	Need	Total Hours in Minor	18	0	<b>Need</b> 18
Physical Lab Sci - CHEM 1401 - 4 hrs (required for major) Lab Sci - CHEM 1402 - 4 hrs (required for major) MSCI 2311 - 3 hrs (required for major)  Total Hours in General Education  Notes:	<b>Req.</b> 57	Have	Need	Minimum Upper-Level Hours in Minor	18 6		
Physical Lab Sci - CHEM 1401 - 4 hrs (required for major) Lab Sci - CHEM 1402 - 4 hrs (required for major) MSCI 2311 - 3 hrs (required for major)  Total Hours in General Education  Notes: *Upper-level electives may be required to meet the 42-h	<b>Req.</b> 57	Have	Need	Minimum Upper-Level Hours in Minor Minimum GPA Required in Minor	18	0	18
Physical Lab Sci - CHEM 1401 - 4 hrs (required for major) Lab Sci - CHEM 1402 - 4 hrs (required for major) MSCI 2311 - 3 hrs (required for major)  Total Hours in General Education  Notes:	<b>Req.</b> 57	Have	Need	Minimum Upper-Level Hours in Minor	18 6 2.00	0	18 6
Physical Lab Sci - CHEM 1401 - 4 hrs (required for major) Lab Sci - CHEM 1402 - 4 hrs (required for major) MSCI 2311 - 3 hrs (required for major)  Total Hours in General Education  Notes: *Upper-level electives may be required to meet the 42-h	<b>Req.</b> 57	Have	Need	Minimum Upper-Level Hours in Minor Minimum GPA Required in Minor ELECTIVES	18 6	0	18
Physical Lab Sci - CHEM 1401 - 4 hrs (required for major) Lab Sci - CHEM 1402 - 4 hrs (required for major) MSCI 2311 - 3 hrs (required for major)  Total Hours in General Education  Notes: *Upper-level electives may be required to meet the 42-h	<b>Req.</b> 57	Have	Need	Minimum Upper-Level Hours in Minor Minimum GPA Required in Minor  ELECTIVES  UL Elec: CHEM 3403 - 4 hrs (required for major)	18 6 2.00	0	18 6
Physical Lab Sci - CHEM 1401 - 4 hrs (required for major) Lab Sci - CHEM 1402 - 4 hrs (required for major) MSCI 2311 - 3 hrs (required for major)  Total Hours in General Education  Notes: *Upper-level electives may be required to meet the 42-h	<b>Req.</b> 57	Have	Need	Minimum Upper-Level Hours in Minor Minimum GPA Required in Minor  ELECTIVES  UL Elec: CHEM 3403 - 4 hrs (required for major) UL Elec: CHEM 3404 - 4 hrs (required for major)	18 6 2.00	0	18 6
Physical Lab Sci - CHEM 1401 - 4 hrs (required for major) Lab Sci - CHEM 1402 - 4 hrs (required for major) MSCI 2311 - 3 hrs (required for major)  Total Hours in General Education  Notes: *Upper-level electives may be required to meet the 42-h	<b>Req.</b> 57	Have	Need	Minimum Upper-Level Hours in Minor Minimum GPA Required in Minor  ELECTIVES  UL Elec: CHEM 3403 - 4 hrs (required for major) UL Elec: CHEM 3404 - 4 hrs (required for major) UL Elec: MSCI 3101 - 1 hr (required for major)	18 6 2.00	0	18 6
Physical Lab Sci - CHEM 1401 - 4 hrs (required for major) Lab Sci - CHEM 1402 - 4 hrs (required for major) MSCI 2311 - 3 hrs (required for major)  Total Hours in General Education  Notes: *Upper-level electives may be required to meet the 42-h	<b>Req.</b> 57	Have	Need	Minimum Upper-Level Hours in Minor Minimum GPA Required in Minor  ELECTIVES  UL Elec: CHEM 3403 - 4 hrs (required for major) UL Elec: CHEM 3404 - 4 hrs (required for major)	18 6 2.00	0	18 6
Physical Lab Sci - CHEM 1401 - 4 hrs (required for major) Lab Sci - CHEM 1402 - 4 hrs (required for major) MSCI 2311 - 3 hrs (required for major)  Total Hours in General Education  Notes: *Upper-level electives may be required to meet the 42-h	<b>Req.</b> 57	Have	Need	Minimum Upper-Level Hours in Minor Minimum GPA Required in Minor  ELECTIVES  UL Elec: CHEM 3403 - 4 hrs (required for major) UL Elec: CHEM 3404 - 4 hrs (required for major) UL Elec: MSCI 3101 - 1 hr (required for major)	18 6 2.00	0	18 6
Physical Lab Sci - CHEM 1401 - 4 hrs (required for major) Lab Sci - CHEM 1402 - 4 hrs (required for major) MSCI 2311 - 3 hrs (required for major)  Total Hours in General Education  Notes: *Upper-level electives may be required to meet the 42-h	<b>Req.</b> 57	Have	Need	Minimum Upper-Level Hours in Minor Minimum GPA Required in Minor  ELECTIVES  UL Elec: CHEM 3403 - 4 hrs (required for major) UL Elec: CHEM 3404 - 4 hrs (required for major) UL Elec: MSCI 3101 - 1 hr (required for major)	18 6 2.00	0	18 6
Physical Lab Sci - CHEM 1401 - 4 hrs (required for major) Lab Sci - CHEM 1402 - 4 hrs (required for major) MSCI 2311 - 3 hrs (required for major)  Total Hours in General Education  Notes: *Upper-level electives may be required to meet the 42-h	<b>Req.</b> 57	Have	Need	Minimum Upper-Level Hours in Minor Minimum GPA Required in Minor  ELECTIVES  UL Elec: CHEM 3403 - 4 hrs (required for major) UL Elec: CHEM 3404 - 4 hrs (required for major) UL Elec: MSCI 3101 - 1 hr (required for major)	18 6 2.00	0	18 6
Physical Lab Sci - CHEM 1401 - 4 hrs (required for major) Lab Sci - CHEM 1402 - 4 hrs (required for major) MSCI 2311 - 3 hrs (required for major)  Total Hours in General Education  Notes: *Upper-level electives may be required to meet the 42-h	<b>Req.</b> 57	Have	Need	Minimum Upper-Level Hours in Minor Minimum GPA Required in Minor  ELECTIVES  UL Elec: CHEM 3403 - 4 hrs (required for major) UL Elec: CHEM 3404 - 4 hrs (required for major) UL Elec: MSCI 3101 - 1 hr (required for major)	18 6 2.00	0 0 Hours	18 6 Grade
Physical Lab Sci - CHEM 1401 - 4 hrs (required for major) Lab Sci - CHEM 1402 - 4 hrs (required for major) MSCI 2311 - 3 hrs (required for major)  Total Hours in General Education  Notes: *Upper-level electives may be required to meet the 42-h	<b>Req.</b> 57	Have	Need	Minimum Upper-Level Hours in Minor  Minimum GPA Required in Minor  ELECTIVES  UL Elec: CHEM 3403 - 4 hrs (required for major)  UL Elec: CHEM 3404 - 4 hrs (required for major)  UL Elec: MSCI 3101 - 1 hr (required for major)  Elective - 3 hrs  Elective - 1 hr	18 6 2.00 Inst.	0 0 Hours	18 6 Grade
Physical Lab Sci - CHEM 1401 - 4 hrs (required for major) Lab Sci - CHEM 1402 - 4 hrs (required for major) MSCI 2311 - 3 hrs (required for major)  Total Hours in General Education  Notes: *Upper-level electives may be required to meet the 42-h	<b>Req.</b> 57	Have	Need	Minimum Upper-Level Hours in Minor  Minimum GPA Required in Minor  ELECTIVES  UL Elec: CHEM 3403 - 4 hrs (required for major) UL Elec: CHEM 3404 - 4 hrs (required for major) UL Elec: MSCI 3101 - 1 hr (required for major) Elective - 3 hrs Elective - 1 hr	18 6 2.00 Inst.	0 0 Hours	18 6 Grade
Physical Lab Sci - CHEM 1401 - 4 hrs (required for major) Lab Sci - CHEM 1402 - 4 hrs (required for major) MSCI 2311 - 3 hrs (required for major)  Total Hours in General Education  Notes: *Upper-level electives may be required to meet the 42-h upper-level graduation requirement.	Req. 57 our	Have	Need	Minimum Upper-Level Hours in Minor  Minimum GPA Required in Minor  ELECTIVES  UL Elec: CHEM 3403 - 4 hrs (required for major) UL Elec: CHEM 3404 - 4 hrs (required for major) UL Elec: MSCI 3101 - 1 hr (required for major) Elective - 3 hrs Elective - 1 hr  Total Hours in Electives Required Upper-Level Electives	18 6 2.00 Inst.	Hours Have	18 6 Grade
Physical Lab Sci - CHEM 1401 - 4 hrs (required for major) Lab Sci - CHEM 1402 - 4 hrs (required for major) MSCI 2311 - 3 hrs (required for major)  Total Hours in General Education  Notes: *Upper-level electives may be required to meet the 42-h	<b>Req.</b> 57	Have 0	<b>Need</b> 57	Minimum Upper-Level Hours in Minor  Minimum GPA Required in Minor  ELECTIVES  UL Elec: CHEM 3403 - 4 hrs (required for major) UL Elec: CHEM 3404 - 4 hrs (required for major) UL Elec: MSCI 3101 - 1 hr (required for major) Elective - 3 hrs Elective - 1 hr	18 6 2.00 Inst.	0 0 Hours	18 6 Grade  Need 13
Physical Lab Sci - CHEM 1401 - 4 hrs (required for major) Lab Sci - CHEM 1402 - 4 hrs (required for major) MSCI 2311 - 3 hrs (required for major)  Total Hours in General Education  Notes: *Upper-level electives may be required to meet the 42-h upper-level graduation requirement.	Req. 57 our	Have 0	Need 57	Minimum Upper-Level Hours in Minor  Minimum GPA Required in Minor  ELECTIVES  UL Elec: CHEM 3403 - 4 hrs (required for major) UL Elec: CHEM 3404 - 4 hrs (required for major) UL Elec: MSCI 3101 - 1 hr (required for major) Elective - 3 hrs Elective - 1 hr  Total Hours in Electives Required Upper-Level Electives  INSTITUTIONAL HOUR BREAKDOWN:	18 6 2.00 Inst.	Hours  Have 0	18 6 Grade Need 13
Physical Lab Sci - CHEM 1401 - 4 hrs (required for major) Lab Sci - CHEM 1402 - 4 hrs (required for major) MSCI 2311 - 3 hrs (required for major)  Total Hours in General Education  Notes: *Upper-level electives may be required to meet the 42-h upper-level graduation requirement.  GRADUATION REQUIREMENTS: General Education	Req. 57 our	Have 0	Need 57	Minimum Upper-Level Hours in Minor  Minimum GPA Required in Minor  ELECTIVES  UL Elec: CHEM 3403 - 4 hrs (required for major) UL Elec: CHEM 3404 - 4 hrs (required for major) UL Elec: MSCI 3101 - 1 hr (required for major) Elective - 3 hrs Elective - 1 hr  Total Hours in Electives Required Upper-Level Electives  INSTITUTIONAL HOUR BREAKDOWN:	18 6 2.00 Inst.	Hours  Have 0	18 6 Grade Need 13
Physical Lab Sci - CHEM 1401 - 4 hrs (required for major) Lab Sci - CHEM 1402 - 4 hrs (required for major) MSCI 2311 - 3 hrs (required for major)  Total Hours in General Education  Notes: *Upper-level electives may be required to meet the 42-h upper-level graduation requirement.  GRADUATION REQUIREMENTS: General Education  Major Minor Electives	Req. 57  our  Req. 57  40  18  13	Have 0 0	Need 57 Need 57 40	Minimum Upper-Level Hours in Minor  Minimum GPA Required in Minor  ELECTIVES  UL Elec: CHEM 3403 - 4 hrs (required for major) UL Elec: CHEM 3404 - 4 hrs (required for major) UL Elec: MSCI 3101 - 1 hr (required for major) Elective - 3 hrs Elective - 1 hr  Total Hours in Electives Required Upper-Level Electives  INSTITUTIONAL HOUR BREAKDOWN:	18 6 2.00 Inst.	Hours  Have 0	18 6 Grade Need 13
Physical Lab Sci - CHEM 1401 - 4 hrs (required for major) Lab Sci - CHEM 1402 - 4 hrs (required for major) MSCI 2311 - 3 hrs (required for major)  Total Hours in General Education  Notes: *Upper-level electives may be required to meet the 42-h upper-level graduation requirement.  GRADUATION REQUIREMENTS: General Education Major Minor Electives Additional Electives/Major/Minor (Optional)	Req. 57  our	Have 0 0 0 0 0 0	Need 57  Need 57 40 18	Minimum Upper-Level Hours in Minor  Minimum GPA Required in Minor  ELECTIVES  UL Elec: CHEM 3403 - 4 hrs (required for major) UL Elec: CHEM 3404 - 4 hrs (required for major) UL Elec: MSCI 3101 - 1 hr (required for major) Elective - 3 hrs Elective - 1 hr  Total Hours in Electives Required Upper-Level Electives  INSTITUTIONAL HOUR BREAKDOWN:	18 6 2.00 Inst.	Hours  Have 0	18 6 Grade Need 13
Physical Lab Sci - CHEM 1401 - 4 hrs (required for major) Lab Sci - CHEM 1402 - 4 hrs (required for major) MSCI 2311 - 3 hrs (required for major)  Total Hours in General Education  Notes: *Upper-level electives may be required to meet the 42-h upper-level graduation requirement.  GRADUATION REQUIREMENTS: General Education Major Minor Electives Additional Electives/Major/Minor (Optional) Additional Electives/Major/Minor (Optional)	Req. 57  our  Req. 13 0 0	Have 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Need 57  Need 57 40 18 13 0 0	Minimum Upper-Level Hours in Minor  Minimum GPA Required in Minor  ELECTIVES  UL Elec: CHEM 3403 - 4 hrs (required for major) UL Elec: CHEM 3404 - 4 hrs (required for major) UL Elec: MSCI 3101 - 1 hr (required for major) Elective - 3 hrs Elective - 1 hr  Total Hours in Electives Required Upper-Level Electives  INSTITUTIONAL HOUR BREAKDOWN:	18 6 2.00 Inst.	Hours  Have 0	18 6 Grade Need 13
Physical Lab Sci - CHEM 1401 - 4 hrs (required for major) Lab Sci - CHEM 1402 - 4 hrs (required for major) MSCI 2311 - 3 hrs (required for major)  Total Hours in General Education  Notes: *Upper-level electives may be required to meet the 42-h upper-level graduation requirement.  GRADUATION REQUIREMENTS: General Education Major Minor Electives Additional Electives/Major/Minor (Optional) Additional Electives/Major/Minor (Optional) Less Dual-Counted Hours	Req. 57  our  Req. 57 40 18 13 0 0 -4	Have 0 0 0 0 0 0 0	Need 57  Need 57 40 18 13 0 0 -4	Minimum Upper-Level Hours in Minor  Minimum GPA Required in Minor  ELECTIVES  UL Elec: CHEM 3403 - 4 hrs (required for major) UL Elec: CHEM 3404 - 4 hrs (required for major) UL Elec: MSCI 3101 - 1 hr (required for major) Elective - 3 hrs Elective - 1 hr  Total Hours in Electives Required Upper-Level Electives  INSTITUTIONAL HOUR BREAKDOWN:	18 6 2.00 Inst.	Hours  Have 0	18 6 Grade Need 13
Physical Lab Sci - CHEM 1401 - 4 hrs (required for major) Lab Sci - CHEM 1402 - 4 hrs (required for major) MSCI 2311 - 3 hrs (required for major)  Total Hours in General Education  Notes: *Upper-level electives may be required to meet the 42-h upper-level graduation requirement.  GRADUATION REQUIREMENTS: General Education Major Minor Electives Additional Electives/Major/Minor (Optional) Additional Electives/Major/Minor (Optional)	Req. 57  our  Req. 13 0 0	Have 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Need 57  Need 57 40 18 13 0 0	Minimum Upper-Level Hours in Minor  Minimum GPA Required in Minor  ELECTIVES  UL Elec: CHEM 3403 - 4 hrs (required for major) UL Elec: CHEM 3404 - 4 hrs (required for major) UL Elec: MSCI 3101 - 1 hr (required for major) Elective - 3 hrs Elective - 1 hr  Total Hours in Electives Required Upper-Level Electives  INSTITUTIONAL HOUR BREAKDOWN:	18 6 2.00 Inst.	Hours  Have 0	18 6 Grade  Need 13 +AH
Physical Lab Sci - CHEM 1401 - 4 hrs (required for major) Lab Sci - CHEM 1402 - 4 hrs (required for major) MSCI 2311 - 3 hrs (required for major)  Total Hours in General Education  Notes: "Upper-level electives may be required to meet the 42-h upper-level graduation requirement.  GRADUATION REQUIREMENTS: General Education Major Minor Electives Additional Electives/Major/Minor (Optional) Additional Electives/Major/Minor (Optional) Less Dual-Counted Hours Total Hours Required (Minimum 124)	Req. 57  our  Req. 57 40 18 13 0 -4 124	Have 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Need 57  Need 57 40 18 13 0 0 -4 124	Minimum Upper-Level Hours in Minor  Minimum GPA Required in Minor  ELECTIVES  UL Elec: CHEM 3403 - 4 hrs (required for major) UL Elec: CHEM 3404 - 4 hrs (required for major) UL Elec: MSCI 3101 - 1 hr (required for major) Elective - 3 hrs Elective - 1 hr  Total Hours in Electives Required Upper-Level Electives  INSTITUTIONAL HOUR BREAKDOWN:	18 6 2.00 Inst.	Hours  Have 0	18 6 Grade  Need 13 +AH
Physical Lab Sci - CHEM 1401 - 4 hrs (required for major) Lab Sci - CHEM 1402 - 4 hrs (required for major) MSCI 2311 - 3 hrs (required for major)  Total Hours in General Education  Notes: "Upper-level electives may be required to meet the 42-h upper-level graduation requirement.  GRADUATION REQUIREMENTS: General Education  Major Minor Electives Additional Electives/Major/Minor (Optional) Additional Electives/Major/Minor (Optional) Less Dual-Counted Hours  Total Hours Required (Minimum 124)  Wayland Residency Hours Required	Req. 57  our  Req. 57  40  18  13  0  -4  124  31	Have 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Need 57  Need 57 40 18 13 0 0 -4 124 31	Minimum Upper-Level Hours in Minor  Minimum GPA Required in Minor  ELECTIVES  UL Elec: CHEM 3403 - 4 hrs (required for major) UL Elec: CHEM 3404 - 4 hrs (required for major) UL Elec: MSCI 3101 - 1 hr (required for major) Elective - 3 hrs Elective - 1 hr  Total Hours in Electives Required Upper-Level Electives  INSTITUTIONAL HOUR BREAKDOWN:	18 6 2.00 Inst.	Hours  Have 0	18 6 Grade  Need 13 +AH
Physical Lab Sci - CHEM 1401 - 4 hrs (required for major) Lab Sci - CHEM 1402 - 4 hrs (required for major) MSCI 2311 - 3 hrs (required for major)  Total Hours in General Education  Notes: "Upper-level electives may be required to meet the 42-h upper-level graduation requirement.  GRADUATION REQUIREMENTS: General Education Major Minor Electives Additional Electives/Major/Minor (Optional) Additional Electives/Major/Minor (Optional) Less Dual-Counted Hours Total Hours Required (Minimum 124)	Req. 57  our  Req. 57 40 18 13 0 -4 124	Have 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Need 57  Need 57 40 18 13 0 0 -4 124	Minimum Upper-Level Hours in Minor  Minimum GPA Required in Minor  ELECTIVES  UL Elec: CHEM 3403 - 4 hrs (required for major) UL Elec: CHEM 3404 - 4 hrs (required for major) UL Elec: MSCI 3101 - 1 hr (required for major) Elective - 3 hrs Elective - 1 hr  Total Hours in Electives Required Upper-Level Electives  INSTITUTIONAL HOUR BREAKDOWN:	18 6 2.00 Inst.	Hours  Have 0	18 6 Grade Need 13