



NORTHEASTERN STATE UNIVERSITY

College of Science & Health Professions

2011 – 2012 Biology – Molecular Biology Road Map

First Year – Freshman

Fall Semester		Spring Semester	
BIOL 1123*	Evolution and Diversity	BIOL 3224	Microbiology
BIOL 1131*	Investigative Lab	ENGL 1213*	Freshman Comp II
MATH 1513*	College Algebra	Communications, 3 hours*	See list in NSU catalog
UNIV 1002*	College Strategies	Culture and Ideas, 3 hours*	See list in NSU catalog
ENGL 1113*	Freshman Comp I	CHEM 1223/1231	General Chemistry II plus Lab
CHEM 1123/1131*	General Chemistry I plus Lab		
Total Hours	16	Total Hours	17

Second Year – Sophomore

Fall Semester		Spring Semester	
BIOL 3114	Genetics	BIOL 3124	Cell Biology
PHYS 1115	General Physics I	PHYS 1215	General Physics II
POLS 1113*	American Federal Government	MATH 3513	Statistical Methods
HIST 1483 or 1493*	American History	Social Sciences, 3 hours*	See list in NSU catalog
		UNIV 2091	Capstone
Total Hours	15	Total Hours	16

Third Year – Junior

Fall Semester		Spring Semester	
CHEM 3123/3132	Organic Chemistry I plus lab	BIOL 3013	Animal Biology
BIOL 3003	Plant Biology	BIOL 4354 ²	Immunology
BIOL 3524	Ecology	BIOL 4232	Cell/Molecular Lab
H ED 1113 or HFS 1653	Pers. Health/Basic Nutrition	CS/IS 1003* **	Computers in Modern Society
		CHEM 3223/3232	Organic Chemistry II plus lab
Total Hours	15	Total Hours	17

Fourth Year – Senior

Fall Semester		Spring Semester	
BIOL 4242 ^{1,3}	Trends and Issues in Mol Biol	BIOL 4621	Senior Seminar
BIOL 4103 Developmental Biology or BIOL 4133 Virology		BIOL 4543 ^{2,4}	Molecular Biology
CHEM 4214	Biochemistry	Fine Arts Appreciation, 3 hours*	See list in NSU catalog
Life Skills, 3 hours*	See list in NSU catalog	Free elective, 3 hours	Consult with advisor
Global Perspectives, 3 hours*	See list in NSU catalog	Global Perspectives, 3 hours*	See list in NSU catalog
BIOL 4410 (1)	Research	BIOL 4410 (2)	Research
Total Hours	16	Total Hours	15

Total Degree Plan Hours 124

* General education requirement ** Requirement may be met in other ways. Consult your advisor.

¹ Offered fall only ² Offered spring only ³ Offered even springs ⁴ Offered even falls

+ Students may take BIOL 4232 plus 3 hours of BIOL 4410 (Research) for a total of 5 hours or take BIOL 4410 (5 hours).