

MDS 318 BS Biology**4 Year 1 Co-op**

Yr 1 FL	C BIO U101 Principles of Biology 1 Coreq(s): C BIO U102	4.0 SH
Yr 1 FL	C BIO U102 Lab for BIO U101 Coreq(s): C BIO U101	1.0 SH
Yr 1 FL	C CHM U211 General Chemistry 1 Coreq(s): C CHM U212 C CHM U213	4.0 SH
Yr 1 FL	C CHM U212 Lab for CHM U211 Coreq(s): C CHM U211 C CHM U213	1.0 SH
Yr 1 FL	C CHM U213 Recitation for CHM U211 Coreq(s): C CHM U211 C CHM U212	0.0 SH
Yr 1 FL	C BIO U100 Biology/Biochem at NU	1.0 SH
Yr 1 FL	C MTH U151 Calculus & Diff Eq—Biology 1	4.0 SH
Yr 1 FL	NU Core course or Elective	4.0 SH
	Semester Subtotal	19.0 SH
Yr 1 SP	C BIO U103 Principles of Biology 2 Coreq(s): C BIO U104	4.0 SH
Yr 1 SP	C BIO U104 Lab for BIO U103 Coreq(s): C BIO U103	1.0 SH
Yr 1 SP	C CHM U214 General Chemistry 2 Coreq(s): C CHM U215 C CHM U216	4.0 SH
Yr 1 SP	C CHM U215 Lab for CHM U214 Coreq(s): C CHM U214 C CHM U216	1.0 SH
Yr 1 SP	C CHM U216 Recitation for CHM U214 Coreq(s): C CHM U214 C CHM U215	0.0 SH
Yr 1 SP	C ENG U111 College Writing	4.0 SH
Yr 1 SP	C BIO U106 Intro to Experiential Ed	1.0 SH
Yr 1 SP	C MTH U152 Calculus & Diff Eq—Biology 2	4.0 SH
	Semester Subtotal	19.0 SH
Yr 1 S1	VACATION	0.0 SH
	Semester Subtotal	0.0 SH
Yr 1 S2	VACATION	0.0 SH
	Semester Subtotal	0.0 SH
Yr 2 FL	C BIO U301 Genetics & Molecular Biology Coreq(s): C BIO U302	4.0 SH
Yr 2 FL	C BIO U302 Lab for BIO U301 Coreq(s): C BIO U301	1.0 SH
Yr 2 FL	C CHM U311 Organic Chemistry 1 Coreq(s): C CHM U312	4.0 SH
Yr 2 FL	C CHM U312 Lab for CHM U311 Coreq(s): C CHM U311	1.0 SH
Yr 2 FL	NU Core course or Elective	4.0 SH
Yr 2 FL	NU Core Course or Elective	4.0 SH
	Semester Subtotal	18.0 SH
Yr 2 SP	CO-OP	0.0 SH
	Semester Subtotal	0.0 SH
Yr 2 S1	CO-OP	0.0 SH
	Semester Subtotal	0.0 SH
Yr 2 S2	C CHM U313 Organic Chemistry 2 Coreq(s): C CHM U314	4.0 SH
Yr 2 S2	C CHM U314 Lab CHM U313 Coreq(s): C CHM U313	1.0 SH
Yr 2 S2	Cell/Mol or Org/Pop Bio Elect	5.0 SH
	Semester Subtotal	10.0 SH

Yr 3 FL	C PHY U145 Physics for Life Sciences 1 Coreq(s): C PHY U146	4.0 SH
Yr 3 FL	C PHY U146 Lab for PHY U145 Coreq(s): C PHY U145	1.0 SH
Yr 3 FL	C ENG U301 Advanced Writing in Discipline	4.0 SH
Yr 3 FL	Cell/Mol or Org/Pop Bio Elect	5.0 SH
Yr 3 FL	NU Core course or Elective	4.0 SH
	Semester Subtotal	18.0 SH
Yr 3 SP	C PHY U147 Physics for Life Sciences 2 Coreq(s): C PHY U148	4.0 SH
Yr 3 SP	C PHY U148 Lab for PHY U147 Coreq(s): C PHY U147	1.0 SH
Yr 3 SP	NU Core course or Elective	4.0 SH
Yr 3 SP	NU Core Course or Elective	4.0 SH
Yr 3 SP	BIO Intermed/Adv UG Elective	5.0 SH
	Semester Subtotal	18.0 SH
Yr 3 S1	NU Core Course or Elective	4.0 SH
Yr 3 S1	NU Core Course or Elective	4.0 SH
	Semester Subtotal	8.0 SH
Yr 3 S2	VACATION	0.0 SH
	Semester Subtotal	0.0 SH
Yr 4 FL	C BIO U701 Biology Capstone	4.0 SH
Yr 4 FL	BIO Intermed/Adv UG Elective	5.0 SH
Yr 4 FL	NU Core Course or Elective	4.0 SH
Yr 4 FL	NU Core Course or Elective	4.0 SH
	Semester Subtotal	17.0 SH
Yr 4 SP	NU Core Course or Elective	4.0 SH
Yr 4 SP	Intermed/Adv Science Elective	4.0 SH
Yr 4 SP	BIO Intermed/Adv UG Elective	5.0 SH
Yr 4 SP	NU Core Course or Elective	4.0 SH
	Semester Subtotal	17.0 SH

MDS 318 BS Biology Div A

Yr 1 FL	C BIO U101 Principles of Biology 1 Coreq(s): C BIO U102	4.0 SH
Yr 1 FL	C BIO U102 Lab for BIO U101 Coreq(s): C BIO U101	1.0 SH
Yr 1 FL	C CHM U211 General Chemistry 1 Coreq(s): C CHM U212 C CHM U213	4.0 SH
Yr 1 FL	C CHM U212 Lab for CHM U211 Coreq(s): C CHM U211 C CHM U213	1.0 SH
Yr 1 FL	C CHM U213 Recitation for CHM U211 Coreq(s): C CHM U211 C CHM U212	0.0 SH
Yr 1 FL	C BIO U100 Biology/Biochem at NU	1.0 SH
Yr 1 FL	C MTH U151 Calculus & Diff Eq—Biology 1	4.0 SH
Yr 1 FL	NU Core course or Elective	4.0 SH
	Semester Subtotal	19.0 SH

Yr 1 SP	C BIO U103 Principles of Biology 2 Coreq(s): C BIO U104	4.0 SH	Yr 4 FL	CO-OP	0.0 SH
Yr 1 SP	C BIO U104 Lab for BIO U103 Coreq(s): C BIO U103	1.0 SH		Semester Subtotal	0.0 SH
Yr 1 SP	C CHM U214 General Chemistry 2 Coreq(s): C CHM U215 C CHM U216	4.0 SH	Yr 4 SP	C PHY U147 Physics for Life Sciences 2 Coreq(s): C PHY U148	4.0 SH
Yr 1 SP	C CHM U215 Lab for CHM U214 Coreq(s): C CHM U214 C CHM U216	1.0 SH	Yr 4 SP	C PHY U148 Lab for PHY U147 Coreq(s): C PHY U147	1.0 SH
Yr 1 SP	C CHM U216 Recitation for CHM U214 Coreq(s): C CHM U214 C CHM U215	0.0 SH	Yr 4 SP	BIO Intermed/Adv UG Elective	5.0 SH
Yr 1 SP	C BIO U106 Intro to Experiential Ed	1.0 SH	Yr 4 SP	NU Core Course or Elective	4.0 SH
Yr 1 SP	C ENG U111 College Writing	4.0 SH	Yr 4 SP	NU Core Course or Elective	4.0 SH
Yr 1 SP	C MTH U152 Calculus & Diff Eq—Biology 2	4.0 SH		Semester Subtotal	18.0 SH
	Semester Subtotal	19.0 SH	Yr 4 S1	BIO Intermed/Adv UG Elective	5.0 SH
Yr 1 S1	VACATION	0.0 SH	Yr 4 S1	NU Core Course or Elective	4.0 SH
	Semester Subtotal	0.0 SH		Semester Subtotal	9.0 SH
Yr 1 S2	VACATION	0.0 SH	Yr 4 S2	CO-OP	0.0 SH
	Semester Subtotal	0.0 SH		Semester Subtotal	0.0 SH
Yr 2 FL	C CHM U311 Organic Chemistry1 Coreq(s): C CHM U312	4.0 SH	Yr 5 FL	CO-OP	0.0 SH
Yr 2 FL	C CHM U312 Lab for CHM U311 Coreq(s): C CHM U311	1.0 SH		Semester Subtotal	0.0 SH
Yr 2 FL	Cell/Mol or Org/Pop Bio Elect	5.0 SH	Yr 5 SP	C BIO U701 Biology Capstone	4.0 SH
Yr 2 FL	NU Core Course or Elective	4.0 SH	Yr 5 SP	Intermed/Adv Science Elective	4.0 SH
Yr 2 FL	NU Core course or Elective	4.0 SH	Yr 5 SP	NU Core Course or Elective	4.0 SH
	Semester Subtotal	18.0 SH	Yr 5 SP	NU Core Course or Elective	4.0 SH
Yr 2 SP	C CHM U313 Organic Chemistry 2 Coreq(s): C CHM U314	4.0 SH		Semester Subtotal	16.0 SH
Yr 2 SP	C CHM U314 Lab CHM U313 Coreq(s): C CHM U313	1.0 SH	<hr/> MDS 318 BS Biology Div B		
Yr 2 SP	C BIO U301 Genetics & Molecular Biology Coreq(s): C BIO U302	4.0 SH	Yr 1 FL	C BIO U101 Principles of Biology 1 Coreq(s): C BIO U102	4.0 SH
Yr 2 SP	C BIO U302 Lab for BIO U301 Coreq(s): C BIO U301	1.0 SH	Yr 1 FL	C BIO U102 Lab for BIO U101 Coreq(s): C BIO U101	1.0 SH
Yr 2 SP	M COP U101 Professional Development Co-op	1.0 SH	Yr 1 FL	C CHM U211 General Chemistry 1 Coreq(s): C CHM U212 C CHM U213	4.0 SH
Yr 2 SP	NU Core course or Elective	4.0 SH	Yr 1 FL	C CHM U212 Lab for CHM U211 Coreq(s): C CHM U211 C CHM U213	1.0 SH
Yr 2 SP	NU Core Course or Elective	4.0 SH	Yr 1 FL	C CHM U213 Recitation for CHM U211 Coreq(s): C CHM U211 C CHM U212	0.0 SH
	Semester Subtotal	19.0 SH	Yr 1 FL	C BIO U100 Biology/Biochem at NU	1.0 SH
Yr 2 S1	VACATION	0.0 SH	Yr 1 FL	C MTH U151 Calculus & Diff Eq—Biology 1	4.0 SH
	Semester Subtotal	0.0 SH	Yr 1 FL	NU Core course or Elective	4.0 SH
Yr 2 S2	CO-OP	0.0 SH		Semester Subtotal	19.0 SH
	Semester Subtotal	0.0 SH	Yr 1 SP	C BIO U103 Principles of Biology 2 Coreq(s): C BIO U104	4.0 SH
Yr 3 FL	CO-OP	0.0 SH	Yr 1 SP	C BIO U104 Lab for BIO U103 Coreq(s): C BIO U103	1.0 SH
	Semester Subtotal	0.0 SH	Yr 1 SP	C CHM U214 General Chemistry 2 Coreq(s): C CHM U215 C CHM U216	4.0 SH
Yr 3 SP	C PHY U145 Physics for Life Sciences 1 Coreq(s): C PHY U146	4.0 SH	Yr 1 SP	C CHM U215 Lab for CHM U214 Coreq(s): C CHM U214 C CHM U216	1.0 SH
Yr 3 SP	C PHY U146 Lab for PHY U145 Coreq(s): C PHY U145	1.0 SH	Yr 1 SP	C CHM U216 Recitation for CHM U214 Coreq(s): C CHM U214 C CHM U215	0.0 SH
Yr 3 SP	C ENG U301 Advanced Writing in Discipline	4.0 SH	Yr 1 SP	C BIO U106 Intro to Experiential Ed	1.0 SH
Yr 3 SP	Cell/Mol or Org/Pop Bio Elect	5.0 SH	Yr 1 SP	C ENG U111 College Writing	4.0 SH
Yr 3 SP	NU Core Course or Elective	4.0 SH	Yr 1 SP	C MTH U152 Calculus & Diff Eq—Biology 2	4.0 SH
	Semester Subtotal	18.0 SH		Semester Subtotal	19.0 SH
Yr 3 S1	BIO Intermed/Adv UG Elective	5.0 SH	Yr 1 S1	VACATION	0.0 SH
Yr 3 S1	NU Core Course or Elective	4.0 SH		Semester Subtotal	0.0 SH
	Semester Subtotal	9.0 SH	Yr 1 S2	VACATION	0.0 SH
Yr 3 S2	CO-OP	0.0 SH		Semester Subtotal	0.0 SH
	Semester Subtotal	0.0 SH			

Yr 2 SP	C CHM U313 Organic Chemistry 2	4.0 SH
	Coreq(s): C CHM U314	
Yr 2 SP	C CHM U314 Lab CHM U313	1.0 SH
	Coreq(s): C CHM U313	
Yr 2 SP	Cell/Mol or Org/Pop Bio Elect	5.0 SH
Yr 2 SP	NU Core course or Elective	4.0 SH
Yr 2 SP	NU Core Course or Elective	4.0 SH
	Semester Subtotal	18.0 SH
Yr 2 S1	VACATION	0.0 SH
	Semester Subtotal	0.0 SH
Yr 2 S2	VACATION	0.0 SH
	Semester Subtotal	0.0 SH
Yr 3 FL	C PHY U145 Physics for Life Sciences 1	4.0 SH
	Coreq(s): C PHY U146	
Yr 3 FL	C PHY U146 Lab for PHY U145	1.0 SH
	Coreq(s): C PHY U145	
Yr 3 FL	C ENG U301 Advanced Writing in Discipline	4.0 SH
Yr 3 FL	Cell/Mol or Org/Pop Bio Elect	5.0 SH
Yr 3 FL	NU Core Course or Elective	4.0 SH
	Semester Subtotal	18.0 SH
Yr 3 SP	C PHY U147 Physics for Life Sciences 2	4.0 SH
	Coreq(s): C PHY U148	
Yr 3 SP	C PHY U148 Lab for PHY U147	1.0 SH
	Coreq(s): C PHY U147	
Yr 3 SP	BIO Intermed/Adv UG Elective	5.0 SH
Yr 3 SP	NU Core Course or Elective	4.0 SH
Yr 3 SP	NU Core Course or Elective	4.0 SH
	Semester Subtotal	18.0 SH
Yr 3 S1	VACATION	0.0 SH
	Semester Subtotal	0.0 SH
Yr 3 S2	VACATION	0.0 SH
	Semester Subtotal	0.0 SH
Yr 4 FL	C BIO U701 Biology Capstone	4.0 SH
Yr 4 FL	BIO Intermed/Adv UG Elective	5.0 SH
Yr 4 FL	NU Core Course or Elective	4.0 SH
Yr 4 FL	NU Core Course or Elective	4.0 SH
	Semester Subtotal	17.0 SH
Yr 4 SP	BIO Intermed/Adv UG Elective	5.0 SH
Yr 4 SP	NU Core Course or Elective	4.0 SH
Yr 4 SP	Intermed/Adv Science Elective	4.0 SH
Yr 4 SP	NU Core Course or Elective	4.0 SH
	Semester Subtotal	17.0 SH