

MDS 312 BS Chemistry**4 Year 1 Co-op Plan A**

Yr 1 FL	C CHM U217 Gen Chem 1 for Chem Sci Majors Coreq(s): C CHM U218 C CHM U219	4.0 SH
Yr 1 FL	C CHM U218 Lab for CHM U217 Coreq(s): C CHM U217 C CHM U219	2.0 SH
Yr 1 FL	C CHM U219 Recitation for CHM U217 Coreq(s): C CHM U217 C CHM U218	0.0 SH
Yr 1 FL	C MTH U151 Calculus & Diff Eq—Biology 1	4.0 SH
Yr 1 FL	C ENG U111 College Writing	4.0 SH
Yr 1 FL	C CHM U100 Chemistry/Chemical Bio at NU	1.0 SH
Yr 1 FL	NU Core Course or Elective	4.0 SH
	Semester Subtotal	19.0 SH
Yr 1 SP	C CHM U220 Gen Chem 2 for Chem Sci Majors Coreq(s): C CHM U221 C CHM U222	4.0 SH
Yr 1 SP	C CHM U221 Lab for CHM U220 Coreq(s): C CHM U220 C CHM U222	2.0 SH
Yr 1 SP	C CHM U222 Recitation for CHM U220 Coreq(s): C CHM U220 C CHM U221	0.0 SH
Yr 1 SP	C PHY U145 Physics for Life Sciences 1 Coreq(s): C PHY U146	4.0 SH
Yr 1 SP	C PHY U146 Lab for PHY U145 Coreq(s): C PHY U145	1.0 SH
Yr 1 SP	C MTH U152 Calculus & Diff Eq—Biology 2	4.0 SH
Yr 1 SP	NU Core course or Elective	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 CHM U315 Org Chm 1: Chem Majors Coreq(s): C CHM U316	4.0 SH
Yr 2 FL	C CHM U316 Lab for CHM U315 Coreq(s): C CHM U315	2.0 SH
Yr 2 FL	C PHY U147 Physics for Life Sciences 2 Coreq(s): C PHY U148	4.0 SH
Yr 2 FL	C PHY U148 Lab for PHY U147 Coreq(s): C PHY U147	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	19.0 SH
Yr 2 SP	C CHM U317 Org Chm 2: Chem Maj Coreq(s): C CHM U318	4.0 SH
Yr 2 SP	C CHM U318 Lab for CHM U317 Coreq(s): C CHM U317	2.0 SH
Yr 2 SP	C CHM U331 Bioanalytical Chemistry Coreq(s): C CHM U332	4.0 SH
Yr 2 SP	C CHM U332 Lab for CHM U331 Coreq(s): C CHM U331	1.0 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	19.0 SH
Yr 2 S1	C CHM U521 Instrumental Methods of Anlys	1.0 SH
Yr 2 S1	C CHM U522 Instrumental Mthds of Anly Lab	4.0 SH
Yr 2 S1	C CHM U901 Undergraduate Research	4.0 SH
	Semester Subtotal	9.0 SH
Yr 2 S2	VACATION	0.0 SH
	Semester Subtotal	0.0 SH

Yr 3 FL	C CHM U401 Physical Chemistry 1 Coreq(s): C CHM U402	4.0 SH
Yr 3 FL	C CHM U402 Lab for CHM U401 Coreq(s): C CHM U401	1.0 SH
Yr 3 FL	C ENG U307 Adv Writing in the Sciences	4.0 SH
Yr 3 FL	C CHM U621 Chemical Biology for Chemists Coreq(s): C CHM U622	3.0 SH
Yr 3 FL	C CHM U622 Lab for CHM U621 Coreq(s): C CHM U621	1.0 SH
Yr 3 FL	NU Core Course or Elective	4.0 SH
	Semester Subtotal	17.0 SH
Yr 3 SP	C CHM U403 Physical Chemistry 2 Coreq(s): C CHM U404	4.0 SH
Yr 3 SP	C CHM U404 Lab for CHM U403 Coreq(s): C CHM U403	1.0 SH
Yr 3 SP	C CHM U646 Synth & Reacvty of Inorg Cmpnds	3.0 SH
Yr 3 SP	C CHM U628 Spectroscopy of Organ Compnds	3.0 SH
Yr 3 SP	C CHM U629 ID of Org Compounds	2.0 SH
Yr 3 SP	M COP U101 Professional Development Co-op	1.0 SH
Yr 3 SP	NU Core Course or Elective	4.0 SH
	Semester Subtotal	18.0 SH
Yr 3 S1	C CHM U531 Chem Synth Characterization	1.0 SH
Yr 3 S1	C CHM U532 Chem Synth Charaterizatr Lab	4.0 SH
Yr 3 S1	NU Core Course or Elective	4.0 SH
	Semester Subtotal	9.0 SH
Yr 3 S2	CO-OP	0.0 SH
	Semester Subtotal	0.0 SH
Yr 4 FL	CO-OP	0.0 SH
	Semester Subtotal	0.0 SH
Yr 4 SP	C CHM U750 Senior Research Coreq(s): C CHM U770	4.0 SH
Yr 4 SP	NU Core Course or Elective	4.0 SH
Yr 4 SP	NU Core Course or Elective	4.0 SH
Yr 4 SP	NU Core Course or Elective	4.0 SH
	Semester Subtotal	16.0 SH

MDS 312 BS Chemistry**4 Year 1 Co-op Plan B**

Yr 1 FL	C CHM U217 Gen Chem 1 for Chem Sci Majors Coreq(s): C CHM U218 C CHM U219	4.0 SH
Yr 1 FL	C CHM U218 Lab for CHM U217 Coreq(s): C CHM U217 C CHM U219	2.0 SH
Yr 1 FL	C CHM U219 Recitation for CHM U217 Coreq(s): C CHM U217 C CHM U218	0.0 SH
Yr 1 FL	C MTH U151 Calculus & Diff Eq—Biology 1	4.0 SH
Yr 1 FL	C ENG U111 College Writing	4.0 SH
Yr 1 FL	C CHM U101 General Chem for Health Sci Coreq(s): C CHM U102 C CHM U103	4.0 SH
Yr 1 FL	NU Core Course or Elective	4.0 SH
	Semester Subtotal	22.0 SH

Yr 1 SP	C CHM U220 Gen Chem 2 for Chem Sci Majors Coreq(s): C CHM U221 C CHM U222	4.0 SH	Yr 3 S1	CO-OP	0.0 SH
Yr 1 SP	C CHM U221 Lab for CHM U220 Coreq(s): C CHM U220 C CHM U222	2.0 SH		Semester Subtotal	0.0 SH
Yr 1 SP	C CHM U222 Recitation for CHM U220 Coreq(s): C CHM U220 C CHM U221	0.0 SH	Yr 3 S2	C CHM U531 Chem Synth Characterization	1.0 SH
Yr 1 SP	C MTH U152 Calculus & Diff Eq—Biology 2	4.0 SH	Yr 3 S2	C CHM U532 Chem Synth Characterizatn Lab	4.0 SH
Yr 1 SP	C PHY U145 Physics for Life Sciences 1 Coreq(s): C PHY U146	4.0 SH	Yr 3 S2	NU Core Course or Elective	4.0 SH
Yr 1 SP	C PHY U146 Lab for PHY U145 Coreq(s): C PHY U145	1.0 SH		Semester Subtotal	9.0 SH
Yr 1 SP	NU Core course or Elective	4.0 SH	Yr 4 FL	C CHM U403 Physical Chemistry 2 Coreq(s): C CHM U404	4.0 SH
	Semester Subtotal	19.0 SH	Yr 4 FL	C CHM U404 Lab for CHM U403 Coreq(s): C CHM U403	1.0 SH
Yr 1 S1	VACATION	0.0 SH	Yr 4 FL	C CHM U646 Synth & Reacvty of Inorg Cmpnds	3.0 SH
	Semester Subtotal	0.0 SH	Yr 4 FL	C CHM U628 Spectroscopy of Organ Compnds	3.0 SH
Yr 1 S2	VACATION	0.0 SH	Yr 4 FL	C CHM U629 ID of Org Compounds	2.0 SH
	Semester Subtotal	0.0 SH	Yr 4 FL	NU Core Course or Elective	4.0 SH
Yr 2 FL	C CHM U315 Org Chm 1: Chem Majors Coreq(s): C CHM U316	4.0 SH		Semester Subtotal	17.0 SH
Yr 2 FL	C CHM U316 Lab for CHM U315 Coreq(s): C CHM U315	2.0 SH	Yr 4 SP	C CHM U750 Senior Research Coreq(s): C CHM U770	4.0 SH
Yr 2 FL	C PHY U147 Physics for Life Sciences 2 Coreq(s): C PHY U148	4.0 SH	Yr 4 SP	NU Core Course or Elective	4.0 SH
Yr 2 FL	C PHY U148 Lab for PHY U147 Coreq(s): C PHY U147	1.0 SH	Yr 4 SP	NU Core Course or Elective	4.0 SH
Yr 2 FL	NU Core Course or Elective	4.0 SH	Yr 4 SP	NU Core Course or Elective	4.0 SH
Yr 2 FL	NU Core course or Elective	4.0 SH		Semester Subtotal	16.0 SH
	Semester Subtotal	19.0 SH	MDS 312 BS Chemistry Div A		
Yr 2 SP	C CHM U317 Org Chm 2: Chem Maj Coreq(s): C CHM U318	4.0 SH	Yr 1 FL	C MTH U151 Calculus & Diff Eq—Biology 1	4.0 SH
Yr 2 SP	C CHM U318 Lab for CHM U317 Coreq(s): C CHM U317	2.0 SH	Yr 1 FL	C ENG U111 College Writing	4.0 SH
Yr 2 SP	C CHM U331 Bioanalytical Chemistry Coreq(s): C CHM U332	4.0 SH	Yr 1 FL	C CHM U217 Gen Chem 1 for Chem Sci Majors Coreq(s): C CHM U218 C CHM U219	4.0 SH
Yr 2 SP	C CHM U332 Lab for CHM U331 Coreq(s): C CHM U331	1.0 SH	Yr 1 FL	C CHM U218 Lab for CHM U217 Coreq(s): C CHM U217 C CHM U219	2.0 SH
Yr 2 SP	NU Core course or Elective	4.0 SH	Yr 1 FL	C CHM U219 Recitation for CHM U217 Coreq(s): C CHM U217 C CHM U218	0.0 SH
Yr 2 SP	NU Core Course or Elective	4.0 SH	Yr 1 FL	C CHM U100 Chemistry/Chemical Bio at NU	1.0 SH
	Semester Subtotal	19.0 SH	Yr 1 FL	NU Core Course or Elective	4.0 SH
Yr 2 S1	C CHM U521 Instrumental Methods of Anlys	1.0 SH		Semester Subtotal	19.0 SH
Yr 2 S1	C CHM U522 Instrumental Mthds of Anly Lab	4.0 SH	Yr 1 SP	C CHM U220 Gen Chem 2 for Chem Sci Majors Coreq(s): C CHM U221 C CHM U222	4.0 SH
Yr 2 S1	C CHM U901 Undergraduate Research	4.0 SH	Yr 1 SP	C CHM U221 Lab for CHM U220 Coreq(s): C CHM U220 C CHM U222	2.0 SH
	Semester Subtotal	9.0 SH	Yr 1 SP	C CHM U222 Recitation for CHM U220 Coreq(s): C CHM U220 C CHM U221	0.0 SH
Yr 2 S2	VACATION	0.0 SH	Yr 1 SP	C PHY U145 Physics for Life Sciences 1 Coreq(s): C PHY U146	4.0 SH
	Semester Subtotal	0.0 SH	Yr 1 SP	C PHY U146 Lab for PHY U145 Coreq(s): C PHY U145	1.0 SH
Yr 3 FL	C CHM U401 Physical Chemistry 1 Coreq(s): C CHM U402	4.0 SH	Yr 1 SP	C MTH U152 Calculus & Diff Eq—Biology 2	4.0 SH
Yr 3 FL	C CHM U402 Lab for CHM U401 Coreq(s): C CHM U401	1.0 SH	Yr 1 SP	NU Core course or Elective	4.0 SH
Yr 3 FL	C ENG U307 Adv Writing in the Sciences	4.0 SH		Semester Subtotal	19.0 SH
Yr 3 FL	C CHM U621 Chemical Biology for Chemists Coreq(s): C CHM U622	3.0 SH	Yr 1 S1	VACATION	0.0 SH
Yr 3 FL	C CHM U622 Lab for CHM U621 Coreq(s): C CHM U621	1.0 SH		Semester Subtotal	0.0 SH
Yr 3 FL	M COP U101 Professional Development Co-op	1.0 SH	Yr 1 S2	VACATION	0.0 SH
Yr 3 FL	NU Core Course or Elective	4.0 SH		Semester Subtotal	0.0 SH
	Semester Subtotal	18.0 SH			
Yr 3 SP	CO-OP	0.0 SH			
	Semester Subtotal	0.0 SH			

Yr 2 FL	C CHM U315 Org Chm 1: Chem Majors Coreq(s): C CHM U316	4.0 SH	Yr 4 S1	C CHM U531 Chem Synth Characterization	1.0 SH
Yr 2 FL	C CHM U316 Lab for CHM U315 Coreq(s): C CHM U315	2.0 SH	Yr 4 S1	C CHM U532 Chem Synth Characterizatn Lab	4.0 SH
Yr 2 FL	C PHY U147 Physics for Life Sciences 2 Coreq(s): C PHY U148	4.0 SH	Yr 4 S1	NU Core Course or Elective	4.0 SH
Yr 2 FL	C PHY U148 Lab for PHY U147 Coreq(s): C PHY U147	1.0 SH		Semester Subtotal	9.0 SH
Yr 2 FL	NU Core Course or Elective	4.0 SH	Yr 4 S2	CO-OP	0.0 SH
Yr 2 FL	NU Core course or Elective	4.0 SH		Semester Subtotal	0.0 SH
	Semester Subtotal	19.0 SH	Yr 5 FL	CO-OP	0.0 SH
Yr 2 SP	C CHM U317 Org Chm 2: Chem Maj Coreq(s): C CHM U318	4.0 SH		Semester Subtotal	0.0 SH
Yr 2 SP	C CHM U318 Lab for CHM U317 Coreq(s): C CHM U317	2.0 SH	Yr 5 SP	C CHM U750 Senior Research Coreq(s): C CHM U770	4.0 SH
Yr 2 SP	C CHM U331 Bioanalytical Chemistry Coreq(s): C CHM U332	4.0 SH	Yr 5 SP	NU Core Course or Elective	4.0 SH
Yr 2 SP	C CHM U332 Lab for CHM U331 Coreq(s): C CHM U331	1.0 SH	Yr 5 SP	NU Core Course or Elective	4.0 SH
Yr 2 SP	M COP U101 Professional Development Co-op	1.0 SH		Semester Subtotal	16.0 SH
Yr 2 SP	NU Core course or Elective	4.0 SH	<hr/> MDS 312 BS Chemistry Div B		
Yr 2 SP	NU Core Course or Elective	4.0 SH	Yr 1 FL	C CHM U217 Gen Chem 1 for Chem Sci Majors Coreq(s): C CHM U218 C CHM U219	4.0 SH
	Semester Subtotal	20.0 SH	Yr 1 FL	C CHM U218 Lab for CHM U217 Coreq(s): C CHM U217 C CHM U219	2.0 SH
Yr 2 S1	VACATION	0.0 SH	Yr 1 FL	C CHM U219 Recitation for CHM U217 Coreq(s): C CHM U217 C CHM U218	0.0 SH
	Semester Subtotal	0.0 SH	Yr 1 FL	C MTH U151 Calculus & Diff Eq—Biology 1	4.0 SH
Yr 2 S2	CO-OP	0.0 SH	Yr 1 FL	C ENG U111 College Writing	4.0 SH
	Semester Subtotal	0.0 SH	Yr 1 FL	C CHM U100 Chemistry/Chemical Bio at NU	1.0 SH
Yr 3 FL	CO-OP	0.0 SH		Semester Subtotal	15.0 SH
	Semester Subtotal	0.0 SH	Yr 1 SP	C CHM U220 Gen Chem 2 for Chem Sci Majors Coreq(s): C CHM U221 C CHM U222	4.0 SH
Yr 3 SP	C CHM U401 Physical Chemistry 1 Coreq(s): C CHM U402	4.0 SH	Yr 1 SP	C CHM U221 Lab for CHM U220 Coreq(s): C CHM U220 C CHM U222	2.0 SH
Yr 3 SP	C CHM U402 Lab for CHM U401 Coreq(s): C CHM U401	1.0 SH	Yr 1 SP	C CHM U222 Recitation for CHM U220 Coreq(s): C CHM U220 C CHM U221	0.0 SH
Yr 3 SP	C CHM U621 Chemical Biology for Chemists Coreq(s): C CHM U622	3.0 SH	Yr 1 SP	C MTH U152 Calculus & Diff Eq—Biology 2	4.0 SH
Yr 3 SP	C CHM U622 Lab for CHM U621 Coreq(s): C CHM U621	1.0 SH	Yr 1 SP	C PHY U145 Physics for Life Sciences 1 Coreq(s): C PHY U146	4.0 SH
Yr 3 SP	C ENG U307 Adv Writing in the Sciences	4.0 SH	Yr 1 SP	C PHY U146 Lab for PHY U145 Coreq(s): C PHY U145	1.0 SH
Yr 3 SP	NU Core Course or Elective	4.0 SH	Yr 1 SP	NU Core course or Elective	4.0 SH
	Semester Subtotal	17.0 SH		Semester Subtotal	19.0 SH
Yr 3 S1	C CHM U521 Instrumental Methods of Anlys	1.0 SH	Yr 1 S1	VACATION	0.0 SH
Yr 3 S1	C CHM U522 Instrumental Mthds of Anly Lab	4.0 SH		Semester Subtotal	0.0 SH
Yr 3 S1	C CHM U901 Undergraduate Research	4.0 SH	Yr 1 S2	VACATION	0.0 SH
	Semester Subtotal	9.0 SH		Semester Subtotal	0.0 SH
Yr 3 S2	CO-OP	0.0 SH	Yr 2 FL	C CHM U315 Org Chm 1: Chem Majors Coreq(s): C CHM U316	4.0 SH
	Semester Subtotal	0.0 SH	Yr 2 FL	C CHM U316 Lab for CHM U315 Coreq(s): C CHM U315	2.0 SH
Yr 4 FL	CO-OP	0.0 SH	Yr 2 FL	C PHY U147 Physics for Life Sciences 2 Coreq(s): C PHY U148	4.0 SH
	Semester Subtotal	0.0 SH	Yr 2 FL	C PHY U148 Lab for PHY U147 Coreq(s): C PHY U147	1.0 SH
Yr 4 SP	C CHM U403 Physical Chemistry 2 Coreq(s): C CHM U404	4.0 SH	Yr 2 FL	M COP U101 Professional Development Co-op	1.0 SH
Yr 4 SP	C CHM U404 Lab for CHM U403 Coreq(s): C CHM U403	1.0 SH	Yr 2 FL	NU Core Course or Elective	4.0 SH
Yr 4 SP	C CHM U646 Synth & Reactvty of Inorg Cmpnds	3.0 SH	Yr 2 FL	NU Core course or Elective	4.0 SH
Yr 4 SP	C CHM U628 Spectroscopy of Organ Compnds	3.0 SH		Semester Subtotal	20.0 SH
Yr 4 SP	C CHM U629 ID of Org Compounds	2.0 SH			
Yr 4 SP	NU Core Course or Elective	4.0 SH			
	Semester Subtotal	17.0 SH			

Yr 2 SP	CO-OP	0.0 SH	Yr 5 SP	C CHM U750 Senior Research	4.0 SH
	Semester Subtotal	0.0 SH		Coreq(s): C CHM U770	
Yr 2 S1	CO-OP	0.0 SH	Yr 5 SP	C CHM U646 Synth & Reactvty of Inorg Cmpnds	3.0 SH
	Semester Subtotal	0.0 SH	Yr 5 SP	C CHM U628 Spectroscopy of Organ Compnds	3.0 SH
Yr 2 S2	NU Core Course or Elective	4.0 SH	Yr 5 SP	C CHM U629 ID of Org Compounds	2.0 SH
Yr 2 S2	NU Core Course or Elective	4.0 SH	Yr 5 SP	NU Core Course or Elective	4.0 SH
	Semester Subtotal	8.0 SH		Semester Subtotal	16.0 SH
Yr 3 FL	C CHM U317 Org Chm 2: Chem Maj	4.0 SH	MDS 312 BS Chemistry Div C		
	Coreq(s): C CHM U318		Yr 1 FL	C CHM U217 Gen Chem 1 for Chem Sci Majors	4.0 SH
Yr 3 FL	C CHM U318 Lab for CHM U317	2.0 SH		Coreq(s): C CHM U218 C CHM U219	
	Coreq(s): C CHM U317		Yr 1 FL	C CHM U218 Lab for CHM U217	2.0 SH
Yr 3 FL	C CHM U331 Bioanalytical Chemistry	4.0 SH		Coreq(s): C CHM U217 C CHM U219	
	Coreq(s): C CHM U332		Yr 1 FL	C CHM U219 Recitation for CHM U217	0.0 SH
Yr 3 FL	C CHM U332 Lab for CHM U331	1.0 SH		Coreq(s): C CHM U217 C CHM U218	
	Coreq(s): C CHM U331		Yr 1 FL	C MTH U151 Calculus & Diff Eq—Biology 1	4.0 SH
Yr 3 FL	C ENG U307 Adv Writing in the Sciences	4.0 SH	Yr 1 FL	C ENG U111 College Writing	4.0 SH
Yr 3 FL	NU Core course or Elective	4.0 SH	Yr 1 FL	C CHM U100 Chemistry/Chemical Bio at NU	1.0 SH
	Semester Subtotal	19.0 SH	Yr 1 FL	NU Core Course or Elective	4.0 SH
Yr 3 SP	CO-OP	0.0 SH		Semester Subtotal	19.0 SH
	Semester Subtotal	0.0 SH	Yr 1 SP	C CHM U220 Gen Chem 2 for Chem Sci Majors	4.0 SH
Yr 3 S1	CO-OP	0.0 SH		Coreq(s): C CHM U221 C CHM U222	
	Semester Subtotal	0.0 SH	Yr 1 SP	C CHM U221 Lab for CHM U220	2.0 SH
Yr 3 S2	C CHM U521 Instrumental Methods of Anlys	1.0 SH		Coreq(s): C CHM U220 C CHM U222	
Yr 3 S2	C CHM U522 Instrumental Mthds of Anly Lab	4.0 SH	Yr 1 SP	C CHM U222 Recitation for CHM U220	0.0 SH
Yr 3 S2	C CHM U531 Chem Synth Characterization	1.0 SH		Coreq(s): C CHM U220 C CHM U221	
Yr 3 S2	C CHM U532 Chem Synth Charaterizatn Lab	4.0 SH	Yr 1 SP	C MTH U152 Calculus & Diff Eq—Biology 2	4.0 SH
	Semester Subtotal	10.0 SH	Yr 1 SP	C PHY U145 Physics for Life Sciences 1	4.0 SH
Yr 4 FL	C CHM U401 Physical Chemistry 1	4.0 SH		Coreq(s): C PHY U146	
	Coreq(s): C CHM U402		Yr 1 SP	C PHY U146 Lab for PHY U145	1.0 SH
Yr 4 FL	C CHM U402 Lab for CHM U401	1.0 SH		Coreq(s): C PHY U145	
	Coreq(s): C CHM U401		Yr 1 SP	NU Core course or Elective	4.0 SH
Yr 4 FL	C CHM U621 Chemical Biology for Chemists	3.0 SH		Semester Subtotal	19.0 SH
	Coreq(s): C CHM U622		Yr 1 S1	VACATION	0.0 SH
Yr 4 FL	C CHM U622 Lab for CHM U621	1.0 SH		Semester Subtotal	0.0 SH
	Coreq(s): C CHM U621		Yr 1 S2	VACATION	0.0 SH
Yr 4 FL	C CHM U901 Undergraduate Research	4.0 SH		Semester Subtotal	0.0 SH
Yr 4 FL	NU Core Course or Elective	4.0 SH	Yr 2 FL	C CHM U315 Org Chm 1: Chem Majors	4.0 SH
	Semester Subtotal	17.0 SH		Coreq(s): C CHM U316	
Yr 4 SP	CO-OP	0.0 SH	Yr 2 FL	C CHM U316 Lab for CHM U315	2.0 SH
	Semester Subtotal	0.0 SH		Coreq(s): C CHM U315	
Yr 4 S1	CO-OP	0.0 SH	Yr 2 FL	C PHY U147 Physics for Life Sciences 2	4.0 SH
	Semester Subtotal	0.0 SH		Coreq(s): C PHY U148	
Yr 4 S2	VACATION	0.0 SH	Yr 2 FL	C PHY U148 Lab for PHY U147	1.0 SH
	Semester Subtotal	0.0 SH		Coreq(s): C PHY U147	
Yr 5 FL	C CHM U403 Physical Chemistry 2	4.0 SH	Yr 2 FL	NU Core Course or Elective	4.0 SH
	Coreq(s): C CHM U404		Yr 2 FL	NU Core course or Elective	4.0 SH
Yr 5 FL	C CHM U404 Lab for CHM U403	1.0 SH		Semester Subtotal	19.0 SH
	Coreq(s): C CHM U403		Yr 2 SP	C CHM U317 Org Chm 2: Chem Maj	4.0 SH
Yr 5 FL	NU Core Course or Elective	4.0 SH		Coreq(s): C CHM U318	
Yr 5 FL	NU Core Course or Elective	4.0 SH	Yr 2 SP	C CHM U318 Lab for CHM U317	2.0 SH
Yr 5 FL	NU Core Course or Elective	4.0 SH		Coreq(s): C CHM U317	
	Semester Subtotal	17.0 SH	Yr 2 SP	C CHM U331 Bioanalytical Chemistry	4.0 SH
				Coreq(s): C CHM U332	
			Yr 2 SP	C CHM U332 Lab for CHM U331	1.0 SH
				Coreq(s): C CHM U331	
			Yr 2 SP	NU Core course or Elective	4.0 SH
			Yr 2 SP	NU Core Course or Elective	4.0 SH
				Semester Subtotal	19.0 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 ENG U307 Adv Writing in the Sciences	4.0 SH
Yr 3 FL	C CHM U621 Chemical Biology for Chemists	3.0 SH
	Coreq(s): C CHM U622	
Yr 3 FL	C CHM U622 Lab for CHM U621	1.0 SH
	Coreq(s): C CHM U621	
Yr 3 FL	C CHM U401 Physical Chemistry 1	4.0 SH
	Coreq(s): C CHM U402	
Yr 3 FL	C CHM U402 Lab for CHM U401	1.0 SH
	Coreq(s): C CHM U401	
Yr 3 FL	NU Core Course or Elective	4.0 SH
	Semester Subtotal	17.0 SH
Yr 3 SP	C CHM U403 Physical Chemistry 2	4.0 SH
	Coreq(s): C CHM U404	
Yr 3 SP	C CHM U404 Lab for CHM U403	1.0 SH
	Coreq(s): C CHM U403	
Yr 3 SP	C CHM U646 Synth & Reactvty of Inorg Cmpnds	3.0 SH
Yr 3 SP	C CHM U628 Spectroscopy of Organ Compnds	3.0 SH
Yr 3 SP	C CHM U629 ID of Org Compounds	2.0 SH
Yr 3 SP	NU Core Course or Elective	4.0 SH
	Semester Subtotal	17.0 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 CHM U750 Senior Research	4.0 SH
	Coreq(s): C CHM U770	
Yr 4 FL	NU Core Course or Elective	4.0 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	16.0 SH
Yr 4 SP	C CHM U521 Instrumental Methods of Anlys	1.0 SH
Yr 4 SP	C CHM U522 Instrumental Mthds of Anly Lab	4.0 SH
Yr 4 SP	C CHM U531 Chem Synth Characterization	1.0 SH
Yr 4 SP	C CHM U532 Chem Synth Charaterizatrtn Lab	4.0 SH
Yr 4 SP	C CHM U901 Undergraduate Research	4.0 SH
Yr 4 SP	NU Core Course or Elective	4.0 SH
	Semester Subtotal	18.0 SH
Yr 4 S1	VACATION	0.0 SH
	Semester Subtotal	0.0 SH
Yr 4 S2	VACATION	0.0 SH
	Semester Subtotal	0.0 SH

MDS 558 BSMS Chemistry Div A

Yr 1 FL	C CHM U217 Gen Chem 1 for Chem Sci Majors	4.0 SH
	Coreq(s): C CHM U218 C CHM U219	
Yr 1 FL	C CHM U218 Lab for CHM U217	2.0 SH
	Coreq(s): C CHM U217 C CHM U219	
Yr 1 FL	C CHM U219 Recitation for CHM U217	0.0 SH
	Coreq(s): C CHM U217 C CHM U218	
Yr 1 FL	C MTH U151 Calculus & Diff Eq—Biology 1	4.0 SH
Yr 1 FL	C ENG U111 College Writing	4.0 SH
Yr 1 FL	C CHM U100 Chemistry/Chemical Bio at NU	1.0 SH
Yr 1 FL	NU Core course or Elective	4.0 SH
	Semester Subtotal	19.0 SH
Yr 1 SP	C CHM U220 Gen Chem 2 for Chem Sci Majors	4.0 SH
	Coreq(s): C CHM U221 C CHM U222	
Yr 1 SP	C CHM U221 Lab for CHM U220	2.0 SH
	Coreq(s): C CHM U220 C CHM U222	
Yr 1 SP	C CHM U222 Recitation for CHM U220	0.0 SH
	Coreq(s): C CHM U220 C CHM U221	
Yr 1 SP	C MTH U152 Calculus & Diff Eq—Biology 2	4.0 SH
Yr 1 SP	C PHY U145 Physics for Life Sciences 1	4.0 SH
	Coreq(s): C PHY U146	
Yr 1 SP	C PHY U146 Lab for PHY U145	1.0 SH
	Coreq(s): C PHY U145	
Yr 1 SP	NU Core course or Elective	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 CHM U315 Org Chm 1: Chem Majors	4.0 SH
	Coreq(s): C CHM U316	
Yr 2 FL	C CHM U316 Lab for CHM U315	2.0 SH
	Coreq(s): C CHM U315	
Yr 2 FL	C PHY U147 Physics for Life Sciences 2	4.0 SH
	Coreq(s): C PHY U148	
Yr 2 FL	C PHY U148 Lab for PHY U147	1.0 SH
	Coreq(s): C PHY U147	
Yr 2 FL	NU Core Course or Elective	4.0 SH
Yr 2 FL	NU Core course or Elective	4.0 SH
	Semester Subtotal	19.0 SH
Yr 2 SP	C CHM U317 Org Chm 2: Chem Maj	4.0 SH
	Coreq(s): C CHM U318	
Yr 2 SP	C CHM U318 Lab for CHM U317	2.0 SH
	Coreq(s): C CHM U317	
Yr 2 SP	C CHM U331 Bioanalytical Chemistry	4.0 SH
	Coreq(s): C CHM U332	
Yr 2 SP	C CHM U332 Lab for CHM U331	1.0 SH
	Coreq(s): C CHM U331	
Yr 2 SP	M COP U101 Professional Development Co-op	1.0 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	20.0 SH
Yr 2 S1	VACATION	0.0 SH
	Semester Subtotal	0.0 SH
Yr 2 S2	CO-OP	0.0 SH
	Semester Subtotal	0.0 SH
Yr 3 FL	CO-OP	0.0 SH
	Semester Subtotal	0.0 SH

Yr 3 SP	C CHM U401 Physical Chemistry 1	4.0 SH
	Coreq(s): C CHM U402	
Yr 3 SP	C CHM U402 Lab for CHM U401	1.0 SH
	Coreq(s): C CHM U401	
Yr 3 SP	C ENG U307 Adv Writing in the Sciences	4.0 SH
Yr 3 SP	C CHM U621 Chemical Biology for Chemists	3.0 SH
	Coreq(s): C CHM U622	
Yr 3 SP	C CHM U622 Lab for CHM U621	1.0 SH
	Coreq(s): C CHM U621	
Yr 3 SP	NU Core Course or Elective	4.0 SH
	Semester Subtotal	17.0 SH
Yr 3 S1	C CHM U521 Instrumental Methods of Anlyls	1.0 SH
Yr 3 S1	C CHM U522 Instrumental Mthds of Anly Lab	4.0 SH
Yr 3 S1	NU Core Course or Elective	4.0 SH
	Semester Subtotal	9.0 SH
Yr 3 S2	CO-OP	0.0 SH
	Semester Subtotal	0.0 SH
Yr 4 FL	CO-OP	0.0 SH
Yr 4 FL	CHM Graduate Elective	3.0 SH
	Semester Subtotal	3.0 SH
Yr 4 SP	C CHM U403 Physical Chemistry 2	4.0 SH
	Coreq(s): C CHM U404	
Yr 4 SP	C CHM U404 Lab for CHM U403	1.0 SH
	Coreq(s): C CHM U403	
Yr 4 SP	C CHM G268 Spectroscopy of Organ Compnds	3.0 SH
Yr 4 SP	C CHM G504 Graduate Seminar	1.0 SH
Yr 4 SP	C CHM G246 Synth & Reactvty of Inorg Cmpnds	3.0 SH
Yr 4 SP	NU Core Course or Elective	4.0 SH
	Semester Subtotal	16.0 SH
Yr 4 S1	C CHM U531 Chem Synth Characterization	1.0 SH
Yr 4 S1	C CHM U532 Chem Synth Charaterizatn Lab	4.0 SH
Yr 4 S1	C CHM U750 Senior Research	4.0 SH
	Coreq(s): C CHM U770	
	Semester Subtotal	9.0 SH
Yr 4 S2	THESIS RESEARCH	0.0 SH
	Semester Subtotal	0.0 SH
Yr 5 FL	C CHM G666 Master's Research	6.0 SH
Yr 5 FL	C CHM G504 Graduate Seminar	1.0 SH
Yr 5 FL	NU Core Course or Elective	4.0 SH
Yr 5 FL	CHM Graduate Elective	3.0 SH
Yr 5 FL	CHM Graduate Elective	3.0 SH
	Semester Subtotal	17.0 SH
Yr 5 SP	C CHM G661 Master's Research	1.0 SH
Yr 5 SP	C CHM G504 Graduate Seminar	1.0 SH
Yr 5 SP	CHM Graduate Elective	3.0 SH
Yr 5 SP	CHM Graduate Elective	3.0 SH
	Semester Subtotal	8.0 SH
Yr 5 S1	C CHM G663 Master's Research	3.0 SH
	Semester Subtotal	3.0 SH

MDS 558 BSMS Chemistry Div B

Yr 1 FL	C CHM U217 Gen Chem 1 for Chem Sci Majors	4.0 SH
	Coreq(s): C CHM U218 C CHM U219	
Yr 1 FL	C CHM U218 Lab for CHM U217	2.0 SH
	Coreq(s): C CHM U217 C CHM U219	
Yr 1 FL	C CHM U219 Recitation for CHM U217	0.0 SH
	Coreq(s): C CHM U217 C CHM U218	
Yr 1 FL	C MTH U151 Calculus & Diff Eq—Biology 1	4.0 SH
Yr 1 FL	C ENG U111 College Writing	4.0 SH
Yr 1 FL	C CHM U100 Chemistry/Chemical Bio at NU	1.0 SH
Yr 1 FL	NU Core course or Elective	4.0 SH
	Semester Subtotal	19.0 SH
Yr 1 SP	C CHM U220 Gen Chem 2 for Chem Sci Majors	4.0 SH
	Coreq(s): C CHM U221 C CHM U222	
Yr 1 SP	C CHM U221 Lab for CHM U220	2.0 SH
	Coreq(s): C CHM U220 C CHM U222	
Yr 1 SP	C MTH U152 Calculus & Diff Eq—Biology 2	4.0 SH
Yr 1 SP	C PHY U145 Physics for Life Sciences 1	4.0 SH
	Coreq(s): C PHY U146	
Yr 1 SP	C PHY U146 Lab for PHY U145	1.0 SH
	Coreq(s): C PHY U145	
Yr 1 SP	NU Core course or Elective	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 CHM U315 Org Chm 1: Chem Majors	4.0 SH
	Coreq(s): C CHM U316	
Yr 2 FL	C CHM U316 Lab for CHM U315	2.0 SH
	Coreq(s): C CHM U315	
Yr 2 FL	C PHY U147 Physics for Life Sciences 2	4.0 SH
	Coreq(s): C PHY U148	
Yr 2 FL	C PHY U148 Lab for PHY U147	1.0 SH
	Coreq(s): C PHY U147	
Yr 2 FL	M COP U101 Professional Development Co-op	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	20.0 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	NU Core Course or Elective	4.0 SH
Yr 2 S2	NU Core Course or Elective	4.0 SH
	Semester Subtotal	8.0 SH
Yr 3 FL	C CHM U317 Org Chm 2: Chem Maj	4.0 SH
	Coreq(s): C CHM U318	
Yr 3 FL	C CHM U318 Lab for CHM U317	2.0 SH
	Coreq(s): C CHM U317	
Yr 3 FL	C CHM U331 Bioanalytical Chemistry	4.0 SH
	Coreq(s): C CHM U332	
Yr 3 FL	C CHM U332 Lab for CHM U331	1.0 SH
	Coreq(s): C CHM U331	
Yr 3 FL	NU Core course or Elective	4.0 SH
Yr 3 FL	NU Core Course or Elective	4.0 SH
	Semester Subtotal	19.0 SH

Yr 3 SP	CO-OP	0.0 SH
	Semester Subtotal	0.0 SH
Yr 3 S1	CO-OP	0.0 SH
	Semester Subtotal	0.0 SH
Yr 3 S2	C CHM U521 Instrumental Methods of Anlys	1.0 SH
Yr 3 S2	C CHM U522 Instrumental Mthds of Anly Lab	4.0 SH
Yr 3 S2	C CHM U531 Chem Synth Characterization	1.0 SH
Yr 3 S2	C CHM U532 Chem Synth Charaterizatn Lab	4.0 SH
	Semester Subtotal	10.0 SH
Yr 4 FL	C CHM U401 Physical Chemistry 1	4.0 SH
	Coreq(s): C CHM U402	
Yr 4 FL	C CHM U402 Lab for CHM U401	1.0 SH
	Coreq(s): C CHM U401	
Yr 4 FL	C ENG U307 Adv Writing in the Sciences	4.0 SH
Yr 4 FL	C CHM U621 Chemical Biology for Chemists	3.0 SH
	Coreq(s): C CHM U622	
Yr 4 FL	C CHM U622 Lab for CHM U621	1.0 SH
	Coreq(s): C CHM U621	
Yr 4 FL	NU Core Course or Elective	4.0 SH
	Semester Subtotal	17.0 SH
Yr 4 SP	C CHM U403 Physical Chemistry 2	4.0 SH
	Coreq(s): C CHM U404	
Yr 4 SP	C CHM U404 Lab for CHM U403	1.0 SH
	Coreq(s): C CHM U403	
Yr 4 SP	C CHM G246 Synth & Reacvty of Inorg Cmpnds	3.0 SH
Yr 4 SP	C CHM G504 Graduate Seminar	1.0 SH
Yr 4 SP	NU Core Course or Elective	4.0 SH
Yr 4 SP	C CHM G268 Spectroscopy of Organ Compnds	3.0 SH
	Semester Subtotal	16.0 SH
Yr 4 S1	THESIS RESEARCH	0.0 SH
	Semester Subtotal	0.0 SH
Yr 4 S2	THESIS RESEARCH	0.0 SH
	Semester Subtotal	0.0 SH
Yr 5 FL	C CHM G666 Master's Research	6.0 SH
Yr 5 FL	C CHM U750 Senior Research	4.0 SH
	Coreq(s): C CHM U770	
Yr 5 FL	C CHM G504 Graduate Seminar	1.0 SH
Yr 5 FL	CHM Graduate Elective	3.0 SH
Yr 5 FL	CHM Graduate Elective	3.0 SH
	Semester Subtotal	17.0 SH
Yr 5 SP	C CHM G504 Graduate Seminar	1.0 SH
Yr 5 SP	CHM Graduate Elective	3.0 SH
Yr 5 SP	CHM Graduate Elective	3.0 SH
Yr 5 SP	CHM Graduate Elective	3.0 SH
	Semester Subtotal	10.0 SH
Yr 5 S1	C CHM G664 Master's Research	4.0 SH
	Semester Subtotal	4.0 SH