Name	ID#	Date

Planning Sheet: BACHELOR OF ARTS in BIOLOGY – LIFE SCIENCES

(This major is for students also seeking secondary teaching licensure in biology, and consists of 15-16 courses)

Biology Major Requirements

Term	Grade	Course #	AugCore	Title
____	____	BIO 151	NSM-L	Introductory Biology (Prereq: MPG 3 and concurrent registration in CHM 105 or 115)
____	____	BIO 152	NSM-L	Ecology, Evolution, and Diversity (Prereq: BIO 151 & MPG 3)
____	____	BIO 253		Introductory Cellular Biology (Prereq: BIO 151, 152, and CHM 106 or 116)

Select and complete 1 of the following 2 courses

____	____	BIO 361		❒ Plant Biology (Prereq: BIO 151, BIO 152, & ENL 111 or 112 or HON 111)
		BIO 481		❒ Ecology (Prereq: BIO 253, MAT 114 or 145 or 163 or 164 or PSY 215)

Biology Electives: Select and complete four (4) upper division Biology electives.

____	____	BIO ____	____	Biology Elective: ____
____	____	BIO ____	____	Biology Elective: ____
____	____	BIO ____	____	Biology Elective: ____
____	____	BIO ____	____	Biology Elective: ____

Non-Departmental Supporting Requirements:

Chemistry: Complete one (1) of the following introductory series of Chemistry courses (CHM 105 & 106 or CHM 115 & 116).

____	____	CHM 115	NSM-L	General Chemistry I (Prereq: HS Chemistry & MPG 4)
____	____	CHM 116	NSM-L	General Chemistry II (Prereq: MPG 4 and CHM 115)
OR				
____	____	CHM 105	NSM-L	Principles of Chemistry I (Prereq: MPG 3)
____	____	CHM 106	NSM –L	Principles of Chemistry II (Prereq: MPG 3 & CHM 105)

Physics:

____	____	PHY 116	NSM-L	Introduction to Physics (Prereq: MPG 3)
OR				
____	____	PHY 121	NSM-L	General Physics I (Prereq: MAT 145 or concurrent registration)
____	____	PHY 122	NSM-L	General Physics II (Prereq: PHY 121, & MAT 146 or concurrent registration, and ENL 111 or ENL 112 or HON 111)

Mathematics: Select and complete one (1) of the following courses:

____	____	MAT 114	NSM	❒ Precalculus (Prereq: MPG 3)
		MAT 145	NSM	❒ Calculus I (Prereq: MPG 4)
		MAT 163	NSM	❒ Introductory Statistics (Prereq: MPG 3)
		MAT 164	NSM	❒ Introductory Biostatistics (Prereq: MPG 4)
		PSY 215		❒ Research Methods and Statistics I (Prereq: MPG 3)

Additional Science Electives: Select and complete two (2) additional science courses from the following list:

____	____	PHY 101	NSM	❒ Astronomy (Prereq: MPG 2)
____	____	SCI 106	NSM-L	❒ Meteorology (Prereq: Waived from or passed GST 100 and MPG 2)
____	____	____		❒ Introduction to Geology (completed in transfer or through ACTC)

Notes:

- A GPA of 2.0 for BIO 151, 152, and 253 is a prerequisite for enrollment in upper division biology courses. A grade of 2.0 or above is required for all upper division biology courses and supporting courses in chemistry, mathematics, and physics applied to the major. Upper division biology courses must be graded traditionally.
- Life Science majors must qualify for teacher candidacy with a GPA in the major no less than 2.5.
- A student who had completed BIO 151, 152, 253, and at least two upper division electives may, in consultation with their advisor, seek approval from the department to completed major requirements with as many as 4 upper division courses from other institutions.
- **Keystone:** EDC 490 is the required Education licensure Keystone requirement.
- **Abbreviation Key:** ML = Modern Language; SC = Signature Curriculum; EM = Engaging Minneapolis; AE = Augsburg Experience; KC = Senior Keystone Course; NSM = Natural Science & Mathematics - no lab; NSM-L = Natural Science & Mathematics-with lab; SBS = Social & Behavioral Science; FA = Fine Arts; HUM = Humanities

See back for information on graduation skills requirements

Planning Sheet: GRADUATION SKILLS REQUIREMENTS

These requirements were implemented for Fall 2008. Please talk with your faculty advisor for information.

Graduation skills, including the Quantitative Reasoning requirements, are completed as follows. Graduation skills in Critical Thinking, Writing, Speaking, and Quantitative Reasoning are required for graduation. Critical Thinking is embedded in all majors. Plans for completion of other graduation skills are determined by the major department. Consult your department chair or faculty advisor to select appropriate courses to meet the Quantitative Reasoning (QR) graduation skill. QR is satisfied by completing one (1) Quantitative Foundational course (QF) and one (1) Quantitative Application course (QA), or one (1) combined QFA course. The most current information on Graduation Skills can be found in the Augsburg College catalog at www.augsburg.edu/catalog/.

Transfer students must consult an advisor about potential adjustments to their course requirements to fulfill each graduation skill.

Designated Major Course	GRADUATION SKILLS – Biology/Life Science B.A.		Completed
Embedded in major	**Writing Requirements** TWO (2) Writing courses		
Embedded in major			
COM 115*	**Speaking** One (1) Speaking course		
Designated Major Course	**QUANTITATIVE REASONING**		Completed
Embedded in major	**Quantitative Foundations & Applications** One (1) QFA course (Prereq: MPG3)	QFA course	
– OR –			
Embedded in major	**Quantitative Foundations and Quantitative Applications** One (1) QF course (Prereq: MPG 3) **and** one (1) QA course	QF course	
Embedded in major		QA course	

* COM 111 also accepted to fulfill the Speaking Graduation Skill

Graduation Tally Checklist

These requirements were implemented in April 2003 and remain in effect until further notice.

Requirement	Progress Towards Completion	
Cumulative Course Credits ▪ Minimum number of course credits needed for graduation = **32** ▪ At least 8 credits completed at Augsburg. ▪ 6 of last 8 credits completed in residence. ▪ Second degree – minimum of 8 credits completed in residence.	Transfer Credits Earned	
	+ Aug. Credits Earned	
	= Total Credits Earned	
	# Credits Needed	

Grade Point Average (GPA) ▪ Minimum 2.0 GPA required in major, minor, & overall. ▪ Some majors require higher GPA. ▪ Latin Honors GPA requirements: o Summa cum laude: 3.9-4.0 o Magna cum laude: 3.80-3.89 o Cum laude: 3.60-3.79	Cumulative GPA	
	Major 1 GPA	
	Major 2 GPA	
	Minor GPA	

Other Limits	Minimum/Maximum	Your Total
Overall maximum courses graded Pass/No Pass (P/N) ▪ Grade of 2.0 or above required to Pass and earn credit for course. ▪ Maximum of 2 of 6 credits P/N may be in major.	Maximum of 6	
Major Courses graded Pass/No Pass (P/N)	Maximum of 2	
Latin Honors courses graded Pass/No Pass (P/N)	Maximum of 2	
Latin Honors traditionally graded courses	Minimum of 14	
Internships	Maximum of 4	
Independent/Directed Studies	Maximum of 2	