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## 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)
_____	_____	BIO 152	NSM-L	Ecology, Evolution, and Diversity (Prereq: BIO 151 & MPG 3)
_____	_____	BIO 253		Introductory Cellular Biology (Prereq: CHM 116 and sophomore status)

Select and complete 1 of the following 2 courses

_____	_____	BIO 361	<input type="checkbox"/>	Plant Biology (Prereq: BIO 151, BIO 152, & ENL 111 or 112 or HON 111)
_____	_____	BIO 481	<input type="checkbox"/>	Ecology (Prereq: BIO 253, MAT 114 or 145 or 163 or 248 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:

_____	_____	CHM 115	NSM-L	General Chemistry I (Prereq: MPG 3; high school chemistry recommended)
_____	_____	CHM 116	NSM-L	General Chemistry II (Prereq: CHM 115)

#### Physics:

_____	_____	PHY 116	NSM-L	Introduction to Physics (Prereq: MPG 3)
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#### 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	<input type="checkbox"/>	Precalculus (Prereq: MPG 3)
_____	_____	MAT 145	NSM	<input type="checkbox"/>	Calculus I (Prereq: MPG 4)
_____	_____	MAT 163	NSM	<input type="checkbox"/>	Introductory Statistics (Prereq: MPG 3)
_____	_____	MAT 248	NSM	<input type="checkbox"/>	Introductory Biostatistics (Prereq: MPG 4)
_____	_____	PSY 215		<input type="checkbox"/>	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	<input type="checkbox"/>	Astronomy (Prereq: MPG 2)
_____	_____	SCI 106	NSM-L	<input type="checkbox"/>	Meteorology (Prereq: Waived from or passed GST 100 and MPG 2)
_____	_____	_____	_____	<input type="checkbox"/>	Introduction to Geology (completed in transfer or through ACTC)

#### Notes:

##### ■ Grade and GPA requirements:

- Grade and GPA requirements for courses with a prerequisite of BIO 253: GPA of 2.0 in BIO 151, 152, & 153 and minimum grade of 1.0 in each of these courses.
- Grade and GPA requirements for courses with prerequisite of BIO 151 & 152: GPA of 2.0 in BIO 151 & 152 and minimum grade of 1.0 in each of these courses.
- A grade of 2.0 or above is required for all supporting courses and upper division biology courses applied to the major.
- Upper division biology Life Science majors must qualify for teacher candidacy with a GPA in the major no less than 2.5.
- Upper division biology courses must be traditionally graded when used to satisfy a major requirement.

- A student completing BIO 151, 152, 253, and at least two upper division electives may, in consultation with their advisor, seek approval from the department to complete 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/](http://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	<b>Writing Requirements</b> TWO (2) Writing courses		
Embedded in major			
COM 115*	<b>Speaking</b> One (1) Speaking course		
Designated Major Course	QUANTITATIVE REASONING		Completed
Embedded in major	<b>Quantitative Foundations &amp; Applications</b> One (1) QFA course (Prereq: MPG3)	QFA course	
– OR –			
Embedded in major	<b>Quantitative Foundations and Quantitative Applications</b> One (1) QF course (Prereq: MPG 3) <b>and</b> 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	
<b>Cumulative Course Credits</b> <ul style="list-style-type: none"> <li>▪ Minimum number of course credits needed for graduation = 32</li> <li>▪ At least 8 credits completed at Augsburg.</li> <li>▪ 6 of last 8 credits completed in residence.</li> <li>▪ Second degree – minimum of 8 credits completed in residence.</li> </ul>	Transfer Credits Earned	
	+ Aug. Credits Earned	
	= Total Credits Earned	
	# Credits Needed	
<b>Grade Point Average (GPA)</b> <ul style="list-style-type: none"> <li>▪ Minimum 2.0 GPA required in major, minor, &amp; overall.</li> <li>▪ Some majors require higher GPA.</li> <li>▪ Latin Honors GPA requirements:                             <ul style="list-style-type: none"> <li>○ Summa cum laude: 3.9-4.0</li> <li>○ Magna cum laude: 3.80-3.89</li> <li>○ Cum laude: 3.60-3.79</li> </ul> </li> </ul>	Cumulative GPA	
	Major 1 GPA	
	Major 2 GPA	
	Minor GPA	
Other Limits	Minimum/Maximum	Your Total
<b>Overall maximum courses graded Pass/No Pass (P/N)</b> <ul style="list-style-type: none"> <li>▪ Grade of 2.0 or above required to Pass and earn credit for course.</li> <li>▪ Maximum of 2 of 6 credits P/N may be in major.</li> </ul>	Maximum of 6	
<b>Major Courses graded Pass/No Pass (P/N)</b>	Maximum of 2	
<b>Latin Honors courses graded Pass/No Pass (P/N)</b>	Maximum of 2	
<b>Latin Honors traditionally graded courses</b>	Minimum of 14	
<b>Internships</b>	Maximum of 4	
<b>Independent/Directed Studies</b>	Maximum of 2	