Bachelor of Science/Master of Science in Biology 3+2 MS in Biology Major Advising Worksheets^{\$}

General Studies:

Composition & Oral Communicatio	n Outcome (6-10) credit hours)		
2-3 courses, grade of C or b	etter required			
ENG 101 and ENG 102	/	COM 101		
OR		(required for all stu	dents)	
ENG 103				
Analysis Outcome (3 credit hours; 7-11 credit hours of MATH and BIO/CHEM/PHYS satisfied within major requirements)				

Students must take one course:			
COM 203 (Arg/Debate)		LING 150 (Intro Ling)	
ECON 103 (Microecon)	_	PHIL 210 (Logic)	
FIN 131 (Financial Lit)	_	PSYC 101 (Intro to Psych)	

Cultural Literacy Outcome (18 credit hours)

Students must take courses from ea	ach literacy block as directed:
<u>History (1 Course)</u>	<u>Literature (1 Course)</u>
HIST 103, 104, 210, 211	ENG 202, 204, 205, 214, 215

<u>Arts & Humanities (2 Courses)</u>	Social Sciences (2 Courses)
1 courses from each group	2 courses from different groups
GROUP I:	GROUP I:
ART 140, 341, 343,	GEO 205, 206
MUS 130, 132, 133, 134	
THE 100, 300	GROUP II:
	POLS 101, 201, 202
GROUP II:	
PHIL 201, 205	GROUP III:
REL 250, 335	SOC 150, SWK 201
Any FREN or SPAN	
SPA 252	

General Biology Major:

	0,	
Core	Cours	ses:

BIO 124/125 ^ŧ (Prin Bio/lab)	/(4h)	BIO 221 (Biostats)(3h)
BIO 200 (Botany & lab)	_(4h)	CHEM 110/111 ^ŧ (Chem l)/(4h)
BIO 202/203 (Zoology/lab)	_/_(4h)	CHEM 112/113 (Chem II)_/_(4h)
BIO 207 Funds of Eco/Biodiv	(3h)	PHYS 101/110 (Phys I)/(4h)
OR		PHYS 102/111 (Phys II)/(4h)
BIO 208 Found Mol/Cell Bio	(3h)	MATH 145 ^t (Precal)(4h)

^tCourses fulfill General Studies Analysis Outcome for Quantitative and Scientific blocks.

Ma	jor Specific Courses:			
	BIO 302/303* (Anat l/lab)	_(4h)	BIO 404/405 (Ecology/lab)	_(4h)
	OR		OR	
	BIO 426* (Comp An. Phys/lab)	(4h)	BIO 472* (Cell Bio)	_(3h)
	BIO 325/326 (Micro & lab)	_(4h)	BIO 460/461* (Mol Bio/lab)	_(4h)
	BIO 401* (Genetics/lab)	_(4h)	BIO 480 (Capstone)	_(2h)
Ado	litional Undergraduate Requireme			
	-		CHEM 342/343 (Org II)/_(4h)	
	CHEM 480 (Biochem I; S)	(3h)		
	OR			
	BIO 470 (Biol. Chem; F) _(3h)			
Gra	duate Requirements:			
	BIO 510 Grad Research Skills	(3h,	graded)	
	BIO 525 Grad Seminar	_/_/_	_(3h total; P/F)	
	BIO 5XX Electives	_/_/_	_(7-8h total, graded)	
	BIO 580 Indep. Study	(4h r	nax to hours for graduation; P/F)	
	BIO 598 Thesis + Defense	(9h;	P/F)	

A **minimum of 4 credit hours of upper level biology courses** in the undergraduate curriculum must be **designated for graduate credit** to complete the curriculum in 5 years; courses for which the graduate option is available are denoted with an asterisk (*). Dual-counted courses must be designated before the beginning of the semester in which they are taken.

Students **must take additional 300-400 level General Electives** (8-18h dependent on course choices) to complete the curriculum (136 credit hours with a minimum of 30 graduate credit hours as designated).

- 136 credit hours are required to graduate from West Liberty with the 3+2 BS/MS Biology.
- 30 credit hours, minimum, are biology graduate coursework; a maximum of 9 credit hours may be earned for thesis toward the 30 required graduate credit hours.
- In semester 7, students will register for BIO 510 Graduate Research Skills (3 credit hours) and BIO 525 Graduate Seminar (1 credit hour). BIO 525 Graduate Seminar will be required semesters 7-9 (3 credit hours total) of graduate work except thesis semester.
- Students must complete 14 credit hrs in graded graduate biology courses including BIO 510.
- Students may take up to 9 credit hrs of BIO 580 Independent Study per semester, beginning no earlier than semester 7. Only 4 credit hrs of BIO 580 may be used toward the 30 graduate credits; these credits do NOT count as graded biology grad course credits.
- The 3+2 BS/MS in Biology major requires a cumulative 3.0 gpa with at least a "C" in each course within the program; no more than 6 credit hours of "C" grades may be applied to the total hours for graduation.
- All MS candidates must pass an oral thesis defense upon completion of course requirements and thesis; the MS in Biology will only be awarded to those students who successfully complete all requirements including the oral thesis defense.
- ***These worksheets are a guide**. Each student is responsible for their curriculum and meeting the requirements for graduation as stipulated in the college catalog.

• Courses may not be offered every semester and/or year; please consult with Biology advisor for sequencing.