

## Bachelor of Science in Biology Human Biology Major Advising Worksheets<sup>\$</sup>

### General Studies:

Composition & Oral Communication Outcome (6-10 credit hours)

2-3 courses, grade of C or better required

ENG 101 and ENG 102	—/—	COM 101	—
OR		(required for all students)	
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 each literacy block as directed:

History (1 Course)

HIST 103, 104, 210, 211

Literature (1 Course)

ENG 202, 204, 205, 214, 215

Arts & Humanities (2 Courses)

1 courses from each group

GROUP I:

ART 140, 341, 343,  
MUS 130, 132, 133, 134  
THE 100, 300

Social Sciences (2 Courses)

2 courses from different groups

GROUP I:

GEO 205, 206

GROUP II:

POLS 101, 201, 202

GROUP II:

PHIL 201, 205  
REL 250, 335

Any FREN or SPAN

SPA 252

GROUP III:

SOC 150\*, SWK 201

\*Students must take PSYC 101 and SOC 150 as a General Studies course.

### Human Biology Major:

Core Courses (34 credit hours):

BIO 124/125 <sup>‡</sup> (Prin Bio/lab)	—/—(4h)	PHYS 101/110 (Phys I; F)	—/—(4h)
BIO 202/203 (Zoology/lab)	—/—(4h)	PHYS 102/111 (Phys II; S)	—/—(4h)
BIO 208 (Found Cell & Molec)	—(3h)	MATH 145 <sup>‡</sup> (Precal)	—(4h)
CHEM 110/111 (Chem I; F)	—/—(4h)	BIO 221 (Biostats; F/S)	—(3h)
CHEM 112/113 (Chem II; S)	—/—(4h)		

<sup>‡</sup>Courses fulfill General Studies Analysis Outcome for Quantitative and Scientific blocks.

Major Specific Courses (7 credit hours):

BIO 210 (BiomedTerm)	__(3h)
BIO 206 (Biol Anthro; F)	__(3h)
OR	
BIO 306 (Biotech; F)	__(3h)
BIO 480 (Capstone)	__(2h)

Restricted Electives (43 credit hours): Of the 43 credit hours, 31 must be BIO or CHEM 300-400 level including at least one option from the courses listed as biomedical core. No more than 6 credit hours of BIO 479 Internship/Research will count toward the restricted electives; additional BIO 479 credit hours may fulfill general course electives to reach 120 credit hours.

Biomedical Core Courses (must select at least one from this list as a Restricted Elective):

BIO 317 Immunology	__(3h)	BIO 470 Biological Chemistry	__(3h)
BIO 401 Genetics & lab	__(4h)	BIO 472 Cell Biology	__(3h)
BIO 460/461 Mol. Bio & lab	__(4h)		

Additional Restricted Electives (Biomedical core and restricted electives must total 43 credit hours with 31 as BIO or CHEM prefixes at the 300-400 level):

BIO 302/303 (A&PI/lab)	__(4h)	CHEM 340/341 (Org I; F)	__/_(4h)
BIO 317 (Immunology; S)	__(3h)	CHEM 342/343 (Org II;S)	__/_(4h)
BIO 325/326 (Micro/lab; F)	__(4h)	CHEM 480 (Biochem I; S)	__(3h)
BIO 328/334 (A&PII/lab)	__(4h)	MATH 210 (Calculus I; S)	__(4h)
BIO 330 (Nutrition; S/Su)	__(3h)	PE 395** (Kinesiology)	__(3h)
BIO 338 (Med Botany)	__(3h)	PSYC 322 (Pers. Psych)	__(3h)
BIO 343 (Vert Zoo/lab; F)	__(4h)	PSYC 323 (Devel Psych)	__(3h)
BIO 356 Parasitology & lab	__(4h)	PSYC 341 (Abnormal; S)	__(3h)
BIO 360 (Drugs/Brain)	__(3h)	PSYC 416 (Social Psych)	__(3h)
BIO 401 (Genetics/lab; S)	__(4h)	PSYC 439* (Biol. Psych)	__(3h)
BIO 412 (Neuroscience)	__(3h)	PSYC 451 (Human Sexuality)	__(3h)
BIO 423 (Pathophys)	__(3h)	PSYC 452 (Cultural Psych)	__(3h)
BIO 460/461 (Mol Bio/lab; F)	__(4h)		
BIO 462 Microb Pathogenesis	__(3h)		
BIO 465 Virology	__(3h)		
BIO 470 (Biol Chem; F)	__(3h)		
BIO 472 (Cell Bio; S)	__(3h)		
BIO 479 (Intern/Research)	__(1-6h)		

General courses to reach 120 as needed (~5-9 credit hours).

- 120 credit hours are required to graduate from West Liberty with a B.S.; 40 of those hours must be 300-400 level courses.
- The Human Biology major requires a cumulative 2.75 gpa in all math, psychology, and science courses with at least a "C" in each course within the program.
- <sup>§</sup>These worksheets are to be used as 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.
  - F = fall term only
  - S = spring term only
  - Su = summer term
- Professional programs have different prerequisites for admission. While the advisor is present to help each student select the appropriate courses, **the student bears the responsibility to explore each professional program and determine the courses required for admission.**

\*PSYC 437 and 439 will need override forms due to sequencing in BS Psychology program.

\*\*PE 395 Kinesiology requires students to have successfully passed (C or better) BIO 302/303 Human A&P I and lab. Course requires override as pre-requisites are BIO 212 or PE 240; override will not be signed unless A&PI completed or in progress.

This major was designed for students interested in pre-occupational therapy and public health/industrial hygiene. The major may be used by students interested in medical, physician assistant, optometry, physical therapy, dental, pharmacy, or other pre-professional options BUT the student must determine the appropriate electives to meet the requirements of these other programs.