



College of Letters & Science

Course Recommendations for Bachelor of Science, **BIOLOGY** majors

Who can Use this Guide:

- Students who took their first college class in September 2013 or later

If you took any college class before 09/2013, consult a UWM admissions counselor at let-sci@uwm.edu.

Introduction

Many students start at College of Lake County and continue their education at UWM. This guide outlines recommended course selections for College of Lake County students who intend to earn a Bachelor of Science (BS) at UWM with a Biology major.

Note: This guide does not replace the advice of an advisor who can provide personalized guidance based on your particular circumstances and background.

UWM Admissions Requirements

College of Lake County students seeking admission to a major that leads to a bachelor's degree in the College of Letters & Science will present the strongest application packet by meeting the following criteria:

- evidence of high school graduation (diploma or GED)
- a minimum cumulative GPA of 2.0 in all college classes
- completion of at least 12 credits of transferable college coursework

Students with a college cumulative GPA below a 2.0 who have not been enrolled in classes for at least 2 years, or who have extenuating circumstances, will also be considered for admission if additional information is presented that indicates potential for success.

Last Updated: June 2023

Goal

While at College of Lake County, students can complete the following UWM requirements on a pathway towards a UWM BS in Biology:

- ✓ Arts Requirement (3 required credits can be completed at College of Lake County)
- ✓ English Requirement (Part A and Part B can be completed at College of Lake County)
- ✓ Math Requirement (Part A and Part B can be completed at College of Lake County)
- ✓ Formal Reasoning (can be completed at College of Lake County)
- ✓ Natural Science Requirement (all 12 required credits with three different labs can be completed at College of Lake County)
- ✓ Humanities Requirement (all 12 required credits can be completed at College of Lake County)
- ✓ Social Science Requirement (all 12 required credits can be completed at College of Lake County)
- ✓ Cultural Diversity Requirement (3 required credits can be completed at College of Lake County)
- ✓ International Requirement (9 required credits can be completed at College of Lake County with careful course selection)
- ✓ World Language Requirement (2 years of high school or 2 semesters of college)
- ✓ Biology major requirements (23 to 34 of the 60+ required credits can be completed at College of Lake County depending on the Biology major track)

Course Recommendations and Transferability:

Arts (choose one)

College of Lake County			UWM will accept it as			Meets UWM BS Requirement
Course	Title	Cr.	Course	Title	Cr.	
ART 121	Introduction to Art	3	ART 106	Art Survey	3	✓ Arts
DNC 121	Introduction to Ballet I	3	DANCE 111	Ballet I	3	✓ Arts
DNC 122	Modern Dance Technique I	3	DANCE 113	Modern Dance Technique I	3	✓ Arts
DNC 240	The Art of Dance	3	DANCE 110	Survey of Global Dance	3	✓ Arts
DNC 280	Dance and Popular Culture	3	DANCE	Dance elective	3	✓ Arts
ENG 222	Creative Writing	3	ENGLISH 233	Intro to Creative Writing	3	✓ Arts
HUM 126	Intro to the Performing Arts	3	FINEART	Fine Arts elective	3	✓ Arts
MUS 124	Music Appreciation	3	MUSIC 100	Intro to Classical Music	3	✓ Arts
MUS 127	Fundamentals of Music	3	MUSIC 101	Fundamentals of Music	3	✓ Arts
THE 121	Introduction to Theatre I	3	THEATRE 100	Introduction to the Theatre	3	✓ Arts
THE 123	Diversity in American Theatre	3	THEATRE	Theatre elective	3	✓ Arts and Cultural Diversity
THE 125	Principles of Acting	3	THEATRE 101	Acting for Non-Majors	3	✓ Arts
THE 145	Voice for the Stage	3	THEATRE 231	Voice and Speech	3	✓ Arts
THE 223	Play Analysis for Production	3	THEATRE 213	Play Analysis	3	✓ Arts

English (Complete ENG 121, ENG 122 and choose one for Part B)

College of Lake County			UWM will accept it as:			Meets UWM BS Requirement
Course	Title	Cr.	Course	Title	Cr.	
ENG 121	English Composition I	3	ENGLISH 101	Intro to College Writing	3	
ENG 122	English Composition II	3 (must earn a C or higher)	ENGLISH 102	College Writing and Research	3	✓ English Part A
Choose One of the Options Below for Part B						
ENG 126	Scientific Technical Communication	3	ENGLISH 206	Technical Writing	3	✓ English Part B
ENG 140	Writing for New Media	3	JAMS 201	Media Writing	3	✓ English Part B

Math (complete all)

College of Lake County			UWM will accept it as:			Meets UWM BS Requirement
Course	Title	Cr.	Course	Title	Cr.	
MTH 122	College Algebra	3 (must earn a C or higher)	MATH 116	College Algebra	3	✓ Math Part A
MTH 145	Calculus Analytical Geometry I	5	MATH 231	Calculus & Analytical Geometry I	5	✓ Math Part B, NS
MTH 142	General Education Statistics	4	MTH STAT 215	Elementary Statistical Analysis	4	✓ Formal Reasoning, NS

World Language

The Bachelor of Science with a Biology major requires world language through the 2nd level. If you took two years of the same language in high school, you have satisfied the requirement and no further coursework is needed. If you did not take two years of a world language in high school, take two semesters of a single language.

College of Lake County			UWM will accept it as:			Meets UWM BS Requirement
Course	Title	Cr.	Course	Title	Cr.	
CHI 121	Beginning Chinese I	4	CHINESE 101	First Semester Chinese	4	✓ World Language
CHI 122	Beginning Chinese II	4	CHINESE 102	Second Semester Chinese	4	✓ World Language
FRN 121	Begin Conversational French I	4	FRENCH 103	First Semester French	4	✓ World Language
FRN 122	Begin Conversational French II	4	FRENCH 104	Second Semester French	4	✓ World Language
ITL 121	Beginning Italian	4	ITALIAN 103	First Semester Italian	4	✓ World Language
ITL 122	Beginning Italian II	4	ITALIAN 104	Second Semester Italian	4	✓ World Language
JPN 121	Beginning Japanese I	4	JAPAN 101	First Semester Japanese	4	✓ World Language
JPN 122	Beginning Japanese II	4	JAPAN 102	Second Semester Japanese	4	✓ World Language
SPA 121	Begin Conversational Spanish I	4	SPANISH 103	First Semester Spanish	4	✓ World Language
SPA 122	Begin Conversational Spanish II	4	SPANISH 104	Second Semester Spanish	4	✓ World Language

Humanities/Cultural Diversity/International (Choose four but no more than two from the same subject area.)

College of Lake County			UWM will accept it as:			Meets UWM BS Requirement
Course	Title	Cr.	Course	Title	Cr.	
ART 240	History of Art I	3	ARTHIST 101	Ancient & Medieval Art and Architecture	3	✓ Humanities and International
ART 241	History of Art II	3	ARTHIST 102	Renaissance to Modern Art and Architecture	3	✓ Humanities and International
ART 260	History of Photography	3	ARTHIST 365	History of Photography	3	✓ Humanities
ASI 121	Intro to Asian American Studies	3		Letters and Science Humanities elective	3	✓ Humanities and Cultural Diversity
CMM 121	Fundamentals of Speech	3	COMMUN 103	Public Speaking	3	✓ Humanities
CMM 124	Oral Interpretation	3	COMMUN	Communication elective	3	✓ Humanities
CRJ 223	Ethics in Criminal Justice	3	PHILOS	Philosophy elective	3	✓ Humanities
ENG 128	Linguistics and Society	3	LINGUIS 100	Diversity of Human Language	3	✓ Humanities and Cultural Diversity
ENG 129	Women in Literature	3	ENGLISH 243	Intro to Literature by Women	3	✓ Humanities
ENG 228	World Literature	3	COMPLIT	Comparative Literature elective	3	✓ Humanities
ENG 229	20 th Century American Literature	3	ENGLISH 224	American Writers 1900 to Present	3	✓ Humanities
ENG 241	Introduction to Poetry	3	ENGLISH 260	Introduction to Poetry	3	✓ Humanities
ENG 243	Introduction to Fiction	3	ENGLISH	English elective	3	✓ Humanities
ENG 244	Mythology and Fairy Tales	3	CLASSIC 170	Classical Mythology	3	✓ Humanities and International
ENG 246	Latin American Writers	3	ENGLISH 279	Intro to US Latino/a Literature	3	✓ Humanities and Cultural Diversity
FRN 223	French Civilization I	3	FRENCH 349	Studies in French Culture	3	✓ Humanities

GXS 122	Intro to LGBTQIA+ Studies	3	WGS	Women's and Gender Studies elective	3	✓ Humanities
HST 121	History of Western Civ to 1500	3	HIST 101	Western Civ: Ancient World to 1500	3	✓ Humanities and International
HST 122	History of Western Civ from 1500	3	HIST 102	Western Civ: 1500 to Present	3	✓ Humanities and International
HST 126	History/Non-Western World Since 1500	3	HIST	History elective	3	✓ Humanities
HST 141	World History to 1500	3	HIST 131	World History to 1500	3	✓ Humanities and International
HST 142	World History from 1500	3	HIST 132	World History Since 1500	3	✓ Humanities and International
HST 240	Afro-American History I	3	AFRIC 111	Intro to African American History to 1865	3	✓ Humanities and Cultural Diversity
HUM 121	Ancient Times to Middle Ages	3		Letters and Science Humanities elective	3	✓ Humanities
HUM 122	Renaissance to the Present	3		Letters and Science Humanities elective	3	✓ Humanities
HUM 123	Introduction to Film	3	ENGLISH 290	Introduction to Film Studies	3	✓ Humanities
HUM 127	Critical Thinking	3	PHILOS	Philosophy elective	3	✓ Humanities
HUM 129	Introduction to East Asian Civ	3	HIST 176	East Asian Civil Since 1600	3	✓ Humanities and International
HUM 140	Intro to International Film	3	FILMSTD	Film Studies elective	3	✓ Humanities
HUM 141	World Humanities of 20/21 st Century	3		Letters and Science Humanities elective	3	✓ Humanities
HUM 221	American Decades	3		Letters and Science Humanities elective	3	✓ Humanities and International
HUM 222	Film and Society	3	FILMSTD	Film Studies elective	3	✓ Humanities
HUM 226	Women and the Arts	3	WGS	Women's Studies elective	3	✓ Humanities
LAT 121	Introduction to Latin American Studies	3	LACS 101	Intro to Latin American and Caribbean Studies	3	✓ Humanities and International
PHI 121	Introduction to Philosophy	3	PHILOS 101	Introduction to Philosophy	3	✓ Humanities
PHI 122	Logic	3	PHILOS 211	Elementary Logic	3	✓ Humanities
PHI 123	Philosophy of Religion	3	PHILOS 250	God, Faith and Reason	3	✓ Humanities
PHI 125	Introduction to Ethics	3	PHILOS 241	Introductory Ethics	3	✓ Humanities
PHI 126	World Religions	3	PHILOS	Philosophy elective	3	✓ Humanities
PHI 128	Introduction to Social Political Philosophy	3	PHILOS 242	Introduction to Social, Political Philosophy	3	✓ Humanities
PHI 221	Asian Philosophy	3	PHILOS	Philosophy elective	3	✓ Humanities

Social Sciences/Cultural Diversity/International (Choose four but no more than two from the same subject area)

College of Lake County			UWM will accept it as:			Meets UWM BS Requirement
Course	Title	Cr.	Course	Title	Cr.	
ANT 121	Introduction to Anthropology	3	ANTHRO	Anthropology elective	3	✓ Social Science
ANT 221	Cultural Anthropology	3	ANTHRO 102	Intro to Anthropology Culture and Society	3	✓ Social Science
ANT 222	Intro to Physical Anthropology	3	ANTHRO 101	Intro to Anthropology Human Origins	3	✓ Social Science
ANT 224	Intro to Archeology	3	ANTHRO 103	Approaches to Archeology	3	✓ Social Science
CMM 111	Communication Skills	3	COMMUN 101	Intro to Interpersonal Communication	3	✓ Social Science
CMM 122	Business and Professional Speaking	3	COMMUN 105	Business and Professional Communication	3	✓ Social Science
CMM 127	Intercultural Communication	3	COMMUN 350	Intercultural Communication	3	✓ Social Science and Cultural Diversity

CRJ 123	Intro to Criminology	3	SOCIOL 241	Criminology	3	✓ Social Science
CRJ 229	Juvenile Delinquency	3	SOCIOL 246	Juvenile Delinquency	3	✓ Social Science
ECO 221	Principles of Macroeconomics	3	ECON 104	Principles of Macroeconomics	3	✓ Social Science
ECO 222	Principles of Microeconomics	3	ECON 103	Principles of Microeconomics	3	✓ Social Science
ENG 123	Mass Communications	3	JAMS 101	Introduction to Mass Media	3	✓ Social Science
GEG 122	Cultural Geography	3	GEOG	Geography elective	3	✓ Social Science
GEG 123	World Regional Geography	3	GEOG 110	The World Peoples and Regions	3	✓ Social Science and International
GXS 121	Introduction to Gender Studies	3	WGS 200	Intro to Women's and Gender Studies	3	✓ Social Science
HST 221	United States History to 1876	3	HIST 151	American History 1607 to 1877	3	✓ Social Science
HST 222	US History 1876 to Present	3	HIST 152	American History 1865 to Present	3	✓ Social Science
HST 245	History of Latin America to 1825	3	HIST	History elective	3	✓ Social Science
HST 246	History of Latin America from 1825	3	HIST 180	Latin American Society and Culture	3	✓ Social Science and International
PSC 120	Introduction to Political Science	3	POL SCI 103	Intro to Political Science	3	✓ Social Science and International
PSC 121	American National Politics	3	POL SCI 104	Intro to American Government and Politics	3	✓ Social Science
PSC 122	State and Local Politics	3	POL SCI 105	State Politics	3	✓ Social Science
PSC 123	Comparative Political Systems	3	POL SCI 106	Politics of World's Nations	3	✓ Social Science and International
PSC 124	International Relations	3	POL SCI 175	Intro to International Relations	3	✓ Social Science and International
PSY 121	Introduction to Psychology	3	PSYCH 101	Introduction to Psychology	3	✓ Social Science
PSY 220	Lifespan Development	3	PSYCH 260	Child Psychology	3	✓ Social Science
OR						
PSY 222	Child Growth and Development					
PSY 223	Abnormal Psychology	3	PSYCH	Psychology elective	3	✓ Social Science
PSY 224	Theories of Personality	3	PSYCH 205	Personality	3	✓ Social Science
PSY 225	Social Psychology	3	PSYCH 230	Social Psychology: Psych Perspectives	3	✓ Social Science
PSY 226	Adolescent Development	3	PSYCH	Psychology elective	3	✓ Social Science
PSY 228	Human Sexuality	3	PSYCH	Psychology elective	3	✓ Social Science
SOC 121	Introduction to Sociology	3	SOCIOL 101	Introduction to Sociology	3	✓ Social Science
SOC 222	Social Problems	3	SOCIOL 102	Solving Social Problems	3	✓ Social Science
SOC 224	Sociology of the Family	3	SOCIOL 260	Families and Intimate Relationships	3	✓ Social Science
SOC 225	Class, Race and Gender	3	SOCIOL 233	Social Inequality in the US	3	✓ Social Science
SOC 229	Sex, Gender and Power	3	SOCIOL 250	Sex and Gender	3	✓ Social Science

Natural Science and Biology Major

*Track Options for Biology Major – General Biology, Cell and Molecular Biology or Ecology and Evolutionary Biology

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Course	Title	Cr.	Course	Title	Cr.	
All Biology majors regardless of track – COMPLETE ALL						
BIO 161	General Biology I	4	BIO SCI 150	Foundations to Biological Sciences I	4	✓ Natural Science + Lab and Major
BIO 162	General Biology II	4	BIO SCI 152	Foundations to Biological Sciences II	4	✓ Natural Science + Lab and Major
CHM 121	General Chemistry I	5	CHEM 102	General Chemistry	5	✓ Natural Science + Lab and Major
CHM 123	General Chemistry II	5	CHEM 104	General Chemistry and Qualitative Analysis	5	✓ Natural Science + Lab and Major
All Biology Majors Must Take Physics Coursework						
Students planning the General Biology or the Cell and Molecular Track must take two semesters of Physics (9 to 10 credits total). Choose OPTION 1 or OPTION 2						
OPTION 1 for general biology or Cell and Molecular (non-calculus treatment)						
PHY 121	General Physics I	5	PHYSICS 120/121	General Physics I + Lab	5	✓ Natural Science + Lab and Major
PHY 122	General Physics II	5	PHYSICS 122/123	General Physics II + Lab	5	✓ Natural Science + Lab and Major
OPTION 2 for general biology or Cell and Molecular (calculus treatment)						
PHY 123	Physics for Science and Engineering I	5	PHYSICS 209/214	Physics I + Lab	5	✓ Natural Science + Lab and Major
PHY 124	Physics for Science and Engineering II	5	PHYSICS 210/215	Physics II + Lab	5	✓ Natural Science + Lab and Major
Students Planning the Ecology and Evolutionary Biology track must take one semester of Physics based coursework. Choose One of these:						
PHY 121	General Physics I	5	PHYSICS 120/121	General Physics I + Lab	5	✓ Natural Science + Lab and Major
PHY 123	Physics for Science and Engineering I	5	PHYSICS 209/214	Physics I + Lab	5	✓ Natural Science + Lab and Major
ESC 121	Physical Geology	4	GEO SCI 100	Introduction to the Earth	4	✓ Natural Science + Lab and Major
Students Planning the General Biology track or the Cell and Molecular track must take Organic Chemistry and this can be completed at CLC.						
CHM 222	Organic Chemistry I	5	CHEM 343/344	Organic Chemistry + Lab	5	✓ Natural Science + Lab and Major
CHM 223	Organic Chemistry II	5	CHEM 344/345	Organic Chemistry + Lab	5	✓ Natural Science + Lab and Major

For questions about transferring to UWM for a Biology major, please contact an admissions counselor in the College of Letters & Science: let-sci@uwm.edu