

## Course Recommendations for Bachelor of Science in **Biological Sciences**

### **Who can Use this Guide:**

- Students who took their first college class in September 2013 or later
- Students who plan to transfer from the Waukesha campus to the Milwaukee campus to complete a bachelor of science (BS) degree in biology
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If you took any college class anywhere before 09/2013, consult a UWM admissions counselor at [let-sci@uwm.edu](mailto:let-sci@uwm.edu).

### **Introduction**

Many students choose to start at UWM-Waukesha and continue their education later at UWM-Milwaukee. This guide outlines recommended course selections at the Waukesha campus for a student who intends to transfer to the Milwaukee campus to complete a bachelor's degree in biology.

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

### **Goal**

While at Waukesha students can complete (but are not required to complete) the following Milwaukee requirements on a pathway towards a BS in biology. Any requirements not met while at Waukesha can be completed at the Milwaukee campus.

- ✓ Arts Requirement (all 3 of the required credits can be completed at Waukesha)
- ✓ Oral and Written Communication/English Requirement (both Part A and Part B can be completed at Waukesha)
- ✓ Quantitative Literacy/Math/Formal Reasoning (both Part A and Part B and formal reasoning can be completed at Waukesha)
- ✓ Natural Science Requirement (all of the 12 required credits with at 3 labs in 3 different sciences can be completed at Waukesha)
- ✓ Humanities Requirement (all of the 12 required credits can be completed at Waukesha)
- ✓ Social Science Requirement (all of the 12 required credits can be completed at Waukesha)
- ✓ Cultural Diversity Requirement (all 3 of the required credits can be completed at Waukesha)
- ✓ International Requirement (all 9 of the required credits can be completed at Waukesha)
- ✓ World Language Requirement:
  - 2 years of a language other than English in high school OR
  - 2 semesters of a language other than English in college
- ✓ Biological Sciences major (29 to 44 of the 60+ required credits can be completed at Waukesha)

## Course Recommendations:

### Arts (choose one)

UWM-Waukesha			UWM-Milwaukee will accept it as			Meets UWM BA Requirement
Course	Title	Cr.	Course	Title	Cr.	
CGS MUS 173	Music Literacy and Appreciation	3	MUSIC 100	Intro to Classical Music	3	✓ Arts
CGS MUS 174	Music Literacy and Appreciation	3	MUSIC 100	Intro to Classical Music	3	✓ Arts
CGS MUS 273	Jazz History and Appreciation	3	MUSIC	Elective	3	✓ Arts/Cultural Diversity
CGS MUS 278	History of Rock and Roll	3	MUSIC	Elective	3	✓ Arts/Cultural Diversity
CGS CTA 130	Intro to Theater	3	THEATRE 100	Intro to Theater	3	✓ Arts
CGS CTA 232	Intro to Acting	3	THEATRE 101	Acting for non-Majors	3	✓ Arts
CGS ENG 203	Creative Writing I	3	ENGLISH 233	Creative Writing	3	✓ Arts

### English (complete all to satisfy Part A of the Oral and Written Communication requirement)

UWM-Waukesha			UWM-Milwaukee will accept it as			Meets UWM BA Requirement
Course	Title	Cr.	Course	Title	Cr.	
CGS ENG 101	College Writing and Critical Reading	3	ENGLISH 101	Intro to College Writing	3	
CGS ENG 102	Critical Writing, Reading and Research (C or better grade)	3	ENGLISH 102	College Writing and Research	3	✓ OWC Part A

### English (choose one to satisfy Part B of the Oral and Written Communication requirement)

UWM-Waukesha			UWM-Milwaukee will accept it as			Meets UWM BA Requirement
Course	Title	Cr.	Course	Title	Cr.	
CGS ENG 210	Business Communication	3	ENGLISH 205	Business Writing	3	✓ OWC Part B
CGS ENG 201	Intermediate Composition	3	ENGLISH 201	Strategies for Academic Writing	3	✓ OWC Part B
CGS ENG 250	Intro to Literary Studies	3	ENGLISH 215	Intro to English Studies	3	✓ OWC Part B/Humanities

### Math (complete all)

UWM-Waukesha			UWM-Milwaukee will accept it as			Meets UWM BA Requirement
Course	Title	Cr.	Course	Title	Cr.	
CGS MAT 115	Precalculus	4	MATH 115	Precalculus	4	✓ QL Part A
CGS MAT 211	Calculus	4	MATH 211	Survey in Calculus and Analytical Geometry I	4	✓ QL Part B, natural science, and major
CGS MAT 215	Elementary Statistical Analysis	3	MTH STAT 215	Elementary Statistical Analysis	3	✓ Formal reasoning

## World Language

The Bachelor of Science with a Biological Sciences major requires world language through the 2<sup>nd</sup> 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 the following classes.

UWM-Waukesha			UWM-Milwaukee will accept it as			Meets UWM BA Requirement
Course	Title	Cr.	Course	Title	Cr.	
CGS SPA 101	First Semester Spanish	4	SPANISH 103	First Semester Spanish	4	World language
CGS SPA 102	Second Semester Spanish	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)

UWM-Waukesha			UWM-Milwaukee will accept it as			Meets UWM BA Requirement
Course	Title	Cr.	Course	Title	Cr.	
CGS CTA 103	Intro to Public Speaking	3	COMMUN 103	Public Speaking	3	✓ Humanities
CGS CTA 150	Intro to Film	3	ENGLISH 290	Intro to Film Studies	3	✓ Humanities
CGS CTA 218	Popular Culture in the Media	3	JAMS	Elective	3	✓ Humanities
CGS ENG 250	Intro to Literary Studies	3	ENGLISH 215	Intro to English Studies	3	✓ Humanities/OWC Part B
CGS ENG 278	Multicultural Literature in America	3	ENGLISH	Elective	3	✓ Humanities/Cultural Diversity
CGS ENG 282	African American Literature	3	ENGLISH 281	Intro to African American Literature	3	✓ Humanities/Cultural Diversity
CGS GSW 102	Women's Voices	3	WGS 201	Intro to Women's & Gender Studies – Humanities Pers.	3	✓ Humanities
CGS GSW 201	Intro to LGBTQ Studies	3	LGBT 200	Intro to Lesbian, Gay, Bisexual, & Transgender Studies	3	✓ Humanities
CGS GSW 203	Gender in Popular Culture	3	WGS	Elective	3	✓ Humanities/Cultural Diversity
CGS HIS 161	World History to 1500	3	HIST 131	World History to 1500	3	✓ Humanities/International
CGS HIS 162	World History Since 1500	3	HIST 132	World History Since 1500	3	✓ Humanities/International
CGS INT 284	Understanding our Environment	3	L&S	Elective	3	✓ Humanities
CGS INT 285	Superheroes and Mythology	3	L&S	Elective	3	✓ Humanities
CGS PHI 101	Intro to Philosophy	3	PHILOS 101	Intro to Philosophy	3	✓ Humanities
CGS PHI 220	Philosophy of Science	3	PHILOS 213	Intro to Philosophy of Science	3	✓ Humanities
CGS PHI 241	Ethics	3	PHILOS 241	Introductory Ethics	3	✓ Humanities
CGS PHI 242	Social and Political Philosophy	3	PHILOS 242	Intro to Social and Political Philosophy	3	✓ Humanities
CGS PHI 243	Business Ethics	3	PHILOS	Elective	3	✓ Humanities
CGS PHI 244	Environmental Ethics	3	PHILOS	Elective	3	✓ Humanities
CGS PHI 248	Biomedical Ethics	3	PHILOS 244	Ethical Issues in Healthcare	3	✓ Humanities
CGS PHI 258	Human Nature, Religion, and Society	3	PHILOS	Elective	3	✓ Humanities
CGS REL 101	Intro to the Study of Religion	3	RELIGST	Elective	3	✓ Humanities
CGS REL 276	Religion and the Environment	3	RELIGST	Elective	3	✓ Humanities

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

UWM-Waukesha			UWM-Milwaukee will accept it as:			Meets UWM BA Requirement
Course	Title	Cr.	Course	Title	Cr.	
CGS AIS 101	Intro to American Indian Studies	3	AIS 101	Intro to American Indian Studies	3	✓ Social Science/Cultural Diversity
CGS AIS 263	North American Indian History Since 1887	3	AIS 263	North American Indian History Since 1887	3	✓ Social Science/Cultural Diversity
CGS ANT 100	Intro to Anthropology	3	ANTHRO	Elective	3	✓ Social Science
CGS ANT 105	Intro to Biological Anthropology	3	ANTHRO 101	Intro to Anthropology Human Origins	3	✓ Social Science
CGS ANT 350	Intro to Medical Anthropology	3	ANTHRO	Elective	3	✓ Social Science
CGS CTA 101	Intro to Interpersonal Communication	3	COMMUN 101	Intro to Interpersonal Communication	3	✓ Social Science
CGS CTA 115	Intro to Business & Professional Communication	3	COMMUN 105	Business & Professional Communication	3	✓ Social Science
CGS CTA 201	Intro to Mass Communication	3	JAMS 101	Intro to Mass Media	3	✓ Social Science
CGS CTA 210	Intro to Intercultural Communication	3	COMMUN 350	Intercultural Communication	3	✓ Social Science/Cultural Diversity
CGS GEO 110	World Regional Geography	3	GEOG 110	The World: Peoples and Regions	3	✓ Social Science/International
CGS GSW 101	Intro to Gender, Sexuality, and Women's Studies	3	WGS 200	Intro to Women's and Gender Studies – Social Science Perspective	3	✓ Social Science
CGS GSW 231	Sex, Power, and Public Policy	3	WGS	Elective	3	✓ Social Science
CGS HIS 101	History of the US from the Columbian Exchange to the Civil War	3	HIST 151	American History 1607 to 1877	3	✓ Social Science
CGS HIS 102	History of the US from the Civil War to Present	3	HIST 152	American History 1877 to Present	3	✓ Social Science
CGS HIS 283	War and American Society	3	HIST	Elective	3	✓ Social Science
CGS HIS 290	History of Wisconsin	3	HIST	Elective	3	✓ Social Science
CGS INT 280	Culture Clashes and the Modern World	3	L&S	Elective	3	✓ Social Science
CGS POL 101	Intro to Politics	3	POL SCI 103	Intro to Political Science	3	✓ Social Science
CGS POL 104	American Government and Politics	3	POL SCI 104	American Government and Politics	3	✓ Social Science
CGS POL 120	Politics of Crime and Punishment	3	POL SCI	Elective	3	✓ Social Science
CGS POL 160	Comparative Politics	3	POL SCI 106	Politics of World's Nations	3	✓ Social Science/International
CGS POL 175	International Politics	3	POL SCI 175	Intro to International Relations	3	✓ Social Science/International
CGS POL 210	Civil Liberties	3	POL SCI	Elective	3	✓ Social Science
CGS POL 231	Sex, Power, and Public Policy	3	WGS	Elective	3	✓ Social Science
CGS POL 280	Terrorism	3	POL SCI	Elective	3	✓ Social Science
CGS PSY 202	Intro Psychology	3	PSYCH 101	Intro to Psychology	3	✓ Social Science
CGS PSY 360	Psychology of Childhood and Adolescence	3	PSYCH 260	Child Psychology	3	✓ Social Science
CGS SOC 101	Intro to Sociology	3	SOCIOL 101	Intro to Sociology	3	✓ Social Science
CGS SOC 234	Sociology of Race & Ethnicity	3	SOCIOL 224	Race and Ethnicity in the US	3	✓ Social Science/Cultural Diversity
CGS SOC 246	Juvenile Delinquency	3	SOCIOL 246	Juvenile Delinquency	3	✓ Social Science

**Biological Sciences major (all tracks) and Natural Science requirement (complete all listed classes)**

UWM-Waukesha			UWM will accept it as:			Meets UWM BA Requirement
Course	Title	Cr.	Course	Title	Cr.	
CGS BIO 150	Foundations of Biological Sciences I	5	BIO SCI 150	Foundations of Biological Sciences I	5	✓ Natural Science + Lab and major
CGS BIO 152	Foundations of Biological Sciences II	5	BIO SCI 152	Foundations of Biological Sciences II	5	✓ Natural Science + Lab and major
CGS BIO 202	Anatomy and Physiology 1 (optional – this course is not specifically required for the major)	4	BIO SCI 202	Anatomy and Physiology I	4	✓ can count towards major
CGS BIO 203	Anatomy and Physiology 2 (optional – this course is not specifically required for the major)	4	BIO SCI 203	Anatomy and Physiology II	4	✓ can count towards major
CGS CHE 145	General Chemistry I	5	CHEM 102	General Chemistry	5	✓ Natural Science + Lab and major
CGS CHE 155	General Chemistry II	5	CHEM 104	General Chemistry and Qualitative Analysis	5	✓ Natural Science + Lab and major
CGS PHY 120/121	General Physics I Non-Calculus	5	PHYSICS 120/121	General Physics I Non-Calculus	5	✓ Natural Science + Lab and major

**Biological Sciences major (cell and molecular biology track and general biology track) can also complete these classes at Waukesha**

UWM-Waukesha			UWM will accept it as:			Meets UWM BA Requirement
Course	Title	Cr.	Course	Title	Cr.	
CGS CHE 343	Organic Chemistry I	3	CHEM 343	Organic Chemistry	3	✓ Major
CGS PHY 122	General Physics II Non-Calculus	4	PHYSICS 122	General Physics II Non-Calculus	4	✓ Major

For questions about transferring to UWM for a Biological Sciences major, please contact an admissions counselor in the College of Letters & Science: [Let-sci@uwm.edu](mailto:Let-sci@uwm.edu)