



College of Letters & Science

## 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 UWM-Waukesha or UWM-Washington County to UWM-Milwaukee to complete a bachelor of science (BS) degree in Biological Sciences

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 or UWM-Washington County and continue their education later at UWM-Milwaukee. This guide outlines recommended course selections at the Waukesha or Washington Co. campuses for a student who intends to transfer to the Milwaukee campus to complete a bachelor's degree in biological sciences.

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 or Washington Co., students can complete (but are not required to complete) the following Milwaukee requirements on a pathway towards BS in biological sciences. Any requirements not met while at Waukesha/Washington Co. can be completed at the Milwaukee campus.

- ✓ Arts Requirement (3 credits)
- ✓ Oral and Written Communication/English Requirement Parts A and B (6 credits)
- ✓ Quantitative Literacy/Math/Formal Reasoning (4 to 11 credits depending on placement level)
- ✓ Natural Science Requirement (12 credits with 3 different labs)
- ✓ Humanities Requirement (12 credits)
- ✓ Social Science Requirement (12 credits)
- ✓ Cultural Diversity Requirement (3 credits)
- ✓ International Requirement (9 credits)
- ✓ World Language Requirement (2 years of high school or 2 semesters of college)
- ✓ 10 to 12 courses in the biological sciences major

Last Updated: May 2021

## Course Recommendations:

### Arts (choose one)

Waukesha/Washington Co.			UWM-Milwaukee will accept it as			Meets UWM BA Requirement
Course	Title	Cr.	Course	Title	Cr.	
CGS MUS 170	Fundamentals of Music	3	Mus 101	Fundamentals of Music	3	✓ Arts
CGS MUS 173	Music Literacy and Appreciation	3	Mus 100	Intro to Classical Music	3	✓ Arts
CGS MUS 174	Music Literacy and Appreciation	3	Mus 100	Intro to Classical Music	3	✓ Arts
CGS MUS 273	Jazz History and Appreciation	3	Mus	Elective	3	✓ Arts/Cultural Diversity
CGS MUS 278	History of Rock and Roll	3	Mus	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	Theater 101	Acting for non-Majors	3	✓ Arts
CGS ENG 203	Creative Writing I	3	Eng 233	Creative Writing	3	✓ Arts

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

Waukesha/Washington Co.			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	Eng 101	Intro to College Writing	3	
CGS ENG 102	Critical Writing, Reading and Research (C or better required)	3	Eng 102	College Writing and Research	3	✓ OWC Part A

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

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

### Math (complete all)

Waukesha/Washington Co.			UWM-Milwaukee will accept it as			Meets UWM BA Requirement
Course	Title	Cr.	Course	Title	Cr.	
CGS MAT 105	Intro to College Algebra (C or better required)	3	Math 105	Intro to College Algebra	3	✓ QL Part A
CGS MAT 115	Precalculus	4	Math 115	Precalculus	4	✓ QL Part A

## 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.

Waukesha/Washington Co.			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)

Waukesha/Washington Co.			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 218	Popular Culture in the Media	3	JAMS	Elective	3	✓ Humanities
CGS ENG 250	Intro to Literary Studies	3	Eng 215	Intro to English Studies	3	✓ Humanities/OWC Part B
CGS ENG 251	African American Literature I	3	Eng 262	Intro to Drama	3	✓ Humanities
CGS ENG 253	Intro to the Short Story and Novel	3	Eng	Elective	3	✓ Humanities
CGS ENG 261	British Writers	3	Eng 222	English Writers 1800 to Present	3	✓ Humanities
CGS ENG 271	Children's Literature	3	Eng	Elective	3	✓ Humanities
CGS ENG 272	American Literature	3	Eng	Elective	3	✓ Humanities
CGS ENG 275	20 <sup>th</sup> Century Novels of the World	3	Eng 278	Intro to World Literature	3	✓ Humanities/International
CGS ENG 277	Film Studies	3	Eng	Elective	3	✓ Humanities
CGS ENG 278	Multicultural Literature in America	3	Eng	Elective	3	✓ Humanities/Cultural Diversity
CGS ENG 279	Women Writers	3	Eng 243	Intro to Literature by Women	3	✓ Humanities
CGS ENG 280	Intro to Shakespeare	3	Eng	Elective	3	✓ Humanities
CGS ENG 282	African American Literature	3	Eng 281	Intro to African American Literature	3	✓ Humanities/Cultural Diversity
CGS GSW 102	Women's Voices	3	WGS 201	Intro to Women's and Gender Studies – Humanities Perspective	3	✓ Humanities
CGS GSW 201	Intro to LGBTQ Studies	3	LGBT 200	Intro to Lesbian, Gay, Bisexual, and Transgender Studies	3	✓ Humanities
CGS GSW 204	Intro to Masculinities	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 211	Elementary Logic	3	Philos 211	Elementary Logic	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 PHI 261	Philosophy of Religion	3	Philos 250	God, Faith, and Reason	3	✓ Humanities
CGS REL 101	Intro to the Study of Religion	3	Relig St	Elective	3	✓ Humanities
CGS REL 276	Religion and the Environment	3	Relig St	Elective	3	✓ Humanities

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

Waukesha/Washington Co.			UWM-Milwaukee will accept it as:			Meets UWM BA Requirement
Course	Title	Cr.	Course	Title	Cr.	
CGS AIS	Intro to American Indian Studies	3	AIS 101	Intro to American Indian Studies	3	✓ Social Science/Cultural Diversity
CGS AIS 277	Indians in American History	3	AIS 262/263	North American Indian History	3	✓ Social Science/Cultural Diversity
CGS ANT 100	Intro to Anthropology	3	Anthro 101/102	Intro to Anthropology / Culture and Society & Human Origins	3	✓ Social Science
CGS ANT 102	Intro to Archaeology and Prehistory	3	Anthro 103	Approaches to Archaeology	3	✓ Social Science
CGS ANT 150	Food, Culture & Identity	3	Anthro	Elective	3	✓ Social Science/Cultural Diversity
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 ECO 101	Intro to Economics	3	Econ 100	Introductory Economics	3	✓ Social Science
CGS ECO 203	Macroeconomics	3	Econ 104	Principles of Macroeconomics	3	✓ Social Science
CGS ECO 204	Microeconomics	3	Econ 103	Principles of Microeconomics	3	✓ Social Science
CGS GEO 102	Roots and Diversity	4	Geog	Elective	3	✓ Social Science/Cultural Diversity
CGS GEO 101	Intro to Cultural Geography	3	Geog	Elective	3	✓ Social Science
CGS GEO 110	World Regional Geography	3	Geog 110	The World: Peoples and Regions	4	✓ 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 127	The World in the Twentieth Century	3	Hist 210	20 <sup>th</sup> Century A Global History	3	✓ Social Science/International
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 INT 282	Rich Man, Poor Man	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	Intro to 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 POL 285	Politics of World Inequality	3	Pol Sci 320	Politics of Developing Countries	3	✓ International
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 160	Sociology of Human Sexuality	3	Sociol 255	Sociology of Sexuality	3	✓ Social Science
CGS SOC 205	Global Social Problems	3	Sociol	Elective	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
CGS SOC 275	Religion, Spirit and Secularism	3	Sociol	Elective	3	✓ Social Science

## Natural Science, Math, and Biological Sciences (complete all)

MATC			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
CGS CHE 155	General Chemistry II	5	Chem 104	General Chemistry and Qualitative Analysis	5	✓ Natural Science + Lab
CGS CHE 343	Organic Chemistry I		Chem 343	Organic Chemistry		✓ required for major
CGS CHE 351	Organic Chemistry Lab Part I		Chem 344	Organic Chemistry Lab		✓ required for major

CGS MAT 211	Calculus	4	Math 211	Survey of Calculus and Analytical Geometry	4	✓ Natural Science, QL-Part B, formal reasoning and major
Or	Or		Or	Or		
CGS MAT 221	Calculus and Analytical Geometry I	5	Math 231	Calculus and Analytical Geometry I	4	
CGS PHY 120/121	General Physics I Non-Calculus	5	Physics 120/121	General Physics I Non-Calculus	5	✓ Natural Science + Lab
CGS PHY 122	General Physics II Non-Calculus	4	Physics 122	General Physics II Non-Calculus	4	✓ Natural Science

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)