

INSTITUTION: UW-Parkside
SCHOOL OR COLLEGE: College of Natural & Health Sciences
MAJOR: Biological Sciences • Molecular Biology and Bioinformatics
BIOLOGICAL SCIENCES CONCENTRATION: Pre-Health Professions



Transfer Guide for Biological Sciences Majors and Molecular Biology and Bioinformatics Majors

1. Application Procedure

UW System application is required for admission to the university, along with official high school and all college transcripts. To apply, visit <https://apply.wisconsin.edu>.

Molecular Biology and Bioinformatics Major entrance requirements: Incoming freshmen must have a minimum ACT of 25. Current students wishing to enter the program must complete BIOS 260 General Genetics, and attain a minimum UW-Parkside cumulative GPA of 2.75 at the time of application. Transfer students will be assessed on these guidelines.

2. Transfer Policies

Within the major, a minimum of 15 credits in courses numbered 300 or above must be completed at UW-Parkside. At least 30 of the last 60 credits must be completed at UW-Parkside to fulfill the residency requirement. Students transferring from non-baccalaureate institutions to UW baccalaureate-granting institutions may generally transfer up to 72 credits earned at non-baccalaureate institutions toward the 120 credits required for degree completion. UW institutions may accept additional credits toward the degree where appropriate.

3. Major Requirements

The following requirements for degrees are in addition to the university general education requirements.

Biological Sciences Major (76-79credits):

A. Core Courses (19 Credits)

<u>UWC Course</u>	<u>UW-Parkside Name</u>	<u>UWP Course</u>
Taken at UWP	Bioscience	BIOS 101
Taken at UWP	Organismal Biology	BIOS 102
Taken at UWP	Biostatistics	BIOS 210
BIO 260	General Genetics	BIOS 260
Taken at UWP	Experimental Methods/Biochemistry Lab	BIOS 435
Taken at UWP	Senior Seminar	BIOS 495

B. Mathematics, Chemistry, and Physics Courses (33 credits)

Mathematics

MAT 221	Calculus and Analytic Geometry I	MATH 221
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Chemistry

CHE 145 AND CHE 155	General Chemistry I AND General Chemistry II	CHEM 101 AND CHEM 102
CHE 343	Organic Chemistry I	CHEM 321
CHE 363	Organic Chemistry II	CHEM 322
CHE 351 AND CHE 361	Organic Chemistry and Laboratory*	CHEM 323

Physics

PHY 141	College Physics I	PHYS 105
PHY 142 OR PHY 201	College Physics II OR General Physics I	PHYS 106 OR PHYS 201
PHY 202	General Physics II	PHYS 202

*Strongly recommended, but not required. Most graduate and professional schools require an organic chemistry course with a laboratory component. Students who do plan to graduate work are also advised to take MATH 222.

C. Elective Courses (24 credits)

Each student must complete a minimum of 24 elective credits selected from 200-400 level biological courses. At least 3 credit hours must be selected from each of the following four areas: 1) cell and molecular biology, 2) organismal structure and function, 3) biological diversity, and 4) population biology. See the academic catalog for a full listing of electives.

<http://uwp.edu/catalog-pdfs/bios.pdf>

UWC courses BIO 271 and BIOS 277 at UW-Waukesha transfer as 200 level BIOS electives.

Requirements for Concentration in Pre-Health Professions (27 credits)

Students complete the same biological sciences major core course requirements (A) and mathematics, physics, and chemistry course requirements (B), but follow the specific require concentration courses listed in the academic catalog:

<http://uwp.edu/catalog-pdfs/bios.pdf>

Molecular Biology and Bioinformatics Major (80-82 credits):

A. Core Courses (36 credits)

<u>UWC Course</u>	<u>UW-Parkside Name</u>	<u>UWP Course</u>
Taken at UWP	Bioscience	BIOS 101
Taken at UWP	Organismal Biology	BIOS 102
Taken at UWP	Biostatistics	BIOS 210
BIO 260	General Genetics	BIOS 260
Taken at UWP	Cell Biology	BIOS 301
Taken at UWP	Molecular Biology and Bioinformatics of Nucleic Acids	BIOS 453
Taken at UWP	Protein Biochemistry and Bioinformatics	BIOS 455
Taken at UWP	Molecular Biology and Bioinformatics Senior Project	BIOS 489
Taken at UWP	Independent Study, over two semesters	BIOS 499

B. Mathematics, Chemistry, and Physics Courses (36-38 credits)

Mathematics

MAT 221 AND Discrete taken at UWP	Calculus and Analytic Geometry I AND Discrete Mathematics	MATH 221 and MATH 231
OR MAT 222	Calculus and Analytic Geometry II	MATH 222

Chemistry

CHE 145 AND CHE 155	General Chemistry I AND General Chemistry II	CHEM 101 AND CHEM 102
CHE 343	Organic Chemistry I	CHEM 321
CHE 363	Organic Chemistry II	CHEM 322

Physics

PHY 141	College Physics I	PHYS 105
PHY 142 OR PHY 201	College Physics II OR General Physics I	PHYS 106 OR PHYS 201
PHY 202	General Physics II	PHYS 202

C. Elective Courses (8 credits)

Choose from 400-600 level courses (excluding UWP courses: Bios 435, BIOS 495, and BIOS 499)

See the academic catalog for a full listing of choices: <http://uwp.edu/catalog-pdfs/bios.pdf>

4. Skills, Foreign Language, Ethnic Diversity, & General Education Requirements

Students that earn Associate of Arts & Science Degree at a UW College will satisfy general education and skills requirements at UW-Parkside. Students may need to meet the foreign language and ethnic diversity requirement.

Students who transfer to UW-Parkside without the Associate of Arts & Science degree must complete skills, foreign language, diversity, and general education requirements as listed below.

ENGLISH AND MATH COMPUTATIONAL SKILLS

<u>UWC Course</u>	<u>UW-Parkside Name</u>	<u>UWP Course</u>
ENG 102	Composition and Reading	ENGL 101
MAT 105 OR	Survey of Mathematics	MATH 102
MAT 110	College Algebra II	MATH 112 (required for business majors)

FOREIGN LANGUAGE REQUIREMENT

Must be fulfilled by one of the following options:

- two years of one language in high school with a grade of c or better in the second year of the language
- complete course at 104 level or above at UW-Parkside (or equivalent)
- 2 college semesters of one foreign language from an accredited institution

ETHNIC DIVERSITY REQUIREMENT

Any UWP course or equivalency with the (DV) designation meets UW-P's ethnic diversity requirement.

GENERAL EDUCATION REQUIREMENT

1. **HUMANITIES AND ARTS:** 12 Credits required from at least three different departments/programs
2. **SOCIAL AND BEHAVIORAL SCIENCE:** 12 Credits required from at least three different departments/programs
3. **NATURAL SCIENCE** - 12 Credits required from at least three different departments/programs

Options are shown on page 4.

5. Contact Info

UW-Parkside Admissions Office

Amelia Tobias
Transfer Admissions Counselor
Phone: (262)595-2668
E-mail: tobias@uwp.edu

Biological Sciences Department

Phone: (262)595-2744
Location: Greenquist 344

Visit the College of Natural and Health Sciences website:

<https://www.uwp.edu/learn/colleges/naturalhealthsciences/>

Every effort is made to maintain accurate information; however, this information is subject to change. It is always best to check with your UW College advisor, UWP Transfer Admissions Counselor, or UWP advisor to ensure accuracy of equivalencies in your transfer plan. Students may also utilize the Student Transfer Assessment Report (STAR) and the Transfer Information System (TIS) to view equivalencies.

UWC Classes Applying to UWP General Education Requirements

Humanities & Arts
Art
ART 100, 101, 104, 105, 106, 107, 110, 111, 113, 114, 115, 122, 125, 126, 133, 134, 144, 161, 170, 175, 180, 181, 183, 209, 210, 211, 235, 236, 245, 261, 290
WOM 295
English
ENG 242 (DV), 250, 253, 255, 261, 263, 266, 264, 266, 267, 281, 284, 286
FRE 277
PHI 226
WOM 279
Humanities
ANT 260 (DV), ANT 353 (DV), INT 230, WOM 203
Music
MUS 072, 131, 170, 173, 273(DV)
WOM 102
Philosophy
PHI 101, 103, 106, 201, 202, 203(DV), 210, 211, 220, 230, 237, 241, 242, 243, 244, 248, 259(DV), 261
INT230, WOM 202, BIO 230, REL 258, REL 261
Theater
CTA 130, 131, 349
COM 103
Modern Languages
FRE 201, 203 AND 204, 205
GER 201, 203 AND 204, 205
SPA 203 AND SPA 204, 205

Social & Behavioral Sciences
Business
BUS 101, 110
Communications
CTA 100, 101, 102, 110, 160, 201, 202, 203, 204, 211, 218, 220, 221, 230, 266, 268, 298
SOC 131
Economics
ECON 101, 203, 204
Ethnic Studies
AIS 101 (DV), ANT 353, SPA 247(DV)
Geography
GEO 101, 102(DV), 104 (DV), 110, 130, 200, 277
History
HIS 101 (DV), 102 (DV), 106, 111, 112, 114, 115, 118, 119, 123, 124, 126, 127, 150, 198, 210, 211, 213, 215, 218, 222, 223, 255, 257, 258, 259, 260, 261, 262(DV), 271, 272, 273, 275, 277(DV), 278(DV), 279, 280, 283, 288, 289, 293, 297
INT 210, ART 185, ART 188, PHI 232
Health, Exercise Science, and Sports Management
HES 206
Interdisciplinary Studies
INT 210
Political Science
POL 101, 104, 106, 160, 175, 201, 204, 206, 218, 220, 221, 225, 250, 298, 352
Psychology
PSY 201, 202, 205, 208, 224, 270(DV), 311
WOM 208
Sociology & Anthropology
SOC 101, 120, 125, 134 (DV), 160, 220, 231, 234(DV), 238, 250, 270, 275, 285, 291
ANT 100, 204, 222, 302, 303, 322, 341, 351
PHI 203, 231
Women's Studies
INT 101, 208, 231
WOM 101, 138, 201, 231

Natural Sciences
Biology
BIO 101, 103, 107, 108, 109, 116, 151, 160, 161, 162, 171, 172, 180, 211, 230, 250, 286
BOT 100, 130, 202, 240, 299
PHS 170, 230, 235, 250
ZOO 101, 105, 140, 170, 277, 291, 299, 315, 316, 350
BAC 299, WIL 140
Chemistry
CHE 112, 123, 124, 125, 145, 165, 175, 203 AND 211, 204, 214, 290, 299, 351, 361
Computer Science
CPS 103, 130, 131, 211, 213, 216, 217, 245
Geography
GLG 100, 101, 104, 107, 130, 131, 169, 291, 297, 314, 350
Geoscience
GEO 106, 120, 123, 124, 125
GEO 130, NAT 250
Health, Exercise Science, and Sports Management
HES 209
Math
MAT 221, 222, 234
CPS 240, 241, 243
Physics
PHY 107, 110, 115, 141, 211, 212, 213
AST 100, 101, 105, 200
Management Information Systems
CPS 240