

## MOLECULAR BIOLOGY AND BIOINFORMATICS

### Transfer Guide

#### 1. Transfer Policies

Students transferring from non-baccalaureate institutions to Parkside may generally transfer up to 72 credits earned at non-baccalaureate institutions toward the 120 credits required for degree completion. UW-Parkside may accept additional credits toward the degree where appropriate. A minimum of 15 credits numbered 300 or above must be completed at Parkside. Degree-seeking transfer students holding an associate of arts or science degree from an accredited college-parallel liberal arts program, with a minimum of 45 transferable credits, are exempt from Parkside general education and skills requirements. The ethnic diversity requirement and the foreign language requirement must still be completed.

#### 2. Major Requirements

The major in molecular biology and bioinformatics consists of a minimum of 43 credits in biological sciences, with additional courses in mathematics, chemistry, computer science and physics. Within the major, a minimum of 15 credits in courses numbered 300 or above must be completed at Parkside. Students must maintain a minimum Parkside cumulative GPA of 2.50 in all courses required for the major to graduate.

The following requirements are in addition to the university's skills and general education requirements. Please use this guide in tandem with the **General Reference and Degree Requirements** transfer guide:

[https://www.uwp.edu/upload/CLC-to-UWP\\_General.pdf](https://www.uwp.edu/upload/CLC-to-UWP_General.pdf)

#### Molecular Biology and Bioinformatics Major Requirements (76-78 credits):

##### A. Required Core Courses (40 Credits)

<u>CLC Course (if available)</u>	<u>Parkside Name</u>	<u>UWP Course/Credit</u>
BIO 161	Bioscience	BIOS 101 / 4
BIO 162	Organismal Biology	BIOS 102 / 4
<i>Taken at UWP</i>	Biostatistics	BIOS 210 / 4
<i>Taken at UWP</i>	General Genetics	BIOS 260 / 4
<i>Taken at UWP</i>	Cell Biology	BIOS 301 / 3
<i>Taken at UWP</i>	Microbiology	BIOS 303 / 4
<i>Taken at UWP</i>	Molecular Biology	BIOS 309 / 3
<i>Taken at UWP</i>	Molecular Biology/Bioinformatics of Nucleic Acids	BIOS 453 / 4
<i>Taken at UWP</i>	Protein Biochemistry and Bioinformatics	BIOS 455 / 4
<i>Taken at UWP</i>	Molecular Biology/Bioinformatics Senior Seminar	BIOS 489 / 2
<i>Taken at UWP</i>	Independent Study (over two semesters)	BIOS 499 / 4

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

<u>CLC Course (if available)</u>	<u>Parkside Name</u>	<u>UWP Course/Credit</u>
<b>Mathematics (5 credits):</b>		
MTH 145	Calculus and Analytic Geometry I	MATH 221 / 5
<b>Chemistry (18 credits):</b>		
CHM 121	General Chemistry I	CHEM 101 / 4
CHM 123	General Chemistry II	CHEM 102 / 4
<i>Taken at UWP</i>	General Chemistry I Lab	CHEM 103 / 1

<b>Taken at UWP</b>	General Chemistry II Lab	CHEM 104 / 1
CHM 222	Organic Chemistry I	CHEM 321 / 4
CHM 223	Organic Chemistry II	CHEM 322 / 4
<b>Physics (10 credits):</b>	<i>Student chooses one of the following pairs of courses:</i>	
PHY 121	College Physics I	PHYS 105 / 5
PHY 122	College Physics II	PHYS 106 / 5
<b>OR</b>	<b>OR</b>	<b>OR</b>
PHY 123	General Physics I	PHYS 201 / 5
PHY 124	General Physics II	PHYS 202 / 5

*Students who plan to do graduate work are also advised to take MATH 222 Calculus and Analytic Geometry II; and CHEM 302 and 303 Physical Chemistry I and II*

### C. Elective Courses (3-5 credits)

<u>CLC Course (if available)</u>	<u>Parkside Name</u>	<u>UWP Course/Credit</u>
<b>Taken at UWP*</b>	<i>Organic Chemistry Laboratory*</i>	<i>CHEM 323 / 3</i>
<b>Taken at UWP</b>	Advanced Biochemistry	CHEM 620 / 3
MCS 141	Computer Science I	CSCI 241 / 4
MCS 142	Computer Science II	CSCI 242 / 4
<i>MTH 146*</i>	<i>Calculus and Analytic Geometry II*</i>	<i>MATH 222 / 5</i>
MTH 244	Discrete Mathematics	MATH 231 / 3
<b>Taken at UWP</b>	Probability and Statistics	MATH 309 / 3
<b>Taken at UWP</b>	Business Programming II-C#	MIS 322 / 3
<b>Taken at UWP</b>	Database Management Systems	MIS 328 / 3

*\*Recommended but not required. Some graduate and professional schools require a second semester calculus and professional schools require a second semester calculus and/or an organic chemistry course with a laboratory component. It is recommended that students who are thinking about graduate or professional schools consult with their advisor to discuss options*

## GENERAL REFERENCE INFORMATION

### APPLICATION PROCESS

Early application is recommended as Parkside operates on a rolling admission and reserves the right to stop accepting applications as needed. Students likely to be admitted will have a cumulative transfer GPA of 2.0 or better.

- Complete an online application at <http://apply.wisconsin.edu>
- Submit application fee\*
- Submit an official copy of your high school transcript, Adult High School diploma, HSED or GED\*\*
- Submit official transcripts from **ALL previous institutions** of higher education\*\*

\*Fee waivers are available for applicants with financial hardship; call (262) 595-2355 to request a waiver.

\*\*All transcripts **MUST BE OFFICIAL** and come directly from the institution.

**STUDENT TRANSFER ASSESSMENT REPORT (S.T.A.R):** S.T.A.R is designed to reveal how Parkside will award credit for transferable courses. Find S.T.A.R online at <https://uwp.edu/apply/admissions/transfer/star.cfm>.

**CALCULATION OF CUMULATIVE TRANSFER GPA:** GPA is based on all transferrable courses from all institutions attended, including course grade of (F). A cumulative GPA is not always the “current” GPA. If a course is retaken, the most recent grade is calculated and transferred.

### TUITION / SCHOLARSHIPS

#### A. Midwest Student Exchange Program (MSEP)

All undergraduate students from Illinois, Indiana, Kansas, Michigan, Missouri, Nebraska, North Dakota in an eligible degree seeking program qualify for the Midwest Student Exchange Scholarship Program (MSEP) tuition rate, which is equivalent to 150% of the resident rate. New first-time students can qualify for one of our Midwest Scholarships. Each scholarship is prorated, based on the number of credits the student is enrolled in.

#### B. Out-of-State Scholarship Program

Parkside offers generous non-resident scholarship opportunities. To find additional information, please visit:

<https://www.uwp.edu/live/offices/financialaid/outstatescholar.cfm>

#### C. General University Scholarships

Students **MUST BE** admitted by **FEBRUARY 1<sup>st</sup>** to be considered for additional scholarships. Application for admission acts as the scholarship application. Additional information may be requested by the Office of Scholarships and Financial Aid.

*The University of Wisconsin-Parkside and the College of Lake County have produced this guide as a tool for students. Every effort is made to maintain accurate information; however, this guide is subject to change. Final responsibility for verifying information rests with the student. Please feel free to contact a transfer representative:*

**University of Wisconsin-Parkside:**

**Sergio Correa**, Transfer Admissions Counselor  
(262) 595-2300 / [correa@uwp.edu](mailto:correa@uwp.edu)

**College of Lake County:**

**Ali Mata, M.A.**, Counselor  
(847) 543-2135 / [amata2@clcollinois.edu](mailto:amata2@clcollinois.edu)

Transfer Guides can be viewed online at <https://uwp.edu/apply/admissions/transfer/agreements.cfm>