STUDENT SPOTLIGHT

“I have really enjoyed doing research in Dr. Suzanne Lee’s lab and I love all the lab classes that the Molecular and Cell emphasis offers. One course that I’m taking is giving me the opportunity to study the model organism that I work with in Dr. Lee’s lab through microscopy. The collaboration is great for scientific advancement.”
- Kerry Roberts-Nygren

SAMPLE CAREER PATHWAYS

Biomedical Research
Pharmaceutical Research
Bioinformatics
Forensic Scientist
Genetic Counselor
Geneticist
Medical Doctor

FACULTY ADVISORS

Marion Brodhagen  Dan Pollard
Lina Dahlberg  Sandra Schulte
Nick Galati  José Serrano-Moreno
David Leaf  Anu Singh-Cundy
Suzanne Lee  Adrienne Wang
Lynn Pillitteri  Jeffrey Young

CURRICULUM HIGHLIGHTS

BIOL 324  Methods in Molecular Biology
BIOL 470  Functional Genomics
CHEM 471  Biochemistry
BIOL 476  Membrane Transport Proteins
BIOL 487  Advanced Molecular and Cell Lab
BIOL 484  Advanced Cell Lab

The MCB Emphasis major is part of an interdisciplinary program between the Biology and Chemistry departments. Cell biology is the study of cells at the biochemical or molecular level. Molecular Biology investigates the interactions among DNA, RNA, and protein synthesis to understand how these interactions are regulated using the tools and principles of genetics and bioinformatics — it is among the most rapidly growing fields, and is making strides with recent accomplishments such as the sequencing of the entire human genome. This program places emphasis on the molecular biology and biochemistry that control cell functions. Students take courses in math, physics, and chemistry, along with the core biology curriculum.

To learn more about this major, visit the university catalog – catalog.wwu.edu
For a complete overview of course requirements for this program, access Degree Works via Web4u

Join the conversation: facebook.com/groups/wwubiology

WWU is an equal opportunity institution. To request this document in an alternate format, please contact biologyadvising@wwu.edu.
### SAMPLE FIRST YEAR SCHEDULE

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<th>FALL</th>
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<td>Prior completion of Calc. 1</td>
<td>BIOL 204&lt;br&gt;CHEM 161&lt;br&gt;3-5 cr. non-science GURs</td>
<td>BIOL 205&lt;br&gt;CHEM 162&lt;br&gt;3-5 cr. non-science GURs</td>
<td>BIOL 206&lt;br&gt;CHEM 163&lt;br&gt;3-5 cr. non-science GURs</td>
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<td>80</td>
<td>MATH 124&lt;br&gt;CHEM 161&lt;br&gt;3-5 cr. non-science GURs</td>
<td>BIOL 204&lt;br&gt;CHEM 162&lt;br&gt;3-5 cr. non-science GURs</td>
<td>BIOL 205&lt;br&gt;CHEM 163&lt;br&gt;3-5 cr. non-science GURs</td>
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<td>MATH 118&lt;br&gt;CHEM 161&lt;br&gt;3-5 cr. non-science GURs</td>
<td>MATH 124&lt;br&gt;CHEM 162&lt;br&gt;3-5 cr. non-science GURs</td>
<td>BIOL 204&lt;br&gt;CHEM 163&lt;br&gt;3-5 cr. non-science GURs</td>
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<td>55</td>
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<td>MATH 115&lt;br&gt;CHEM 161&lt;br&gt;3-5 cr. non-science GURs</td>
<td>MATH 124&lt;br&gt;CHEM 162&lt;br&gt;3-5 cr. non-science GURs</td>
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<td>35</td>
<td>MATH 112&lt;br&gt;7-10 credits of non-science GURs</td>
<td>MATH 114&lt;br&gt;7-10 credits of non-science GURs</td>
<td>MATH 115&lt;br&gt;CHEM 161&lt;br&gt;3-5 cr. non-science GURs</td>
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### COURSE LOAD

Due to the heavy workload associated with lab-based courses, students are advised to take no more than two science courses per quarter (including math) during their first year. Course load will increase as students move through their program requirements.

### DECLARING A BIOLOGY MAJOR

There is a two-step process for admission into all Biology degree programs. Phase I majors are students who have declared their intent to major in Biology and are in the process of completing the introductory biology and chemistry series (BIOL 204, 205, 206 & CHEM 161, 162, 163). Students must achieve a minimum GPA of 2.9 across these courses before they are advanced to Phase II and may begin taking upper-division courses. During their last quarter of Phase I, students will be required to attend a Phase II Advising Workshop prior to being advanced.

### COURSE PLANNING WORKSHEET

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