INTERDISCIPLINARY GRADUATE PROGRAM IN BIOMEDICAL SCIENCES

IGPBS Committee
Dr. Karen Gould and Dr. Dan Monaghan (Co-Chairs & Graduate Program Co-Directors), Dr. Kate Hyde (BMB), Dr. Babu Guda (BISB), Dr. Joyce Solheim (CR), Dr. Rakesh Singh (IPID), Dr. Matthew Zimmerman (IPMM), Dr. Andrew Dudley (MGCB), and Dr. Keshore Bidasee (NSC)

The Interdisciplinary Graduate Program in Biomedical Sciences (IGPBS) consortium consists of six interdisciplinary doctoral programs with over 200 participating research faculty from 32 basic science and clinical departments. The seven doctoral programs that comprise the IGPBS are:

- Biochemistry & Molecular Biology (BMB) (https://www.unmc.edu/igpbs/research/bmb/)
- Bioinformatics & Systems Biology (BISB) (https://www.unmc.edu/igpbs/research/bisb/)
- Cancer Research (CR) (http://www.unmc.edu/igpbs/research/cancer-research/)
- Immunology, Pathology & Infectious Disease (IPID) (http://www.unmc.edu/igpbs/research/ipid/)
- Integrative Physiology & Molecular Medicine (IPMM) (http://www.unmc.edu/igpbs/research/ipmm/)
- Molecular Genetics & Cell Biology (MGCB) (http://www.unmc.edu/igpbs/research/mgcb/)
- Neuroscience (NSC) (http://www.unmc.edu/igpbs/research/neuroscience/)

Students can enroll in IGPBS before choosing a laboratory or a doctoral program ("multi-program" students), which provides the opportunity for research rotations in any of the participating laboratories on campus. Multi-program students complete a first semester common core curriculum, after which they commit to one of the six doctoral programs and complete advanced interdisciplinary training in their field of interest.

Students can also enter IGPBS committed to an individual doctoral program. These "single-program" students rotate among the laboratories in that doctoral program and follow the first semester curriculum of that doctoral program.

Curriculum

Multi-Program Students
Multi-program PhD students enrolled in IGPBS must complete the courses listed below during their first semester of study, after which they commit to one of the six doctoral programs and complete advanced interdisciplinary training in their field of interest.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>IPBS 801</td>
<td>FUNDAMENTALS OF BIOMOLECULES</td>
<td>3</td>
</tr>
<tr>
<td>IPBS 802</td>
<td>MOLECULAR CELL BIOLOGY</td>
<td>2</td>
</tr>
<tr>
<td>IPBS 803</td>
<td>FUNDAMENTALS OF RECEPTORS &amp; CELL SIGNALING</td>
<td>2</td>
</tr>
</tbody>
</table>

Single Program Students
IGPBS students who enroll committed to one of the six participating doctoral programs must follow the curriculum established for that specific program.