Students enrolled in a UW–Madison doctoral program can pursue a doctoral minor in biophysics. The doctoral minor offers substantial training in biophysics. A doctoral minor in biophysics can serve as supplement to training in a broad range of disciplines in which physics, physical chemistry, biology, and medicine intersect. The biophysics minor will give students a rigorous understanding of quantitative approaches to physical and chemical problems in the life sciences. Course offerings that provide pedagogical instruction to biophysics students serve as the basis for the biophysics minor.

### REQUIREMENTS

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>REQUIRED CROES</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM/BIOCHEM 665</td>
<td>Biophysical Chemistry</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 668</td>
<td>Biophysical Spectroscopy</td>
<td>2-3</td>
</tr>
<tr>
<td>ELECTIVE COURSE</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Students choose one or more of the following or any course used to satisfy elective requirements for the Biophysics Ph.D.:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIOCHEM 601</td>
<td>Protein and Enzyme Structure and Function</td>
<td></td>
</tr>
<tr>
<td>BIOCHEM/GENETICS/MICROBIO 612</td>
<td>Prokaryotic Molecular Biology</td>
<td></td>
</tr>
<tr>
<td>BIOCHEM/GENETICS/MD GENET 620</td>
<td>Eukaryotic Molecular Biology</td>
<td></td>
</tr>
<tr>
<td>NTP/NEURODPT 610</td>
<td>Cellular and Molecular Neuroscience</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits 9-10

### FACULTY

Chair: Dr. Alessandro Senes (Biochemistry) Website (https://biochem.wisc.edu/faculty/senes/)

Paul Ahlquist (Oncology) Website (https://mcardle.wisc.edu/who-we-are/mcardle-faculty/paul-ahlquist-phd/)

Tom Brunold (Chemistry) Website (http://brunold.chem.wisc.edu/)

Andrew Buller (Chemistry) Website (https://www.chem.wisc.edu/users/abuller/)

Mark Burkard (Medicine) Website (https://www.medicine.wisc.edu/people-search/people/staff/703/Burkard_Mark/)

Judith Burstyn (Chemistry) Website (http://burstyn.chem.wisc.edu/)

Briana Burton (Bacteriology) Website (https://burtonlab.bact.wisc.edu/)

Sam Butcher (Biochemistry) Website (https://biochem.wisc.edu/faculty/butcher/)

Silvia Cavagnero (Chemistry) Website (http://cavagnero.chem.wisc.edu/)

Baron Chanda (Neuroscience) Website (http://bclab.neuro.wisc.edu/)

Ed Chapman (Neuroscience) Website (https://chapman.neuro.wisc.edu/)

Josh Coon (Chemistry) Website (https://www.chem.wisc.edu/users/jcoon/)

Gheorghe Craciun (Mathematics) Website (http://www.math.wisc.edu/~craciun/)

Cindy Czajkowski (Neuroscience) Website (https://neuro.wisc.edu/staff/czajkowski-cynthia/)

Katrina Forest (Bacteriology) Website (https://bact.wisc.edu/people_profile.php?t=r&e=kforres1)

Brian Fox (Biochemistry) Website (https://biochem.wisc.edu/faculty/fox/default.aspx)

Sam Gellman (Chemistry) Website (http://gellman.chem.wisc.edu/)

Pupa Gilbert (Physics) Website (https://home.physics.wisc.edu/gilbert/)

Randy Goldsmith (Chemistry) Website (https://goldsmith.chem.wisc.edu/)

Jeff Hardin (Zooiology) Website (http://worms.zoology.wisc.edu/)

Katie Henzler-Wildman (Biochemistry) Website (https://biochem.wisc.edu/faculty/henzler-wildman/)

Hazel Holden (Biochemistry) Website (https://biochem.wisc.edu/faculty/holden/default.aspx)

Aaron Hoskins (Biochemistry) Website (https://biochem.wisc.edu/faculty/hoskins/default.aspx)

Meyer Jackson (Neuroscience Department) Website (https://neuro.wisc.edu/staff/jackson-meyer/)

Mathew Jones (Neuroscience) Website (https://neuro.wisc.edu/staff/jones-mathew-2/)

Jim Keck (Biomolecular Chemistry) Website (https://bmlchem.wisc.edu/staff/keck-james/)

Bob Landick (Biochemistry) Website (https://landick.wisc.edu/)

John Markley (Biochemistry) Website (https://biochem.wisc.edu/faculty/markley/)

Megan McClean (Biomedical Engineering) Website (http://mccleanlab.bme.wisc.edu/)

Matthew Merrins (Biomolecular Chemistry) Website (https://bmlchem.wisc.edu/staff/merrins-matthew/)

Julie Mitchell (Mathematics) Website (https://biochem.wisc.edu/faculty/mitchell/default.aspx)

Regina Murphy (Chemical and Biological Engineering) Website (http://murphygroup.che.wisc.edu/)
Jacob Notbohm (Engineering Physics) Website (http://notbohm.ep.wisc.edu/)

Vatsan Raman (Biochemistry) Website (https://biochem.wisc.edu/faculty/raman/)

Ivan Rayment (Biochemistry) Website (https://biochem.wisc.edu/faculty/rament/default.aspx)

Tom Record (Biochemistry) Website (https://biochem.wisc.edu/faculty/record/)

Gail Robertson (Neuroscience) Website (https://neuro.wisc.edu/staff/robertson-gail/)

Phil Romero (Biochemistry) Website (https://biochem.wisc.edu/faculty/romero/)

Subhojit Roy (Pathology and Laboratory Medicine) Website (https://pathology.wisc.edu/staff/roy-subhojit/)

Kris Saha (Biomedical Engineering) Website (http://sahalab.bme.wisc.edu/)

David Schwartz (Chemistry) Website (https://www.chem.wisc.edu/users/schwartz/)

Nate Sherer (Oncology) Website (https://mcardle.wisc.edu/who-we-are/faculty/nathan-m-scherer-phd/)

Raunak Sinha (Neuroscience) Website (https://neuro.wisc.edu/staff/sinha-raunak/)

Melissa Skala (Biomedical Engineering) Website (https://morgridge.org/research/medical-engineering/multiscale-imaging/)

Lloyd Smith (Chemistry) Website (https://www.chem.wisc.edu/users/smith/)

Aussie Suzuki (Oncology) Website (https://cancerbiology.wisc.edu/staff/suzuki-phd-aussie/)

Reid Van Lehn (Chemical and Biological Engineering) Website (http://vanlehngroup.che.wisc.edu/)

Ophelia Venturelli (Biochemistry) Website (https://biochem.wisc.edu/faculty/venturelli/)

Doug Weibel (Biochemistry) Website (https://biochem.wisc.edu/faculty/weibel/default.aspx)

Yongna Xing (Oncology): Website (https://mcardle.wisc.edu/who-we-are/mcardle-faculty/yongna-xing-phd/)

John Yin (Chemical and Biological Engineering) Website (https://yin.discovery.wisc.edu/)

Martin Zanni (Chemistry) Website (https://zanni.chem.wisc.edu/)