BIOPHYSICS, DOCTORAL MINOR

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>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>
</tbody>
</table>

Students choose one or more of the following or any course used to satisfy elective requirements for the Biophysics Ph.D.:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<tbody>
<tr>
<td>BIOCHEM 601</td>
<td>Protein and Enzyme Structure and Function</td>
</tr>
<tr>
<td>BIOCHEM/GENETICS/MICROBIO 612</td>
<td>Prokaryotic Molecular Biology</td>
</tr>
<tr>
<td>BIOCHEM/GENETICS/MD GENET 620</td>
<td>Eukaryotic Molecular Biology</td>
</tr>
<tr>
<td>NTP/NEURODPT 610</td>
<td>Cellular and Molecular Neuroscience</td>
</tr>
</tbody>
</table>

Total Credits: 9-10

PEOPLE

Faculty Trainers:

Alessandro Senes – Program Director (Biochemistry) Website (https://biochem.wisc.edu/faculty/senes/)

Silvia Cavagnero – Program Assistant Director (Chemistry) Website (http://cavagnero.chem.wisc.edu/)

Paul Ahlquist (Oncology) Website (https://mcardle.wisc.edu/faculty/)

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/)

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

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

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

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

Scott Coyle (Biochemistry) Website (https://biophysics.wisc.edu/staff/coyle-scott/)

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

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

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/)

Tim Grant (Biochemistry) Website (https://biophysics.wisc.edu/staff/grant-timothy/)

Aviad Hai (Biomedical Engineering) Website (https://biophysics.wisc.edu/staff/hai-aviad/)

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

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

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

Xuhui Huang (Chemistry) Website (https://biophysics.wisc.edu/staff/huang-xuhui/)

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

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

Robert Kirchdoerfer (Biochemistry) Website (https://biophysics.wisc.edu/staff/kirchdoerfer-robert/)

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

Ci Ji Lim (Biochemistry) Website (https://biophysics.wisc.edu/staff/lim-ci-ji/)

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

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

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/rayment/default.aspx)

Chad Rienstra (Biochemistry) Website (https://biophysics.wisc.edu/staff/rienstra-chad-m/)

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

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

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/faculty/)

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://mcardle.wisc.edu/faculty/)

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

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

Amy Weeks (Biochemistry) Website (https://biophysics.wisc.edu/staff/weeks-amy/)

Liz Wright (Biochemistry) Website (https://biophysics.wisc.edu/staff/wright-elizabeth/)

Yongna Xing (Oncology): Website (https://mcardle.wisc.edu/faculty/)

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

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

Please consult our faculty trainer site (https://biophysics.wisc.edu/labs/) as new faculty are added to the program each year.