

# 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

Code	Title	Credits
<b>Required Courses</b>		
CHEM/ BIOCHEM 665	Biophysical Chemistry	4
CHEM 668	Biophysical Spectroscopy	2-3
<b>Elective Course</b>		
<b>3</b>		
Students choose one or more of the following or any course used to satisfy elective requirements for the Biophysics Ph.D.:		
BIOCHEM 601	Protein and Enzyme Structure and Function	
BIOCHEM/ GENETICS/ MICROBIO 612	Prokaryotic Molecular Biology	
BIOCHEM/ GENETICS/ MD GENET 620	Eukaryotic Molecular Biology	
NTP/ NEURODPT 610	Cellular and Molecular Neuroscience	
<b>Total Credits</b>		<b>9-10</b>

## 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/](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=rf&p=kforres1](https://bact.wisc.edu/people_profile.php?t=rf&p=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/hoskins/default.aspx>)

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/rament/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.