

# BIOP - BIOPHYSICS

BIOP Class Schedule (<https://courses.illinois.edu/schedule/DEFAULT/DEFAULT/BIOP/>)

## Courses

BIOP 401 Introduction to Biophysics credit: 3 Hours. (<https://courses.illinois.edu/schedule/terms/BIOP/401/>)  
Topics include equilibrium thermodynamics, kinetics, and quantum mechanics with applications to biological and chemical systems. 3 undergraduate hours. 3 graduate hours. Prerequisite: MCB 354 or MCB 450, or equivalent, or consent of instructor.

BIOP 419 Brain, Behavior & Info Process credit: 3 Hours. (<https://courses.illinois.edu/schedule/terms/BIOP/419/>)  
Same as MCB 419 and NEUR 419. See MCB 419.

BIOP 432 Photosynthesis credit: 3 Hours. (<https://courses.illinois.edu/schedule/terms/BIOP/432/>)  
Same as CPSC 489 and IB 421. See IB 421.

BIOP 550 Biomolecular Physics credit: 4 Hours. (<https://courses.illinois.edu/schedule/terms/BIOP/550/>)  
Same as MCB 550 and PHYS 550. See PHYS 550.

BIOP 576 Computational Chemical Biology credit: 4 Hours. (<https://courses.illinois.edu/schedule/terms/BIOP/576/>)  
Same as CHEM 576 and CSE 576. See CHEM 576.

BIOP 581 Lab Rotation I credit: 2 Hours. (<https://courses.illinois.edu/schedule/terms/BIOP/581/>)  
Laboratory research methods; familiarization of first-year graduate students with experimental methods used in research in Biophysics and Quantitative Biology. Required of all first-year students majoring in Biophysics and Quantitative Biology. First five weeks of fall term. 2 graduate hours. No professional credit. Prerequisite: First-year graduate status and consent of department; concurrent registration in BIOP 582 and BIOP 583.

BIOP 582 Lab Rotation II credit: 2 Hours. (<https://courses.illinois.edu/schedule/terms/BIOP/582/>)  
Laboratory research methods; familiarization of first-year graduate students with experimental methods used in research in Biophysics and Quantitative Biology. Required of all first-year students majoring in Biophysics and Quantitative Biology. Second five weeks of fall term. 2 graduate hours. No professional credit. Prerequisite: First-year graduate status and consent of department; concurrent registration in BIOP 581 and BIOP 583.

BIOP 583 Lab Rotation III credit: 2 Hours. (<https://courses.illinois.edu/schedule/terms/BIOP/583/>)  
Laboratory research methods; familiarization of first-year graduate students with experimental methods used in research in Biophysics and Quantitative Biology. Required of all first-year students majoring in Biophysics and Quantitative Biology. Meets last five weeks of the fall term. 2 graduate hours. No professional credit. Prerequisite: First-year graduate status and consent of department; concurrent registration in BIOP 581 and BIOP 582.

BIOP 586 Special Topics in Biophysics credit: 1 to 4 Hours. (<https://courses.illinois.edu/schedule/terms/BIOP/586/>)  
Advanced course/tutorials on topics of interest in biophysics, such as electrophysiology, radiation biology, bioenergetics, protein structure, or the physics of muscular contraction. May be repeated. Prerequisite: Consent of instructor.

BIOP 590 Individual Topics credit: 2 to 10 Hours. (<https://courses.illinois.edu/schedule/terms/BIOP/590/>)

For graduate students wishing to study individual problems or topics not assigned in other courses. May be repeated. Prerequisite: Consent of department.

BIOP 595 Biophysics Seminars credit: 1 to 2 Hours. (<https://courses.illinois.edu/schedule/terms/BIOP/595/>)

Survey of literature in one area of biophysics, with special emphasis on student reports. 1 to 2 graduate hours. No professional credit. Approved for S/U grading only. May be repeated. Prerequisite: Graduate standing in Biophysics and Quantitative Biology.

BIOP 599 Thesis Research credit: 0 to 16 Hours. (<https://courses.illinois.edu/schedule/terms/BIOP/599/>)

Research may be conducted in any area under investigation in a faculty laboratory, subject to the approval of the faculty member concerned and the department in which the research is to be done. Approved for S/U grading only. May be repeated.