### BIOPHYSICS (BIOP)

**BIOP Class Schedule** ([courses.illinois.edu/schedule/DEFAULT/DEFAULT/BIOP](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)
Review of membrane and cell biophysics designed to introduce the theoretical and mathematical bases of bioelectricity, photobiology and biomolecular motors. 3 undergraduate hours. 3 graduate hours. Credit is not given for BIOP 401 and PHYS 475. Prerequisite: One year each of college-level mathematics and physics; one year each of college level biology and chemistry recommended.

**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 MCB 550 and PHYS 550. See MC 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. 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. 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.

Information listed in this catalog is current as of 03/2020