# BIOPHYSICS (BIOP)

BIOP Class Schedule ([https://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](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](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](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](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](https://courses.illinois.edu/schedule/terms/BIOP/576))
Same as MCB 550 and CHEM 576. See CHEM 576.

**BIOP 581  Lab Rotation I  credit: 2 Hours.** ([https://courses.illinois.edu/schedule/terms/BIOP/581](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](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](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](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](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](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](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 04/2019*