**BIOP - BIOPHYSICS**

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/))
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/](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 CHEM 576 and CSE 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. 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/](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 09/2023