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.

Information listed in this catalog is current as of 07/2023