Biochemistry

Biochemistry
Head of Department: Susan A. Martinis
Department Office: 419 Roger Adams Laboratory, 600 South Mathews Avenue, Urbana
Phone: 217-333-2013
//mcb.illinois.edu/departments/biochemistry/

BIOC 199  Undergraduate Open Seminar  credit: 1 TO 5 hours.
Approved for both letter and S/U grading. May be repeated.

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<th>CRN</th>
<th>Type</th>
<th>Section</th>
<th>Time</th>
<th>Days</th>
<th>Location</th>
<th>Instructor</th>
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</thead>
<tbody>
<tr>
<td>10408</td>
<td>Independent Study</td>
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<td>ARRANGED -</td>
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Departmental Approval Required

BIOC 290  Individual Topics  credit: 1 TO 5 hours.
Laboratory work and/or reading in fields selected in consultation with an appropriate faculty member. May be repeated in separate terms to a maximum of 10 hours. Prerequisite: Consent of instructor.

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<tbody>
<tr>
<td>57125</td>
<td>Independent Study</td>
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Instructor Approval Required

BIOC 445  Current Topics in Biochemistry  credit: 3 hours.
Capstone course of the Biochemistry Specialized Curriculum, designed to expose undergraduate seniors to developing areas of research in biochemistry. Each year the course will cover 3 to 4 topics of high current research activity, each presented by one faculty member. Readings will be based on the primary lecture. 3 undergraduate hours. No graduate credit. Prerequisite: Senior standing in the Biochemistry Specialized Curriculum; MCB 354 and MCB 406 or consent of instructor.

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<th>Location</th>
<th>Instructor</th>
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<tbody>
<tr>
<td>61722</td>
<td>Lecture-Discussion</td>
<td>A</td>
<td>03:30 PM - 04:50 PM</td>
<td>TR</td>
<td>ARR - Roger Adams Laboratory</td>
<td>Nair, S</td>
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Restricted to Biochemistry major(s). Restricted to students with Senior class standing.
A - Undergraduate Student Section. Priority registration in this course is limited exclusively to Biochemistry Seniors. To have your name added to the request list, please email Jeff Goldberg at jmgoldbe@illinois.edu. This course will meet in 419 RAL.

BIOC 446  Physical Biochemistry  credit: 3 hours.
Physical properties of biological macromolecules, with the emphasis on spectroscopic methods, including UV, visible and FTTR spectroscopies, magnetic resonance techniques as well as X-ray diffraction methods. Same as CHEM 472 and MCB 446. 3 undergraduate hours. 3 graduate hours. Prerequisite: It is strongly recommended to take CHEM 440 (section B) prior to this course. MCB 354 or MCB 450 or equivalent background in biochemistry is also recommended.
BIOC 455  **Technqs Biochem & Biotech**  credit: 4 hours.
Introduction to modern methods of experimentation with biochemical experimentation. Lectures and labs on the theory and practices underlying various methods and instrumentation. Includes protein purification and quantitative analyses, immunoassays, enzymology, peptide sequencing, lipid analysis, carbohydrate analysis, and bioinformatics. 4 undergraduate hours. 4 graduate hours. Prerequisite: CHEM 232 or CHEM 236, or equivalent; credit in MCB 251 or equivalent, and MCB 354 or MCB 450 or equivalent, or consent of instructor.

BIOC 492  **Senior Thesis**  credit: 1 TO 6 hours.
Limited in general to seniors in biochemistry. BIOC 492 is recommended for all those who plan to do research and graduate study, and it is a prerequisite for graduation with distinction in biochemistry. Each student who desires to do thesis research must receive written permission from a member of the biochemistry faculty. Accordingly, prospective students are encouraged to contact the biochemistry staff in the term prior to registration in this course. Students must present a thesis to receive credit in this course. 1 to 6 undergraduate hours. No graduate credit. May be repeated; enrollment is limited to three semesters. Prerequisite: MCB 354 and BIOC 455, or consent of instructor.

BIOC 590  **Individual Topics**  credit: 1 TO 16 hours.
Designed for students in biochemistry who wish to undertake individual studies of a non-Ph.D. thesis nature under the direction of a faculty member of the department. Approved for S/U grading only. May be repeated. (Summer Session, 1 to 8 hours). Prerequisite: Consent of head of department.
Biochemistry Journal Club. This course is graded on a satisfactory/unsatisfactory basis. Registration is limited to 1st and 2nd year Biochemistry graduate students.

Credit Hours: 1 hours
Biochemistry Journal Club
Restricted to students in the Biochemistry department.
Restricted to Graduate - Urbana-Champaign.

BIOC 595  **Biochemistry Seminar**  credit: 0 TO 1 hours.
Students, faculty, and invited speakers present seminars and discussions on current research topics. Required of all Biochemistry Ph.D. students. Approved for S/U grading only. May be repeated to a maximum of 12 hours. Prerequisite: Graduate standing in Biochemistry.

Registration is limited to graduate students whose major is Biochemistry.

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<th>Instructor</th>
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<tr>
<td>31789</td>
<td>Lecture-Discussion</td>
<td>A</td>
<td>12:00 PM - 12:50 PM</td>
<td>F</td>
<td>124 - Burrill Hall</td>
<td>Martinis, S</td>
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<tr>
<td></td>
<td>Lecture-Discussion</td>
<td>A</td>
<td>04:00 PM - 05:50 PM</td>
<td>W</td>
<td>124 - Burrill Hall</td>
<td>Martinis, S</td>
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Credit Hours: 1 hours
Restricted to students in the Biochemistry department.
Restricted to Graduate - Urbana-Champaign.

BIOC 599  **Thesis Research**  credit: 0 TO 16 hours.
Approved for S/U grading only. May be repeated.

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<td>10411</td>
<td>Independent Study</td>
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Instructor Approval Required
Restricted to Graduate - Urbana-Champaign.
Enrollment is limited to graduate students majoring in Biochemistry. Contact the BIOC office, room 419A RAL, or the instructor for the proper CRN.