Class Schedule - Spring 2018

Molecular and Cell Biology

Molecular and Cellular Biology, School of
Director of School: Stephen Sligar
School Office: 393 Morrill Hall, 505 South Goodwin Avenue, Urbana
Phone: 217-333-3166
www.mcb.illinois.edu
Subjects associated with this department include: Biophysics (BIOP) and Molecular and Cellular Biology (MCB).

MCB 100  **Introductory Microbiology**  credit: 3 hours.
Introduction to the principal activities and properties of microorganisms, including bacteria, yeasts, molds, and viruses; consideration of the role of natural processes, such as photosynthesis; and man's use and control of microorganisms in the production of antibodies and vaccines in industrial fermentations, in sanitation and public health, and in agriculture. Credit is not given for both MCB 100 and MCB 300. Prerequisite: There are no prerequisites for MCB 100, but some chemistry is recommended.

This course satisfies the General Education Criteria for a:
Nat Sci & Tech - Life Sciences

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<tr>
<th>CRN</th>
<th>Type</th>
<th>Section</th>
<th>Time</th>
<th>Days</th>
<th>Location</th>
<th>Instructor</th>
</tr>
</thead>
<tbody>
<tr>
<td>38678</td>
<td>Lecture</td>
<td>A</td>
<td>02:00 PM - 02:50 PM</td>
<td>MWF</td>
<td>112 - Gregory Hall</td>
<td>Chapman, K</td>
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</tbody>
</table>

Nat Sci & Tech - Life Sciences course.

MCB 101  **Intro Microbiology Laboratory**  credit: 2 hours.
Laboratory introduction to the techniques employed in the investigation of microbial activities and properties; experiments designed to familiarize the student with the handling, identification, and characterization of microorganisms and their activities, particularly those of interest to man. Credit is not given for both MCB 101 and MCB 301. Prerequisite: Credit or concurrent registration in MCB 100.

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<tr>
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<th>Location</th>
<th>Instructor</th>
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<tbody>
<tr>
<td>38680</td>
<td>Laboratory</td>
<td>ABA</td>
<td>08:00 AM - 09:50 AM</td>
<td>MW</td>
<td>242 - Burrill Hall</td>
<td>Chapman, K</td>
</tr>
</tbody>
</table>

Students must register for both the lecture and one lab. Lab will meet beginning Wednesday, January 17, 2018. The first lecture will meet on Friday, January 19, 2018.

<table>
<thead>
<tr>
<th>CRN</th>
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<th>Instructor</th>
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<tbody>
<tr>
<td>38681</td>
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<td>ABB</td>
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<td>MW</td>
<td>242 - Burrill Hall</td>
<td>Chapman, K</td>
</tr>
</tbody>
</table>

Students must register for both the lecture and one lab. Lab will meet beginning Wednesday, January 17, 2018. The first lecture will meet on Friday, January 19, 2018.

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<th>Instructor</th>
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<td>Chapman, K</td>
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<th>Instructor</th>
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<td>38683</td>
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<td>MW</td>
<td>242 - Burrill Hall</td>
<td>Chapman, K</td>
</tr>
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</table>

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**MCB 150  Molec & Cellular Basis of Life  credit: 4 hours.**

Introductory course focusing on the basic structure, metabolic, and molecular processes (including membranes, energy metabolism, genes) common to all cells. Emphasis on unique properties that differentiate the major sub-groups of organisms (Archaea, Bacteria, plants, and animals), and will discuss how cells are integrated into tissues and organs in multicellular organisms.

Priority registration given to students in Biological Sciences Program and Biochemistry. For further information: www.life.illinois.edu/mcb/150. Students must register for one discussion and one lecture section.

This course satisfies the General Education Criteria for a:

Nat Sci & Tech - Life Sciences

<table>
<thead>
<tr>
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<th>Time</th>
<th>Days</th>
<th>Location</th>
<th>Instructor</th>
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<tbody>
<tr>
<td>40457</td>
<td>Discussion/Recitation</td>
<td>A01</td>
<td>09:00 AM - 09:50 AM</td>
<td>M</td>
<td>243C - Davenport Hall</td>
<td>Reedy, M</td>
</tr>
</tbody>
</table>

Nat Sci & Tech - Life Sciences course.

Lectures will begin on Wednesday, January 17, 2018, and discussions will begin on Monday, January 22, 2018. Examinations will be held from 7:00-9:00PM on the following Thursday evenings: February 8, March 8, and April 12, 2018.

| 40503| Discussion/Recitation | A02     | 10:00 AM - 10:50 AM | M    | 243C - Davenport Hall | Reedy, M   |

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| 40505| Discussion/Recitation | A03     | 11:00 AM - 11:50 AM | M    | 243C - Davenport Hall | Reedy, M   |

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| 40506| Discussion/Recitation | A04     | 12:00 PM - 12:50 PM | M    | 243C - Davenport Hall | Reedy, M   |
Lectures will begin on Wednesday, January 17, 2018, and discussions will begin on Monday, January 22, 2018. Examinations will be held from 7:00-9:00PM on the following Thursday evenings: February 8, March 8, and April 12, 2018.

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<tr>
<th>Course Code</th>
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<th>Day</th>
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<th>Instructor</th>
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<tr>
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<td>57967</td>
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<td>38399</td>
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<tr>
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<td>02:00 PM - 02:50 PM</td>
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<td>Course Code</td>
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<td>Section</td>
<td>Time</td>
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<td>38405</td>
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Nat Sci & Tech - Life Sciences course. Lectures will begin on Wednesday, January 17, 2018, and discussions will begin on Monday, January 22, 2018. Examinations will be held from 7:00-9:00PM on the following Thursday evenings: February 8, March 8, and April 12, 2018.

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<tr>
<td>38415</td>
<td>Discussion/Recitation</td>
<td>ADH</td>
<td>03:00 PM - 04:50 PM</td>
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<td>491A - Burrill Hall</td>
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James Scholars, and Nat Sci & Tech - Life Sciences course. Restricted to Liberal Arts & Sciences. MCB 150 section ADH is the James Scholars Honors section. Lectures will begin on Wednesday, January 17, 2018, and discussions will begin on Monday, January 22, 2018. Examinations will be held from 7:00-9:00PM on the following Thursday evenings: February 8, March 8, and April 12, 2018. Restricted to James Scholars Program students.

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<tr>
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<th>Time</th>
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<td>243C - Davenport Hall</td>
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<tr>
<td>38410</td>
<td>Discussion/Recitation</td>
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<tr>
<td>38411</td>
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<td>12:00 PM - 12:50 PM</td>
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<td>243C - Davenport Hall</td>
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<th>Instructor</th>
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<td>38412</td>
<td>Discussion/Recitation</td>
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<td>W</td>
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<th>Location</th>
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<tbody>
<tr>
<td>38413</td>
<td>ADP 03:00 PM - 03:50 PM</td>
<td>W</td>
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<td>Reedy, M</td>
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<tr>
<td>38414</td>
<td>ADQ 04:00 PM - 04:50 PM</td>
<td>W</td>
<td>243C - Davenport Hall</td>
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<tr>
<td>38417</td>
<td>ADS 09:00 AM - 09:50 AM</td>
<td>R</td>
<td>243C - Davenport Hall</td>
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<tr>
<td>38418</td>
<td>ADT 10:00 AM - 10:50 AM</td>
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<td>38419</td>
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<td>38420</td>
<td>ADV 12:00 PM - 12:50 PM</td>
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<td>38421</td>
<td>ADW 01:00 PM - 01:50 PM</td>
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<td>38422</td>
<td>ADX 02:00 PM - 02:50 PM</td>
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<td>38423</td>
<td>ADY 03:00 PM - 03:50 PM</td>
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<tbody>
<tr>
<td>38398</td>
<td>= Lecture</td>
<td>AL1</td>
<td>02:00 PM - 02:50 PM</td>
<td>MWF</td>
<td>AUD - Foellinger Auditorium</td>
<td>Mehrtens, B Reedy, M</td>
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**MCB 151 Molec & Cellular Laboratory** credit: 1 hours.
Introductory laboratory course focusing on basic techniques in molecular and cellular biology. Credit is not given for MCB 151 for students majoring in Molecular and Cellular Biology, or Integrative Biology; Credit is not given for both MCB 151 and MCB 251. Prerequisite: Concurrent enrollment in MCB 150.
For further information: www.life.illinois.edu/mcb/151.

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<th>Instructor</th>
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<tbody>
<tr>
<td>38427</td>
<td>= Laboratory</td>
<td>A</td>
<td>11:00 AM - 01:50 PM</td>
<td>M</td>
<td>216 - Noyes Laboratory</td>
<td>Reedy, M</td>
</tr>
<tr>
<td>38430</td>
<td>= Laboratory</td>
<td>B</td>
<td>03:00 PM - 05:50 PM</td>
<td>M</td>
<td>216 - Noyes Laboratory</td>
<td>Reedy, M</td>
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<tr>
<td>38433</td>
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<td>C</td>
<td>09:00 AM - 11:50 AM</td>
<td>T</td>
<td>216 - Noyes Laboratory</td>
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<tr>
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<tr>
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<td>F</td>
<td>08:00 AM - 10:50 AM</td>
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<td>47422</td>
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<td>H</td>
<td>03:00 PM - 05:50 PM</td>
<td>W</td>
<td>216 - Noyes Laboratory</td>
<td>Reedy, M</td>
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**MCB 198 Internship** credit: 0 hours.
Full-time or part-time internship at another University or an off-campus medical facility, research institute or other approved institution. Approved for S/U grading only. May be repeated. Prerequisite: For MCB and Biochemistry majors only.
**CRN** | **Type** | **Section** | **Time** | **Days** | **Location** | **Instructor**
---|---|---|---|---|---|---
66224 | Independent Study | INT | ARRANGED - | - | - | Michael, M

Departmental Approval Required

**MCB 199 Undergraduate Open Seminar**  credit: 1 TO 5 hours.
Approved for letter and S/U grading. May be repeated to a maximum of 10 hours.

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<tbody>
<tr>
<td>55525</td>
<td>Discussion/Recitation</td>
<td>AAP</td>
<td>03:00 PM - 04:50 PM</td>
<td>T</td>
<td>243A - Davenport Hall</td>
<td>Reedy, M</td>
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</table>

Credit Hours: 1 hours
Restricted to Liberal Arts & Sciences.
Seats are reserved for LAS Access and Achievement Program students, specifically for LAS EOP and PAP students. If you do not meet this requirement, please contact the Access and Achievement Program Office in 2002 Lincoln Hall to be placed on the waiting list.
Restricted to EOAP Std Ath&Affil-LAS AAP, EOP - Obligatory, Pres Award Program Recip, President's Award Honors, or AAP - Undeclared students.

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<td>56376</td>
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Credit Hours: 1 hours
Internship
Departmental Approval Required

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<th>Location</th>
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<td>M</td>
<td>ARR - Burrill Hall</td>
<td>Knox, T</td>
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</tbody>
</table>

Credit Hours: 1 hours
Instructor Approval Required
This section is reserved for MCB Leaders. It will meet in 164E Burrill Hall. Contact Tina Knox at tmknox@illinois.edu for more information.

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<tr>
<th>CRN</th>
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<tr>
<td>46942</td>
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<td>Reedy, M</td>
</tr>
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</table>

Credit Hours: 1 hours
Departmental Approval Required
Departmental Approval Required. Merit section for MCB 150. Contact Alejandra Stenger at astenger@illinois.edu for details.

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Credit Hours: 1 hours
Departmental Approval Required
Departmental Approval Required. Merit section for MCB 150. Contact Alejandra Stenger at astenger@illinois.edu for details.

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<td>R</td>
<td>326 - David Kinley Hall</td>
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</tr>
</tbody>
</table>
Credit Hours: 1 hours  
Instructor Approval Required  
This section is reserved for MCB Peer Advisors. Contact Shawna Naidu at shawna@illinois.edu for more information.

### MCB 246 Human Anatomy & Physiology II  
credit: 3 hours.
Organ system biology with an emphasis on normal human anatomy and physiology, physiological processes and associated disease processes of the following systems: digestion, cardiovascular, respiratory, renal, and reproductive. Prerequisite: MCB 244 and credit or concurrent enrollment in CHEM 101, CHEM 102, or equivalent or consent of instructor.

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<td>Brown, C Swigart, J</td>
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### MCB 247 Human Anat & Physiol Lab II  
credit: 2 hours.
Laboratory exploration of normal human anatomy and physiology and relevant disease processes for the following systems: digestive, cardiovascular, respiratory, renal, and reproductive. Previously dissected human cadavers are an important part of the learning experience in this course, but students will not dissect human cadavers. Neither animal dissection or animal use are elements of this course. Prerequisite: MCB 245 and credit or concurrent enrollment in CHEM 101, CHEM 102, or equivalent; or consent of instructor.

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<td>MW</td>
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<td>Swigart, J</td>
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</tbody>
</table>

This course is restricted to students in majors and programs for whom it is required. If you are not in a major or program that specifically requires this course but would like to take it, you may add your name to the online waitlist at http://go.illinois.edu/mcb247_SP18_waitlist.

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MCB 250  Molecular Genetics  credit: 3 hours.

Fundamentals of molecular biology including structure of DNA, RNA and proteins, mechanisms of DNA replication, transcription and translation, gene organization, genetic variation and repair, and regulation of gene expression in Bacteria, and Eukarya. Students who enter the University Fall 2011 or later are responsible for additional course-based tuition of $300 unless they are already paying differential tuition during the term of course enrollment. Additional fees may apply. See Class Schedule. Prerequisite: MCB 150, CHEM 102 and CHEM 104, or equivalents or consent of instructor.

For further information: www.life.illinois.edu/mcb/250. Students must register for one discussion and one lecture section.
Lectures will begin on Wednesday, January 17, 2018, and discussions will begin on Monday, January 22, 2018. Examinations will be held from 7:00-9:00PM on the following Wednesday evenings: February 7, March 7, and April 11, 2018. Students who enter the University Fall 2011 or later are responsible for additional course-based tuition of $300 unless they are already paying differential tuition during the term of course enrollment.

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<td>243A - Davenport Hall</td>
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Lectures will begin on Wednesday, January 18, 2017, and discussions will begin on Monday, January 23, 2017. Examinations will be held from 7:00-9:00PM on the following Wednesday evenings: February 8, March 8, and April 12, 2017. Students who enter the University Fall 2011 or later are responsible for additional course-based tuition of $300 unless they are already paying differential tuition during the term of course enrollment.

MCB 251 Exp Techniqs in Molecular Biol  credit: 2 hours.

Laboratory course emphasizing a range of molecular biology questions, and the experimental approaches and methodologies needed to answer these questions. Lectures will accompany labs to explain theoretical background and experimental rationale. Students who enter the University Fall 2011 or later are responsible for additional course-based tuition of $300 unless they are already paying differential tuition during the term of course enrollment. Additional fees may apply. See Class Schedule. Credit is not given for both MCB 251 and MCB 151. Prerequisite: Concurrent or prior enrollment in MCB 250 or consent of instructor.

For further information: www.life.illinois.edu/mcb/251.

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Labs will begin on Monday, January 22, 2018. Students who enter the University Fall 2011 or later are responsible for additional course-based tuition of $300 unless they are already paying differential tuition during the term of course enrollment.

MCB 252 Cells, Tissues & Development  credit: 3 hours.
Functional organization and physiology of cells and tissues, including cellular signaling, cellular interactions, and developmental processes. Students who enter the University Fall 2011 or later are responsible for additional course-based tuition of $300 unless they are already paying differential tuition during the term of course enrollment. Additional fees may apply. See Class Schedule. Prerequisite: MCB 250 or equivalent with consent of instructor.

For further information: www.life.illinois.edu/mcb/252

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MCB 252 ADL is an MCB Honors and James Scholars Honors section. Lectures will begin on Wednesday, January 17, 2018 and discussions will begin on Wednesday, January 17, 2018. Examinations will be held from 7:00-9:00PM on the following Tuesday evenings: February 13, March 6, and April 10, 2018. Students who enter the University Fall 2011 or later are responsible for additional course-based tuition of $300 unless they are already paying differential tuition during the term of course enrollment. If you wish to register for this section but are unable to please email Shawna Naidu at shawna@illinois.edu. Restricted to James Scholars Program students.

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MCB 252 ADP is an MCB Honors and James Scholars Honors section.
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<td>MWF</td>
<td>THEAT - Lincoln Hall</td>
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**MCB 253**  **Exp Techniqs in Cellular Biol**  credit: 2 hours.

Laboratory course emphasizing experimental techniques in cellular biology, cellular physiology, and developmental biology. Students who enter the University Fall 2011 or later are responsible for additional course-based tuition of $300 unless they are already paying differential tuition during the term of course enrollment. Additional fees may apply. See Class Schedule. Credit is not given for both MCB 253 and MCB 151. Prerequisite: Concurrent or prior enrollment in MCB 252 or consent of instructor.

For further information: www.life.illinois.edu/mcb/253

<table>
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Labs will begin on Monday, January 22, 2018. Students who enter the University Fall 2011 or later are responsible for additional course-based tuition of $300 unless they are already paying differential tuition during the term of course enrollment.

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</tbody>
</table>

MCB 253 section D is an MCB Honors and James Scholars Honors section. Labs will begin on Monday, January 22, 2018. Students who enter the University Fall 2011 or later are responsible for additional course-based tuition of $300 unless they are already paying differential tuition during the term of course enrollment. If you wish to register for this section but are unable to do so please email Shawna Naidu at shawna@illinois.edu.
Restricted to James Scholars Program students.

Labs will begin on Monday, January 22, 2018. Students who enter the University Fall 2011 or later are responsible for additional course-based tuition of $300 unless they are already paying differential tuition during the term of course enrollment.

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<tr>
<th>Code</th>
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<th>Time</th>
<th>Day</th>
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<tbody>
<tr>
<td>38557</td>
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<td>E</td>
<td>09:00 AM - 12:50 PM</td>
<td>T</td>
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<td>38560</td>
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<tr>
<td>38558</td>
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<td>Good, E</td>
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</table>

James Scholars course.

MCB 253 section G is an MCB Honors and James Scholars Honors section. Labs will begin on Monday, January 22, 2018. Students who enter the University Fall 2011 or later are responsible for additional course-based tuition of $300 unless they are already paying differential tuition during the term of course enrollment. If you wish to register for this section but are unable to do so please email Shawna Naidu at shawna@illinois.edu.

Restricted to James Scholars Program students.

<table>
<thead>
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<th>Time</th>
<th>Day</th>
<th>Location</th>
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<td>38634</td>
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Labs will begin on Monday, January 22, 2018. Students who enter the University Fall 2011 or later are responsible for additional course-based tuition of $300 unless they are already paying differential tuition during the term of course enrollment.

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**MCB 290  ** **Undergraduate Research  ** credit: 1 TO 5 hours.

Students assist in and/or conduct research under faculty supervision in an MCB research laboratory. The topics and nature of the work will vary but will be defined as work conducted in MCB research laboratories. For each hour of course credit in fall and spring terms, the student will be expected to complete 5 hours of work in the lab as directed. 75-80 total hours would be the expectation for 1 credit hour during 15-16 week terms. May be repeated to a maximum of 10 hours. Prerequisite: Consent of instructor.

<table>
<thead>
<tr>
<th>CRN</th>
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<td>40755</td>
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Instructor Approval Required
Please contact your instructor or the MCB Office in 252 Davenport Hall for the appropriate CRN. The last date to add MCB 290 is January 30, 2018. Permission may not be granted after this date.

**MCB 297  ** **MCB Honors Discussion  ** credit: 1 hours.

Honors discussion section associated with MCB 250, MCB 252, and MCB 354. Concurrent enrollment in the appropriate lecture course is required. May be repeated in separate terms to a maximum of 3 hours.

<table>
<thead>
<tr>
<th>CRN</th>
<th>Type</th>
<th>Section</th>
<th>Time</th>
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Instructor Approval Required

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Instructor Approval Required
MCB 298  **MCB Honors Lab Discussion**  credit: 1 hours.
Discussion section associated with the Honors lab sections of MCB 251 and MCB 253. Concurrent enrollment in the appropriate Honors lab section is required. May be repeated in separate terms to a maximum of 2 hours.

<table>
<thead>
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<td>63532</td>
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<td>Naidu, S</td>
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</table>

Instructor Approval Required

MCB 299  **MCB Merit Program Discussion**  credit: 1 hours.
Provides the extra earned credit hours for students enrolled in the Merit Program in MCB 250, MCB 252, or MCB 354. Approved for letter and S/U grading. May be repeated up to 6 hours in a semester, to a maximum of 10 total hours. Prerequisite: Consent of instructor.

<table>
<thead>
<tr>
<th>CRN</th>
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<th>Section</th>
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<tr>
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</tr>
</tbody>
</table>

Departmental Approval Required
Departmental Approval Required. Merit section for MCB 250. Contact Alejandra Stenger at astenger@illinois.edu for details.

MCB 300  **Microbiology**  credit: 3 hours.
Emphasizes fundamental concepts of microbiology, including nutrition, physiology, genetics, molecular biology, ecology and evolution of microorganisms, and their role in nature, human health and disease. Credit is not given for both MCB 300 and MCB 100. Prerequisite: MCB 250 and credit or concurrent registration in MCB 252 or consent of instructor.

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<tr>
<th>CRN</th>
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<td>38684</td>
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<td>124 - Burrill Hall</td>
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</table>

MCB 301  **Experimental Microbiology**  credit: 3 hours.
Laboratory emphasizing the fundamentals of microbiology. Topics include growth, isolation, and identification of bacteria; restriction endonuclease analysis of DNA, genetic cloning, and gene transfer. Computer methods are used for the identification of microorganisms and for the analysis of recombinant DNA molecules. Prerequisite: MCB 250 and 251 and credit or concurrent registration in MCB 300, or consent of instructor.

Students must register for one lab-discussion and one lecture section.

<table>
<thead>
<tr>
<th>CRN</th>
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<th>Time</th>
<th>Days</th>
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<tr>
<td>38624</td>
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<td>05:00 PM - 06:50 PM</td>
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MCB 317  Genetics and Genomics  credit: 4 hours.
Study of genetics as a discipline, genetic analysis as a tool to understand biology and the role of genome sciences in biology. Credit is not given for both MCB 317 and MCB 316. Prerequisite: MCB 250, MCB 251, MCB 252, and MCB 253; or consent of instructor.

<table>
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<tr>
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**MCB 320  Mechanisms of Human Disease**  credit: 3 hours.

The advent of molecular biology and the Human Genome Project has dramatically increased our understanding of the mechanisms of human disease. The underlying molecular causes for many diseases have been elucidated. This course examines how abnormalities that occur at the molecular and cellular level manifest as pathologies affecting the structure and function of human tissues and organs. In addition, this course focuses on the pathophysiology of common human diseases and the environmental, genetic and epigenetic causes of specific disease types. Prerequisite: MCB 252 or consent of instructor.

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<th>CRN</th>
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<td>MWF</td>
<td>1092 - Lincoln Hall</td>
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**MCB 354  Biochem & Phys Basis of Life**  credit: 3 hours.
Introduction to biochemistry and structural biology emphasizing the physical and chemical properties of macromolecules. Credit is not given for both MCB 354 and MCB 450. Prerequisite: CHEM 232 or CHEM 236, and MCB 250 and MCB 252, or consent of instructor. For further information: www.life.illinois.edu/mcb/354.

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<th>Instructor</th>
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<td>243A - Davenport Hall</td>
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<td>46927</td>
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<td>243A - Davenport Hall</td>
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<td>46708</td>
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<td>MWF</td>
<td>116 - Roger Adams Laboratory</td>
<td>Gerlt, J Procko, E Stenger, A</td>
</tr>
</tbody>
</table>

Restricted to Biochemistry or Molecular and Cellular Biology major(s). Restricted to students with Junior or Senior class standing. Lectures will begin on Wednesday, January 17, 2018, and discussions will begin on Monday, January 22, 2018. Examinations will be held from 7:00-9:00PM on the following Tuesday evenings: February 13, March 6, and April 10, 2018.

MCB 402  **Sys & Integrative Physiology**  credit: 3 hours.
Examines human systems physiology. Topics to be covered include the nervous and endocrine systems, muscle physiology, cardiac physiology, respiratory physiology, blood and immune homeostasis, renal physiology, and gastrointestinal physiology and energy homeostasis. Special emphasis is on homeostatic control and integration of body systems in both health and disease. 3 undergraduate hours. 3 graduate hours. Prerequisite: MCB 252 or consent of instructor.

<table>
<thead>
<tr>
<th>CRN</th>
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<th>Instructor</th>
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<tr>
<td>36809</td>
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<td>MWF</td>
<td>140 - Burrill Hall</td>
<td>Nelson, E</td>
</tr>
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</table>

Credit Hours: 3 hours

MCB 406  **Gene Expression & Regulation**  credit: 3 hours.

Provides in-depth and up-to-date coverage of gene expression and regulation. Lectures are centered on the principles of regulating gene expression in eukaryotic cells. The course covers macromolecule structure and function in gene expression; molecular mechanisms of the key gene expression events including transcription, RNA processing, localization and translation. Applications of these principles in medicine and therapeutics such as aging, cancer and drug design are also discussed. Same as BIOC 406. 3 undergraduate hours. 3 graduate hours. Prerequisite: MCB 354 or consent of instructor.

<table>
<thead>
<tr>
<th>CRN</th>
<th>Type</th>
<th>Section</th>
<th>Time</th>
<th>Days</th>
<th>Location</th>
<th>Instructor</th>
</tr>
</thead>
<tbody>
<tr>
<td>62528</td>
<td>Lecture</td>
<td>A</td>
<td>09:30 AM - 10:50 AM</td>
<td>TR</td>
<td>165 - Noyes Laboratory</td>
<td>Jin, H</td>
</tr>
</tbody>
</table>

MCB 408  **Immunology**  credit: 3 hours.

Introduction to fundamentals of immunology with emphasis on biological application; basic background for understanding immunological responses and techniques applicable to biological research. 3 undergraduate hours. 3 graduate hours. Prerequisite: MCB 250, MCB 251, MCB 252, MCB 253, and MCB 354; or consent of instructor.

<table>
<thead>
<tr>
<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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<tbody>
<tr>
<td>41427</td>
<td>Lecture</td>
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<td>08:00 AM - 09:20 AM</td>
<td>TR</td>
<td>140 - Burrill Hall</td>
<td>Freund, G</td>
</tr>
</tbody>
</table>

Restricted to Biochemistry or Molecular and Cellular Biology major(s). Restricted to students with Junior or Senior class standing. To inquire about access to this course please contact Alejandra Stenger at astenger@illinois.edu.

MCB 410  **Developmental Biology, Stem Cells and Regenerative Medicine**  credit: 3 hours.

Survey of molecular and cellular mechanisms involved in development and growth of animals, as well as recent advancement in stem cell and Regenerative medicine research. Topics to be covered include fertilization and early cell lineage, body axis formation, gastrulation, neural induction and patterning, segmentation, and other aspects of pattern formation including organogenesis and limb development, as well as embryonic stem cells, induced pluripotent stem cells, adult stem cells, regeneration and regenerative medicine. 3 undergraduate hours. 3 graduate hours. Prerequisite: MCB 252 or consent of instructor.

<table>
<thead>
<tr>
<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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<tbody>
<tr>
<td>38665</td>
<td>Lecture</td>
<td>A</td>
<td>11:00 AM - 11:50 AM</td>
<td>MWF</td>
<td>161 - Noyes Laboratory</td>
<td>Li, X</td>
</tr>
</tbody>
</table>

MCB 419  **Brain, Behavior & Info Process**  credit: 3 hours.

Exploration of the neural basis of animal behavior. Emphasis on the information processing problems that animals face in complex natural environments and how nervous systems have evolved to solve these problems. Introduction to the use of computer modeling
and simulation techniques for exploring principles of nervous system design and function. Current literature in computational
neurobiology and neuroethology will be incorporated in readings and class discussion. Same as BIOP 419 and NEUR 419. 3
undergraduate hours. 3 graduate hours. Prerequisite: CS 101; and PHYS 102 or PHYS 212; and MCB 252; or equivalent or consent of
instructor.

<table>
<thead>
<tr>
<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>41123</td>
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<td>A</td>
<td>09:30 AM - 10:50 AM</td>
<td>TR</td>
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</tbody>
</table>

Credit Hours: 3 hours

MCB 424  **Microbial Biochemistry**  credit: 3 hours.
Examines the biochemical ecology of diverse microbial groups with emphasis on anaerobic systems. 3 undergraduate hours. 3
graduate hours. Prerequisite: MCB 250 and MCB 354 or MCB 450, or consent of instructor.

<table>
<thead>
<tr>
<th>CRN</th>
<th>Type</th>
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<th>Time</th>
<th>Days</th>
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<tr>
<td>34340</td>
<td>Lecture</td>
<td>A</td>
<td>10:00 AM - 10:50 AM</td>
<td>MWF</td>
<td>1065 - Lincoln Hall</td>
<td>Metcalf, W</td>
</tr>
</tbody>
</table>

MCB 429  **Cellular Microbiology &Disease**  credit: 3 hours.
Emphasizes cell biology of infectious diseases, using cellular, molecular, and animal models. Will stress molecular cross-talk that drives
host-pathogen interactions, state-of-the art approaches for investigating host and microbial cell and molecular biology, latest paradigms
in host cell biology, and, the evolutionary basis by which pathogens can manipulate host cell cytoskeleton, membranes, organelles, cell
cycle, gene expression, and signaling in eukaryotic cells. 3 undergraduate hours. 3 graduate hours. Prerequisite: MCB 300 and MCB
354 or consent of instructor.

<table>
<thead>
<tr>
<th>CRN</th>
<th>Type</th>
<th>Section</th>
<th>Time</th>
<th>Days</th>
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<th>Instructor</th>
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<td>48830</td>
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<td>A</td>
<td>11:00 AM - 11:50 AM</td>
<td>MWF</td>
<td>1066 - Lincoln Hall</td>
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</tr>
</tbody>
</table>

Please note that, as of Jan. 2010, MCB 400 is no longer a prerequisite for this course.

MCB 433  **Virology & Viral Pathogenesis**  credit: 3 hours.
Same as PATH 433. See PATH 433.

<table>
<thead>
<tr>
<th>CRN</th>
<th>Type</th>
<th>Section</th>
<th>Time</th>
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<tr>
<td>49871</td>
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<td>163 - Noyes Laboratory</td>
<td>Rock, D Yoo, D</td>
</tr>
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</table>

MCB 434  **Food & Industrial Microbiology**  credit: 3 hours.
Same as FSHN 471. See FSHN 471.

<table>
<thead>
<tr>
<th>CRN</th>
<th>Type</th>
<th>Section</th>
<th>Time</th>
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<th>Location</th>
<th>Instructor</th>
</tr>
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<tbody>
<tr>
<td>33040</td>
<td>Lecture</td>
<td>L</td>
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<td>TR</td>
<td>114 - David Kinley Hall</td>
<td>Jin, Y Miller, M</td>
</tr>
</tbody>
</table>
MCB 442  **Comparative Immunobiology**  credit: 4 hours.
Same as ANSC 450 and PATH 410. See ANSC 450.

<table>
<thead>
<tr>
<th>CRN</th>
<th>Type</th>
<th>Section</th>
<th>Time</th>
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<th>Location</th>
<th>Instructor</th>
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<tbody>
<tr>
<td>40265</td>
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<td>A</td>
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<td>TR</td>
<td>165 - Noyes Laboratory</td>
<td>Steelman, A</td>
</tr>
</tbody>
</table>

Course is offered every other spring (even years).

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MCB 446  **Physical Biochemistry**  credit: 3 hours.
Same as CHEM 472 and BIOC 446. See BIOC 446.

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<tr>
<th>CRN</th>
<th>Type</th>
<th>Section</th>
<th>Time</th>
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<th>Location</th>
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<tr>
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<td>Zhang, K</td>
</tr>
</tbody>
</table>

Credit Hours: 3 hours

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MCB 450  **Introductory Biochemistry**  credit: 3 hours.
Chemistry and metabolism of carbohydrates, lipids, proteins, nucleic acids, vitamins, and coenzymes and their relation to the regulation and processes of organisms, cells, and subcellular components. Students who enter the University Fall 2011 or later are responsible for additional course-based tuition of $300 unless they are already paying differential tuition during the term of course enrollment. Additional fees may apply. See Class Schedule. 3 undergraduate hours. 3 graduate hours. Credit is not given for both MCB 450 and MCB 354. Prerequisite: CHEM 232 or CHEM 236, or equivalent, or consent of instructor. Not intended for students in the MCB or biochemistry curricula.

<table>
<thead>
<tr>
<th>CRN</th>
<th>Type</th>
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<td>112 - Gregory Hall</td>
<td>Alt, R Fratti, R Orlean, P</td>
</tr>
</tbody>
</table>

Students who enter the University Fall 2011 or later are responsible for additional course-based tuition of $300 unless they are already paying differential tuition during the term of course enrollment.

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MCB 458  **Basic Human Pathology**  credit: 3 hours.
Introduction to the basic mechanisms of human disease with a focus on the building blocks of pathological processes at the sub-organismal and organismal level. Basic biological processes will be stressed including tissue adaptation, injury, inflammation, repair and neoplasia. Pathology synthesizes cellular and molecular biology, biochemistry and immunology holistically so as to understand the body's limited responses to the cornucopia of experienced physiological insults. 3 undergraduate hours. No graduate credit. Prerequisite: MCB 354 or equivalent, or consent of instructor. For MCB and Biochemistry undergraduate majors only.

<table>
<thead>
<tr>
<th>CRN</th>
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<th>Time</th>
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<th>Location</th>
<th>Instructor</th>
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<tbody>
<tr>
<td>63455</td>
<td>Lecture-Discussion</td>
<td>A</td>
<td>09:30 AM - 10:50 AM</td>
<td>TR</td>
<td>140 - Burrill Hall</td>
<td>Freund, G Stenger, A</td>
</tr>
</tbody>
</table>
MCB 462  Integrative Neuroscience  credit: 3 hours.
Employs integrative, multi-level systems approaches to nervous system and behavior. Focuses on neural circuits in sensory integration, pattern generation, the integration of sensation, internal states and learning in behavioral decision, the neuronal natures of pain, sleep, and biological rhythms, neuroeconomics, new vistas in neural modeling and interfacing brain and machine. Students are presented in neuroethical contexts of evolution and the economics of behavior and physiology. Same as NEUR 462. 3 undergraduate hours. 3 graduate hours. Prerequisite: MCB 252 or consent of instructor. May be taken concurrently with MCB 461.

<table>
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<tr>
<th>CRN</th>
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<td>Lecture</td>
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<td>1000 - Lincoln Hall</td>
<td>Gillette, M</td>
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<td>Gillette, R</td>
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</tbody>
</table>

MCB 465  Human Metabolic Disease  credit: 3 hours.
Examination of the molecular and physiological basis of human metabolic disease. Disruption of metabolic and energy homeostasis plays key roles leading to metabolic disorders. We will examine how lipid/glucose levels and energy balance are controlled in health and how they are abnormally regulated in disease states. In addition, we will cover current topics related to control of metabolism including aging and circadian rhythms. Methodologies leading to scientific discoveries and potential preventive and therapeutic agents will also be discussed. 3 undergraduate hours. 3 graduate hours. Prerequisite: MCB 250, MCB 252, or consent of instructor.

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<tr>
<th>CRN</th>
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<th>Section</th>
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<th>Instructor</th>
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<tr>
<td>63456</td>
<td>Lecture</td>
<td>A</td>
<td>03:30 PM - 04:50 PM</td>
<td>TR</td>
<td>165 - Noyes Laboratory</td>
<td>Kemper, K</td>
</tr>
</tbody>
</table>

MCB 480  Eukaryotic Cell Signaling  credit: 2 hours.
General principles of molecular signaling regulating membrane, cytoplasmic, and nuclear events in eukaryotic cells with emphasis on mammalian systems. Contemporary methods of investigation and the principles of identifying and solving problems related to signal transduction will be emphasized. 2 undergraduate hours. 2 graduate hours. Prerequisite: MCB 252 or consent of instructor.

<table>
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<tr>
<th>CRN</th>
<th>Type</th>
<th>Section</th>
<th>Time</th>
<th>Days</th>
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<tbody>
<tr>
<td>31781</td>
<td>Lecture</td>
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<td>01:00 PM - 02:50 PM</td>
<td>F</td>
<td>140 - Burrill Hall</td>
<td>Chen, J</td>
</tr>
</tbody>
</table>

MCB 492  Senior Thesis  credit: 3 TO 5 hours.
Research conducted under the direction of a faculty member in the School of Molecular and Cellular Biology. Normally, the student enrolls in MCB 492 during the last semester on campus prior to graduation. In the semester preceding enrollment, interested students should consult with their faculty advisors concerning enrollment procedures. A minimum of 3 credit hours is required, and a thesis must be presented for credit to be received. Successful completion of MCB 492 is required in order to be eligible for graduation with distinction in MCB. 3 to 5 undergraduate hours. No graduate credit. Prerequisite: Two consecutive semesters of at least 2 credit hours of MCB 290 under the guidance of the same faculty member, or consent of instructor.

<table>
<thead>
<tr>
<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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<tbody>
<tr>
<td>40720</td>
<td>Independent Study</td>
<td></td>
<td>ARRANGED -</td>
<td></td>
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</table>

Instructor Approval Required
Enrollment in MCB 492 occurs normally in the last semester before graduation and involves continuation of the work done previously for MCB 290, but is now intended to indicate that you will be writing and submitting a senior research thesis for graduation with distinction. A minimum of 3 credit hours of MCB 492 is required, and a thesis must be presented for credit to be received. The prerequisite for MCB 492 is a minimum of 2 consecutive semesters of at least 2 credit hours of MCB 290 under the guidance of the same professor, or consent of the instructor. MCB majors entering UIUC prior to Fall 2004 may not be required to meet these criteria. Please contact Melissa Michael at mmichae@uiuc.edu with questions.

**MCB 493  Special Topics Mol Cell Biol**  credit: 1 to 4 hours.
Discussion of current topics of interest within the broad domain of molecular and cellular biology; seminar or lecture format. Topics vary. May be repeated to a maximum of 12 hours. Prerequisite: Junior standing and consent of instructor.

<table>
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<th>Days</th>
<th>Location</th>
<th>Instructor</th>
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<tr>
<td>63457</td>
<td>Laboratory</td>
<td>ECB</td>
<td>11:00 AM - 02:50 PM</td>
<td>F</td>
<td>488 - Burrill Hall</td>
<td>Levesque, L</td>
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<td>64991</td>
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<td>12:30 PM - 01:50 PM</td>
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<tr>
<td>60204</td>
<td>Lecture-Discussion</td>
<td>FIP</td>
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<td>Raetzman, L</td>
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<td>Lecture-Discussion</td>
<td>FIP</td>
<td>12:30 PM - 01:20 PM</td>
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<td>256 - Mechanical Engineering Bldg</td>
<td>Raetzman, L</td>
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</tbody>
</table>

Credit Hours: 2 hours  
Experimental Cell Biology  
Prerequisites: MCB 252 and MCB 253. This laboratory course is built upon the experimental foundation introduced in MCB 253. Biochemical, immunological and molecular biological techniques will be used to probe the molecules and processes of eukaryotic cells. Special emphasis will be given to the cell cycle, intracellular trafficking, and cellular differentiation. The course will also include proper data handling and reporting techniques. This course counts as an advanced MCB laboratory course. This section may not be repeated. Consult an MCB advisor for grade replacement situations. This course will be restricted until Nov. 13, 2017.

Credit Hours: 3 hours  
Epigenetics  
This course will cover the field of epigenetics that seeks to explain how long-lasting changes in cellular and organismal traits can occur through non-genetic, environmentally responsive mechanisms. The course will focus on the molecular mechanisms underlying epigenetic phenomenon but we will also cover applications to contemporary topics such as cancer, metabolism, aging, and tissue engineering. 3 undergraduate hours, 3 graduate hours. Prerequisite: Undergrads- MCB 252 or consent of instructor. One semester of biochemistry is recommended. This section of MCB 493 counts as advanced MCB course credit.

Credit Hours: 2 hours  
Frontiers in Physiology  
Restricted to Biochemistry or Molecular and Cellular Biology major(s). Restricted to students with Senior class standing. This section of MCB 493 counts as advanced MCB course credit. Please email Dr. Raetzman at raetzman@illinois.edu for approval to take this course. The course meets in B102 CLSL from 11-12 pm and in B126 CLSL from 12:30-1:20 pm. This section may not be repeated. Consult an MCB advisor for grade replacement situations.

Credit Hours: 3 hours  
Viral Pathogenesis & Evolution  
Viruses are everywhere. They are intimately involved in the lives of all major life forms on earth, and impose enormous public health and economic burdens upon human society. This course will focus on the common fundamental concepts that underlie and connect the replication, pathogenesis, and evolution of diverse virus families, rather than serve as a detail-focused survey of viruses. Group discussion of primary literature will be used to illustrate experimental approaches for exploring fundamental questions in virology.
Prerequisites for this section of MCB 493 are MCB 250, 252, 300 and 354. This section of MCB 493 counts as advanced MCB course credit.

**MCB 509  Curr Topics Mol & Int Physiol**  credit: 2 hours.
Advanced seminars in current physiological research. May be repeated once for credit. Prerequisite: Consent of instructor.

<table>
<thead>
<tr>
<th>CRN</th>
<th>Type</th>
<th>Section</th>
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<th>Days</th>
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<td>FIP</td>
<td>12:30 PM - 01:20 PM</td>
<td>R</td>
<td>256 - Mechanical Engineering Bldg</td>
<td>Raetzman, L</td>
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</tbody>
</table>

Frontiers in Physiology
Restricted to Graduate - Urbana-Champaign.
This class will meet in B102 CLSL from 11-11:50 on Thursday and in B126 CLSL from 12:30-1:20 pm Thursday.

**MCB 511  Mol Bio of Microbe-Plant Inter**  credit: 3 hours.
Same as PLPA 509. See PLPA 509.

<table>
<thead>
<tr>
<th>CRN</th>
<th>Type</th>
<th>Section</th>
<th>Time</th>
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<th>Instructor</th>
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<td>49807</td>
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<td>A</td>
<td>03:30 PM - 04:50 PM</td>
<td>TR</td>
<td>W9 - Turner Hall</td>
<td>Zhao, Y</td>
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</table>

Restricted to Graduate - Urbana-Champaign.

**MCB 529  Special Topics Cell Devel Biol**  credit: 1 TO 4 hours.
Discussion of current topics of interest in higher eukaryotic cellular and molecular biology, development, neurobiology; seminar or lecture format. Topics vary. May be repeated to a maximum of 8 hours. Prerequisite: Consent of instructor.

<table>
<thead>
<tr>
<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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<tbody>
<tr>
<td>54165</td>
<td>Conference</td>
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<td>11:00 AM - 12:50 PM</td>
<td>T</td>
<td>-</td>
<td>Gillette, M</td>
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</table>

Credit Hours: 2 hours
Current Issues Neurons & Glia
Current Issues in the Biology of Neurons and Glia

<table>
<thead>
<tr>
<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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<tbody>
<tr>
<td>63840</td>
<td>Lecture-Discussion</td>
<td>THD</td>
<td>02:00 PM - 03:20 PM</td>
<td>R</td>
<td>ARR - Burrill Hall</td>
<td>Nelson, E</td>
</tr>
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</table>

Credit Hours: 2 hours
Spec Topics in Health &Disease
Restricted to Graduate - Urbana-Champaign.
This course will explore recent advances and current challenges in the fields of health and disease. Critical assessment of journal articles and introduction to modern experimental techniques will feature prominently. This will be a largely discussion based course with interspersed lectures and student presentations. Topics will be chosen based on the requests of the students, but can include
cancer, endocrine and developmental disorders, aging and modern pharmacology. This course would be of interest to graduate students in any life science. This class will meet in 501 Burrill.

**MCB 530  Reproductive Physiol Seminar**  credit: 1 hours.
Presentation and discussion of current literature as well as graduate student and staff research proposals and findings in reproductive physiology. May be repeated to a maximum of 4 hours. Prerequisite: Consent of instructor.

<table>
<thead>
<tr>
<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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<tbody>
<tr>
<td>37735</td>
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<td>04:00 PM - 05:20 PM</td>
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<td>3526 - Vet Med Basic Sciences Bldg</td>
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Restricted to Graduate - Urbana-Champaign.

**MCB 534  Advanced Microbial Metabolism**  credit: 1 hours.
Advanced primary literature-based discussion course on microbial metabolism. Graduate level companion course for MCB 424. Prerequisite: Concurrent or prior enrollment in MCB 424 or consent of instructor.

<table>
<thead>
<tr>
<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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<td>53098</td>
<td>Conference</td>
<td>A</td>
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</table>

Restricted to Graduate - Urbana-Champaign. Supplemental course for MCB 424.

**MCB 539  Advanced Cellular Microbiology**  credit: 1 hours.
Advanced primary literature-based discussion course on cellular microbiology and underlying infectious diseases. Graduate level companion course for MCB 429. Prerequisite: Concurrent or prior enrollment in MCB 429 or consent of instructor.

<table>
<thead>
<tr>
<th>CRN</th>
<th>Type</th>
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<th>Time</th>
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<td>M</td>
<td>ARR - Chemical and Life Sci Lab</td>
<td>Kehl-Fie, T</td>
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Restricted to Graduate - Urbana-Champaign. Supplemental course for MCB 429. This course will meet in B124 CLSL.

**MCB 553  Enzyme Reaction Mechanisms**  credit: 3 OR 4 hours.
Same as CHEM 572. See CHEM 572.

<table>
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<td>142 - Henry Administration Bldg</td>
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Credit Hours: 3 hours

**MCB 571  Bioinformatics**  credit: 4 hours.
Same as ANSC 543, CHBE 571, and STAT 530. See CHBE 571.
MCB 581  **Laboratory Rotation I**  credit: 3 hours.

Laboratory research methods; familiarization of first-year graduate students with experimental methods used in molecular and cellular biology research. Required of all first-year students entering MCB. Meets first five weeks of each term. Approved for S/U grading only. Prerequisite: First-year graduate status and consent of MCB graduate programs; concurrent registration in MCB 582.

<table>
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<tr>
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Instructor Approval Required
Restricted to Graduate - Urbana-Champaign.

MCB 582  **Laboratory Rotation II**  credit: 3 hours.

Laboratory research methods; familiarization of first-year graduate students with experimental methods used in molecular and cellular biology research. Required of all first-year students entering MCB. Meets second five weeks of each term. Approved for S/U grading only. Prerequisite: First-year graduate status and consent of MCB graduate programs; concurrent registration in MCB 581.

<table>
<thead>
<tr>
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Instructor Approval Required
Restricted to Graduate - Urbana-Champaign.

MCB 583  **Laboratory Rotation III**  credit: 3 hours.

Laboratory research methods; familiarization of first-year graduate students with experimental methods used in molecular and cellular biology research. Required of all first-year students entering MCB. Meets third five weeks of each term. Approved for S/U grading only. Prerequisite: First-year graduate status and consent of MCB graduate programs; concurrent registration in MCB 581 and MCB 582.

<table>
<thead>
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</table>

Instructor Approval Required
Restricted to Graduate - Urbana-Champaign.
MCB 585  Current Topics in Microbiology  credit: 1 hours.
Discussions, reviews, and appraisal of special topics in microbiology and molecular biology; seminar or lecture. Topics vary. Approved for S/U grading only. May be repeated to a maximum of 8 hours. Prerequisite: Consent of instructor.
Restricted to students enrolled in the Microbiology graduate curriculum.

<table>
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Restricted to Graduate - Urbana-Champaign.