STUDENT INFORMATION FOR FALL 2019 REGISTRATION

You can search for Fall courses at: http://courses.unh.edu

REGISTRATION FOR FALL 2019

Seniors: 4/22 (7:00 a.m.) – 5/6 (6:00 p.m.)
Juniors: 4/24 (7:00 a.m.) – 5/6 (6:00 p.m.)
Sophomores: 4/29 (7:00 a.m.) – 5/6 (6:00 p.m.)
Freshmen: 5/2 (7:00 a.m.) – 5/6 (6:00 p.m.)

Web registration reopens July 17, 2019 at 8 a.m. and closes September 3, 2019 at 4:30 p.m.

If you haven’t already done so, contact your academic advisor to discuss your Fall courses and to obtain your RAC for online registration.

**Check DegreeWorks before meeting with your advisor to make sure your previous & current courses are displayed correctly.**

NEW OR NOTABLE FOR FALL 2019

**BMCB 605 – Principles of Cell Biology**
Instructor: Sarah Walker
This course will now be offered both Fall and Spring semesters

**BMS 650 – Molecular Diagnostics**
Instructor: Juan Rojo
Returning after a one semester hiatus

**BMS 658 – Medical Biochemistry**
Instructor: Michelle Labbe
This course will be offered Fall semester instead of Spring

**BMS 704 – Pathologic Basis of Disease**
Instructor: David Needle
This course will be offered Fall semester instead of Spring

COURSES NOT OFFERED FOR FALL 2019

**BMS 620** – Tissue Engineering Cell Culture Laboratory (returning Spring 2020 as BMS 725)

**BMCB 794** – Protein Structure and Function

**GEN 711** – Genomics & Bioinformatics (returning Spring 2020)

**GEN 772** – Evolutionary Genetics of Plants (returning Fall 2020)

COURSES LIKELY TO REACH MAXIMUM CAPACITY

- BMCB 658/659
- BMS 705/715
- BMS 503/504
- BMS 507
- BMS 655
- BMS 705/715
- GEN 604
- GEN 717

COURSES LIKELY TO HAVE OPEN SEATS

**BMCB 605** – Principles of Cell Biology

**BMCB 754** – Molecular Biology Research Methods

**BMS 623** – Histology: Microscopic Cellular Structure & Function

**BMS 656** – Immunohematology

**BMS 657** – Blood Banking Laboratory

**BMS 702** – Endocrinology

**BMS 703** – Infectious Disease & Health

**BMS 704** – Pathologic Basis of Disease

**GEN 705** – Population Genetics

UNABLE TO REGISTER?

Unable to register for an MCBS-sponsored course that is full? Alert the instructor of your interest regarding gaining admission into the course with the online MCBS Closed Course Form.

Submitting this form does not ensure that you will be admitted into the course. In fact, during the online registration period, your best strategy is to regularly check availability via WebCat, in the event that another student drops the course. Remember that WebCat is also available from 7/17/2019 – 9/3/2019.

For Chemistry courses, contact Cindi Rohwer (cindi.rohwer@unh.edu) to be put on a waitlist.

Check out the following pages for highlights of some of the exciting courses being offered in Fall 2019.
**Selected Courses Being Offered in Fall 2019**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
<th>Description</th>
<th>CRN</th>
<th>Schedule</th>
<th>Instructor</th>
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<tbody>
<tr>
<td>BMCB 605</td>
<td>Principles of Cell Biology</td>
<td>4.00</td>
<td>Cell and developmental biology of multicellular eukaryotic organisms. Structure and function of major cellular compartments; mechanisms of cellular communication and dynamics; embryonic development. Special topics: subcellular organization and function; membrane biogenesis; signal transduction; mitogenesis; apoptosis; autophagy; tumor suppressors and cell cycle regulation; cytokinesis; cytoskeletal dynamics; cellular shape and motility; stem cell biology; organogenesis; morphogenesis and patterning.</td>
<td>16778</td>
<td>Mon/Wed/Fri 11:10 – 12:00 p.m.; NESM 125 Recitation M 1:10 p.m. – 2:00 p.m., JAMS G46</td>
<td>Sarah Walker</td>
</tr>
<tr>
<td>BMCB 754</td>
<td>Molecular Biology Research Methods</td>
<td>5.00</td>
<td>Theory and application of current technologies to manipulate DNA. Hands-on research experience that includes DNA isolation and quantitation methods, cloning, PCR, DNA sequencing, and analysis of gene products. Lab. Writing intensive.</td>
<td>16780</td>
<td>Tues/Thurs 1:10 – 5:00 p.m., Rudman G51 Recitation Mon 9:10 – 10:00 a.m., HS 124</td>
<td>Cheryl Whistler</td>
</tr>
<tr>
<td>BMS 623</td>
<td>Histology: Microscopic Cellular Structure &amp; Function</td>
<td>4.00</td>
<td>Cellular structure, function, and physiology, as well as the interactions between cells in different organ systems, are examined at the microscopic level. Digital microscopic images are utilized to examine the cellular structure of all organ systems and the interactions between cells in these organs. Hybrid course with online lab.</td>
<td>15588</td>
<td>Mon/Wed/Fri 9:10 – 10:00 a.m., SLS 230</td>
<td>Colleen Monahan</td>
</tr>
</tbody>
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**BMS 658 – Medical Biochemistry**  
Credits: 3.00

Use of **body fluids to assess specific disease states** including the pathophysiology of the disease, pre-analytical issues, analytical methodologies, and instrumentation. Topics include the biochemistry of analytes (amino acids, proteins, enzymes, tumor markers, non-protein nitrogen metabolites, carbohydrates, lipids, electrolytes, blood gases, etc.), clinical endocrinology, toxicology and therapeutic drug monitoring.

Prereq: BMCB 658 and BMCB 659; BIOL 528; or equivalents.

BMS 658.01 (CRN 12040) – BMS:MLS majors only  
BMS 658.02 (CRN 13274) – all majors  
Mon/Wed/Fri 10:10 – 11:00 a.m., Rudman G89

Instructor: Michelle Labbe

**BMS 659 – Clinical Chemistry Laboratory**  
Credits: 2.00

**Measurement of blood analytes** such as proteins, glucose, electrolytes, and cholesterol, etc. **Screening for drugs** in urine and evaluation of clinical significance in human specimens. Principles of spectrometry, immunoassay, point-of-care testing, chromatography, mass spectrometry, electrophoresis, automation, and ion selective electrodes, with emphasis on instrumentation, quality control, and pre-analytical and analytical issues. Special fee.

Co-req: BMS 658  
BMS 659 (CRN 16785) Fri 12:10 - 3:00 p.m., Spaulding G27

Requires instructor permission.  
Instructor: Michelle Labbe

**BMS 644 – Clinical Hematology**  
Credits: 3.00

**Human blood cell physiology** in both health and disease. Includes benign and malignant conditions of red blood cells and white blood cells.

BMS 644.01 (CRN 12040) – BMS:MLS majors only  
BMS 644.02 (CRN 13274) – all majors  
Mon/Wed/Fri 9:10 – 10:00 a.m., MUB TH1

Instructor: Stephanie Clarke
BMS 704 – Pathological Basis of Disease
Credits: 4.00

This course explains the principles and mechanisms of disease at the cellular and tissue levels, including responses to cell injury, death and adaptation, inflammation, circulatory disturbances, disorders of the immune system, and neoplasia.

Prereq: ANSC 511/512 or BMS 507/508 are recommended, but not required.

BMS 704.01 (CRN 16787) – BMS:MVS majors only
BMS 704.02 (CRN 16788) – all but BMS:MVS majors
Mon/Wed/Fri 8:10 – 9:00 a.m., NHH G44

Instructor: David Needle
**BMS 719 – Host-Microbe Interactions**
Credits: 4.00

An examination of the way microorganisms interact with their hosts, with an emphasis on the pathogenic and commensal organisms of humans. Course material is introduced via reading, analysis and group presentations of primary scientific literature. Students are not only introduced to different types of host-microbe interactions, but different methods, systems and model organisms used to study these interactions.

Prereq: BMS 501 or BMS 503; GEN 604

**Only listed classes in section:** Junior, Senior  
**Only listed majors in section:** BMS:MEDLABSCI, BMS:MEDMICRO, BMS:MEDVETSCI, GENETICS

BMS 719 (CRN 14735) Mon/Wed/Fri 10:10 – 11:00 a.m., SLS 220  
Instructor: Timothy Montminy

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**GEN 705 – Population Genetics**
Credits: 3.00

GEN 705 is a newly designed class in Population Genetics. Learn how evolution shapes genetic variation within populations. In-depth discussions about both theoretical and practical implications of population genetics.

GEN 705 (CRN 16790) Tues/Thurs 2:10 – 3:30 p.m., DEM 253  
Instructor: Matt MacManes

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**GEN 725 – Population Genetics Lab**
Credits: 2.00

GEN 725 is a newly designed class in laboratory techniques in Population Genetics. You will collect live animals, extract DNA, and learn how to make sequencing libraries appropriate for the study of population genetics. You will sequence and analyze these samples and compare to previously collected data.

Co-req: GEN 705  
GEN 725 (CRN 16791) Mon 1:10 – 5:00 p.m., Rudman G51  
Instructor: Matt MacManes