

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 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

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
- BMCB 753
- BMS 503/504
- BMS 507
- BMS 655
- BMS 705/715
- GEN 604
- GEN 717

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

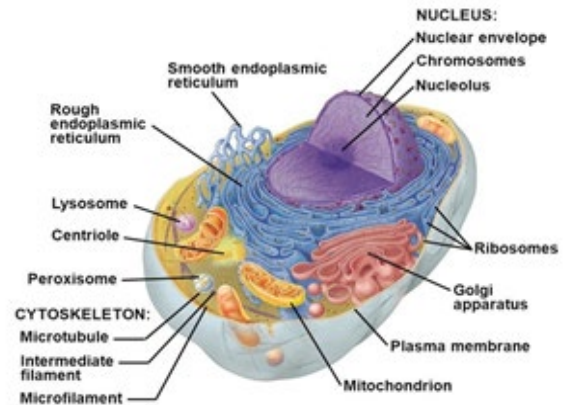
BMCB 605 – Principles of Cell Biology

Credits: 4.00

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.

BMCB 605 (CRN 16778), Mon/Wed/Fri 11:10 – 12:00 p.m.; NESM 125
Recitation M 1:10 p.m. – 2:00 p.m., JAMS G46

Instructor: Sarah Walker



BMCB 754 – Molecular Biology Research Methods

Credits: 5.00

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.**

Prereq: GEN 604

BMCB 754 (CRN 16780) Tues/Thurs 1:10 – 5:00 p.m., Rudman G51
Recitation Mon 9:10 – 10:00 a.m., HS 124

Instructor: Cheryl Whistler



BMS 623 – Histology: Microscopic Cellular Structure & Function

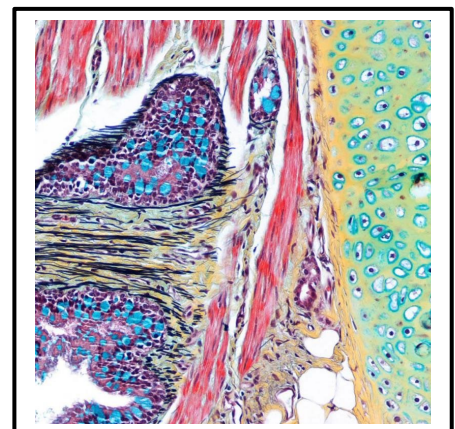
Credits: 4.00

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.**

Prereq: ANSC 511 & ANSC 512, or BMS 507 & BMS 508

BMS 623.1HY (CRN 15588) Mon/Wed/Fri 9:10 – 10:00 a.m., SLS 230

Instructor: Colleen Monahan



BMS 644 – Clinical Hematology

Credits: 3.00

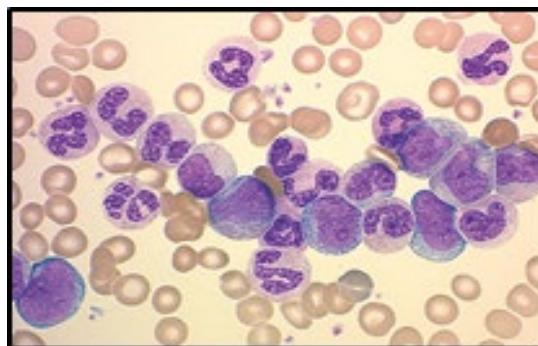
Human blood cell physiology in both health and disease. Includes benign and malignant conditions of red blood cells and white blood cells.

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 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 16783) – BMS:MLS majors only

BMS 658.02 (CRN 16784) – all but BMS:MLS 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 702 – Endocrinology

Credits: 4.00

Structure and function of vertebrate endocrine systems through the lens of physiology, biochemistry, and cell and molecular biology, with special reference to mammals.

Current investigations of the body's major endocrine glands, such as the brain, thyroid, pancreas, adrenals and gonads, as regulators and integrators of biological systems. BMS 605 recommended.

Prereq: BMS 658 or BMS 751

Only listed classes in section: Senior, Junior

BMS 702 (CRN 12506) Tues/Thurs 8:10 – 9:30 a.m., Rudman G89
Recitation W 12:10 – 1:00 p.m., Rudman G89

Instructor: Paul Tsang



BMS 703 – Infectious Disease and Health

Credits: 4.00

Principles underlying **the nature of infectious disease agents**, including representative parasites, fungi, bacteria, viruses, and prions. Established pathogens and emerging human and animal disease agents highlighting zoonotic diseases. Epidemiology, pathogenesis, host immune response, disease transmission, treatment, and control. Weekly review and discussion of current world disease events.

Prereq: BMS 503 and BMS 504

BMS 703 (CRN 16786) Tues/Thurs 2:10 – 3:00 pm., MURK G04
Recitation W 9:10 – 10:00 a.m., Rudman G89

Instructor: Cheryl Andam



Over two thirds of all human infectious diseases have their origins in animals. The rate at which these zoonotic diseases have appeared in people has increased over the past 40 years, with at least 43 newly identified outbreaks since 2004...

BMS 704 – Pathological Basis of Disease

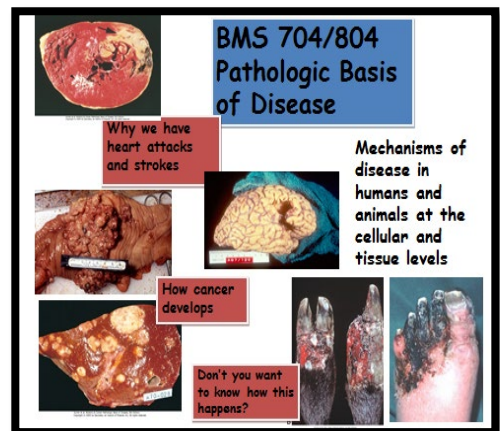
Credits: 4.00

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.

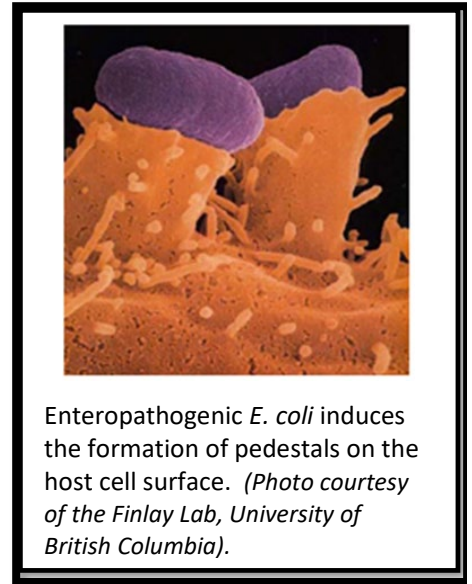
Prereq: BMS 501 or BMS 503; GEN 604

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



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



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

