



# MCBS FALL 2018 REGISTRATION NEWSLETTER

## REGISTRATION FOR FALL 2018

For a complete listing of courses, go to the [Fall 2018 Time and Room Schedule](#).

Registration windows open as follows:

- Seniors: 4/23 – 5/7
- Juniors: 4/25 – 5/7
- Sophomores: 4/30 – 5/7
- Freshman: 5/3 – 5/7
- Web registration reopens July 11<sup>th</sup> (8:00 AM) and closes September 4<sup>th</sup> (4:30 PM).

If you haven't already, set up an appointment soon with your academic advisor to discuss your fall courses and to obtain your RAC (Registration Access Code) for online registration.

## COURSES LIKELY TO REACH MAXIMUM CAPACITY (REGISTER EARLY!)

BMCB 658	<i>General Biochemistry</i>
BMCB 753	<i>Cell Culture</i>
BMS 501	<i>Microbes in Human Disease</i>
BMS 503	<i>General Microbiology</i>
BMS 507	<i>Human Anatomy &amp; Physiology</i>
BMS 620	<i>Tissue Engineering &amp; Cell Culture Lab</i>
BMS 655	<i>Human &amp; Animal Parasites</i>
BMS 705	<i>Immunology</i>
BMS 712	<i>Grand Rounds</i>
GEN 604	<i>Principles of Genetics</i>
GEN 711	<i>Genomics &amp; Bioinformatics</i>
GEN 717	<i>Molecular Microbiology (WI)</i>

## COURSES LIKELY TO HAVE ENROLLMENT CAPACITY

BMCB 751	<i>Principles of Biochemistry</i> – C. Denis
BMCB 763	<i>Biochemistry of Cancer</i> – B. Barth
BMCB 794	<i>Protein Structure &amp; Function</i> – F. Chu
BMS 635	<i>Preceptorial in Prehospital Care</i> – M.K. Lockwood
BMS 650	<i>Molecular Diagnostics</i> – Staff (ETS Discovery)
BMS 623	<i>Histology: Microscopic Cellular Structure and Function</i> – B. Stevens
BMS 656	<i>Immunohematology</i> – A. Marone
BMS 657	<i>Blood Banking Laboratory</i> – A. Marone
BMS 702	<i>Endocrinology</i> – P. Tsang
BMS 716	<i>Public Health: Food/Waterborne Disease</i> – A. Margolin
GEN 771	<i>Molecular Genetics</i> – J. Collins
GEN 772	<i>Evolutionary Genetics of Plants</i> – T. Davis

## MISCELLANEOUS

- If you are unable to register for an MCBS-sponsored course that is full, you can alert the instructor of your interest in gaining admission into the course with the online [Closed MCBS Course Form](#). Submitting this form does not ensure that you will be admitted into the course you desire. In fact, during the online registration period, your best strategy is to regularly check the availability of the course/section that you desire to get into, in the event that another student drops the course you want.
- Front pages of online [Fall '18 Time & Room Schedule](#)

## IMPORTANT CHANGES IN COURSE SCHEDULING

- GEN 771 *Molecular Genetics* will now be offered BOTH fall and spring semesters
- BMS 703 *Infectious Disease and Health* will NOT be offered in fall 2018
- INCO 403 *Healthcare Professions Seminar* is moving from spring to fall semester
- BMS 623 *Histology: Microscopic Cellular Structure & Function* is moving from spring to fall semester

# Selected courses being offered in the Fall 2018 semester

## **BMCB 794 – Protein Structure and Function**

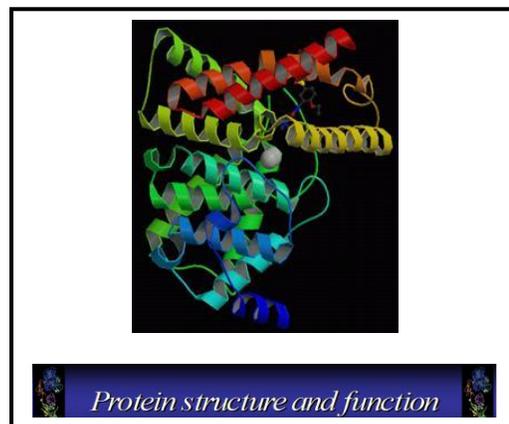
Credits: 4.00

Analysis of how the three-dimensional architecture of soluble and membrane proteins contributes to their biochemical function. Topics include methods for determining the structure of proteins, protein folding, protein targeting, and mechanisms of enzyme catalysis. Computer resources will be used for protein modeling and structural prediction. Prereq: BMCB 658 or 751.

BMCB 794 (CRN 14825)

Mondays/Wednesdays 3:10-4:30 p.m.; Rudman 110;

Instructor: Feixia Chu



## **BMS 702 - Endocrinology**

Credits: 4.00

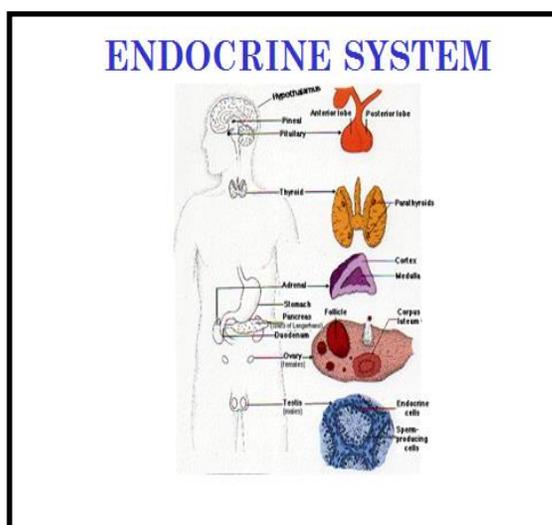
Biochemical and molecular structure and function of vertebrate endocrine systems. Influence of endocrine system on the physiology of vertebrates, with special reference to mammals. Current investigations of the endocrine system as a regulator and integrator of body functions including such systems as growth, reproduction, metabolism, differentiation, and behavior. Prereq: BMCB 658 or 751;/or permission.

BMS 702 (CRN 12755)

TR 8:10-9:30 a.m.; Rudman G89

and W 12:10-1:00 p.m.; Rudman G89

Instructor: Paul Tsang



## **BMS 716 – Public Health: Food and Waterborne Diseases**

Credits: 4.00

This course has three sections: 1) government, 2) disease and epidemiology, and 3) sources of anthropogenic (of human origin) microbial pollution, control and disinfection. The overall theme of the class is to understand how and why waterborne (virus, protozoal, and bacterial) and some food-borne diseases are still prevalent within our society. The class usually goes on at least two field trips, to a wastewater plant and a drinking water plant; at times students may be asked to go to town meetings or public hearings concerning water and pollution. In lab, students do experiments and then analyze their data and share it with the rest of the class by posting it on the class Web site. Prereq: BMS 503. Writing Intensive. Special fee.

BMS 716 (13618)

TR 12:40-2:00 p.m.; Spaulding G16

T 2:10-4:00 p.m.; Rudman G44

Instructor: Aaron Margolin



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### BMS 719 – Host-Microbe Interactions

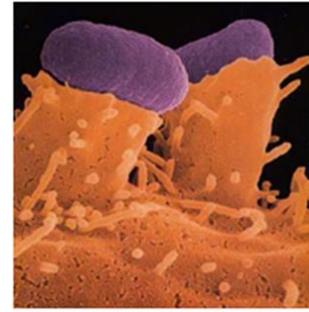
Credits: 4.00

This inquiry-based course is designed for students interested in microbial pathogenesis and host-microbe interactions. The course will examine the way microorganisms interact with their hosts, with an emphasis on the pathogenic and commensal organisms of humans. Course material will be introduced via reading, analysis, and group presentations of primary scientific literature. You will not only be introduced to different types of host-microbe interactions, but also different methods, systems and model organisms used to study these interactions. Prereq: BMS 501/503 and BMS 602.

BMS 719 (CRN 15505)

Mondays/Wednesdays/Fridays 10:10-11:00 a.m.; Spaulding 230

Instructor: Timothy Montminy



Enteropathogenic *E. coli* induces the formation of pedestals on the host cell surface. (Photo courtesy of the Finlay Lab, University of British Columbia).

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

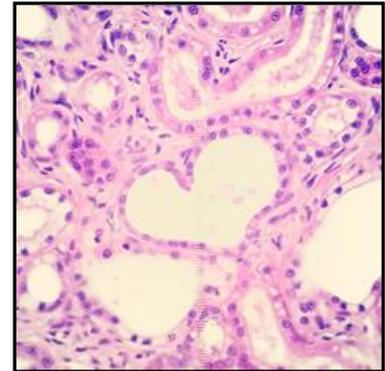
Credits: 4.00

This course will not only study the beautiful **structure of cells at the microscopic level**, but also investigate **how each cell type differs** and how these differences allow organ systems to function in unique ways. Histology is typically learned through the lenses of a microscope, so an **online laboratory** component utilizing digital microscopic images will help build on topics covered in lecture and allow students to practice their cell identification skills. Prereq: ANSC 511 & 512 or BMS 507 & 508.

BMS 623 (CRN 17007)

Mondays/Wednesdays/Fridays 8:10 – 9:00 a.m.; Spaulding 230

Instructor: Brian Stevens



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### GEN 772 – Evolutionary Genetics of Plants

Credits: 4.00

What are the **mechanisms of genetic change** in plant evolution, domestication, breeding, and genetic engineering? Topics include Darwinian Theory; speciation and hybridization; origins and co-evolution of nuclear and organelle genomes; gene and genome evolution; transposable elements, chromosome rearrangements, and polyploidy. Lab gives direct experience with bioinformatics, and phylogenetics, as well as with writing and presentation skills. **Writing intensive.**

Prereq: GEN 604 or equivalent.

GEN 772 (CRN 15531)

Lecture: TR 2:10 – 3:30 p.m.; Spaulding 220

Lab: F 1:10 – 3:00 p.m.; Spaulding 220

Instructor: Thomas Davis

