

FACULTY/STUDENT INFORMATION FOR FALL 2016 REGISTRATION

You can now search for fall courses at: <http://courses.unh.edu/>

REGISTRATION FOR FALL 2016

Below we have provided a set of exciting courses that are being offered in Fall 2016. For a complete listing, please go to the [Fall 2016 Time and Room Schedule](#). Your registration window will open as follows:

- Seniors: 4/25 – 5/9
- Juniors: 4/27 – 5/9
- Sophomores: 5/2 – 5/9
- Freshman: 5/5 – 5/9
- Web registration reopens July 13th at 8 a.m. and closes September 6th at 4:30 p.m.

If you haven't already, please contact your academic advisor to discuss your fall courses and to obtain your RAC for online registration.

COURSES NEWLY AVAILABLE IN FALL 2016

BMCB 794 – Protein Structure & Function
BMS 635 – Preceptorial in Prehospital Care
BMS 716 – Public Health & Waterborne Diseases
NUTR 758 – Practicum in Weight Management

COURSES NOT BEING OFFERED IN FALL 2016

- BMCB 750 – Physical Biochemistry
- BMS 658 – Medical Biochemistry
- BMS 719 – Host-Microbe Interactions
- NUTR 740 – Nutrition for Children with Special Needs

COURSES LIKELY TO REACH MAXIMUM CAPACITY (REGISTER EARLY!)

BMCB 658/659	BMS 501	GEN 604	NUTR 400
BMCB 753*	BMS 503	GEN 705	NUTR 546
BMCB 754*	BMS 507	GEN 711	NUTR 550
	BMS 650	GEN 717	NUTR 560
	BMS 705/715		NUTR 650
	BMS 712		NUTR 700
			NUTR 775

*SEE INSTRUCTOR FOR PERMISSION

COURSES LIKELY TO HAVE ENROLLMENT CAPACITY

BMCB 751 – Principles of Biochemistry
BMCB 794 – Protein Structure & Function
BMS 610 – Biomedical Laboratory Management
BMS 650 – Molecular Diagnostics
BMS 656 – Immunohematology
BMS 657 – Blood Banking Laboratory
BMS 702 – Endocrinology
BMS 703 – Infectious Disease & Health
BMS 705 – Immunology
BMS 716 – Public Health & Waterborne Diseases
GEN 712 – Intro to Programming for Bioinformatics
GEN 771 – Molecular Genetics
NUTR 610 – Nutrition Education & Counseling
NUTR 650 – Life Cycle Nutrition
NUTR 750 – Nutritional Biochemistry
NUTR 773 – Clinical Nutrition

MISCELLANEOUS

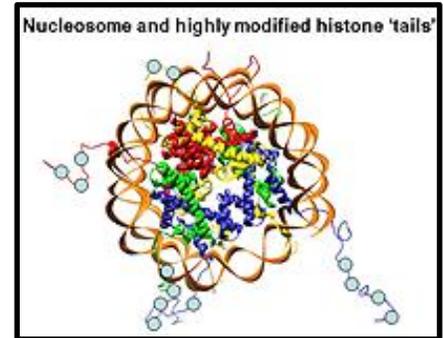
- Unable to register for an MCBS-sponsored course (BMCB, BMS, GEN, NUTR) that is full? Alert the instructor of your interest in gaining admission into the course with the online [Closed MCBS Course Form](#). Note that submitting this form does not ensure that you will be admitted into the course. In fact, during the online registration period, your best strategy is to regularly check the availability of the course/section that you desire to get into, in the event that another student drops the course.
- *For Chemistry courses that are full, contact Cindi Rohwer (cindi.rohwer@unh.edu) to be put on a waitlist.*

Selected courses being offered in Fall 2016 semester

BMCB 794 – Protein Structure & Function

Credits: 4.0

Course Description: The enzymatic, scaffolding, trafficking and regulatory functions of proteins are carried out on the 3D structure of proteins and proteins complexes. The structural multiplicity of proteins, through modifications and interactions, provide additional mechanisms to achieve function diversity without genome expansion. This course integrates multiple protein structure visualization and characterization tools for protein function prediction and analysis. Topics to be covered include protein visualization, homology and fold identification, structure prediction, protein complex analysis, proteomics analysis and biological applications. *Prerequisite:* BMCB 658 or BMCB 751, or by permission. For more information, contact Feixia Chu (603-862-2436, feixia.chu@unh.edu).



BMCB 794.01 (16826)

Monday/Wednesday 3:10-4:30 p.m., Rudman 381

Instructor: Feixia Chu

BMS 644 – Hematology

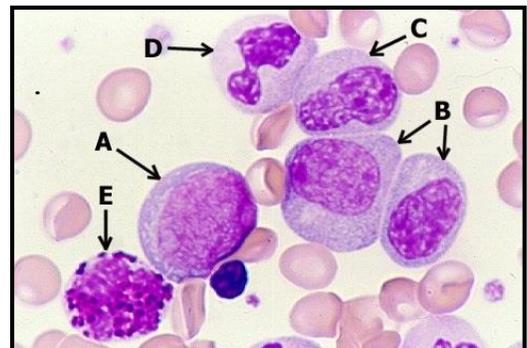
Credits: 4.0

Human blood cell physiology in both health and disease. Includes all benign and malignant conditions of red blood cells, white blood cells, platelets, and hemostasis factors.

BMS 644.01 (12679); BMS 644.02 (14483)

Monday/Wednesday 9:10-11 a.m., Rudman G89

Instructor: Stephanie Clarke



BMS 655 – Human and Animal Parasites

Credits: 3.0

Introduction to the parasitic process in humans and different animals indigenous to domestic and foreign areas of the world. Topics include epidemiology, infection, control, genetics, immunology as well as global economic consequences. Prereq: BMS 503.

BMS 655.01 (15886)

Tuesday/Thursday 11:10 a.m.-12:30 p.m., Rudman 110

Instructor: Aaron Margolin



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; will highlight zoonotic diseases. Will include epidemiology, pathogenesis, host immune response, disease transmission, treatment, and control. Weekly review and discussion of current world disease events using the Program for Monitoring in Emerging Infectious Diseases (ProMED) as a resource. Prereq: BMS 503.

BMS 703 (CRN 14617)

Tuesday/Thursday 3:40-5:00 p.m., Spaulding 220

Wednesday 9:10-10:00 a.m., Spaulding G16

Instructor: Jeffrey Foster



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 712 – Grand Rounds

Credits: 2.00

Interactive presentation and observation of disease through pathological examination of animals submitted to the NH Veterinary Diagnostic Lab for necropsy. Discussion of underlying pathogenesis of diseases and disorders. Examination of archived gross and digital tissue specimens. Integrates aspects of anatomy, physiology, microbiology, immunology, and other core sciences as well as medical ethics and social issues. Intended for those in pre-professional medical, dental, pharmacy, veterinary and biomedical fields. Prereq: BMS 507/508 or ANSC 511/512. May be repeated up to a maximum of 4 credits. Instructor permission required.



BMS 712 (CRN 14582)

Wednesday 2:10-3:30 p.m.; VDL 111

Instructor: Inga Sidor

BMS 716 – Public Health: Food-Waterborne Diseases

Credits: 4.00

This course has three sections: 1) government, 2) disease and epidemiology, and 3) sources of anthropogenic (of human origin) pollution. The overall theme is to understand how and why food-borne and water-borne agents (virus, protozoal, and bacterial and toxic material) are still prevalent within our society and cause disease. The class includes field trips to wastewater plants and/or drinking water plants, town meetings and/or public hearings on government policy. Students will be working in small groups to develop a public health-based project. Limited laboratory exercises as needed to support public health related projects. The class fulfills the capstone requirement. Prereq: BMS 503. Special fee. Writing intensive.



BMS 716 (CRN 14487)

Tuesday/Thursday 12:40-2 p.m., Rudman 110

Tuesday 2:10-4:00 p.m., Rudman 110

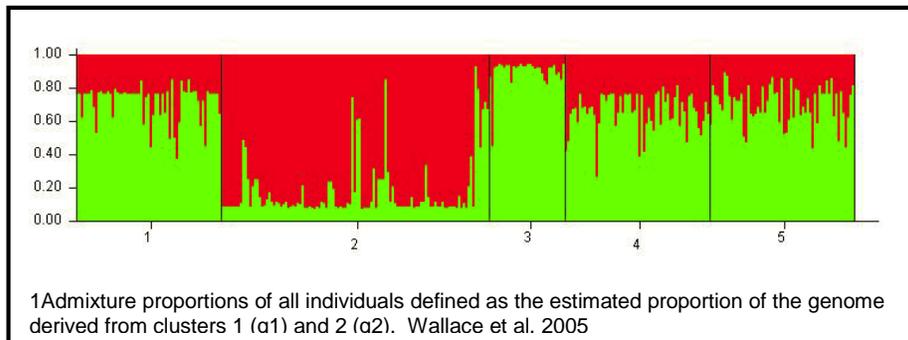
Instructor: Aaron Margolin

GEN 705 – Population & Quantitative Genetics

Credits: 4.00

An introduction to the theory and application of population and quantitative genetics. Exploration of the forces (mutation, selection, random drift, inbreeding, assortative mating) affecting the frequency and distribution of allelic variation in natural populations. Quantifying the structure of populations. Analysis of continuous variation in populations

simultaneously at multiple loci, interactions between genes and their environment underlying phenotypic variation. Methods of analysis for theoretical and practical applications. Prereq: GEN 604; one semester of statistics and calculus recommended. Lab. (Not offered every year.)



GEN 705 (CRN 15346)

Tuesday/Thursday 2:10-3:30 p.m.; Kingsbury N134

Monday 4:10-5:00 p.m.; Kingsbury N134

Instructor: Anita Klein

GEN 771 – Molecular Genetics

Credits: 4.00

Structure, organization, replication, dynamics, and expression of genetic information in eukaryotes. Focus on molecular genetic mechanisms of gene expression and its control; molecular genetics methods; molecular genetic control of cell division and differentiation during development. Prereq: BMCB 658 or 751; GEN 604/or permission.



GEN 771 (CRN 11274)

Tuesdays/Thursdays 11:10 a.m.-12:00 p.m.; Kingsbury N101

Instructor: John Collins

NUTR 546 – Nutrition in Exercise and Sports

Credits: 4.00

Advanced nutritional strategies to optimize health, fitness, and athletic performance. Emphasis is on nutrition before, during, and after exercise for fitness, training, and competitions. Topics include optimal amounts of timing of dietary carbohydrates and proteins around the training period. Vitamins, minerals, and other dietary supplements are discussed. So are healthy strategies for building muscle and losing body fat.



NUTR 546 (12953)

Tuesday/Thursday 3:40-5 p.m., Pettee G10

Instructor: Kevin Pietro
