You can now search for spring courses at: [http://courses.unh.edu/](http://courses.unh.edu/)

**Registration for Spring 2016**

Registration windows open as follows:
- Seniors: 11/23 (7 a.m. – 12/2 (11:59 p.m.)
- Juniors: 11/30 (7 a.m.) – 12/2 (11:59 p.m.)
- Sophomores: 12/8 (7 a.m.) – 12/10 (11:59 p.m.)
- Freshman: 12/3 (7 a.m.) – 12/7 (6 p.m.)
- Web registration reopens 12/11/15 at 8 a.m. and closes 2/2/16 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. Some faculty use Timecat to schedule appointments with their advisees.

**New & Notable for Spring 2016**
- BMS 635 – Preceptorial in Prehospital Care (Katherine Lockwood)
- BMCB 763 – Biochemistry of Cancer (Brian Barth)
- BMCB 714 – Electron Microscopy/Lab (Wayne Fagerberg)

**Courses Not Offered in Spring 2016**
- GEN 711 – Genomics & Bioinformatics
- GEN 774 – Plant Biotechnology & Genetic Engineering
- NUTR 758 – Practicum in Weight Management

**Courses Likely to Have Enrollment Capacity**

- BMCB 752 – Principles of Biochemistry II – F. Chu
- BMCB 755 – Lab Biochem. & Molecular Biology – C. Denis
- BMCB 794 – Protein Structure & Function – T. Laue
- BMS 704 – Pathologic Basis of Disease – D. Needle
- BMS 706 – Virology – A. Margolin
- BMS 730 – Ethical Issues in Biomedical Science – T. Pistole
- GEN 704 – Genetics of Prokaryotic Microbes – C. Whistler
- GEN 706 – Human Genetics – E. Stelmac & W.K. Thomas
- GEN 721 – Comparative Genomics – D. Plachetzki
- NUTR 476 – Nutritional Assessment – M. Dylewski
- NUTR 505 – ServSafe – C. Janson-Sand
- NUTR 730 – From Seed to Sea: Examining Sustainable Food Systems – J. Burke

**Miscellaneous**

- Unable to register for an MCBS-sponsored course that is full? 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. For Chemistry courses, contact Cindi Rohwer (cindi.rohwer@unh.edu) to be put on a waitlist.

Please see the following pages for highlights of some of the exciting courses being offered in Spring 2016.
Selected courses being offered in Spring 2016 semester

**BMCB 755 – Lab in Biochemistry and Molecular Biology**
Credits: 5.00
Application of modern techniques to the characterization and purification of biomolecules, with an emphasis on proteins and nucleic acids; analysis of enzyme kinetics; and basic techniques used in molecular biology. (Majors anticipating taking BMCB 799 should take this course in their junior year.)
Prereq: BMCB 751-752/or permission. BMCB 752 may be taken concurrently with BMCB 755. Special fee. Writing intensive.
BMCB 755 (CRN 52648)
Mon/Wed 1:10-5 p.m.; Spaulding G11 and Fri 1:10-2 p.m.; Spaulding 220
Instructor: Clyde Denis

**BMCB 763 – Biochemistry of Cancer**
Credits: 4.00
Evaluation of the hallmarks of cancer, including molecular mechanisms of carcinogenesis, roles of oncogenes and dysregulated cell development, function and metabolism, tumor immunology, and the biological basis of cancer therapy. Prereq: BMCB 658 or BMCB 751, or permission.
BMCB 763 (CRN 57034)
Tues 11:10-12:30 p.m. and Thurs 11:10-1:30 p.m.; Rudman G89
Instructor: Brian Barth

**BMS 704 – Pathologic Basis of Disease**
Credits: 4.00
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 is recommended, but not required.
BMS 704 (CRN 52760/54365)
Mon/Wed/Fri 9:10-10 a.m.; PCAC A218
Instructor: David Needle
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. 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.

BMS 712 (CRN 55171)
Wed 2:10-3:30 p.m.; VDL 111
Instructor: Brian Stevens

BMS 740 – The Human Microbiome
Credits: 4.00
The human microbiome is a new, rapidly growing field of microbiology that has already made important contributions to the understanding of human health. This capstone laboratory course will utilize current research methodology to investigate the microbiome of the human skin. Students will gain hands-on experience in PCR, genomics, bioinformatics, and modern clinical identification techniques. They will also generate primary data allowing them to make their own contribution to this important field of research.

BMS 740 (CRN 55461)
Tues/Thurs 2:10-5 p.m.; Rudman G40
and Wed 10:10-11 a.m.; Rudman 281
Instructor: Tim Montminy

GEN 704 – Genetics of Prokaryotic Microbes
Credits: 5.00
Study of the maintenance, exchange, and expression of genetic material in bacteria and their viruses. Combines a historical overview on the important role microbial genetics played in the development of modern molecular biology with a contemporary perspective on the methods used to understand the function of genes. Particular emphasis is placed on current experimental applications to basic science, biomedical research, and biotechnology. Prereq: BMCB 658 and BMS 503. Lab. Special fee.

GEN 704 (52000)
Mon/Wed/Fri 11:10 a.m.-12 p.m.; Rudman G89
and Wed 1:10-5 p.m.; Rudman G40
Instructor: Cheryl Whistler
GEN 721 – Comparative Genomics
Credits: 4.00
An overview of the central questions and themes in contemporary comparative genomics. Topics span a broad range of questions and methodologies including: genome biology and evolution; phylogenomics; human origins; population genomics; and, ecological genomics. This course is designed to provide the conceptual framework required to evaluate exciting new work in this fast-changing field.

GEN 721 (55462)
Mon/Wed/Fri 11:10 a.m.-12 p.m.; Kingsbury N134
and Mon 1:10-2 p.m.; Spaulding 230
Instructor: David Plachetzki

GEN 772 – Evolutionary Genetics of Plants
Credits: 4.00
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, polyploidy. Lab: bioinformatics, phylogenetics, writing and presentation skills. Prereq: GEN 604 or equivalent. Lab. Special fee. (Not offered every year.)
Writing intensive.

GEN 772 (56963)
Tues/Thurs 9:40-11 a.m.
and Fri 1:10-3 p.m.; Rudman 110
Instructor: Thomas Davis

NUTR 730 – From Seed to Sea: Examining Sustainable Food Systems
Credits: 4.00
Food system structure and function from a coupled human and natural systems perspective. Topics include: an exploration of using natural resources to meet growing population demands; conflicting views on meeting food and nutrition requirements; impacts of increased stress on natural resources; inequities and discrimination in the food system; impact of dietary guidelines on the environment. Study of diverse human and natural system interactions are integrated to understand issues in food system sustainability.

NUTR 730 (CRN 54554)
Tues/Thurs 8:10-9:30 a.m.
and Tues 9:40-10:30 a.m.; Spaulding G16
Instructor: Joanne Burke
INCO 403 – Healthcare Professions Seminar
Credits: 2.00
This seminar is highly recommended for undergraduate students in the initial phases of preparation for a career in medicine (including allopathic, osteopathic, chiropractic, or naturopathic), dentistry, podiatry, optometry, physician’s assistant, or pharmacy. Students are typically expected to register for the course in the spring semester of their sophomore year, but upper-class students or those interested in the topics are also welcome. Through readings, discussions, and guest lectures, students will become informed about current topics in the healthcare professions, requirements for admission to degree programs, and how to become a competitive applicant. Cr/F.

INCO 403.01 (CRN 52074)
Mon 6:10-7:30 p.m.; Spaulding 120 and Wed 6:10-7 p.m.; Rudman G89

INCO 403.02 (CRN 52075)
Mon 6:10-7:30 p.m.; Spaulding 120 and Wed 7:10-8 p.m.; Rudman G89
Instructors: Mary Katherine Lockwood/Stacia Sower