BIOMEDICAL SCIENCE (BMS)

Course numbers with the # symbol included (e.g. #400) have not been taught in the last 3 years.

BMS 401 - Professional Perspectives in Biomedical Sciences
Credits: 1
Introduction to the major and the options in Biomedical Sciences. Strategies for successfully achieving academic and professional goals in the biomedical sciences. Professional opportunities for BMS majors are presented. Cr/F.
Equivalent(s): MEDT 401, MLS 401

BMS 405 - In Sickness and in Health: Understanding Why Bodies Fail
Credits: 4
This course describes the basic structure and function of various organs and systems, then discuss many common diseases and conditions that impact humans, such as meningitis, Alzheimer's, diabetes, HIV/AIDS, asthma, and schizophrenia. Primary focus is on the physical process of disease but the course will also examine the emotional and social impact of certain diseases.
Attributes: Biological Science(Discovery)

BMS 407 - Germs 101
Credits: 4
Societal and technological impact of the invisible microbial world on our lives and on the planet. Weekly extra-class activities enable students to use the scientific method of inquiry to explore topics like bacteria that use sunlight to live or use of bacteria in genetic engineering. Presents germs from different perspectives: as living organisms, as human enemies or friends, and as represented in newspapers or on TV. Especially useful for people with microphobia. No credit for BMS or Biology majors. Special fee.
Attributes: Biological Science(Discovery)
Equivalent(s): BIOL 407, BMS 408, MICR 407

BMS 408 - Germs 101
Credits: 4
Online version of BMS 407. Societal and technological impact of the invisible microbial world on our lives and on the planet. Weekly extra-class activities enable students to use the scientific method of inquiry to explore topics like bacteria that use sunlight to live or use of bacteria in genetic engineering. Presents germs from different perspectives: as living organisms, as human enemies or friends, and as represented in newspapers or on TV. Especially useful for people with microphobia. No credit for BMS or Biology majors. Special fee.
Attributes: Biological Science(Discovery)
Equivalent(s): BIOL 407, BMS 408, MICR 407

BMS 501 - Microbes in Human Disease
Credits: 0 or 4
Identification, pathogenesis, epidemiology, treatment, and prevention of medically important microorganisms. The biology of clinically relevant bacteria, viruses, fungi, and parasites is presented in relation to disease progress and host defense mechanisms. Clinical correlations that indicate microbes are causative agents of disease are emphasized. The laboratory introduces techniques for identification of pathogenic microorganisms to reinforce and expand the theoretical content. Special fee. Lab.
Attributes: Biological Science(Discovery); Discovery Lab Course
Equivalent(s): BMS 501H, MICR 501, MICR 501H, MICR 502

BMS 503 - General Microbiology
Credits: 3
Principles of microbiology; morphology, physiology, genetics, culture, and classification of bacteria and other microorganisms; relationships of microbes to agriculture, environment, industry, sanitation, and infectious diseases. Prereq: BIOL 411 and BIOL 412 or equivalent; CHEM 403 and CHEM 404 or equivalents.
Co-requisite: BMS 504
Equivalent(s): MICR 503

BMS 504 - General Microbiology Laboratory
Credits: 2
Practical laboratory training in general microbiology. Topics include safe handling, visualization, and physiological identification of microorganisms with special attention given to aseptic technique. Prereq: BIOL 411 and BIOL 412 and CHEM 403 and CHEM 404 or equivalents.
Coreq: BMS 503. Special fee.

BMS 507 - Human Anatomy and Physiology I
Credits: 0 or 4
Cellular and systematic aspects of the human body. Laboratory exercises utilize preserved specimens, dissectible models, living tissue and computer-aided instruction. Systems covered include: the cell, chemistry, tissues, integument, osseous tissue and the skeleton, muscular tissue and muscles, nerves, the brain, spinal cord, autonomic nervous system, and special senses. Lab. Special fee.
Attributes: Biological Science(Discovery); Discovery Lab Course
Mutual Exclusion: No credit for students who have taken ANSC 511.

BMS 508 - Human Anatomy and Physiology II
Credits: 0 or 4
Cellular and systematic aspects of the human body. Laboratory exercises utilize preserved specimens, dissectible models, living tissue and computer-aided instruction. Systems covered include: endocrine, blood, cardiovascular, respiratory, immune, digestive and metabolism, urinary, acid-base and electrolyte balance, reproductive. Prereq: BMS 507. Lab. Special fee.
Attributes: Biological Science(Discovery); Discovery Lab Course
Mutual Exclusion: No credit for students who have taken ANSC 512.

BMS 560 - Body Fluids
Credits: 3
The study of diseases and disorders through the analysis of extra-vascular body fluids. Emphasizes renal anatomy and physiology, and diseases and metabolic disorders affecting renal function.
Equivalent(s): BMS 660, MEDT 665, MLS 660, MLS 665

BMS 561 - Body Fluids Laboratory
Credits: 1
Practical experience in the performance and clinical correlation of urinalysis and selected body fluid procedures. Special fee.
Co-requisite: BMS 560
Equivalent(s): BMS 661, MEDT 665, MLS 661, MLS 665

BMS 600 - Field Experience
Credits: 1-4
Supervised experience providing the opportunity to apply academic experience in settings associated with future professional employment and/or related graduate opportunities. Must be approved by a faculty advisor selected by the student. Only 4 credits can be used toward the major. Permission required. Cr/F.
Repeat Rule: May be repeated for a maximum of 8 credits.
Equivalent(s): BMS 600W, MICR 660, MICR 660W
BMS 601 - Bacteriology of Food
Credits: 0 or 5
Lectures and laboratories address modern technical concepts of microbiology, physiology, and biochemistry related to food sanitation. Theoretical and practical approach serves as an integrative experience. Food sanitation is a serious public health issue in the meat, dairy, fish, and water industries. Benefits students seeking employment in public health or sanitary microbiology fields. Topics include food as a substrate for microorganisms, causes of food spoilage, food borne disease outbreaks, public health complications, isolation and identification of food spoilage microorganisms, and essentials for food safety and sanitation. Prereq: BMS 503 and BMS 504 or equivalent. (Not offered every year.) Special fee. UNHM only.
Equivalent(s): MICR 603

BMS 602 - Pathogenic Microbiology
Credits: 3
An introduction to microbial disease, with a focus on bacterial and viral diseases in humans and animals. This course examines the clinical presentation, laboratory diagnosis, and treatment of specific microbial pathogens. Molecular aspects of both microbial infection and host immune response are discussed. Case studies based on real clinical and research microbiology problems are presented. Prereq: BMS 501, or BMS 503 and BMS 504.
Equivalent(s): MICR 602, MICR 700, MICR 800

BMS 603 - Pathogenic Microbiology Laboratory
Credits: 2
An introduction to morphologic, cultural, biochemical and pathogenic characteristics of microorganisms causing human and animal diseases. Laboratory exercises focus on both classical and modern laboratory diagnostic testing. Prereq: BMS 501, or BMS 503 and BMS 504. Special fee.
Co-requisite: BMS 602

BMS 610 - Biomedical Lab Management
Credits: 4
Overview of biomedical laboratory management, including lab operation, compliance, financial management, personnel management, information systems, and leadership. Writing intensive.
Attributes: Writing Intensive Course
Equivalent(s): MEDT 610, MLS 610

BMS 623 - Histology: Microscopic Cellular Structure and Function
Credits: 4
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. Prereq: ANSC 511 and ANSC 512, or BMS 507 and BMS 508. Hybrid course with online lab.

BMS 635 - Preceptorial in Prehospital Care
Credits: 2
Practice and evaluation of prehospital care. Understand the roles of different provider levels in a healthcare setting. Students participate in ambulance activities, then discuss assessment and treatment of patients in the prehospital setting. Licensure by the New Hampshire Bureau of EMS required before course start date. Prereq: KIN 684 and KIN 685 or equivalent. Cr/F.
Repeat Rule: May be repeated for a maximum of 4 credits.

BMS 640 - Phlebotomy Theory
Credits: 2
Theory and demonstration of procedures involved in blood collection with an emphasis on safety and professionalism. Hands-on practice of selected techniques. Special fee.
Equivalent(s): MLS 640, MLS 650A

BMS 641 - Phlebotomy Clinical Internship
Credits: 1-2
Students obtain experience and proficiency in routine blood collection techniques at a health care facility (80 to 120 hours). Prereq: BMS 640. Special fee. Cr/F.
Equivalent(s): MLS 641, MLS 650B

BMS 642 - Clinical Immunology and Serology
Credits: 2
Innate and specific immunity in the context of chemical and cellular responses to antigenic challenge. Also introduces the immunologic basis of autoimmunity, immune proliferation and deficiency, and hypersensitivity. Current clinical analytical methodologies and diagnostic criteria used to identify, differentiate and/or monitor these responses and conditions included. Prereq: BIOL 411 and BIOL 412, or BMS 507 and BMS 508, or ANSC 511 and ANSC 512.
Equivalent(s): MEDT 651, MLS 642, MLS 651

BMS 643 - Clinical Hematology
Credits: 3
Human blood cell physiology in both health and disease. Includes benign and malignant conditions of red blood cells and white blood cells.
Equivalent(s): MLS 644, MLS 652

BMS 644 - Clinical Hematology Laboratory
Credits: 2
Performance, interpretation and application of serological techniques for the diagnosis of immune system disorders. Special fee.
Co-requisite: BMS 642
Equivalent(s): MEDT 651, MLS 643, MLS 651

BMS 645 - Clinical Hemostasis
Credits: 2
Analysis of whole blood for cellular components with special emphasis on differentiating benign from malignant processes, as well as cellular identification by morphologic characteristics and cytochemical staining. Special fee.
Equivalent(s): MLS 645, MLS 652L

BMS 646 - Clinical Hemostasis
Credits: 1
Introduction to hemostasis through evaluation of platelets, blood vessels, coagulation factors and fibrinolysis, including dysfunction and disease states. Pre- Coreq: BMS 644 or permission.

BMS 650 - Molecular Diagnostics
Credits: 4
Fundamental principles of molecular technology and techniques used in clinical laboratories such as nucleic acid extraction, DNA amplification, sequencing and hybridization, gel electrophoresis, and chromosome analysis. Prediction and detection of human disease (infectious disease, cancer, and other inherited disease), identity testing, molecular epidemiology, pharmacogenetics, and ethical issues. Previous knowledge of genetics and biochemistry lab techniques is highly recommended.
Attributes: Environment, TechSociety(Disc)
Equivalent(s): BMS 755, BSCI 765, MLS 755
BMS 655 - Human and Animal Parasites
Credits: 3
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, and immunology, as well as global economic consequences. Prereq: BMS 503 and BMS 504.

BMS 656 - Immunohematology
Credits: 3
The immunology of blood, including blood group systems and the critical role they play in safe transfusion medicine. Additional topics include blood collection, component use, transfusion reactions, and transfusion-transmitted infections.
Equivalent(s): MEDT 653, MLS 653, MLS 656

BMS 657 - Blood Banking Laboratory
Credits: 1
Hands-on experience in clinical blood banking practices including blood typing, antibody screening and identification, cross matching, and confirmatory testing. Special fee.
Co-requisite: BMS 656
Equivalent(s): MEDT 653, MLS 653, MLS 657

BMS 658 - Medical Biochemistry
Credits: 3
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 659 - Clinical Chemistry Laboratory
Credits: 2
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-requisite: BMS 658
Equivalent(s): MLS 654L, MLS 659

BMS 699 - Independent Study in Biomedical Science
Credits: 1-6
In-depth studies under faculty supervision. Permission required. Cr/F.
Repeat Rule: May be repeated for a maximum of 16 credits.
Equivalent(s): BMS 696, BMS 696W, BMS 699W

BMS 699W - Independent Study in Biomedical Science
Credits: 1-6
In-depth studies under faculty supervision. Permission required. Writing intensive. Cr/F.
Attributes: Writing Intensive Course
Repeat Rule: May be repeated for a maximum of 16 credits.
Equivalent(s): BMS 696, BMS 696W, BMS 699

BMS 702 - Endocrinology
Credits: 4
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. BMCB 605 recommended. Prereq: BMCB 658 or BMCB 751.
Equivalent(s): ANSC 702, BCHM 702

BMS 703 - Infectious Disease and Health
Credits: 4
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.
Equivalent(s): MICR 705

BMS 704 - Pathologic Basis of Disease
Credits: 4
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. ANSC 511 and ANSC 512, or BMS 507 and BMS 508 recommended.
Equivalent(s): ANSC 704

BMS 705 - Immunology
Credits: 3
An introduction to the fundamental mechanisms of immune function. Topics include the cells and organs of the immune system, humoral and cellular immune responses, the generation of immune cells, and how immune cells fight various infectious pathogens. Coreq: BMS 715 for BMS:MM majors only. Prereq: BMS 503 and BMS 504.
Equivalent(s): MICR 705

BMS 706 - Virology
Credits: 3
Equivalent(s): MICR 706

BMS 707 - Virology Laboratory
Credits: 2
Co-requisite: BMS 706
Equivalent(s): MICR 708

BMS 711 - Toxicology
Credits: 4
Examination of mechanisms by which chemicals and other toxicants produce adverse effects in biological systems. Consideration of toxicant exposure and absorption, systemic and cellular distribution and metabolism, altered cellular mechanisms, and systemic and organ-specific effects of toxicity. Case-based discussions of toxicants affecting humans and other species in environmental and clinical contexts. Prereq: BMCB 658.
BMS 712 - Experiences in Applied Veterinary Diagnostics
Credits: 2
Students interact with different components of a working veterinary diagnostic laboratory. Through group reviews of New Hampshire Veterinary Diagnostic Lab cases, students learn about diseases using cases tailored to individual student interests. Pathologists and NHVDL staff provide information on disease processes, pathogenesis, and testing modalities. Students observe diagnostic techniques and archived gross and digital tissue specimens. Emphasis is on integrating knowledge of anatomy, physiology, microbiology, immunology, etc. within the context of molecular pathogenesis. Prereq: BMS 507 and BMS 508, or ANSC 511 and ANSC 512.
Repeat Rule: May be repeated for a maximum of 4 credits. May be repeated up to 2 times.

BMS 715 - Immunology Laboratory
Credits: 2
This applied immunology laboratory course highlights both historic and current methodologies important for elucidation and diagnosis of immune function. Techniques used to study phagocytosis, antibody production, immunodiffusion, and T-cell function will be introduced. Applications of the antibody technologies to other scientific disciplines (ELISA, immunofluorescence microscopy, immunoblotting, etc.) will also be covered. Prereq: BMS 503 and BMS 504. Special fee.
Co-requisite: BMS 705
Equivalent(s): MICR 715

BMS 715W - Immunology Laboratory
Credits: 2
This applied immunology laboratory course highlights both historic and current methodologies important for elucidation and diagnosis of immune function. Techniques used to study phagocytosis, antibody production, immunodiffusion, and T-cell function will be introduced. Applications of the antibody technologies to other scientific disciplines (ELISA, immunofluorescence microscopy, immunoblotting, etc.) will also be covered. Prereq: BMS 503 and BMS 504. Special fee.
Co-requisite: BMS 705
Attributes: Writing Intensive Course

BMS 716 - Public Health: Food- and Water-borne Diseases
Credits: 0 or 4
How and why food-borne and water-borne agents (virus, protozoal, bacterial and toxic material) are still prevalent within our society with focus on the roles of government, disease and epidemiology, and sources of anthropogenic pollution. Field trips to wastewater plant and/or drinking water plant, town meetings and/or public policy hearings. Prereq: BMS 503 and BMS 504. Special fee. Lab. Writing intensive.
Attributes: Writing Intensive Course
Equivalent(s): MICR 714

BMS 717 - Mammalian Physiology
Credits: 4
Advanced study of the systems that control mammalian functions with emphasis on cellular and molecular mechanisms. Includes the nervous, muscular, cardiovascular, renal, gastrointestinal, and endocrine systems. Prereq: at least one semester of animal/human physiology, or one semester of anatomy and physiology. Permission required. Writing intensive.
Attributes: Writing Intensive Course
Equivalent(s): ANSC 718

BMS 718 - Mammalian Physiology
Credits: 4
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 and BMS 504; GEN 604.

BMS 720 - Mycology, Parasitology, and Virology
Credits: 3
Theoretical basis of the pathogenesis, epidemiology, and diagnosis of fungal, parasitic, and viral infections. Prereq: BMS 602 and BMS 603.
Equivalent(s): MEDT 720, MLS 720

BMS 721 - Mycology, Parasitology, and Virology Laboratory
Credits: 2
Practical experience in medical mycology and parasitology diagnostic techniques. Isolation and identification of mycological and parasitological specimens. Principles and practices of proper specimen collections, analysis, and interpretation of results. Special fee.
Co-requisite: BMS 720
Equivalent(s): MLS 720L, MLS 721

BMS 725 - Cell Phenotyping and Tissue Engineering Laboratory
Credits: 4
Introduction to culture and phenotyping of mammalian cells (cell line models), with applications to bioengineering and biomedical sciences. Skills, techniques, and knowledge covered include sterile technique, cell culture, cell line models, cell proliferation, cell survival, cell migration, cell adhesion, and drug response. Inquiry-based team projects investigate cell proliferation, cell death, transfection, flow cytometry, 3D scaffolds, or cell imaging.
Equivalent(s): BMS 620

BMS 730 - Ethical Issues in Biomedical Science
Credits: 4
An examination of the importance of scientific integrity in the biomedical sciences. Students are introduced to the ethical issues that scientists must be familiar with when conducting research. Issues include scientific record keeping, authorship and peer review, conflicts of interest, use of animals and humans in research, and recombinant DNA technology. Class is discussion-based, encouraging both an appreciation of established guidelines and an opportunity to critically examine them. Prereq: BIOL 411; GEN 604; BMS 503 and BMS 504. Writing intensive.
Attributes: Writing Intensive Course
Equivalent(s): MICR 718

BMS 740 - Human Microbiome
Credits: 4
The human microbiome is a new, rapidly growing field of microbiology that has already made important contributions to the understanding of human health. This laboratory course utilizes current research methodology to investigate the microbiome of the human skin. Students gain hands-on experience in PCR, genomics, bioinformatics, and modern clinical identification techniques. They also generate primary data to make their own contribution to this important field of research. Prereq: GEN 604; BMS 501, or BMS 503 and BMS 504. Special fee. Lab.
BMS 747 - Case Studies in Bloodbanking  
**Credits:** 1  
Patient case studies are analyzed in immunohematology. Correlation of patient history with clinical presentation and interpretation of clinical laboratory results. Learn to interpret given information, recognize abnormal results and their clinical significance, generate etiologic possibilities, and determine the best diagnosis for the patient condition including appropriate treatment and recommended follow-up testing.  
Prereq: BMS 656 and BMS 657.

BMS 748 - Case Studies in Medical Biochemistry  
**Credits:** 1  
Patient case studies are analyzed in medical biochemistry. Correlation of patient history with clinical presentation and interpretation of clinical laboratory results. Learn to interpret given information, recognize abnormal results and their clinical significance, generate etiologic possibilities, and determine the best diagnosis for the patient condition including appropriate treatment and recommended follow-up testing.  
Prereq: BMS 658 and BMS 659.

BMS 749 - Case Studies in Hematology and Immunology  
**Credits:** 2  
Patient case studies are analyzed in hematology and immunology. Correlation of patient history with clinical presentation and interpretation of clinical laboratory results. Learn to interpret given information, recognize abnormal results and their clinical significance, generate etiologic possibilities, and determine the best diagnosis for the patient condition including appropriate treatment and recommended follow-up testing.  
Prereq: BMS 642, BMS 643, BMS 644, and BMS 645.  
**Attributes:** Writing Intensive Course

BMS 750 - Case Studies in Microbiology  
**Credits:** 2  
Patient case studies are analyzed in microbiology. Correlation of patient history with clinical presentation and interpretation of clinical laboratory results. Learn to interpret given information, recognize abnormal results and their clinical significance, generate etiologic possibilities, and determine the best diagnosis for the patient condition including appropriate treatment and recommended follow-up testing.  
Prereq: BMS 602, BMS 603, BMS 720, BMS 721.  
**Attributes:** Writing Intensive Course

BMS 751 - Advanced Clinical Microbiology Internship  
**Credits:** 5  
Instruction and clinical practice of microbiology-related techniques and their applications in the medical laboratory setting. Includes the principles and practices of proper specimen collection, clinical diagnosis testing, and interpretation of results. Special fee.  
**Equivalent(s):** BMS 751W, MEDT 751, MLS 751, MLS 751W

BMS 752 - Advanced Hematology Internship  
**Credits:** 5  
Instruction and clinical practice of hematology-related techniques and their applications in the medical laboratory setting. Includes the principles and practices of special hematology procedures including diagnostic staining, advanced hemostasis studies, and evaluation of blood cells in disease states.  
**Equivalent(s):** BMS 752W, MEDT 752, MLS 752, MLS 752W

BMS 753 - Advanced Immunohematology Internship  
**Credits:** 5  
Introduction and clinical practice of immunohematology-related techniques and their applications in the medical laboratory setting. Includes the principles and practices of advanced blood-banking procedures, including antibody identification, and component therapy.  
**Equivalent(s):** BMS 753W, MEDT 753, MLS 753, MLS 753W

BMS 754 - Advanced Clinical Chemistry Internship  
**Credits:** 5  
Instruction and clinical practice of clinical chemistry-related techniques and their applications in the medical laboratory setting. Includes the principles and practices of advanced laboratory analysis of body fluid chemistries. Enzymology, isotopes, hormones, blood gases, and toxicology. Theory, operation, evaluation and maintenance of automated chemistry systems.  
**Equivalent(s):** BMS 754W, MEDT 754, MLS 754, MLS 754W

BMS 755 - Clinical Microbiology Internship  
**Credits:** 20  
Advanced instruction in clinical bacteriology, mycology, parasitology, and virology at local hospital or reference laboratory. Isolation, identification, and antibiotic sensitivities for common pathogens are emphasized. Special fee.  
**Equivalent(s):** BMS 754W, MEDT 761, MLS 754W, MLS 761
BMS 761W - Clinical Microbiology Internship
Credits: 20
Advanced instruction in clinical bacteriology, mycology, parasitology, and virology at local hospital or reference laboratory. Isolation, identification, and antibiotic sensitivities for common pathogens are emphasized. Special fee. Writing intensive.
Attributes: Writing Intensive Course
Equivalent(s): BMS 761, MEDT 761, MLS 761, MLS 761W

BMS 763 - Clinical Immunohematology Internship
Credits: 20
Advanced instruction in clinical immunohematology at a local hospital or reference laboratory. Pre-transfusion testing, donor screening, phlebotomy and component therapy emphasized. Special fee.
Equivalent(s): MEDT 763, MLS 763

BMS #764 - Clinical Chemistry Internship
Credits: 20
Advanced instruction in clinical chemistry at a local hospital or reference laboratory. Analysis of carbohydrates, proteins, enzymes, lipids, hormones, electrolytes, blood gases, and drugs. Special fee.
Equivalent(s): MEDT 764, MLS 764

BMS 790 - Undergraduate Teaching Experience
Credits: 1-4
Provide academic support to graduate teaching assistants or faculty in preparing, presenting, and executing Biomedical Science lectures or labs. Permission required.
Repeat Rule: May be repeated for a maximum of 4 credits.
Equivalent(s): MICR 790

BMS 795 - Investigations in Biomedical Science
Credits: 1-8
Advanced research or scholarly projects developed and conducted under the supervision of a faculty member. Provides the opportunity to apply knowledge and techniques of the major to a specific problem or question. Permission required.
Repeat Rule: May be repeated for a maximum of 8 credits.
Equivalent(s): BMS 795W, MICR 795, MICR 795W

BMS 795W - Investigations in Biomedical Science
Credits: 1-8
Advanced research or scholarly projects developed and conducted under the supervision of a faculty member. Provides the opportunity to apply knowledge and techniques of the major to a specific problem or question. Permission required.
Attributes: Writing Intensive Course
Repeat Rule: May be repeated for a maximum of 8 credits.
Equivalent(s): BMS 795, MICR 795W

BMS 796 - Biomedical Research Internship
Credits: 4-16
Advanced instruction/participation in some aspect of biomedical research at an off-campus location. Student designs program of study with research supervisor and BMS faculty advisor. Permission required.
Repeat Rule: May be repeated for a maximum of 16 credits.
Equivalent(s): MLS 796

BMS 799 - Senior Thesis
Credits: 1-4
Independent research project under the direction of a faculty sponsor for seniors in biomedical sciences. Final product is a written thesis. One or two semesters. Permission required.
Attributes: Writing Intensive Course
Repeat Rule: May be repeated for a maximum of 8 credits.
Equivalent(s): BMS 799H

BMS 799H - Senior Honors Thesis
Credits: 1-4
Independent research project under the direction of a faculty sponsor for seniors in biomedical sciences and in the Honors Program. Final product is a written thesis. One or two semesters. Permission required.
Attributes: Honors course; Writing Intensive Course
Repeat Rule: May be repeated for a maximum of 8 credits.
Equivalent(s): BMS 799