**BIOH - Biology-Human**

**BIOH 104IN Basic Human Biology w/lab: 4 Credits (3 Lec, 1 Lab)**
(F) This one-semester course focuses on learning scientific principles and a general understanding of human functional anatomy and physiological processes. Course material will cover several body systems including the skeletal, muscular, nervous, vascular, respiratory, digestive, and urinary systems and how they contribute to homeostasis of the body.

**BIOH 112 Human Form & Function I: 3 Credits (3 Lec)**
Human anatomy, physiology, and pathology: including etiology, prognosis, medical treatment, signs and symptoms of diseases of respiratory, endocrine, excretory, and reproductive systems. Proper diet and nutrition guidelines are also addressed. This course will focus on the key elements of anatomy and physiology necessary for students in allied health professions, specifically those who will work in the areas of community health, health enhancement education, health promotion, and kinesiology. The aim of this course is for students to demonstrate working knowledge of the muscular, skeletal, nervous, cardiovascular, and respiratory systems, and to demonstrate an understanding of the endocrine and digestive systems and body metabolism.

**BIOH 113 Human Form and Function II: 3 Credits (3 Lec)**
Human anatomy, physiology, and pathology; including etiology, prognosis, medical treatment, signs and symptoms of diseases of muscular, skeletal, nervous, cardiovascular, and lymphatic systems.

**BIOH 185 Integrated Physiology I: 4 Credits (3 Lec, 1 Lab)**
COREQUISITE: CHMY 141 or CHMY 151. How the human body works. For students planning to become health professionals. Includes basic cellular mechanisms, physiological control and communications. Major topics include muscle, nerve, respiratory, renal and cardiovascular systems. Cadaver laboratory will cover related human anatomy

**BIOH 201 Human Anatomy and Physiology I: 5 Credits (3 Lec, 2 Lab)**
PREREQUISITE: CHMY 121N, CHMY 141, or CHMY 151, with a grade of "C-" or better; priority given to majors requiring this course. General principles of cell and tissue biology that apply to all living systems. Structure and function of skeletal, muscular, nervous, and endocrine systems. Homeostasis, control, and integration of the human body will be emphasized. Laboratory will cover related systems. This course is not repeatable without prior consent of instructor

**BIOH 211 Human Anatomy and Physiology II: 4 Credits (3 Lec, 1 Lab)**
PREREQUISITE: BIOH 201 with grades of "C-"; priority given to majors requiring this course. Structure and function of digestive, cardiovascular, respiratory, reproductive, and urinary systems of humans. Principles of integration, metabolism, energy flow, and homeostasis will be emphasized. This course is not repeatable without prior consent of instructor

**BIOH 287 Intermediate Human Phys I: 3 Credits (3 Lec)**
PREREQUISITE: CHMY 121IN or CHMY 141 or CHMY 151 with grades of "C-" or better in either course. General principles of cell and tissue biology; function of skeletal, muscular, nervous, and endocrine systems. Homeostasis, control, and integration of the human body will be emphasized

**BIOH 288 Intermediate Human Phys II: 3 Credits (3 Lec)**
PREREQUISITE: BIOH 201 with grades of "C-" or better. Function of the human digestive, cardiovascular, respiratory, reproductive, and urinary systems. Principles of integration, metabolism, energy flow and homeostasis will be emphasized

**BIOH 291 Special Topics: 3 Credits (2 Lec, 1 Other)**
Spring 2016 Topic: Global Health. Survey the historical and emerging trends in health issues around the world. Develop a fluency in what health issues are occurring in the various regions around the globe. Establish a basic knowledge of the culture, environment, politics and geography of key global regions.

**BIOH 303 Global Diseases and Health Disparities: 3 Credits (3 Lec)**
Survey the historical and emerging trends in health issues around the world. Develop a fluency in what health issues are occurring in the various regions around the globe. Establish a basic knowledge of the culture, environment, politics and geography of key global regions.
Repeatable up to 3 credits.

**BIOH 305 Human Skeletal Biology: 3 Credits (3 Lec)**
PREREQUISITE: BIOH 185 or BIOH 201 or BIOB 260 or consent of instructor. This course will offer students the opportunity to experience a comprehensive, investigative, and analytical study of the human skeleton. Topics will include histology, physiology, bone development, biomechanics, identification and interpretation of skeletal structures, and a study of pathology and trauma.

**BIOH 309 Human Neuroanatomy: 4 Credits (3 Lec, 1 Lab)**
PREREQUISITE: BIOH 185 or BIOH 201 and Junior standing or consent from instructor. Covering the organization and function of the human nervous system. The course will emphasize theories of its normal functioning and its responses to environmental change, as in learning and structural modification. Homeostasis will be emphasized.

**BIOH 320 Biomedical Genetics: 3 Credits (3 Lec)**
PREREQUISITE: BIOH 260. Introduction to fundamental principles of eukaryotic molecular genetics. Emphasis on the genetics of the major model organisms of biomedical research and how they are exploited to understand human biology and disease.

**BIOH 323 Human Developmental Biology: 4 Credits (4 Lec)**
PREREQUISITE: BIOH 201. Introduction to developmental biology and morphogenetic processes that establish the basic vertebrate body plan. Regulation of gene expression in the context of embryonic development. Includes hands-on study of chicken and frog embryos

**BIOH 405 Hematology: 3 Credits (3 Lec)**
A study of the function, biochemistry, cell biology, and pathology of blood and its constituents.

**BIOH 406 Hematology Laboratory: 1 Credits (1 Lab)**
COREQUISITE: BIOH 405. (F) Methods of examining white blood cells, red blood cells, and platelets. Also included is the examination of abnormal blood cells, hemostasis, and flow cytometry analysis.

**BIOH 409 Advanced Human Torso Anatomy: 4 Credits (2 Lec, 2 Lab)**
PREREQUISITE: Junior standing and BIOH 185 or BIOH 211. Advanced Human Torso Anatomy covers thorax, abdomen, pelvic and perineal anatomy, emphasizing topography and three dimensional relations. Instruction will be based on student dissections of human cadavers, with lectures covering structure and function, as well as pathology typically encountered in the dissection laboratory. Department of Microbiology and Cell Biology. Co-convened with BIOH 509

**BIOH 411 Advanced Human Anatomy: 4 Credits (2 Lec, 2 Lab)**
PREREQUISITE: Senior standing, completion of at least two upper division courses in the biological sciences and consent of instructor. Covers back, extremities and joint anatomy, emphasizing topography and three dimensional relations. Instruction will be based on student dissections of human cadavers, with lectures covering structure and function, as well as pathology typically encountered in the dissection laboratory. Class can fulfill 4 upper division honor credits, if prerequisites are satisfied.
BIOH 420 Molecular Genetics: 3 Credits (3 Lec)
PREREQUISITE: BIOH 320. (Sp) This course will focus on the use of current molecular genetic methods in biomedical research for editing and functionally analyzing eukaryotic genomes

BIOH 422 Genes and Cancer: 3 Credits (3 Lec)
PREREQUISITE: BIOH 320. This course will focus on the molecular and cellular mechanism of human cancer. The role of oncogenes and tumor suppressor genes in normal and cancerous cells will be examined, with an emphasis on how mutations in certain genes result in altered cell-cell signaling and cell proliferation. The role of genetic mutation in breast, colorectal and lymphoma cancers will be discussed, along with new technologies to detect and treat these cancers

BIOH 425 Sensory Neurophysiology: 3 Credits (3 Lec)
PREREQUISITE: BIOH 313. Neurophysiology of sensory cells and systems. Topics range from the mechanisms underlying sensory reception to the processing of sensory information at higher stages. The major focus will be on human sensory systems. Pathologies that effect sensory perception will be considered

BIOH 429 Student Assistant Training for Integrated Physiology (BIOH 185): 2 Credits (1 Lec, 1 Lab)
PREREQUISITE: BIOH 185 with a grade of C+ or higher, and consent of instructor. This course provides deeper contact with BIOH 185 curriculum for those considering an academic profession. Course experience in BIOH 185 teaching laboratory under detailed academic supervision in recognition that teaching enhances learning. Includes the preparation, organization, presentation of materials, and student evaluation

BIOH 430 Neuroethology: 3 Credits (3 Lec)
PREREQUISITE: BIOH 313 Introduction to the study of neuroethology based on a review of historically significant and modern primary research materials. In this class we will explore a number of `model systems’ that have been used extensively to develop our current understanding of the neural bases of animal and human behavior. This includes sound localization in owls, echolocation in bats, electrolocation in various fish and number of varied sensory systems used for species-specific communication in both vertebrates and invertebrates

BIOH 431 Student Assistant Training for Advanced Human Torso Anatomy (BIOH 409): 3 Credits (1 Lec, 2 Lab)
PREREQUISITE: BIOH 409 with a grade of C+ or higher, and consent of instructor. This course provides deeper contact with BIOH 409 curriculum for those considering an academic profession. Course experience in BIOH 409 teaching laboratory under detailed academic supervision in recognition that teaching enhances learning. Includes the preparation (including dissection), organization, presentation of materials, and student evaluation

BIOH 432 Student Assistant Training for Advanced Human Anatomy (BIOH 411): 3 Credits (1 Lec, 2 Lab)
PREREQUISITE: BIOH 411 with a grade of C+ or higher, and consent of instructor. This course provides deeper contact with BIOH 411 curriculum for those considering an academic profession. Course experience in BIOH 411 teaching laboratory under detailed academic supervision in recognition that teaching enhances learning. Includes the preparation (including dissection), organization, presentation of materials, and student evaluation

BIOH 433 Student Assistant Training for Neuroanatomy (NEUR 309): 3 Credits (1 Lec, 2 Lab)
PREREQUISITE: NEUR 309 with a grade of C+ or higher, and consent of instructor. This course provides deeper contact with NEUR 309 curriculum for those considering an academic profession. Course experience in NEUR 309 teaching laboratory under detailed academic supervision in recognition that teaching enhances learning. Includes the preparation (including dissection), organization, presentation of materials, and student evaluation

BIOH 435 Cognitive Neuroscience: 3 Credits (3 Lec)
PREREQUISITE: BIOH 313. This course will survey our present knowledge of the neural basis of normal and abnormal cognitive function in humans and non-human primates. Topics will range from perception and action to attention, consciousness and mental illness

BIOH 440 Neuroscience of Mental Illness: 3 Credits (3 Lec)
PREREQUISITE: BIOH 313. Survey of the major categories of human mental illness and their underlying neural mechanisms and treatments

BIOH 444 Modeling Brain Disorders: 3 Credits (3 Lec)
PREREQUISITE: BIOH 313. In this course, students will delve into the primary research literature in the field of behavioral neuroscience. We will study a variety of model systems and paradigms used to study neurological and psychiatric disorders. In addition, students will learn to effectively communicate about science orally and in writing

BIOH 445 Introduction to Pharmacology: 3 Credits (3 Lec)
PREREQUISITE: BIOH 185 or BIOH 201 or ANSC 265 and BIOB 160 or BIOB 260. An introduction to the pharmacodynamics of drug action. Major classes of pharmaceutical drugs will be studied to understand their mechanism of action at the cellular and organ levels

BIOH 454 Microanatomy (Histology): 3 Credits (2 Lec, 1 Lab)
PREREQUISITE: BIOH 160 or BIOH 260 or BIOH 211 or instructor permission. This course covers an introductory microscopic study of cells, tissues and selected mammalian organs. Emphasizing normal structure and function relating to disease processes in specific organ systems. Class discussion will relate the normal microanatomy to human histopathology

BIOH 455 Molecular Medicine: 3 Credits (3 Lec)
PREREQUISITE: BIOH 313 and BIOH 320 and BCH 380. Lecture and seminar courses based on recent, original papers. Moves from human disease to molecular explanations. Intended for upper level students with a strong background in biology

BIOH 458 Human Pathophysiology: 3 Credits (3 Lec)
PREREQUISITE: BIOH 260 or BIOM 363, and BCH 380 or BCH 441. Students will research up to three diseases of their own choosing and give a class presentation of their findings. Students will participate in discussions on disease mechanism and pathophysiology based on the primary research articles presented in class. Prior or concurrent enrollment in BIOH 410 strongly encouraged

BIOH 461 Tutoring Human Anatomy and Physiology I: 3 Credits (1 Lec, 2 Lab)
PREREQUISITE: BIOH 201 with a grade of C+ or higher, and consent of instructor. This course provides deeper contact with BIOH 201 curriculum for those considering an academic profession. Course experience in BIOH 201 teaching laboratory under detailed academic supervision in recognition that teaching enhances learning. Includes the preparation, organization, presentation of materials, and student evaluation

BIOH 463 Tutoring Human Anatomy and Physiology II: 2-3 Credits (1 Lec, 1-2 Lab)
PREREQUISITE: BIOH 211 with a grade of C+ or higher, and consent of instructor. This course provides deeper contact with BIOH 211 curriculum for those considering an academic profession. Course experience in BIOH 211 teaching laboratory under detailed academic supervision in recognition that teaching enhances learning. Includes the preparation, organization, presentation of materials, and student evaluation

BIOH 464 Clinical Hematology and Body Fluids: 2 Credits (1 Lec, 1 Lab)
PREREQUISITE: Acceptance in professional training program. Topics include a review of normal hemopoiesis; red blood cell, white blood cell, and platelet disorders; body fluid overview; and an introduction to hematology instrumentation
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>BIOH 465R</td>
<td>Gene Expression Lab: From Genes to Proteins to Cells</td>
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<tr>
<td>PREREQUISITE:</td>
<td>BCH 380 or BCH 441. This course will give students the opportunity to design a unique research project, then learn and use the appropriate methods to pursue their research question. The course will expose students to the research process used in most basic science labs</td>
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<tr>
<td>BIOH 466</td>
<td>Clinical Microbiology I</td>
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<tr>
<td>PREREQUISITE:</td>
<td>Acceptance in professional training program. Topics include a review of medical microbiology, virology, mycology, parasitology, and clinical laboratory testing procedures</td>
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<tr>
<td>BIOH 467</td>
<td>Clinical Chemistry I</td>
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<tr>
<td>PREREQUISITE:</td>
<td>Acceptance in professional training program. Topics include an introduction to theories and principles with emphasis on all body systems, and the role of instrumentation in the clinical chemistry laboratory</td>
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<tr>
<td>BIOH 468</td>
<td>Clinical Immunohematology I</td>
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<tr>
<td>PREREQUISITE:</td>
<td>Acceptance in professional training program. Basic techniques in blood banking. Topics to be included are: ABO/Rh typing, antibody identification, transfusion therapy and reactions, donor collection and component preparation</td>
</tr>
<tr>
<td>BIOH 469</td>
<td>Essentials of Clinical Lab Practice</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>Acceptance in professional training program. Provides an orientation to the program, safety information, phlebotomy training, and an overview of management practices. Also includes instruction in hemostasis, molecular diagnostics and urinalysis</td>
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<tr>
<td>BIOH 473</td>
<td>Laboratory Practice II</td>
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<tr>
<td>PREREQUISITE:</td>
<td>Students must be accepted to the MMLS training program. Essential skills for performing phlebotomy, laboratory specimen collection, handling and preparing samples for laboratory analysis and interpersonal communication skills will be emphasized</td>
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<tr>
<td>BIOH 474</td>
<td>Clinical Hematology II</td>
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<tr>
<td>PREREQUISITE:</td>
<td>Students must be accepted to the MMLS training program. Blood cell identification, manual and automated procedures for the assessment of hematologic disease will be emphasized. Students will begin to learn to assess, interpret and correlate hematologic data with disease</td>
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<tr>
<td>BIOH 475</td>
<td>Clinical Hemostasis</td>
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<tr>
<td>PREREQUISITE:</td>
<td>Students must be accepted to the MMLS training program. Laboratory skills using manual and automated procedures will be emphasized. Students will assess, interpret and correlate data as it relates to normal and abnormal hemostasis and anticoagulant therapy</td>
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<tr>
<td>BIOH 476</td>
<td>Clinical Microbiology II</td>
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<tr>
<td>PREREQUISITE:</td>
<td>Students must be accepted to the MMLS training program. The ability to differentiate pathogens from commensals and perform identification procedures and antimicrobial susceptibility testing are emphasized along with an introduction to specialized and automated testing</td>
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<tr>
<td>BIOH 477</td>
<td>Clinical Chemistry and Urinalysis II</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>Students must be accepted to the MMLS training program. Manual and automated procedures for determining chemical analytes in blood and body fluids and the associated disease conditions will be emphasized along with an introduction to specialized testing</td>
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<tr>
<td>BIOH 478</td>
<td>Clinic Immunohematology II</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>Students must be accepted to the MMLS training program. Maintenance of blood components and performing routine and basic problem solving procedures in the blood bank will be emphasized. Correlation of immunohematology theory and disease with testing and transfusion practices and patient care will be covered</td>
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<tr>
<td>BIOH 479</td>
<td>Clinical Immunology/Serology</td>
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<tr>
<td>PREREQUISITE:</td>
<td>Students must be accepted to the MMLS training program. Assessment, interpretation and clinical significance of immunology principles and techniques and their correlation to laboratory data and patient disease will be emphasized</td>
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<tr>
<td>BIOH 482</td>
<td>Laboratory Practice III</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>Students must be accepted to the MMLS training program. A two week rotation in a small hospital laboratory provides an opportunity to experience a different work environment and practice laboratory skills</td>
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<tr>
<td>BIOH 483</td>
<td>Peer Leaders for Anatomical Science Laboratories</td>
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<td>PREREQUISITE:</td>
<td>Completion of one of the following SA I courses: BIOH 429, 431, 432, 433, 461 or 463 and instructor permission. BIOH 484 is the second semester of Student Assistant training with the added responsibility of being a lead SA assigned to a lab according to their prerequisite course work. This course provides deeper contact with curriculum and a higher level of course responsibility working directly with the assigned TA and coordinating other SAs assigned to the lab section. Includes the preparation, organization, presentation of materials, and student evaluation</td>
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<tr>
<td>BIOH 484</td>
<td>Clinical Hematology III</td>
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<tr>
<td>PREREQUISITE:</td>
<td>Students must be accepted to the MMLS training program. Competence in performing testing and the ability to assess, interpret, and correlate hematologic data with other patient information to recommended additional testing, diagnosis, and probable treatment option for the patient will be emphasized</td>
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<tr>
<td>BIOH 486</td>
<td>Clinical Microbiology III and Molecular Diagnostics</td>
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<tr>
<td>PREREQUISITE:</td>
<td>Students must be accepted to the MMLS training program. Competently identify and provide susceptibility data for microorganisms isolated from human specimens including clinically significant yeasts, molds, parasites, viruses and mycobacterium. Perform molecular diagnostic techniques available</td>
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<tr>
<td>BIOH 487</td>
<td>Clinical Chemistry III</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>Students must be accepted to the MMLS training program. Achieve entry level knowledge of disease processes, and exhibit professional competencies in clinical chemistry laboratory procedures and the operation of laboratory instrumentation</td>
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<tr>
<td>BIOH 488</td>
<td>Clinical Immunohematology</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>Students must be accepted to the MMLS training program. Attain competency and the ability to correlate testing data to theory and initiate advanced techniques where appropriate. Students will demonstrate entry level competency by managing the daily aspects of blood bank operation</td>
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<tr>
<td>BIOH 489</td>
<td>Laboratory Management</td>
</tr>
<tr>
<td>PREREQUISITE:</td>
<td>Students must be accepted to the MMLS training program. General management policies, principles, and procedures necessary for efficient operation of a clinical laboratory will be emphasized along with federal and state regulations which govern the clinical laboratory</td>
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<tr>
<td>BIOH 490R</td>
<td>Undergraduate Research</td>
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<tr>
<td>PREREQUISITE:</td>
<td>Consent of instructor. Directed undergraduate research/creative activity which may culminate in a research paper, journal article, or undergraduate thesis. Course will address responsible conduct of research. May be repeated Repeatable up to 12 credits.</td>
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<tr>
<td>BIOH 491</td>
<td>Special Topics</td>
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<tr>
<td>PREREQUISITE:</td>
<td>BIO 260. Courses not required in any curriculum for which there is a particular one-time need, or given on a trial basis to determine acceptability and demand Repeatable up to 12 credits.</td>
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BIOH 949 Independent Study: 1-3 Credits (1-3 Other)
PREREQUISITE: Junior standing, consent of instructor and approval of department head. Directed research and study on an individual basis. Repeatable up to 6 credits.

BIOH 509 Advanced Human Torso Anatomy: 4 Credits (2 Lec, 2 Lab)
PREREQUISITE: Degree-seeking graduate student, undergraduate A & P coursework. Covers thoracic, abdominal and pelvic anatomy, emphasizing anatomical landmarks and relationships. Instruction will be based on student dissections of human cadavers, and lectures covering structure, function, and common pathology. Co-Convened with BIOL 409

BIOH 510 Topics in Neurobiology: 3 Credits (2 Lec, 1 Lab)
PREREQUISITE: Graduate standing and at least one upper division or graduate course in neurobiology. Recent advances in topics in neurobiology with emphasis in different years on either neurocytology, neuroendocrinology/neuroimmunology, or developmental neurobiology

BIOH 511 Advanced Human Anatomy: 4 Credits (4 Lec)
PREREQUISITE: Degree-seeking graduate student, undergraduate anatomy and physiology work. Covers the musculoskeletal system of the back and upper and lower extremity and arthrology, emphasizing anatomical landmarks and relationships. Integrating of vascular and nervous supply along with the understanding of kinesiology will also be a major focus. Instruction will be based on student dissections of human cadavers, and lectures covering structure, function, and common pathology. Cross-Listed with BIOH 411

BIOH 520 Molecular Genetics: 3 Credits (3 Lec)
PREREQUISITE: BIOH 320. This course will focus on the use of current molecular genetic methods in biomedical research for editing and functionally analyzing eukaryotic genomes. Repeatable up to 3 credits.

BIOH 528 Molecular Basis of Neurological Diseases: 3 Credits (1 Lec, 2 Other)
PREREQUISITE: BIOH 313 and BIOB 525 or consent of instructor. This course will give an in-depth view of the molecular aspects to neuroscience. Student projects will then use that knowledge to do their own research into the current molecular understanding of a chosen neurological disease and writing up an NIH research proposal.

BIOH 535 Principles of Neuroscience: 3 Credits (1 Lec, 2 Other)
This course will provide a broad introduction to the critical components of the field of neuroscience. The semester will be divided into 2-3 week modules. Each professor will cover a major subdivision of neuroscience including information on the questions, methods, and seminal discoveries that form the foundation of the field (lecture #1). Subsequent lectures (#2-4) will entail a student-led, seminar-style group discussion based around assigned primary literature materials.

BIOH 542 Survey of Current Cell Signaling: 2 Credits (2 Lec)
This course will be in a journal club style where peer reviewed articles will be presented and discussed in a critical fashion. The goals are to learn how to synthesize information, develop critical thinking, keep up with the literature, learn about new topics and foster interdisciplinary interactions. Topics will be student driven with the restriction that they fall under the broad umbrella of cell signaling. Repeatable up to 12 credits.

BIOH 545 Current Neuroscience: 3 Credits (3 Other)
PREREQUISITE: BIOH 535
This course is designed to familiarize students with the most current findings and methods in the field of neuroscience. Course focuses on critical analysis of primary literature in core areas of neuroscience.

BIOH 565 Gene Expression Lab: From Genes to Proteins to Cells: 3 Credits (3 Lab)
PREREQUISITE: BIOH 425 and BCH 380. This course is intended to develop a specific research question and to learn the appropriate techniques necessary to address the chosen research question. The primary focus will be experience with a wide breadth of laboratory techniques including tissue culture, heterlogous expression, microscopy, RNA extraction, RT-PCR, gene expression analysis, protein extraction, protein expression analysis, and data quantification.

BIOH 586 AP Biology for Teachers: 3 Credits (2 Lec, 1 Lab)
This course is designed to help teachers better understand the content of Advanced Placement (AP) Biology reflecting the most recent updates. Sections of this course will focus on the science practices outlined in the AP Biology Course and Exam Description (CED) as well as content less common to biology classes including equations and formulas students are expected to understand.

BIOH 590 Master’s Thesis: 1-10 Credits (1-10 Other)
PREREQUISITE: Master’s standing. Repeatable up to 99 credits.

BIOH 591 Special Topics: 3 Credits (3 Other)

BIOH 592 Independent Study: 1-3 Credits (1-3 Other)
PREREQUISITE: Graduate standing, consent of instructor, approval of department head and Dean of Graduate Studies. Directed research and study on an individual basis. Repeatable up to 6 credits.

BIOH 594 Seminar: 1 Credits (1 Other)
PREREQUISITE: Graduate standing or seniors by petition and course prerequisites as determined for each offering. Topics offered at the graduate level which are not covered in regular courses. Students participate in preparing and presenting discussion material. Repeatable up to 4 credits.

BIOH 595 Anatomy & Physiology for Tchers: 3 Credits (1 Lec, 1 Lab, 1 Other)
This course is designed for high-school and post-secondary instructors who are either currently teaching an anatomy and physiology course or are interested in developing one. The goal of the course is to help instructors develop an AP curriculum that integrates Next Generation Science Standards. Participants from all AP instructional backgrounds are welcome and should expect to work in a collaborative environment. Offered Fall.

BIOH 690 Doctoral Thesis: 1-10 Credits (1-10 Other)
PREREQUISITE: Doctoral standing. Repeatable up to 99 credits.