



CATALOG

2022-2023

UNDERGRADUATE SEMESTER COURSES



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Undergraduate

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Biochemistry

Courses

BIOC 400S Biochemistry 4.0 Credits

Biochemistry is the essential basis for understanding metabolic and disease processes at the biochemical and molecular levels. Because of its importance as a foundation to medicine, biochemistry is going to be a major focus of the MCAT, beginning with the test in the summer of 2015. The course, which will be taught at Drexel University College of Medicine, by College of Medicine faculty, will cover the topics in general biochemistry, with a particular focus on those topics that are to be included on the new MCAT.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

BIOC T480S Special Topics in Biochemistry 0.0-12.0 Credits

Topics decided upon by faculty will vary within the area of study.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Can be repeated multiple times for credit

Emergency Medicine

Courses

EMMD S124S Advance Emergency Medicine 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

EMMD S252S Virtual Emergency Med* 0.0 Credits**

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

EMMD S314S Emergency Care Ultrasound 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

Family Medicine

Courses

FAMD S224S REPRODUCTIVE HEALTH 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

FAMD S244S REPRODUCTIVE HEALTH 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

FAMD S444S Environmental & Occup Hlth 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

FAMD S454S Aerospace Medicine 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

Human Lactation Consultant

Courses

CHLC 205S Introduction to Human Lactation 2.0 Credits

This course will provide a foundation in breastfeeding and human lactation, including breastfeeding education and promotion during the prenatal period, successful initiation of breastfeeding, prevention of many common pitfalls, and ongoing breastfeeding support. This course covers the fifteen specific areas required by Baby Friendly USA for all nurses working in prenatal and perinatal areas in Baby-Friendly Hospitals.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

CHLC 305S Clinical Issues in Human Lactation I 2.0 Credits

The focus of this course will be to understand clinical aspects of the lactating parent including in-depth maternal assessment and composition of human milk. Emphasis will be on first recognizing normal anatomy and physiology and then exploring presentations of the difficulties that lactating parent may encounter. The course will examine the effects of maternal characteristics as well as the effects of birth on breastfeeding outcomes. Strategies to improve breastfeeding success will be discussed.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

CHLC 355S Clinical Issues in Human Lactation II 2.0 Credits

The focus of this course will be to understand clinical aspects of the breastfeeding infant and the use of human milk, including in-depth infant and the changing composition of human milk as the infant's needs change. Emphasis will be on first recognizing normal anatomy and physiology and then exploring presentations of the difficulties that breastfeeding dyads encounter. The course will examine the effects of infant anatomy and characteristics as well as the effects of birth on breastfeeding outcomes. Strategies to improve breastfeeding success will be discussed.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

CHLC 405S Public Policy of Breastfeeding 2.0 Credits

This course will examine the barriers to optimal breastfeeding using a socio-ecologic framework. Participants will gain a better understanding of the different factors that influence breastfeeding behaviors. Strategies to more effectively protect, promote and support breastfeeding will be discussed.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

CHLC 485S Clinical Internship in Lactation for Pathway 2 1.0-8.0 Credit

Lactation Supervised Practice is designed to prepare competent, entry-level lactation consultants who will be eligible to sit the International Board Lactation Consultant Examination by completing Pathway 2. The course will provide appropriate experiences to practice the roles of lactation consultant under the supervision of a preceptor.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Can be repeated 7 times for 64 credits

Medical Science Preparatory

Courses

MSPP 400S Advanced Topics in Chemistry I 4.0 Credits

This review course in general and organic chemistry will contain a review of chemical calculations and theory in topics such as stoichiometry, gas laws, thermodynamics, electrochemistry, equilibria, and pH. Atomic theory and bonding will also be reviewed. The semester ends with a discussion of the stereochemistry of organic molecules.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

MSPP 401S Advanced Topics in Chemistry II 4.0 Credits

This review course in organic chemistry will investigate reaction mechanisms, spectroscopy, qualitative organic chemistry, and laboratory techniques.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

MSPP 402S Advanced Topics in Physics I 4.0 Credits

This course covers classical physics as applied to the kinematics and dynamics of static and of moving bodies.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

MSPP 403S Advanced Topics in Physics II 4.0 Credits

This course covers classical physics as applied to: fluids, vibrations, waves, electricity, magnetism and optics.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

MSPP 404S Concepts in Science and Verbal Reasoning I 6.0 Credits

This is a didactic course with weekly preparations for the Verbal Reasoning and Writing, Physical Sciences and Biological Sciences of the Medical College Admissions Test. Incorporated into the course are approximately six mock MCAT exams for practice.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

MSPP 405S Concepts in Science and Verbal Reasoning II 6.0 Credits

This is a didactic course with weekly preparations for the Verbal Reasoning and Writing, Physical Sciences and Biological Sciences of the Medical College Admissions Test. Incorporated into the course are approximately six mock MCAT exams for practice.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

MSPP T480S Special Topics in Medical Science Preparatory 0.0-12.0 Credits

Topics decided upon by faculty will vary within the area of study.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Can be repeated multiple times for credit

Medicine

Courses

MEDI S123S Inpatient Medicine Elective 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

MEDI S124S INPATIENT MEDICINE 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

MEDI S264S Advanced Medicine 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

MEDI S342S MEDICAL ONCOLOGY - 2 WKS (S/U) 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

MEDI S492S CARDIOLOGY TEACHING LAB-HARVEY 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

Neurology

Courses

NEUL S132S NEUROLOGY ELECTIVE-2WKS 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

NEUL S174S Neurocritical Care 0.0 Credits

College/Department: College of Medicine

Repeat Status: Can be repeated multiple times for credit

NEUL S194S Neurology Consult Service 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

NEUL S214S Advanced Neurology Elective 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

Obstetrics & Gynecology

Courses

OBYG S154S High Risk Obstetrics 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

OBYG S164S Outpatient Subinternship 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

OBYG S252S Family Planning* 0.0 Credits**

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

OBYG S254S OBGYN-Family Planning 0.0 Credits

College/Department: College of Medicine

Repeat Status: Can be repeated multiple times for credit

OBYG S464S Multi-Specialty GYN SURG 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

OBYG S494S Minimally Invasive GYN Surgery 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

Office of Medical Education

Courses

OMED S112S Strategic& Financial Mgmt 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

Orthopedics

Courses

ORTH S114S Advanced Clerkship in Orthoped 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

ORTH S134S Adult Orthopaedics 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

ORTH S144S Musculoskeletal Trauma 0.0 Credits

College/Department: College of Medicine

Repeat Status: Can be repeated multiple times for credit

ORTH S192S Orthopaedic Trauma* 0.0 Credits**

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

ORTH S194S Orthopaedics Elective 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

ORTH S212S Hand Surgery* 0.0 Credits**
College/Department: College of Medicine
Repeat Status: Can be repeated 10 times for NaN credits

ORTH S214S Hand Surgery 0.0 Credits
College/Department: College of Medicine
Repeat Status: Not repeatable for credit

ORTH S242S Orthopaedics: Spine Surgery* 0.0 Credits**
College/Department: College of Medicine
Repeat Status: Not repeatable for credit

ORTH S244S Orthopaedics: Spine Surgery 0.0 Credits
College/Department: College of Medicine
Repeat Status: Can be repeated 10 times for NaN credits

ORTH S294S Trauma and Fracture Service 0.0 Credits
College/Department: College of Medicine
Repeat Status: Not repeatable for credit

ORTH S394S Combined Orthopaedics 0.0 Credits
College/Department: College of Medicine
Repeat Status: Can be repeated multiple times for credit

Otolaryngology

Courses

OTOL S114S Adult&Pediatric Otolaryngology 0.0 Credits
College/Department: College of Medicine
Repeat Status: Not repeatable for credit

OTOL S124S Otorhinolaryngology 0.0 Credits
College/Department: College of Medicine
Repeat Status: Not repeatable for credit

OTOL S164S Combined Otolaryngology 0.0 Credits
College/Department: College of Medicine
Repeat Status: Not repeatable for credit

Pathology

Courses

PATH S184S PEDIATRIC PATHOLOGY 0.0 Credits
College/Department: College of Medicine
Repeat Status: Not repeatable for credit

PATH S214S Ocular Pathology 0.0 Credits
College/Department: College of Medicine
Repeat Status: Not repeatable for credit

Pediatrics

Courses

PEDS S204S Pediatric Rehabilitation 0.0 Credits
College/Department: College of Medicine
Repeat Status: Not repeatable for credit

PEDS S384S Pediatric Oncology 0.0 Credits
College/Department: College of Medicine
Repeat Status: Not repeatable for credit

PEDS S444S Pediatric Acting Internship 0.0 Credits
College/Department: College of Medicine
Repeat Status: Not repeatable for credit

PEDS S484S Adolesc./Peds Gastroenterology 0.0 Credits
College/Department: College of Medicine
Repeat Status: Not repeatable for credit

PEDS S492S PEDIATRIC NEUROSURGERY 0.0 Credits
College/Department: College of Medicine
Repeat Status: Not repeatable for credit

Pre-Medical

Courses

PMED 111S General Chemistry I 3.0 Credits
College/Department: COM School of Biomedical Sciences Professional Studies
Repeat Status: Not repeatable for credit
Restrictions: Can enroll if major is PMED.

PMED 112S General Chemistry I Lab 1.0 Credit
 The aim is to provide an introduction to the principles of general chemistry that will give the student a command of its concepts and language. The semester course will cover within the time limitations topics organized around the four major themes: • Foundations of general chemistry including the physical state, atomic structure/theory • Fundamentals of molecular structure and bonding • Types of reactions • Thermodynamics.
College/Department: COM School of Biomedical Sciences Professional Studies
Repeat Status: Not repeatable for credit
Restrictions: Can enroll if major is PMED.
Corequisite: PMED 111S

PMED 114S CONCEPTS IN CHEMISTRY I 4.0 Credits
College/Department: College of Medicine
Repeat Status: Not repeatable for credit
Restrictions: Can enroll if major is PMED.

PMED 121S General Physics I 3.0 Credits
College/Department: COM School of Biomedical Sciences Professional Studies
Repeat Status: Not repeatable for credit
Restrictions: Can enroll if major is PMED.

PMED 122S General Physics I Lab 1.0 Credit

This course is the first recitation lab portion of a four-course algebra-based sequence providing a comprehensive introduction to physics. This course provides students with laboratories and discussions consisting of hands-on experiences using technical equipment on campus, everyday household items at home, and computer simulations at home. Topics include kinematics, mechanics, waves, sound, and fluids.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

Corequisite: PMED 121S

PMED 131S General Chemistry II 3.0 Credits

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

PMED 132S General Chemistry II Lab 1.0 Credit

The aim is to provide an introduction to the principles of general chemistry that will give the student a command of its concepts and language. The semester course will cover within the time limitations topics organized around the four major themes: Foundations of general chemistry including the solutions, solids and intermolecular bonding; Fundamentals of reaction equilibrium, acid-base chemistry and chemical kinetics; Familiarize students with entropy and electron transfer reactions; Foundations of nuclear medicinal chemistry, polymer and inorganic chemistry in society.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

Restrictions: Can enroll if major is PMED.

Prerequisites: PMED 111S [Min Grade: C]

Corequisite: PMED 131S

PMED 141S General Physics II 3.0 Credits

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

PMED 142S General Physics II Lab 1.0 Credit

PMED 142S is the second recitation lab part of a four-course algebra-based sequence providing a comprehensive introduction to physics for pre-medical students. This course provides students with laboratories consisting of hands-on experiences using technical equipment on campus, everyday household items at home, and computer simulations at home. Topics include electricity, magnetism, light, optics, heat, thermodynamics, and radioactivity.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

Prerequisites: PMED 121S [Min Grade: C] and PMED 122S [Min Grade: C]

Corequisite: PMED 141S

PMED 151S College Algebra & Trigonometry 3.0 Credits

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

Restrictions: Can enroll if major is PMED.

PMED 211S General Biology I 3.0 Credits

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

Restrictions: Can enroll if major is PMED.

PMED 212S General Biology I Lab 1.0 Credit

Students will be able to formulate hypotheses, become familiar with the scientific method, retain information about the basic principles of biology. At the end of this course, you should be able to present your findings in a clear, written format and have a strong knowledge of biological concepts and how to apply them in a lab setting.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

Restrictions: Can enroll if major is PMED.

Corequisite: PMED 211S

PMED 221S Organic Chemistry I 3.0 Credits

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

Restrictions: Can enroll if major is PMED.

PMED 222S Organic Chemistry I Lab 1.0 Credit

The aim is to provide an introduction to the principles of organic chemistry that will give the student a command of its concepts and language. The semester course will cover within the time limitations topics organized around the four major themes: Foundations of organic chemistry including solubility, solids and intermolecular bonding; Fundamentals of acid-base chemistry, extraction, purification and analysis; Familiarize students with monitoring reactions using thin layer chromatography; Emphasize Techniques in determining product purity and identification, using instruments such as FTIR, UV/Vis, GC, melting point apparatus. The course allows for the familiarization of naming of compounds and allows an understanding of the behavior of various functional groups as discussed in lecture.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

Prerequisites: PMED 131S [Min Grade: C]

Corequisite: PMED 221S

PMED 231S General Biology II 3.0 Credits

This course is the second semester of the PMED general biology series. This course delves into the concepts of genetics, inheritance, evolution, and biodiversity. Specifically, we will learn about the molecular basis of inheritance, how genes encode proteins, the principles of genetics, and some of the techniques used to study molecular biology. We will then study the principles of evolution and biodiversity. Additionally, plants, photosynthesis and vertebrate evolution will also be explored.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

Restrictions: Can enroll if major is PMED.

PMED 232S General Biology II Lab 1.0 Credit

This is the second semester of PMED General Biology. This recitation lab will include discussions about immunology, molecular biology, evolution, and population speciation. The experiments that will be conducted will support the concepts that are introduced in the lecture portion of the course.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

Prerequisites: PMED 211S [Min Grade: C]

Corequisite: PMED 231S

PMED 240S Conceptual Reviews in General and Organic Chemistry 3.0 Credits

The intention of the course shall be to serve as a course concentrating on select topics in general chemistry and organic chemistry as required for the current MCAT requirements. The instruction shall be covered by the instructor along with input by a TA(s) to bridge the gap between biology, physics and chemistry. In this way, the students leave with a more holistic view of the concepts to be discussed with breadth and depth, and how these different disciplines come together to explain observations. Where possible case studies shall be used to apply the concepts taught to put them into application.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

Prerequisites: PMED 111S [Min Grade: C] and PMED 112S [Min Grade: C] and PMED 131S [Min Grade: C] and PMED 132S [Min Grade: C] and PMED 221S [Min Grade: C] and PMED 222S [Min Grade: C] and PMED 241S [Min Grade: C] and PMED 242S [Min Grade: C]

PMED 241S Organic Chemistry II 3.0 Credits

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

Restrictions: Can enroll if major is PMED.

PMED 242S Organic Chemistry II Lab 1.0 Credit

The aim is to provide an introduction to the principles of organic chemistry that will give the student a command of its concepts and language. The semester course will cover within the time limitations topics organized around the four major themes: Foundations of organic synthesis and spectroscopic tools; Functional group characteristics and reactivity; Conjugated pi Systems and aromaticity; Introduction to organometallic chemistry.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

Prerequisites: PMED 221S [Min Grade: C]

Corequisite: PMED 241S

PMED 250S Molecular Biology & Biochemistry 3.0 Credits

This course will provide an introduction to the principles of biochemistry that will give the student a command of its concepts and language. Major themes will include foundations of biochemistry, structure and catalysis, bioenergetics and metabolism, and information pathways.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Not repeatable for credit

PMED T180S Special Topics in Pre-Medical 0.0-12.0 Credits

Topics decided upon by faculty will vary within the area of study.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Can be repeated multiple times for credit

PMED T280S Special Topics in Pre-Medical 0.0-12.0 Credits

Topics decided upon by faculty will vary within the area of study.

College/Department: COM School of Biomedical Sciences Professional Studies

Repeat Status: Can be repeated multiple times for credit

Psychiatry

Courses

PSYC S114S Emergency Psychiatry 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

PSYC S204S Addiction Psychiatry 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

PSYC S242S Geropsychiatry - 2wks 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

Surgery

Courses

SURG S114S Surgical Endocrinology/Oncology 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

SURG S204S Acute Care Surgery 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

SURG S294S Advanced Surgery 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

SURG S384S Pediatric Surgical Oncology 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

SURG S444S Vascular& Endovascular Surgery 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

SURG S454S Endocrine/Oncology Surgery 0.0 Credits

College/Department: College of Medicine

Repeat Status: Not repeatable for credit

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