



# CATALOG

2021-2022

**UNDERGRADUATE SEMESTER COURSES**



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# Course Descriptions

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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

## 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

## 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 S124S INPATIENT 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

## Obstetrics & Gynecology

### Courses

**OBGY S154S High Risk Obstetrics 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 S134S Adult Orthopaedics 0.0 Credits**

**College/Department:** College of Medicine

**Repeat Status:** Not repeatable for credit

**ORTH S192S Orthopaedic Trauma\*\*\* 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 S242S Orthopaedics: Spine Surgery\*\*\* 0.0 Credits**

**College/Department:** College of Medicine

**Repeat Status:** Not repeatable 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

## Pathology

### Courses

**PATH S184S PEDIATRIC 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 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 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 GROSS SURGERY SERVICE 0.0 Credits**

**College/Department:** College of Medicine

**Repeat Status:** Not repeatable for credit

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