

# Advanced Core Medical Science (ACMS)

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Course information contained within the Bulletin is accurate at the time of publication in July 2024 but is subject to change. For the most up-to-date course information, please refer to the Course Catalog.

## **ACMS 5003. Fundamentals of Biochemistry. 4 Credit Hours.**

**Level Registration Restrictions:** Must be enrolled in one of the following Levels: Graduate.

**Repeatability:** This course may not be repeated for additional credits.

## **ACMS 5004. Fundamentals of Physiology. 4 Credit Hours.**

Fundamentals of Physiology addresses important topics including membranes and membrane transport, excitation and contraction of skeletal, smooth and cardiac muscle, the heart and blood flow, renal physiology and lung physiology. Important medically related examples will be discussed. Course syllabus will be provided by the course director.

**Level Registration Restrictions:** Must be enrolled in one of the following Levels: Graduate.

**Repeatability:** This course may not be repeated for additional credits.

## **ACMS 5006. Microbiology and Immunology. 4 Credit Hours.**

**Level Registration Restrictions:** Must be enrolled in one of the following Levels: Graduate.

**Repeatability:** This course may not be repeated for additional credits.

## **ACMS 5007. Human Anatomy. 4 Credit Hours.**

Human Anatomy provides instruction in gross anatomy for postbac students. Important medically related examples will be discussed. Course syllabus will be provided by the course director.

**Level Registration Restrictions:** Must be enrolled in one of the following Levels: Graduate.

**Repeatability:** This course may not be repeated for additional credits.

## **ACMS 5008. Medical Pharmacology. 4 Credit Hours.**

Medical Pharmacology provides instruction in pharmacology for postbac students. Important medically related examples will be discussed. Course syllabus will be provided by the course director.

**Level Registration Restrictions:** Must be enrolled in one of the following Levels: Graduate.

**Repeatability:** This course may not be repeated for additional credits.

## **ACMS 5010. Special Topics in Medicine. 2 to 3 Credit Hours.**

Special Topics in Medicine discusses important topics in medicine including translational research and evidence based medicine for postbac students. Course syllabus will be provided by the course director.

**Level Registration Restrictions:** Must be enrolled in one of the following Levels: Graduate.

**Repeatability:** This course may be repeated for additional credit.

## **ACMS 5011. Case-based Clinical Problem Solving. 1 Credit Hour.**

A crucial component in training pre-medical students to become effective physicians is developing interactive skills, specifically meaningful patient history taking. This course provides students at the Lewis Katz School of Medicine the opportunity to interact with and receive feedback from standardized patients. Furthermore, the encounter permits the design of learning experiences that integrate the students' understanding of basic science principles with clinical reasoning. This course consists of two parts. The first part provides students with the basic tools for interviewing patients and taking their history. This is accomplished by use of self-study, lectures and one on one interaction with standardized patients. During the second part of the course, students working in teams on specially designed clinical cases reason through and present their diagnosis and reasoning to the class. Included in the clinical case is a session with the simulation mannequins who will be programmed with the appropriate disease characteristics.

**Level Registration Restrictions:** Must be enrolled in one of the following Levels: Graduate.

**College Restrictions:** Must be enrolled in one of the following Colleges: Medicine, Lewis Katz School.

**Repeatability:** This course may not be repeated for additional credits.