Pre-MEDICINE
Medical Doctor

CAREER OPPORTUNITIES AND RELATED OCCUPATIONS: A growing and aging population will contribute to the overall increase in the number of physicians needed, especially in underserved areas, such as inner city and rural areas. Outstanding career opportunities can be found in these locations. Because of efforts nationally to control health care costs and limitations on use of specialty services, a lower number of specialists will be in demand. Therefore, prospects are best for those choosing general or internal medicine, as well as geriatric and pediatric medicine. However, unlike the situation several decades ago, physicians face radically different choices of where and how to practice as new patterns of practice are becoming the norm. Physicians may choose from a variety of settings such as working in a managed care system (HMO, PPO), a clinic, hospital, laboratory, industrial, or military venues, or in a combination of these. Physicians are currently becoming more attuned to health promotion and prevention of disease by providing education and information to help individuals adopt healthier lifestyles.

EDUCATIONAL QUALIFICATIONS: The minimum educational requirement for entry into most US and Canadian medical schools is a 4-year Bachelor’s degree (any major). Additionally, many applicants have formal education beyond a BA/BS, and may also have had a variety of experience in the health care field. In medical school, students spend most of the first two years in laboratories and classrooms studying the basic sciences. During the last two years, students proceed through clinical rotations working with patients in hospitals, which consists of on-the-job training in one or more specialties, under the direction of experts in that discipline. Once completed, the physician must pass national board exams before he/she is licensed to practice medicine. Many states also require the passing of state board exams.

ENTERING SALARY: Wages for physicians and surgeons are among the highest of all occupations. In 2012, physicians practicing primary care received total median annual compensation of $220,942 and physicians practicing in medical specialties received total median annual compensation of $396,233.

**PRE-MEDICINE**  
**M.D.**  
**2014-2015**

### NATURAL SCIENCES:

- **BIOL 111/ BIOL 111L** General Biology I and Lab (4/1)
- **BIOL 111A** General Biology I Seminar (0)
- **BIOL 112/ BIOL 112L** General Biology II and Lab (4/1)  
  Prereq. BIOL 111, 111L and BIOL 111A
- **BIOL 113/ BIOL 113L** General Biology III and Lab (4/1)  
  Prereq. BIOL 112 and 112L
- **CHEM 111/ CHEM 111L** General Chemistry I and Lab (4/1)  
  Prereq. MATH 121 Eligibility & CHEM 110 or placement.
- **CHEM 112/ CHEM 112L** General Chemistry II and Lab (4/1)  
  Prereq. CHEM 111 and CHEM 111L
- **CHEM 113/ CHEM 113L** General Chemistry III and Lab (4/1)  
  Prereq. CHEM 112 and CHEM 112L
- **CHEM 271/ CHEM 271L** Organic Chemistry I and Lab (3/1)  
  Prereq. CHEM 113 & CHEM 113L
- **CHEM 272/ CHEM 272L** Organic Chemistry II and Lab (3/1)  
  Prereq. CHEM 271 and CHEM 271L
- **CHEM 273/ CHEM 273L** Organic Chemistry III and Lab (3/1)  
  Prereq. CHEM 272 and CHEM 272L
- **PHYS 231** General Physics I and Lab (4/1)  
  Prereq: MATH 122 or equiv. for PHYS 231A/ MATH 132 for PHYS 231B
- **PHYS 232** General Physics II and Lab (4/1)  
  Prereq: PHYS 231A for PHYS 232A/PHYS 231B for PHYS 232B
- **PHYS 233** General Physics III and Lab (4/1)  
  Prereq: PHYS 232A for PHYS 233A/PHYS 232B for PHYS 233B
- **CHEM 491** Biochemistry I (3)  
  Prereq. CHEM 273  
  Required beginning 2016

### COMMUNICATION:

- **ENGL 111** College Writing (3)  
  Prereq. Satisfactory placement on college entrance exam.
- **ENGL 112** College Writing (3)  
  Prereq. ENGL 111
- **ENGL 113** College Writing (3)  
  Prereq. ENGL 112

### 2015 MCAT PROFICIENCIES REQUIRED.

- **PSYC 104** General Psychology (4)  
  Prereq: ENGL 111 Can be concurrently enrolled.
- **SOCI 104** General Sociology (4)
- **MATH 155** Introductory Statistics (4)  
  Prereq: MATH 007 or placement

### RECOMMENDED:

- **MDCN 204** Introduction to Medicine (2)

### Additional Information

**Application Service:** AMCAS  
**Entrance Exam:** MCAT taken within 5 years  
**Shadowing/ Volunteering Hours:** Minimum of 50