



Pre-Medicine

PRE-PROFESSIONAL ADVISING

Each year, first-year students begin their studies toward careers in medicine by taking courses in science. Although certain courses are required for entrance into medical schools, no specific major is required. Medical schools seek candidates with a specific and diverse academic background, strong critical-thinking and problem-solving skills, a sincere commitment to a health career, leadership abilities, adequate performance on standardized tests, completion of long application forms, and submission of several letters of recommendation.

Preparation for the health professions involves not only the study of science and technology, but also human nature and knowledge. Medical schools look for well-rounded individuals who are articulate, well-read, caring and giving of their time, and who have the historical and philosophical background to place scientific discoveries in context.

Ripon gives its students an appreciation and awareness of the major areas of human intellectual endeavor and provides a broad foundation upon which specialized studies may be based. The program stresses hands-on learning. Ripon's small size allows our faculty to get to know our students, permitting them to write strong letters of recommendation.

PROGRAM HIGHLIGHTS

- Students work with the Health Professions Advisory Committee to make sure that they are on track to achieve their goals, receive feedback on application materials, practice mock interviews, and receive a letter of recommendation from the committee.
- Ripon students often work as part-time emergency medical technicians (EMTs) for the city of Ripon.
- Volunteer and shadowing opportunities are available at Ripon Medical Center and other area medical facilities.
- Early acceptance program with Lake Erie College of Osteopathic Medicine.

FACULTY

- **COLLEEN BYRON**, professor of chemistry, chair of the Department of Chemistry, L. Leone Oyster '19 Chair in Chemistry
- **MARK COLE**, associate professor of exercise science and chair of the Department of Exercise Science
- **MARK KAINZ**, professor of biology, director of Catalyst curriculum
- **PATRICK WILLOUGHBY**, assistant professor of chemistry
- **BARBARA SISSON**, associate professor of biology

STUDENT HIGHLIGHT



Sam Sondalle '11 of New Haven, Connecticut, majored in chemistry and biology at Ripon College. He is an M.D./Ph.D. candidate in the Department of Genetics at Yale University School of Medicine. He has been awarded an F30 fellowship from the National Institutes of Health a highly competitive pre-doctoral fellowship to support research, and had a preview of a paper published in *Cell*, the most prestigious scientific journal in the area of molecular biology.

CAREER PATHWAYS

An undergraduate degree is a first step going on to receive degrees from allopathic and osteopathic medical schools.

PRE-MEDICINE

AREAS OF STUDY

COURSE REQUIREMENTS

- The specific admission requirements vary from school to school, and a student should plan carefully to ensure your education and work experiences enhance your chances for admission. The following guidelines should be kept in mind when planning an undergraduate curriculum: general biology or zoology (with lab), 4 credit hours (BIO 121); advanced biology or zoology (with lab), 4 credit hours (BIO 211, 216 or 219 for example); general chemistry (with lab), 8 credit hours (CHM 112 and 211); organic chemistry (with

lab), 8 credit hours (CHM 111 and 214); biochemistry, 4 credit hours (CHM 422); physics (with lab), 8 credit hours (PHY 171-172); English, 6 credit hours; statistics (MTH 120 or PSC 211) for most schools and calculus (MTH 201) for some schools. Courses such as human anatomy and physiology, vertebrate zoology, genetics, microbiology, cell biology, psychology and sociology also are helpful when preparing for medical school and the MCAT.

SAMPLE 8-SEMESTER CLASS SCHEDULE

	FALL SEMESTER				SPRING SEMESTER			
	COURSE 1	COURSE 2	COURSE 3	COURSE 4	COURSE 1	COURSE 2	COURSE 3	COURSE 4
FIRST YEAR	Catalyst 110	BIO 121	CHM 111	Your Choice	Catalyst 120	CHM 112	PSC 110	MTH 201
SECOND YEAR	Catalyst 210	CHM 211	BIO 219	Your Choice	Catalyst 220	SOC 110	CHM 214	PHY 172
THIRD YEAR	BIO 211	200 or 300 English Literature	MTH 120 or PSC 211	Your Choice	Applied Innovation Seminar	CHM 422	BIO 312	Your Choice
FOURTH YEAR	Your Choice	Your Choice	Your Choice	Your Choice	Your Choice	Your Choice	Your Choice	Your Choice

This is only a sample for informational purposes. Each student is encouraged to work closely with their academic advisor to tailor a unique schedule that best fits their individualized needs.