

UNIVERSITY OF SOUTHERN INDIANA
BIOLOGY- PRE-MEDICAL TECHNOLOGY EMPHASIS
 99 semester hours plus professional year

FRESHMAN I

Biology 141 (Principles)	4
Chemistry 261§	4
Math 115 or 118	3/5
English 101 (Rhet & Comp I)	<u>3</u>
	14/16

FRESHMAN II

Biology 151 (Botany)	3
Chemistry 262	4
Biology 152 (Zoology)	3
Psychology 201	3
PED 186	<u>1</u>
	14

SUMMER: History – 3 sh, Arts or Global Community – 3 sh

SOPHOMORE I

Biology 375 (Microbiology)	3
Biology 376 (Microbiology lab)	2
Chemistry 353/241	4
English 201 (Rhet & Comp II)	3
PED (activity)	<u>1</u>
	13

SOPHOMORE II

Biology 334 (Cell)	3
Biology 215 (Ecology)	3
Chemistry 354/321	4/3
Math 230 or 241 (Calc I or Stat)	4/3
Speech 101	<u>3</u>
	15/17

SUMMER: Ethics – 3 sh, Western Culture I or II – 3 sh

JUNIOR I

Biology 382 (Genetics)	4
Biology 333 (Animal Phys)	4
Physics 175¶	4
Global Community or Arts	<u>3</u>
	15

JUNIOR II

Biology 481 (Evolution)	3
Biology 442 (Immunology)	3
Physics 176	4
Ind Dev – Soc Behavior	3
Western Culture I or II	<u>3</u>
	16

The schedule displayed above is an example that meets program requirements. Electives can be varied.

§ To enroll in Chem 261 students must have completed Math 111 (College Algebra) or tested into Math 115, 118 or 230. If this prerequisite has not been met, then Chem 261 can be taken Spring Semester and Chem 262 completed during the summer or the following Fall semester. The latter may delay completion or prerequisites for application to schools of medical technology for the senior year.

¶ Math 112, 115, 118 or high school trigonometry is needed for Physics 175 or 176.

Recommended: Biology 335 (Pathophys), Chem 321 (Quant) or Chem 421 (Instrumental I), HP 115 (Med Term), CIS 151, other courses in consultation with advisor.

SENIOR

Professional Year - During the senior year, twelve months training in medical technology may be taken at a hospital affiliated with USI. USI is affiliated with Good Samaritan Hospital, Vincennes, IN and Owensboro Mercy Health System, Owensboro, KY. Applications to these programs must be sent to the Program Director by November 1 of the junior year. The professional year usually begins in July. Good Samaritan may also begin a class in February. Admission is competitive. **Note: Students who have completed the pre-medical technology requirements and a baccalaureate degree may apply to any accredited school of medical technology in the nation.**

A student who does not attend a medical technology program may complete the senior year at USI as a biology major. A baccalaureate degree in biology may be completed by earning a total of 124 hours which must include 45 hours of biology and 39 hours of 300-400 level courses in any discipline.

Pre-Medical Technology Advisor, Dr. Rex M. Strange. Phone: (812) 465-1008

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The Medical Technology programs at Good Samaritan Hospital and Owensboro Mercy Health System are one-year (12 month) accredited programs of professional course work. This period of clinical training is preceded by three years of academic studies in an accredited college of university, and upon successful completion of the one year program, culminates in a baccalaureate degree conferred by the University. Successful completion of a baccalaureate degree and a 12-month medical technology program qualifies a person to take the ASCP national registry exam.

Students seeking admission to medical technology programs must satisfy minimum national admission requirements and adhere to the application procedures. **In practice, programs select applicants who exceed the minimum requirements.**

ADMISSION REQUIREMENTS AND APPLICATION PROCEDURES:

1. The applicant must have acquired a minimum of 90 semester units or 135 quarter units of academic credit and maintain a cumulative or overall grade point average of 2.00 on a 4.0 scale. Successful candidates usually have an average GPA of 3.00 or higher.
2. The applicant must complete 16 semester credits or 24 quarter credits in chemistry; one course in organic chemistry or biological chemistry is required, and it is recommended that one course in Biochemistry, one course in Quantitative Analysis, and one course in Physical Chemistry be included in the above. A grade point average of 2.5 must have been maintained in chemistry courses.
3. The applicant must have completed 16 semester credits or 24 quarter credits in biological sciences. Courses in Microbiology and in Immunology are required, plus it is recommended to include one course each in Genetics, Physiology and Anatomy. A grade point average of 2.5 must have been maintained in the biological science courses.
4. The applicant must have completed one course in college-level mathematics. In addition, a course in Introductory Statistics is recommended but not required.
5. The student must have completed one course in Introductory Psychology.
6. The student must have completed a personal interview with the faculty of the medical technology program at the appropriate hospital(s).
7. All completed applications, evaluations, and supportive materials must be received by the Medical Technology Program Director of the appropriate hospital(s) by November 1 of the year preceding admission.

Note: Individuals who have a baccalaureate degree prior to applying to a medical technology program must meet the minimum admissions requirements listed above. **However, additional courses are needed to make the applicant competitive and may be needed to update an applicant in specific areas.** These individuals may apply to any accredited medical technology program of their choice. Careful advising must be obtained from the director of the chosen medical technology program and the USI pre-medical technology advisor.

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