

**BIOLOGY**  
**(PRE-MEDICAL TECHNOLOGY)**  
 99 semester hours plus professional year

**FRESHMAN I**

Biology 141 (Principles)	4
Chemistry 261	4
Math 115 or 111	3/4
English 101 (Rhet & Comp I)	<u>3</u>
	14/15

**FRESHMAN II**

Biology 151 (Botany)	3
Chemistry 262	4
Biology 152 (Zoology)	3
English 201 (Rhet & Comp II)	3
PED 186 or alternative	<u>1</u>
	14

**SUMMER:** History - 3 hrs, Arts or Global Community - 3 hrs

**SOPHOMORE I**

Biology 375 (Microbiology)	3
Biology 376 (Microbiol Lab)	2
Chemistry 353/241	4
Psychology 201	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
CmSt 101 or 107	<u>3</u>
	15-17

**SUMMER:** Ethics - 3 hrs, Western Culture I or II - 3 hrs

**JUNIOR I**

Biology 382 (Genetics)	4
Biology 333 (Animal Physiology)	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
Indiv Dev-Soc Behavior	3
Western Culture II or I	<u>3</u>
	16

Math 112 or 115 or high school trigonometry is needed for Physics 175 and 176.  
 Recommended: Biology 335 (Pathophys), Chem 321 (Quant) or Chem 421 (Instrumental I),  
 HP 115 (Med Term), Biol 121-122 (Hum Anat & Physiol I-II), Biol 434  
 (Metabolism), 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. Approximately 30 credit hours will be accepted by USI toward completion of a baccalaureate degree in biology.

**Note:** 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, 50 hours of core curriculum, and **39 hours of 300-400 level courses in any discipline.**

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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 or 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 maintained 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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