

***Allied Health/Science Transfer—A.S. Degree  
with concentrations in Pre-Biotechnology,  
Pre-Cytotechnology, or Pre-Medical Technology***

The biotechnologist works in laboratory research in order to solve problems and seek out cures in medicine such as searching for DNA mutations that cause genetic disease. Biotech workers may work with an array of equipment including a variety of microscopes, computers and high tech laboratory instruments. They find employment in private industry, university or government laboratories.

The cytotechnologist is a cell scientist who can differentiate normal, cancerous and abnormal cells taken from biopsies or other body sites. A cytotech may use special staining techniques, microscopes and automated instruments in order to evaluate cells. A cytotech could work in hospitals or reference laboratories.

The medical technologist is highly skilled in order to analyze blood or body fluids in order to determine a patient's health status. A med. tech. may work as a chemist, analyzing serum or as a hematologist identifying microorganisms or performing blood typing and preparing blood for transfusion in a blood bank. As immunologists they test for antibodies in order to aid in diagnosis of diseases such as AIDS.

Students who wish to enter a career in the laboratory sciences such as biotechnology, cytotechnology or medical technology may begin their studies at Manor in the Associate Degree Allied Health/ Science curriculum. This program provides a solid basis in the sciences and liberal arts in order for students to successfully transfer to a four-year institution in one of the laboratory fields. After receiving their bachelor's degree, graduates may sit for a certifying exam.

The student has two different ways in which to complete a concentration in the laboratory sciences. One option is to complete the 65-credit Allied Health curriculum at Manor and transfer to a college for an additional two years. A second alternative is accomplished by completing 71-credits at Manor by attending an additional summer semester. This is recommended if a student is applying for Thomas Jefferson University's 3+1 program. After transferring to Jefferson, the student could then earn a bachelor's degree in as little as one calendar year (12 months) in biotechnology, cytotechnology, or medical technology.

Students must attain a grade of "C" or better in all science courses. Any student with a grade of "D" or "F" in any one of these courses will be required to repeat the course. Students who have a cumulative GPA < 2.0 for two successive semesters may be dismissed from the program.

***(Continued on next page)***

***Allied Health/Science Transfer; A.S. Degree (continued)***

**Suggested Course Sequence**

	<b>Credits</b>
<b>First Semester</b>	
BI 101 Biology I	4
CH 101 Fundamentals of Chemistry I	4
EN 101 Fundamentals of Composition I	3
Mathematics (excluding MH 101 & MH 102)	3
Religion Elective	<u>3</u>
	17
<b>Second Semester</b>	
BI 201 Anatomy and Physiology I	4
Science Elective (CH 102 Chemistry II recommended)	3/4
EN 102 Fundamentals of Composition II	3
History Elective (HS 105 History of Culture, Race & Ethnicity recommended)	3
PL 100 Philosophy and the Human Condition	<u>3</u>
	16/17
<b>Third Semester</b>	
Science Elective (CH 201 Organic Chemistry recommended)	4
Computer Science Core (Required CS 105 or CS 106)	3
Social Science Elective	3
Electives (PH 201 Physics I, MH 203 Statistics recommended)	<u>6/7</u>
	16/17
<b>Fourth Semester</b>	
BI 202 Anatomy and Physiology II	4
Social Science	3
Electives (4 credit biological or chemical science recommended)	<u>9/10</u>
	16/17
<b>Total Credits</b>	<b>65</b>
<b>With Optional Summer Session</b>	<b>71</b>