

THOMAS JEFFERSON UNIVERSITY  
COLLEGE OF HEALTH PROFESSIONS  
AND  
SHIPPENSBURG UNIVERSITY  
AFFILIATE PROGRAMS

*MINIMUM COURSE REQUIREMENTS FOR ENTRY INTO THE PROGRAMS OF*  
**BIOTECHNOLOGY, CYTOTECHNOLOGY, MEDICAL TECHNOLOGY**

(2+2, 3+1 and 4+1 post-baccalaureate programs)  
(and entry-level MS in Bioscience Technology - 2 year program)

**Thomas Jefferson  
Requirements**

**Shippensburg University  
Equivalent Courses (in credits)**

- |  |   |
|--|---|
| 1. Biological Sciences (16 credits)<br>(including physiology, anatomy, microbiology)                       | Principles of Biology I - BIO 115 (4)<br>Principles of Biology II - BIO 116 (4)<br>Microbiology - BIO 220 (3)<br>Human Physiology - BIO 350 (4)<br>Human Anatomy - BIO 371 (4)<br>Immunology - BIO 409 (3) (required for med tech)  |
| 2. Chemistry (laboratory) (8 credits)  | Chemical Bonding - CHM 121 (3)<br>Laboratory IB - CHM 125 (1)<br>Chemical Dynamics - CHM 122 (3)<br>Laboratory IIB - CHM 126 (1)  |
| 3. Organic Chemistry (4 credits)   | Organic Chemistry I - CHM 221 (3)<br>Laboratory IIIB - CHM 225 (1)  |
| 4. College Mathematics (3 credits)   | Finite Math - MAT 108 (3) <b>OR</b><br>Precalculus - MAT 124 (4)  |
| 5. Statistics (3 credits)  | Statistics - MTH 102 (3) <b>OR</b> MTH 170 (4)  |
| 6. English (6 credits)   | Introduction to Fiction - ENG 150 (3)<br>Writing Intensive I <sup>st</sup> year seminar - ENG 106 (3)   |
| 7. Additional Electives -<br>(Should be a mix of Social Sciences/Humanities and additional Sciences*) (16) | <i>A total of 16 Credits of the following courses:</i><br>General Psychology - PSY 101 (3)<br>Principles of Sociology - SOC 101 (3)<br>Art Appreciation - ART 101 (3)<br>Beginning German - GER 101 (3)<br>Early History of the U.S. - HIS 103 (3)<br>World History I - HIS 105 (3)<br>World History II - HIS 106 (3)<br>Introduction to Music - MUS 121 (3)<br>Introduction to Philosophy - PHL 101 (3)<br>Intro. to Human Communication - HCS 100 (3) |

Additional Sciences - See below\*

**MINIMUM CREDITS REQUIRED:** (56 for the 2+2 programs) (71 for the 3+1 program)

**NOTE:** Students who have minimal experience with microcomputers (PCs) should take a computer science course, e.g., IMS 142 or CSC 103

**Students in the 3+1 program are strongly advised to take:**

\* Organic Chemistry II - CHM 222 (3) with CHM 226 lab IVB (1)

\* Biochemistry - CHM 301 (3)

\* Cell Biology - BIO 385 (3)

\*\* entry-level MS requires minimum of 36 cr. of biology/chemistry

**[www.ascls.org](http://www.ascls.org) (for med tech) - [www.asct.com](http://www.asct.com) (for cytotech) - [www.bio.org](http://www.bio.org) (for biotech)**