“Cytotechnologists are laboratory professionals who study cells and cellular anomalies. Using a microscope, they examine slides of human cells for any indication that a cell is abnormal and/or diseased (i.e., cancerous or precancerous lesions, infectious agents or inflammatory processes), mark cellular changes that indicate disease, and submit a report to a pathologist for final evaluation. Using the findings of cytotechnologists, pathologists can diagnose and treat disease -- in many cases, long before it could be detected otherwise.” -http://explorehealthcareers.org/en/Career/27/Cytotechnologist

At MTSU, students can choose to complete a four-year degree in a science related discipline such as Biology or Chemistry. We also offer a 3+1 program in conjunction with the Master’s Degree program at the University of Tennessee Health Science Center (http://uthsc.edu/health-professions/cl/ct/ct-program.php). The three-year program outlined below coupled with one year of successful work at UTHSC satisfies course requirements for the Bachelor of Science in Health Science from MTSU.

### First Year Fall
- **CHEM 1110/1111 General Chemistry I** 4 hrs
- **BIOL 1110/1111 General Biology I** 4 hrs
- **ENGL 1010 Expository Writing** 3 hrs
- **MATH 1710 College Algebra** 3 hrs
- **Elective** 1 hr
  
  **Total:** 15 hrs

### First Year Spring
- **CHEM 1120/1121 General Chemistry II** 4 hrs
- **BIOL 1120/1121 General Biology II** 4 hrs
- **ENGL 1020 Research and Argumentative Writing** 3 hrs
- **PHYS 2010/2011 Non Calculus Based Physics I** 4 hrs
  
  **Total:** 15 hrs

### Second Year Fall
- **CHEM 3010/3011 Organic Chemistry I** 4 hrs
- **BIOL 2230/2231 Microbiology** 4 hrs
- **Literature General Education** 3 hrs
- **Humanities General Education** 3 hrs
- **Elective** 1 hr
  
  **Total:** 15 hrs

### Second Year Spring
- **CHEM 3020/3021 Organic Chemistry II** 4 hrs
- **BIOL 3250/3251 Genetics** 4 hrs
- **US History** 3 hrs
- **Social and Behavioral General Education** 3 hrs
- **Elective** 1 hr
  
  **Total:** 15 hrs

### Third Year Fall
- **Chemistry Upper Division Elective** 3 hrs
- **BIOL 4300/4301 Immunology** 4 hrs
- **COMM 2200 Fundamentals of Communication** 3 hrs
- **Social and Behavioral General Education** 3 hrs
- **Elective** 2 hrs
  
  **Total:** 15 hrs

### Third Year Spring
- **Biology Upper Division Elective** 3 hrs
- **BIOL 4110/4111 General Physiology** 4 hrs
- **Humanities General Education** 3 hrs
- **US History** 3 hrs
- **Electives** 2 hrs
  
  **Total:** 15 hrs

Please note the following:

* A student who has had little or no high school chemistry or is not satisfied with their high school chemistry should first take Chemistry 1010/1011 (Introduction to General Chemistry) before taking CHEM 1110/1111.

** Students can choose either PHYS 2010/2011 or PHYS 1110 Discovering Physics.

*** As an alternate to CHEM 3010/3011 and CHEM 3020/3021 students may choose to take both CHEM 2030/2031 Elements of Organic Chemistry and CHEM 3530/3531 Principles of Biochemistry.

Electives: Students are encouraged to give preference to courses that may have medical applications and will be helpful in the clinical program. Strongly recommended courses are: a statistics course (MATH 1530 or PSY 3020 suggested), HUM 2130 (Medical Vocabulary), and the following Biology Electives: BIOL 2010/2011 Anatomy and Physiology, BIOL 3050/3051 Parasitology, BIOL 4170/4171 Endocrinology, BIOL 4210/4211 Cell Physiology, BIOL 4080/4081 Mycology, BIOL 4440/4441 Virology, BIOL 4430/4431 Diagnostic Microbiology, and BIOL 4130/4131 Histology.

For more information please see your Advisor in the Pre Professional Health Science Advising Center in KUC 316 or email preprof@mtsu.edu.

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