**OUTCOME EXPECTATION FOR STUDENTS**

**BASED ON UNIVERSITY, PROGRAM, AND COURSE LEARNING GOALS**

The student learning goals and objectives, as stated for each medical technology course, provide the foundation for student achievement of the Medical Technology Program’s student learning goals and objectives. Achievement of the Program’s combined goals and objectives is necessary for students to gain the knowledge needed to be successful entry-level medical laboratory scientists, as well as successful on passing the Board of Certification national examination. Additionally, the Medical Technology Program’s student learning goals and objectives support student accomplishment of the University’s general education goals for undergraduate students. The University’s general education goals support a comprehensive understanding of the liberal arts and sciences, fostering student development for success in an increasingly challenging global society. The synergy for this collaborative educational effort is expressed in the table entitled “University and MT Program Educational Goals and Objectives”.

**UNIVERSITY AND MT PROGRAM EDUCATIONAL GOALS AND OBJECTIVES**

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| **UNIVERSITY**  **GENERAL EDUCATION GOALS** | **MT PROGRAM**  **EDUCATIONAL GOALS**  **SUPPORT**  **GEN. ED.**  **GOALS** | **MEDICAL TECHNOLOGY PROGRAM**  **EDUCATIONAL GOALS** | **MT PROGRAM**  **EDUCATIONAL**  **OBJECTIVES**  **SUPPORT**  **MT PROGRAM**  **EDUCATIONAL GOALS** | **MT PROGRAM**  **EDUCATIONAL**  **OBJECTIVE**  **SUPPORTS**  **GEN. ED.**  **GOAL(S)** | **MEDICAL TECHNOLOGY PROGRAM**  **EDUCATIONAL OBJECTIVES** |
| 1 Attain effective skills in oral  and written communication,  quantitative reasoning, and  the use of information  technology. | GEN. ED. #  1, 2, 3, 7 | To provide students with an excellent comprehensive education in medical laboratory science leading to a baccalaureate degree. | MT PROGRAM EDUC. OBJ. #  1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 14, 16 | GEN. ED. #7 | 1 Demonstrate proper procedures for  the collection, safe handling, and  analysis of biological specimens. |
| 2 Learn to think critically to  solve problems. | GEN. ED. #  1, 2, 3, 4, 7 | To prepare students to function in career-entry, professional positions as medical laboratory science practitioners for the healthcare environment of the 21st century. | MT PROGRAM EDUC. OBJ. #  1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 16 | GEN. ED. # 7 | 2 Utilize scientific principles (e.g.,  physiology, immunology,  biochemistry, molecular  biology/genetics, microbiology,  etc.), laboratory principles, and  methodologies for the clinical setting. |
| 3 Be able to work and learn  both independently and  collaboratively. | GEN. ED. #  3, 5, 6 | To prepare students to be life-long learners so as to remain current with advances in medical laboratory science. | MT PROGRAM EDUC. OBJ. #  12, 13, 14, 15, 16,17 | GEN. ED. #7 | 3 Perform laboratory testing with  accuracy. |
| 4 Engage questions of ethics  and recognizes  responsibilities to self,  community, and society at  large. | GEN. ED. #  8, 9, 10 | To prepare students to function in a culturally diverse, global society that demonstrates variations in intellectual expression and human creativity. | MT PROGRAM EDUC. OBJ. #  18, 19, 20 | GEN. ED. #2 | 4 Evaluate problems that impact on  laboratory services and take  corrective action. |
| 5 Understand the diverse  ways of thinking that  underlie the search for  knowledge in the arts,  humanities, sciences and  social sciences. |  |  |  | GEN. ED. #2 | 5 Operate equipment properly,  troubleshoot, and perform preventive  and corrective maintenance. |
| 6 Develop the intellectual  curiosity, confidence, and  engagement that will lead to  lifelong learning. |  |  |  | GEN. ED. #7 | 6 Utilize proper techniques in the  performance of all laboratory testing. |
| 7 Develop the ability to  integrate academic  knowledge with experiences  that extend the boundaries  of the classroom. |  |  |  | GEN. ED. #2 | 7 Interpret clinical significance, clinical  procedures, and laboratory test data  accurately. |
| 8 Expand understanding and  appreciation of human  creativity and diverse forms  of aesthetic and intellectual  expression. |  |  |  | GEN. ED. #1 | 8 Evaluate laboratory data using  statistical analysis. |
| 9 Understand the foundations  of United States society  including the significance of  its cultural diversity. |  |  |  | GEN. ED. #2 | 9 Apply principles of continuous  assessment to all laboratory  services. |
| 10 Develop an international  perspective in order to live  and work effectively in an  increasingly global society. |  |  |  | GEN. ED. #1, 2 | 10 Utilize principles of quality  assurance and quality improvement  for all phases of laboratory services,  i.e., pre-analytical, analytical, and  post-analytical. |
|  |  |  |  | GEN. ED. #7 | 11 Comply with established laboratory  safety regulations and regulations  governing regulatory compliance  related to laboratory practice. |

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| **UNIVERSITY**  **GENERAL EDUCATION GOALS** | **MT PROGRAM**  **EDUCATIONAL GOALS**  **SUPPORT**  **GEN. ED.**  **GOALS** | **MEDICAL TECHNOLOGY PROGRAM**  **EDUCATIONAL GOALS** | **MT PROGRAM**  **EDUCATIONAL**  **OBJECTIVES**  **SUPPORT**  **MT PROGRAM**  **EDUCATIONAL GOALS** | **MT PROGRAM**  **EDUCATIONAL**  **OBJECTIVE**  **SUPPORTS**  **GEN. ED.**  **GOAL(S)** | **MEDICAL TECHNOLOGY PROGRAM**  **EDUCATIONAL OBJECTIVES** |
|  |  |  |  | GEN. ED. #1,3 | 12 Communicate, through oral and  written skills, effectively and  professionally to enable  consultative and educational interactions with health care personnel, the public, and patients in order to function successfully as a member of the healthcare team. |
|  |  |  |  | GEN. ED. #4, 6 | 13 Demonstrate ethical behavior and  professionalism, maintain  confidentiality of patient information,  and participate in continuing  education for one’s own  professional career development. |
|  |  |  |  | GEN. ED. #3 | 14 Apply principles of educational  methodology to educate providers  and users of laboratory services. |
|  |  |  |  | GEN. ED. #5 | 15 Evaluate published scientific studies  utilizing knowledge of research  design. |
|  |  |  |  | GEN. ED. #1, 2, 3 | 16 Apply principles and concepts of  laboratory operations to critical  pathways and clinical decision  making, performance improvement,  dynamics of healthcare delivery  systems in relationship to laboratory  services, human resource  management, and financial  management. |
|  |  |  |  | GEN. ED. #6 | 17 Demonstrate a commitment to the  future of the medical laboratory  profession through involvement in a  national professional society. |
|  |  |  |  | GEN. ED. #8 | 18 Demonstrate an understanding of  human creativity and of various  types of aesthetic and intellectual  expression through study of the  liberal arts. |
|  |  |  |  | GEN. ED. #9 | 19 Demonstrate an understanding of  the significance of cultural diversity  as exhibited within the United  States through study of the liberal  arts including completion of a  multicultural course. |
|  |  |  |  | GEN. ED. #10 | 20 Demonstrate an understanding of  the impact of globalization through  study of the liberal arts. |

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