

# Medical Technology BS

## *Expanded Statement of Institutional Purpose*

### **Institutional Mission Reference**

The Baccalaureate of Science in Medical Technology (BSMT) Program offers undergraduate students a high quality degree program in Medical Technology/Clinical Laboratory Science that meets national standards of excellence. Program faculty are committed to quality teaching and the discovery of new knowledge. The faculty support the institutional mission to serve a diverse student body, including members of the military services, and to provide opportunities for lifelong learning. To that end, the program offers courses on campus, through the Weekend College (including distance education sites).

### **Institutional Goal(s) Supported**

The BSMT Program supports the University goals of a) quality undergraduate programs, b) quality teaching, c) discovery of new knowledge, d) lifelong learning, and e) distance education. The BSMT Program also supports Strategic Initiative 1 to provide high quality, distinctive undergraduate programs and Strategic Initiative 5 to increase the range of programs offered at distance education sites.

## *Intended Educational (Student) Outcomes, Methods for Assessment, Criteria for Success, Assessment Results, and Use of Results*

### **Intended Outcome 1**

Graduates of the BSMT Program will achieve a passing score on National Certification examinations for Medical Technology/Clinical Laboratory Science.

### **Method for Assessing Outcome 1 and Criterion for Success:**

Seventy-five to eighty (75-80) percent of traditional on-campus and Weekend College students will pass National Certification examinations for Medical Technology/Clinical Laboratory Science on the first attempt. Comparisons will be made among traditional on-campus students and Weekend College students.

### **Summary of Assessment Data Collected for Outcome 1:**

The Program (1st timers) pass rates for 1999 and 2000 were 77% and 87% respectively. The national pass rate for both years was 77% (see Appendix, Table 1). The pass rates for traditional students were 80% and 75% for 1999 and 2000, respectively. The pass rates for weekend students were 75% and 100% for 1999 and 2000 respectively. Both traditional and weekend students met or exceeded the criterion for success for years 1999 and 2000 (see Appendix, Table 2).

**Alternate Method for Assessing Outcome 1 and Criterion for Success:** The BSMT Program pass rate on the National Certification examination for Medical Technology/Clinical Laboratory Science will be at or above the national mean. Comparisons will be made between traditional on-campus students and Weekend College students.

**Summary of Assessment Data Collected, Alternate Method for Outcome 1:** The Program mean for 1999 exceeded the national mean. However, the Program mean for 2000 was 3 points below the national mean. Traditional students scored two (2) points below the mean in 1999 and eight (8) points below the mean in 2000. Weekend students scored above the mean in 1999 and two (2) points below the mean in 2000 (see Appendix, Table 3).

**Use of Assessment Results from Intended Outcome 1 to Improve Academic Program:** Review, revision, and coordination of the on-campus and clinical curricula by Medical Technology/Clinical Laboratory Science faculty and clinical instructors is ongoing in order to identify changes in workplace practices and to update the theoretical and practical curricula content. Faculty have recently completed phase one and are working on phase two of a project to assist students in MT Seminar with their preparation for the national certification examination. Phase one efforts have culminated in the development of an asynchronous format for MT Seminar which allows students to take practice examinations on a schedule that coincides with assigned practica. Phase two will produce alternative practice examinations in each sub-content area expanding students' practice opportunities.

**Intended Outcome 2**  
BSMT students will attain the cognitive and psychomotor skills necessary for competent entry-level practitioners

**Method for Assessing Outcome 2 and Criterion for Success:**  
BSMT alumni will rate their preparation as entry-level practitioners as 4.0 (Very Good) or above on a scale of 0-5 using an alumni survey tool.

**Summary of Assessment Data Collected for Outcome 2:**  
Alumni were surveyed and asked to rate their preparedness as entry-level practitioners in theoretical and practical knowledge, knowledge of safety practices and quality control/assurance, problem solving, correlation of theory and computer skills, overall academic preparation, and adaptability. BSMT alumni (traditional) rated their preparedness at 4.0, which meets the criterion for success (see Table 4).

**Use of Assessment Results from Intended Outcome 2 to Improve Academic Program:**

Program faculty will continue to use survey results and other feedback from alumni to make appropriate curricula changes.

**Intended Outcome 3**

BSMT Alumni will demonstrate effectively the cognitive and psychomotor skills that are expected of competent entry-level practitioners

**Method for Assessing Outcome 3 and Criterion for Success:**

Employers will rate the entry-level competence of BSMT alumni as 4.0 (Very Good) or above on a scale of 0-5 using an employer survey tool.

**Summary of Assessment Data Collected for Outcome 3:**

Employers were surveyed and asked to rate the preparedness of alumni as entry-level practitioners in theoretical and practical knowledge, knowledge of safety practices and quality control/assurance, problem solving, correlation of theory and computer skills, overall academic preparation, and adaptability. Employers rated the preparedness of BSMT alumni (traditional) at 4.0, which meets the criterion for success (see Table 5).

**Use of Assessment Results from Intended Outcome 3 to Improve Academic Program:**

Program faculty will continue to use survey results and other feedback from employers to make appropriate curricula changes.

**Intended Outcome 4**

BSMT Program students will demonstrate the affective skills expected of competent and professional Medical Technologists/Clinical Laboratory Scientists.

**Method for Assessing Outcome 4 and Criterion for Success:**

One hundred (100) percent of BSMT Program students will meet or exceed the professional characteristics criteria as outlined on evaluation forms completed by their clinical instructors.

**Summary of Assessment Data Collected for Outcome 4:**

All students (100%) were identified by clinical instructors as meeting or exceeding five (5) professional characteristics: dependability, compliance, ethical behavior, interpersonal relations, and adaptability. The criterion for success was met for five (5) of six (6) professional characteristics. One professional characteristic, initiative, was met or exceeded by all but one student (see Appendix, Figure 1).

**Use of Assessment Results from Intended Outcome 4 to Improve Academic Program:**

Faculty continue to emphasize and stress expected student affective behaviors throughout the curriculum and in formal sessions immediately preceding clinical practicum courses.

**Intended Outcome 5**

Students completing the Medical Technology/Clinical Laboratory Science Program will receive a solid, high quality foundation in each of the disciplines that comprise laboratory science. (on-campus and Weekend College students).

**Method for Assessing Outcome 5 and Criterion for Success:**

Eighty (80) percent of the seniors from the Medical Technology/Clinical Laboratory Science Program will indicate on the annual Senior Student Satisfaction Survey that they are "Satisfied or Very Satisfied" with the program in areas such as: (a) quality of instruction in the major curriculum, (b) quality of curriculum (including internships), (c) clarity and attainment of program goals. Comparisons will be made among traditional on-campus students and Weekend College students.

**Summary of Assessment Data Collected for Outcome 5:**

More than eighty (80) percent of all Medical Technology/Clinical Laboratory Science Program seniors in 1999-2000 indicated that they were "Satisfied or Very Satisfied" with the Program on the annual Senior Satisfaction Survey. The survey areas identified in this report are: quality of curriculum, instruction in major, course availability, clarity of program goals, extent goals met, quality of internships, and knowledge of subject matter. Eighty (80) percent or more of traditional senior students were "Satisfied or Very Satisfied" with all areas except one, quality of internships (71% were "Satisfied or Very Satisfied"). Eighty (80) percent or more of the weekend senior students were "Satisfied or Very Satisfied" with all areas (see Appendix, Figure 2). The criterion for success was met for six (6) of the seven (7) areas.

**Use of Assessment Results from Intended Outcome 5 to Improve Academic Program:**

Procurement and evaluation of practicum sites is an ongoing process. Specific student comments will be evaluated so that changes can be made to maintain quality internships. Sites are closely monitored to standardize the quality of experiences offered.