

# Medical Technology Baccalaureate

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## *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 supports 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 rate for 2001 & 2003 was 82%. The national pass rate for both years was 82%. The pass rates for traditional students was 81%. The pass rates for weekend students was 83%. Both traditional and weekend students met or exceeded the criterion for success for years 2001 and 2002.

**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 2001 was above the national mean (81%). However, the Program mean for 2002 was 1 point below the national mean (83%).

**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 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 produced 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.

The grading policy for MT Seminar was revised in order to place more emphasis on the preparation needed for success on the comprehensive examination given at the end of the course.

### **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 4.3, which exceeds 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 3.9, which is below 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 all six professional characteristics evaluated: initiative, dependability, compliance, ethical behavior, interpersonal relations, and adaptability. The criterion for success was met or exceeded by all students.

**Alternate Method for Assessing Outcome 4 and Criterion for Success:** 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:** . The areas identified on the annual Senior Satisfaction Survey (traditional students) 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 surveyed on the 2000-2001 survey were "Satisfied or Very Satisfied" with all areas except quality of internships (42%), course availability (63%), and extent goals met (75%). The criterion for success was met for four (4) of the seven (7) areas.

Eighty (80) percent or more of the weekend senior students were "Satisfied or Very Satisfied" with all areas (10).

Eighty (80) percent or more of traditional senior students surveyed on the 2001-2002 survey were "Satisfied or Very Satisfied" with all areas except quality of instruction (60%). The criterion for success was met for six (6) of the seven (7) areas.

Eighty (80) percent or more of the weekend senior students were "Satisfied or Very Satisfied" with all areas (10).

**Use of Assessment Results from Intended Outcome 5 to Improve Academic Program:** Procurement and evaluation of practicum sites is an ongoing process. Sites are closely monitored to standardize the quality of experiences offered. Instructional methods, delivery formats and program goals are reviewed and revised periodically.