McNEESE STATE UNIVERSITY

# Medical Laboratory Science [MLSC]

**Cycles included in this report:**
Jun 1, 2018 to May 31, 2019

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# Program Name: Medical Laboratory Science [MLSC]

## Reporting Cycle: Jun 1, 2018 to May 31, 2019

**1 Is this program offered via Distance Learning?**

100% Traditional or less than 50% Distance/Traditional

**2 Is this program offered at an off-site location?**

No

**2.1 If yes to previous, provide addresses for each location where 50% or more of program credits may be earned.**

**3 Example of Program Improvement**

2015-2016:
In 2015-2016 students have shown more diverse participation in professional organizations than the past two years.

2016-2017:
While no specific recommendations came from clinical instructors, our continued efforts for program improvement led to the following actions: a $5,000 Endowed Professorship Grant was written and received for supplies to update student slides for hematology and microbiology campus labs. This project was completed and implemented during the 2016-2017 academic year. In addition, a $79,000 BOR Enhancement Grant was written and received to improve Blood Bank lab simulations by allowing for the purchase of eight cell washers, heat blocks, and several other miscellaneous laboratory supplies, such as racks, tubes, and sterile saline.

2017-2018:
Evidence from a 2015 Clinical Instructor Survey indicated that clinical instructors wanted MLS students to be better prepared for microbiology labs. Survey recommendation: *"Could use better prep micro course. Lot to cover in last year of internship." 7/22/2015 9:50 AM.*
To address this issue, a $5,000 Endowed Professorship Grant was written and received for the purchase of a microscope camera to be used for streamlining classroom viewing/instruction and the capture of digital images. Lab activities were updated to improve microscopic interpretation skills. When reviewing senior level assignments, a 17% increase was noted in pre-assignment and post-assignment grades.

2018-2019:
Departmental and program outcomes revealed a 32% increase in student enrollment from Spring 2018 to Spring 2019. With increased enrollment came the need for increased lab stations and additional equipment. A $2000 grant was received from the ASCP Foundation to offset expenses in obtaining additional equipment and software for student labs. Laboratory equipment/resources will continue to be evaluated through routine assessment tools, i.e. Graduate Exit Survey and Student Evaluation of Instruction.

Additional program outcomes revealed a need for improving ASCP BOC preparation. This year's cohort is piloting Harr's Medical Laboratory Science Review, an online review program. Improvements will be assessed over the next 3 years via ASCP BOC test scores.

**4 Program Highlights from the Reporting Year**

2015-2016:
- Moved to the College of Nursing and Health Professions. Hired administrative assistant.
- Received $5000 EP Grant for Student Slide Project.
- Received $79,000 BOR Enhancement Grant for Blood Bank Simulation Lab.

2016-2017:
- 100% of graduates hired before graduating; 73% hired in Lake Charles, LA.
- Faculty members attended NAACLS Workshop (Accreditation Workshop).

- Faculty members attended CLEC (Educator's Conference).
- Faculty members and students attended LSCLS Meeting (State Meeting).
- Received $5000 EP Grant for Professional and Program Development.

2017-2018:

- First attempt ASCP BOC pass rates increased by 12% from 2016-2017.
- Students placed 4th out of 22 teams in Quiz Bowl at LA/MS Bi-State Meeting in Biloxi, MS.
- 75% of graduates hired within two months of graduating; 67% hired in Louisiana.
- Faculty members and students attended LA/MS Bi-State Meeting.
- Received $5000 EP Grant for Streamlining Microscopic Interpretation Skills with Technology.

2018-2019:

- 100% of graduates hired within a medical laboratory.
- 78% of graduates hired before graduating, remaining 22% hired within 2 months of graduating.
- 78% of graduates employed within the state of Louisiana (78% Lake Charles, LA), remaining 22% employed in Houston, TX.
- Received $5000 Endowed Professorship Grant for improvements/upgrades to Microbiology equipment and Professional Development.
- Received $2000 ASCP Educator's Grant for improvements/updgrades to Hematology software and equipment.
- Faculty member attended Interprofessional Education of Nursing Students in Washington, DC.
- Program Director attended ASCP Annual Meeting, MS/LSCLS Bi-State Meeting, NAACLS Workshop (Accreditation Workshop), CLEC (Educator's Conference), and ASCLS Annual Meeting (Served as Louisiana Delegate).
- Program Spotlight in National Newsletter: "Our Diversity is Showing", *ASCLS Today (American Society of Clinical Laboratory Scientists)*, page 6, Volume XXXII, Number 7, December 2018.

**5 Program Mission**

The mission of McNeese State University’s Medical Laboratory Science Program is to provide students with unique opportunities and medical expertise which foster critical thinking skills, while encouraging professional advancement and a lifelong love of learning. Such opportunities facilitate the success of personal and professional goals within a global society, while contributing to a strong sense of ethical responsibility.

**6 Institutional Mission Reference**

The foundation for student success begins with faculty commitment to excellence in teaching, research and scholarly activity. At McNeese State University, a member of the University of Louisiana System, students cultivate skills for critical thinking, effective expression, and gain an understanding of the global community. The learning and social environment integrates discipline-specific knowledge with the values of lifelong learning, ethical responsibility, and civic engagement.

**7 Assessment and Benchmark** MLS 210 Test 3

Assessment: MLS 210 - Introduction to Medical Laboratory Science Test 3.

Test 3 topics include, but are not limited to: blood borne pathogens, infection control, governmental agencies, personal safety, fire safety, NFPA chemical rating system, chemical spill cleanup, electrical safety, biosafety hoods, and common hazard signs found in a medical laboratory.

Benchmark: 75% of MLS 210 - Introduction to Medical Laboratory Science students will score 85% (B) or better on Test 3.

Course Links

**MLS210 [Introduction to Medical Laboratory Science (Lec. 3, Cr. 3)]**

Outcome Links

**Application of Regulations and Standards [Program]**
Medical Laboratory Science graduates will display basic knowledge and skills in the application of safety and governmental regulations and standards as applied to medical laboratory science.

### 7.1 Data

| Academic Year | Students with score of 85% or higher | |
|---|---|---|
| | # | % |
| 2016-2017 | – | 75% |
| 2017-2018 | – | 75% |
| 2018-2019 | 24/30 | 80% |

Course Links

**MLS210 [Introduction to Medical Laboratory Science (Lec. 3, Cr. 3)]**

#### 7.1.1 Analysis of Data and Plan for Continuous Improvement

2016-2017:
Benchmark met. Although the benchmark was met, faculty would prefer to see higher test scores. Additional assignments and/or review activities will be added to improve achievement levels.

2017-2018:
Benchmark met. The safety learning module was updated in the following areas: Blood Borne Pathogens, Global Health System Symbols, Safety Data Sheets, Radiation, Chemical, Electrical Shock. Updates included new PowerPoint slides, test questions, and assignments.

2018-2019:
Benchmark met. Module 3 test scores improved by 5% when compared to previous years. Additional review questions were added to the learning module assignment. Assignments and exams will be reviewed and updated as needed pending outcome assessments.

Course Links

**MLS210 [Introduction to Medical Laboratory Science (Lec. 3, Cr. 3)]**

## 8 Assessment and Benchmark MLS 430 Test 1

Assessment: MLS 430 - Clinical Orientation and Phlebotomy Test 1 and the student evaluation of laboratory skills.

Test 1 topics include, but are not limited to: personal protective equipment, infection control, governmental agencies, fire safety, radiation safety, mechanical safety, NFPA chemical rating system, chemical spill cleanup, electrical safety, and hazard symbols. Student evaluation of lab skills are performed by clinical instructors at each medical laboratory.

Benchmark: 90% of MLS 430 - Clinical Orientation and Phlebotomy students will score 85% (B) or better on Test 1 and the student evaluation of laboratory skills.

Course Links

**MLS430 [Clinical Orientation and Phlebotomy (Lec. 2, Cr. 2)]**

Outcome Links

**Application of Regulations and Standards [Program]**
Medical Laboratory Science graduates will display basic knowledge and skills in the application of safety and governmental regulations and standards as applied to medical laboratory science.

### 8.1 Data

| Academic Year | Students with score for Test 1 of 85% or higher | | Students with student evaluation score of 85% or higher | |
|---|---|---|---|---|
| | # | % | # | % |
| 2016-2017 | – | 100% | – | 100% |
| 2017-2018 | – | 100% | – | 100% |
| 2018-2019 | 6/6 | 100% | 6/6 | 100% |

Course Links

**MLS430 [Clinical Orientation and Phlebotomy (Lec. 2, Cr. 2)]**

### 8.1.1 Analysis of Data and Plan for Continuous Improvement

2016-2017:
Both benchmarks met. This course is updated each year with the latest policies and procedures in laboratory safety.

2017-2018:
Benchmarks met. All learning modules were updated with new competency evaluations and textbook PowerPoint notes.

2018-2019:
Both benchmarks met. This was an exceptionally small group of learners - class size is expected to be back to normal next year. Learning module was updated with new and improved HIPAA videos for ease of comprehension.

Course Links

**MLS430 [Clinical Orientation and Phlebotomy (Lec. 2, Cr. 2)]**

## 9 Assessment and Benchmark MLS 434 Leadership Self-Assessment [Approved]

Assessment: MLS 434 - Special Topics students will participate in the online self-assessment of leadership, "*What's Your Leadership Style?*", and discuss results with classmates and the instructor.

Benchmark: 100% of MLS 434 - Special Topics students will participate in the online self-assessment of leadership.

Course Links

**MLS434 [Special Topics (Lec. 3, Cr. 3)]**

Outcome Links

**Administration and Supervision [Program]**
Medical Laboratory Science graduates will recognize principles and practices of administration and supervision as applied to medical laboratory science.

### 9.1 Data

| Academic Year | Student participation | |
|---|---|---|
| | # | % |
| 2016-2017 | – | 100% |
| 2017-2018 | – | 100% |
| 2018-2019 | 7/7 | 100% |

Course Links

**MLS434 [Special Topics (Lec. 3, Cr. 3)]**

### 9.1.1 Analysis of Data and Plan for Continuous Improvement

2016-2017:
Benchmark met. Students continue to enjoy this exercise and evaluating their leadership styles.

2017-2018:
Benchmark met. A face-to-face classroom discussion was added for a more in depth peer review of leadership styles. Discussions in previous semesters were online.

2018-2019:
Benchmark met. Students enjoyed the face-to face in depth discussion. Feedback revealed interest in a more detailed personal assessment. Instructors will search for an updated leadership assessment for next year's class.

Course Links

**MLS434 [Special Topics (Lec. 3, Cr. 3)]**

## 10 Assessment and Benchmark MLS 434 Test 1

Assessment: MLS 434 - Special Topics Test 1.

Test 1 topics include, but are not limited to: organizational charts, management styles and theories, directive techniques, motivational theories, federal regulations, governmental agencies, and organizations.

Benchmark: 90% of MLS 434 - Special Topics students will score 85% or better on Test 1.

Course Links

**MLS434 [Special Topics (Lec. 3, Cr. 3)]**

Outcome Links

**Administration and Supervision [Program]**
Medical Laboratory Science graduates will recognize principles and practices of administration and supervision as applied to medical laboratory science.

**Application of Regulations and Standards [Program]**
Medical Laboratory Science graduates will display basic knowledge and skills in the application of safety and governmental regulations and standards as applied to medical laboratory science.

### 10.1 Data

| Academic Year | Students with score of 85% or higher | |
|---|---|---|
| | # | % |
| 2016-2017 | – | 100% |
| 2017-2018 | – | 86% |
| 2018-2019 | 5/7 | 71% |

Course Links

**MLS434 [Special Topics (Lec. 3, Cr. 3)]**

### 10.1.1 Analysis of Data and Plan for Continuous Improvement

2016-2017:
Benchmark met. This topic is updated each year with current management theories, and the latest state and governmental regulations. No immediate action is required.

2017-2018:

Benchmark met. Notes and test questions in this learning module were completely updated to correlate with ASCLS's latest Entry Level Curriculum Guidelines. ASCLS is the American Society for Clinical (Medical) Laboratory Scientists.

2018-2019:
Benchmark not met. Updated notes and test questions were challenging to this small group of students. Reinforcement assignments will be added to improve learning experience for next year's group.

Course Links

**MLS434 [Special Topics (Lec. 3, Cr. 3)]**

## 11 Assessment and Benchmark Employer Survey of Graduate

Assessment: Employer Survey of Graduate categories:

3. Quality of work.
4. Skills and competence.
5. Knowledge of laboratory tests.
6. Ability to work independently.
7. Cooperation and communication.
8. Professionalism and ethics.
9. Attendance and punctuality.
10. Overall opinion of graduate.

Benchmark 1: 80% of first time employers will rate MLS graduates as "Outstanding" or "Meets Expectations" on the Employer Survey of Graduate in the following categories:

3. Quality of work
4. Skills and competence.

Benchmark 2: 80% of first time employers will rate MLS graduates as "Outstanding" or "Meets Expectations" on the Employer Survey of Graduate in the following category:

7. Cooperation and communication.

Benchmark 3: 80% of first time employers will rate their overall opinion of MLS graduates as "Outstanding" or "Meets Expectations" on the Employer Survey of Graduate in the following categories:

7. Cooperation and communication.
8. Professionalism and ethics.
9. Attendance and punctuality.
10. Overall opinion of graduate.

Outcome Links

**Clinical Study [Program]**
Medical Laboratory Science graduates will exhibit principles and practices of clinical study design, implementation, and dissemination of medical test results.

**Communications [Program]**
Medical Laboratory Science graduates will demonstrate communications sufficient to serve the needs of patients, the public, and members of the health team.

**Professional Conduct and Development [Program]**
Medical Laboratory Science graduates will exhibit principles and practices of professional conduct and the significance of continuing professional development.

### 11.1 Data

2014-2015:

| Category | Outstanding | Meets Expectations | Total |
|---|---|---|---|
| 3. | 50% | 50% | 100% |
| 4. | 50% | 50% | 100% |

2015-2016:

| Category | Outstanding | Meets Expectations | Total |
|---|---|---|---|
| 3. | 80% | 20% | 100% |
| 4. | 75% | 25% | 100% |

2016-2017:

| Category | Outstanding | Meets Expectations | Total |
|---|---|---|---|
| 3. | - | 100% | 100% |
| 4. | - | 100% | 100% |

2017-2018:

| Category | Outstanding | Meets Expectations | Total |
|---|---|---|---|
| 3. | 33.3% | 66.7% | 100% |
| 4. | 33.3% | 66.7% | 100% |

2018-2019:

| Category | Outstanding | | Meets Expectations | | Total | |
|---|---|---|---|---|---|---|
| | # | % | # | % | # | % |
| 3. | 1/1 | 50% | 1/1 | 50% | 2/2 | 100% |
| 4. | 1/1 | 50% | 1/1 | 50% | 2/2 | 100% |

Outcome Links

**Clinical Study [Program]**
Medical Laboratory Science graduates will exhibit principles and practices of clinical study design, implementation, and dissemination of medical test results.

### 11.1.1 Analysis of Data and Plan for Continuous Improvement

2016-2017:
Benchmark met. Employers are asked to complete a short survey of MLS graduates approximately six months after initial employment. Participation is voluntary. We will continue to stress the importance of employer feedback when meeting with our lab directors.

2017-2018:
Benchmark met, although slightly lower than previous years. Faculty members will update campus lab activities to better prepare students for their clinical internship and discuss any notable deficiencies with clinical instructors.

2018-2019:
Benchmark met. Due to this year's extremely small graduating class, only four students were hired in town. Two of the employers responded to the survey. We expect increased participation with next year's larger class size.

## 11.2 Data

2014-2015:

| Category | Outstanding | Meets Expectations | Total |
|---|---|---|---|
| 7. | 100% | — | 100% |

2015-2016:

| Category | Outstanding | Meets Expectations | Total |
|---|---|---|---|
| 7. | 100% | — | 100% |

2016-2017:

| Category | Outstanding | Meets Expectations | Total |
|---|---|---|---|
| 7. | 100% | — | 100% |

2017-2018:

| Category | Outstanding | Meets Expectations | Total |
|---|---|---|---|
| 7. | 33.3% | 66.7% | 100% |

2018-2019:

| Category | Outstanding | | Meets Expectations | | Total | |
|---|---|---|---|---|---|---|
| | # | % | # | % | # | % |
| 7. | 1/1 | 50% | 1/1 | 50% | 2/2 | 100% |

Outcome Links

**Communications [Program]**
Medical Laboratory Science graduates will demonstrate communications sufficient to serve the needs of patients, the public, and members of the health team.

### 11.2.1 Analysis of Data and Plan for Continuous Improvement

2016-2017:
Benchmark met. Employers are asked to complete a short survey of MLS graduates approximately six months after initial employment. Participation is voluntary. We will continue to stress the importance of employer feedback when meeting with our lab directors.

2017-2018:
Benchmark met. Cooperation and communication was slightly lower this year, but remains a strong point with our students. Cooperation and communication skills will be reviewed and updated as needed in MLS 430 - Clinical Orientation and Phlebotomy.

2018-2019:
Benchmark met. Due to this year's extremely small graduating class, only four students were hired in town. Half (2) of the employers responded to the survey. We expect increased participation with next year's larger class size.

## 11.3 Data

2014-2015:

| Category | Outstanding | Meets Expectations | Total |
|---|---|---|---|
| 7. | 100% | - | 100% |
| 8. | 100% | - | 100% |
| 9. | 100% | - | 100% |
| 10. | 50.00% | 50.00% | 100% |

2015-2016:

| Category | Outstanding | Meets Expectations | Total |
|---|---|---|---|

| | | | |
|---|---|---|---|
| 7. | 100% | - | 100% |
| 8. | 80.00% | 20.00% | 100% |
| 9. | 80.00% | 20.00% | 100% |
| 10. | 80.00% | 20.00% | 100% |

2016-2017:

| Category | Outstanding | Meets Expectations | Total |
|---|---|---|---|
| 7. | 100% | - | 100% |
| 8. | 100% | - | 100% |
| 9. | 100% | - | 100% |
| 10. | - | 100% | 100% |

2017-2018:

| Category | Outstanding | Meets Expectations | Total |
|---|---|---|---|
| 7. | 33.3% | 66.7% | 100% |
| 8. | 33.3% | 66.7% | 100% |
| 9. | 66.7% | 33.3% | 100% |
| 10. | 33.3% | 66.7% | 100% |

2018-2019:

| Category | Outstanding | | Meets Expectations | | Total | |
|---|---|---|---|---|---|---|
| | # | % | # | % | # | % |
| 7. | 1/1 | 50% | 1/1 | 50% | 2/2 | 100% |
| 8. | 1/1 | 50% | 1/1 | 50% | 2/2 | 100% |
| 9. | 1/1 | 50% | 1/1 | 50% | 2/2 | 100% |
| 10. | 1/1 | 50% | 1/1 | 50% | 2/2 | 100% |

Outcome Links

**Application of Regulations and Standards [Program]**
Medical Laboratory Science graduates will display basic knowledge and skills in the application of safety and governmental regulations and standards as applied to medical laboratory science.

### 11.3.1 Analysis of Data and Plan for Continuous Improvement

2016-2017:
Benchmark met. Employers are asked to complete a short survey of MLS graduates approximately six months after initial employment. Participation is voluntary. We will continue to stress the importance of employer feedback when meeting with our lab directors.

2017-2018:
Benchmark met. Although employers are pleased with MLS graduates, employer participation remains a challenge. The importance of survey participation will be stressed with clinical visits throughout the year and discussed at the upcoming MLS Advisory Meeting.

2018-2019:
Benchmark met. Due to this year's extremely small graduating class, only four students were hired in town. Half (2) of the employers responded to the survey. We expect increased participation with next year's larger class size.

## 12 Assessment and Benchmark Medical Laboratory Rotations

Assessment: Each course evaluates the student's overall knowledge, judgement, competency, and interpretation of test procedures. Evaluations are performed by LSBME licensed clinical instructors. Laboratory rotation grades are based upon many factors, including skills, judgement, competency, professionalism, and overall knowledge of lab sections.

Benchmark: 90% of senior MLS students will score 93% (A) or better in the following laboratory rotations.

- MLS 402 - Clinical Microbiology Laboratory
- MLS 410 - Clinical Immunohematology Laboratory Blood Bank
- MLS 414 - Clinical Chemistry Laboratory
- MLS 418 - Clinical Hematology Laboratory
- MLS 422 - Clinical Immunology Laboratory
- MLS 426 - Clinical Urinalysis and Body Fluids Laboratory
- MLS 430 - Clinical Orientation and Phlebotomy

Prior to 2018-2019, the benchmark was 90% of students will score 85% or better.
Prior to 2016-2017, the benchmark was 80% of students will score 90% (A) or better.

Course Links

**MLS402 [Clinical Microbiology Laboratory (Lab. 9, Cr. 3)]**

**MLS410 [Clinical Immunohematology Laboratory (Lab. 9, Cr. 3)]**

**MLS414 [Clinical Chemistry Laboratory (Lab. 9, Cr. 2)]**

**MLS418 [Clinical Hematology Laboratory (Lab. 9, Cr. 2)]**

**MLS422 [Clinical Immunology Laboratory (Lab. 3, Cr. 1)]**

**MLS426 [Clinical Urinalysis and Body Fluids Laboratory (Lab. 3, Cr. 1)]**

**MLS430 [Clinical Orientation and Phlebotomy (Lec. 2, Cr. 2)]**

Outcome Links

**Clinical Study [Program]**
Medical Laboratory Science graduates will exhibit principles and practices of clinical study design, implementation, and dissemination of medical test results.

### 12.1 Data [Approved]

2014-2015:

| Laboratory Rotations | % of students scoring 90% or higher |
|---|---|
| MLS 404 | 100% |
| MLS 410 | 100% |
| MLS 414 | 100% |
| MLS 418 | 100% |
| MLS 422 | 100% |
| MLS 426 | 100% |
| MLS 430 | 100% |

2016-2017:

| Laboratory Rotations | % of students scoring 85% or higher |
|---|---|
| MLS 404 | 100% |
| MLS 410 | 100% |
| MLS 414 | 100% |
| MLS 418 | 100% |

| | |
|---|---|
| MLS 422 | 100% |
| MLS 426 | 100% |
| MLS 430 | 100% |

2017-2018:

| Laboratory Rotations | % of students scoring 85% or higher |
|---|---|
| MLS 404 | 100% |
| MLS 410 | 100% |
| MLS 414 | 100% |
| MLS 418 | 100% |
| MLS 422 | 100% |
| MLS 426 | 100% |
| MLS 430 | 100% |

2018-2019:

| Laboratory Rotations | Students scoring 93% (A) or higher | |
|---|---|---|
| | # | % |
| MLS 402 | 6/6 | 100% |
| MLS 410 | 6/6 | 100% |
| MLS 414 | 6/6 | 100% |
| MLS 418 | 6/6 | 100% |
| MLS 422 | 6/6 | 100% |
| MLS 426 | 6/6 | 100% |
| MLS 430 | 6/6 | 100% |

Course Links

**MLS402 [Clinical Microbiology Laboratory (Lab. 9, Cr. 3)]**

**MLS410 [Clinical Immunohematology Laboratory (Lab. 9, Cr. 3)]**

**MLS414 [Clinical Chemistry Laboratory (Lab. 9, Cr. 2)]**

**MLS418 [Clinical Hematology Laboratory (Lab. 9, Cr. 2)]**

**MLS422 [Clinical Immunology Laboratory (Lab. 3, Cr. 1)]**

**MLS426 [Clinical Urinalysis and Body Fluids Laboratory (Lab. 3, Cr. 1)]**

**MLS430 [Clinical Orientation and Phlebotomy (Lec. 2, Cr. 2)]**

### 12.1.1 Analysis of Data and Plan for Continuous Improvement

2015-2016:
Benchmark met. Improvements noted from previous year. Campus instructors will continue to monitor senior laboratory performance.

In addition, clinical instructors are asked to participate in annual surveys. Surveys allow clinical instructors a chance to share ideas for improving student performance.
Instructor comment from Clinical Instructor Survey: "Could use better prep micro course. Lot to cover in last year of internship." 7/22/2015 9:50 AM.

2016-2017:
Benchmark met. Campus faculty members will continue to monitor senior laboratory performance in all clinical coursework.

2017-2018:
Benchmark met. Efforts to improve student labs and better prepare students for clinical internship are ongoing. Grant proposals were submitted for new campus lab equipment. Equipment purchased with grant monies includes eight blood bank cell washers, digital camera with projector for real time viewing, several new slides, and software with digital images for the computer lab.

2018-2019:
Benchmark met. Improvements to student labs include maintaining donated lab supplies from local labs for student practice. In addition, a new grant was awarded for purchasing software to improve student assessment of body fluids (MLS 426) and mycology samples (MLS 404).

Course Links

**MLS402 [Clinical Microbiology Laboratory (Lab. 9, Cr. 3)]**

**MLS410 [Clinical Immunohematology Laboratory (Lab. 9, Cr. 3)]**

**MLS414 [Clinical Chemistry Laboratory (Lab. 9, Cr. 2)]**

**MLS418 [Clinical Hematology Laboratory (Lab. 9, Cr. 2)]**

**MLS422 [Clinical Immunology Laboratory (Lab. 3, Cr. 1)]**

**MLS426 [Clinical Urinalysis and Body Fluids Laboratory (Lab. 3, Cr. 1)]**

**MLS430 [Clinical Orientation and Phlebotomy (Lec. 2, Cr. 2)]**

## 13 Assessment and Benchmark Professional Organization Involvement

Assessment: Student involvement in professional organizations.

Benchmark: 80% of senior MLS students will become active members of one of the following professional organizations:

- ASCP (national)
- ASCLS (national)
- LSCLS (state)
- Other (specify)

Prior to 2016-2017, the benchmark was 90% of senior MLS students.

Outcome Links

**Professional Conduct and Development [Program]**
Medical Laboratory Science graduates will exhibit principles and practices of professional conduct and the significance of continuing professional development.

### 13.1 Data

| Academic Year | ASCP | | ASCLS | | LSCLS | | Other | |
|---|---|---|---|---|---|---|---|---|
| | # | % | # | % | # | % | # | % |
| 2014-2015 | — | 100% | — | 57.14% | — | 57.14% | — | — |
| 2015-2016 | — | 100% | — | 57% | — | 57% | — | — |
| 2016-2017 | — | 40% | — | 80% | — | 80% | — | — |
| 2017-2018 | — | 89% | — | 33% | — | 33% | — | — |
| 2018-2019 | 8/9 | 89% | 2/9 | 33% | 1/9 | 17% | 0/9 | 0% |

#### 13.1.1 Analysis of Data and Plan for Continuous Improvement

2015-2016:
Benchmark met. April 2016 several students and one chaperone attended the annual LA&MS state meeting in Hattiesburg, MS. Students participated in review sessions, watched the student quiz bowl, listened to guest speakers, and networked with fellow MLS students.

2016-2017:

Benchmark met. Senior students are encouraged each year to attend the annual LSCLS meeting. In April 2017, senior students and two chaperones attended the LSCLS state meeting in Baton Rouge, LA. Students participated in continuing education sessions, listened to guest speakers, and networked with vendors and fellow MLS students.

2017-2018:
Benchmark met. Senior students learned the value of networking by attending the Louisiana /Mississippi Meeting in Biloxi, MS. in April 2018. While demonstrating solid teamwork, the students placed fourth place in the Student Quiz Bowl. In addition they participated in continuing education sessions, listened to guest speakers, and networked with vendors and fellow MLS students. Plans are in place to raise funds for future student trips.

2018-2019:
Benchmark met. Only one student and one instructor attended the LA/MS Meeting in Monroe, LA in April 2019. No funds were available for travel this year. Students will be encouraged to participate in professional activities and raise travel funds to attend next year's meeting in Jackson, MS. An assignment is being planned to showcase the importance of professional societies for the upcoming year.

## 14 Assessment and Benchmark Student Evaluation Form

Assessment: Senior MLS students are evaluated after each lab rotation by medical laboratory instructors. Instructors evaluate students in ten different categories using the Student Evaluation Form. Communication is the eighth category. Cooperation is the 9th category. Cooperation requires advanced communication skills for collaboration and coordination of workflow with clinical instructors.

Benchmark: 95% of senior MLS students will score "Excellent" or "Average" when evaluated by medical laboratory instructors on the Student Evaluation Form for each lab section in the following categories:

- 8. Communication - Communicates and interacts well with others.
- 9. Cooperation - Attempts to correct noted deficiencies.

Prior to 2018-2019, the benchmark was 90% of senior MLS students will score "Excellent" or "Average" when evaluated by medical laboratory instructors on the Student Evaluation Form for each lab section in the following category:

- 8. Communication - Communicates and interacts well with others.

Outcome Links

**Communications [Program]**
Medical Laboratory Science graduates will demonstrate communications sufficient to serve the needs of patients, the public, and members of the health team.

### 14.1 Data

2014-2015:

| Category | Excellent | Average | Total |
|---|---|---|---|
| 8. | 100% | — | 100% |

2015-2016:

| Category | Excellent | Average | Total |
|---|---|---|---|
| 8. | 100% | — | 100% |

2016-2017:

| Category | Excellent | Average | Total |
|---|---|---|---|
| 8. | 100% | — | 100% |

2017-2018:

| Category | Excellent | Average | Total |
|---|---|---|---|

| | | | |
|---|---|---|---|
| 8. | 100% | — | 100% |

2018-2019:

| Category | Excellent | | Average | | Total | |
|---|---|---|---|---|---|---|
| | # | % | # | % | # | % |
| 8.Communication | 40/42 | 95% | 2/42 | 5% | 42/42 | 100% |
| 9.Cooperation | 42/42 | 100% | 0/42 | 0% | 42/42 | 100% |

**14.1.1 Analysis of Data and Plan for Continuous Improvement** [Approved]

2015-2016:
Benchmark met. Significant improvements noted. Students are continuously encouraged to communicate with confidence and respect while working in a professional environment.

2016-2017:
Benchmark met. Students are continuously encouraged to communicate with confidence and respect while working in a professional environment.

2017-2018:
Benchmark met. Students continue to excel in this area. Category 9 "Cooperation" will be added to next year's assessment. Cooperation requires advanced communication skills for collaboration and coordination of workflow with clinical instructors.

2018-2019:
Benchmark met. Benchmark was increased to 95% and Cooperation was added. Additional communication activities will be added to MLS 434 in order to maintain positive outcomes.

End of report