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| jscc logo | **Assessment Record** |

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| **Program:** | **Medical Laboratory Technology** | **Assessment period:** | **2018-2019** |

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| |  | | --- | | **Program or Department Mission:** |   The mission of the Medical Laboratory Technology Program at Jefferson State Community College is to promote and maintain standards of quality for the services and the environment necessary for students to achieve their educational goals and to enhance the social, cognitive, and professional skills required for entry level employment as medical laboratory technicians (MLTs) in the healthcare community.  This program mission is consistent with the college “Statement of Philosophy and Purpose” published in the *Jefferson State Community College Catalog and Student Handbook*. |

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| **Instructional Program Outcomes & Assessment Plan**  **Program Outcomes Assessed**  **1**. **Students admitted to the MLT program will complete the program as technically competent individuals**  **2. Graduates will take the ASCP BOC exam.**  **3. Within first year of graduation, 70% of graduates seeking employment in the laboratory field will be employed or are continuing education**  **4. Employers and graduates returning surveys will report 85% satisfaction with educational preparation.** | | | | |
| **Intended Outcomes** | **Means of Assessment** | **Criteria for Success** | **Summary & Analysis of Assessment Evidence** | **Use of Results** |
| Students admitted to the MLT program will complete the program as technically competent individuals ready to enter the laboratory workforce. | Graduation/Attrition rate | Based on the NAACLS standard, 70% of students who have entered their third semester will complete graduation requirements. | 2018-2019 graduation cohort N= 14  Fall Grades N=8  Spring Grads N=6  Total number of students admitted from both admission cycles was 38, 17 students dropped after 1st or 2nd semester, 6 students are out of progression,3 students dropped during the third semester; 1 dropped 4th semester and 2 will graduate Fall 2019. Based on NAACLS Standard 16/17 or 6% attrition for this cohort. | NAAACLS guidelines use a three - year running average  2016-2017 18/21 = 14%  attrition  2017-2018 19/21= 10% attrition  2018-2019 16/17 =6% attrition  Total N=53/59  Three - year average of 90% graduation rate with 10% attrition. NAACLS benchmark of 70% of students entering third semester complete graduation requirements met. |
| Graduates will take ASCP BOC exam. | Certification exam scores | MLT graduates will take the ASCP certification test with a pass rate at or above the NAACLS benchmark of 75% three year rolling average taken within one year of graduation | MLT students in this cohort have taken the ASCP Board of Certification exam. 2017-2018 N=15  12/15 pass rate 80%  Student in the 2018-2019 cohort are still testing per NAACLS guidelines. | MLT graduates have taken the ASCP BOC within one year of graduation per NAACLS Standard. NAACLS survey obtains data from June-July each year. The three-year pass-rate  2015-2016 9/11 N=12 82%  2016-2017 13/18 N=18 72%  2017-2018 12/15 N=15 80%  The three-year average  N= 34/44 or 77% |
| Within first year of graduation, 70% of graduates seeking employment in the laboratory field will be employed or are continuing education | Graduate Surveys/  Career Technical Surveys  Program Coordinator follow up | NAACLS benchmark states 70% will find employment within first year three year rolling average taken within one year of graduation | 2018-2019 MLT cohort N= 14  12/14 = 86% of students seeking employment within their first year upon graduation have found a job or are continuing their education. Employment is unknown for two students in this cohort. | Benchmark met.  The three - year average for employment is 86%  2016-2017 N=17/21 = 81%  2017-2018 N= 21/23 = 91%  2018-2019 N= 12/14 =86%  Historically the placement rate is well above benchmark for students desiring to work in the Birmingham and surrounding areas. |
| Employers and graduates returning surveys will report 85% satisfaction with educational preparation. | Employer surveys  CTE/Graduate surveys | 85% of graduates evaluated through employer surveys will receive an evaluation with a score of “Good” or higher on all survey questions using a 4-point scale. 85% of graduates will report a score of “Satisfied” or higher on all survey questions using a 4-point scale | 86% of graduates evaluated through employer surveys received an evaluation with a score of “Good” or higher on all survey questions using a 4-point scale. N=14 surveys sent 6/11 = 54% employers returned surveys. Several returns included multiple graduates working at that facility for a total of 12 students evaluated by employers  N=12/12 or 100% of graduates reported a score of “Satisfied” or higher on all survey questions using a 4-point scale. 12/21 or 57% returning graduate surveys. | Benchmark Met  Continue to survey both graduates and employers for MLT content issues in the future.  The program will address comments made in the surveys and make curriculum changes as needed. Look for strategies to increase both employer and graduate responses |
| **Plan submission date: 8/26/2019** | | | **Submitted by: Candy Hill** | |

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| **Instructional Program Student Learning Outcomes & Assessment Plan**  **SLO Outcomes assessed**  **1. Demonstrate knowledge in laboratory safety, blood borne pathogens, hazardous communication, and other laboratory standards**  **necessary to protect themselves and the patients they serve.**  **2. Demonstrate professional conduct and interpersonal communication skills with patients, laboratory personnel, other health care**  **professionals, and with the public.**  **3. Perform analytical tests including quality control on biological specimens; including collecting and processing biological specimens for analysis.**  **4. Relate laboratory findings to common disease processes.**  **5. Recognize and act upon individual needs for continuing education as a function of growth and maintenance of professional competence** | | | | |
| **Intended Outcomes** | **Means of Assessment** | **Criteria for Success** | **Summary & Analysis of Assessment Evidence** | **Use of Results** |
| Demonstrate knowledge in laboratory safety, blood borne pathogens, hazardous communication, and other laboratory standards necessary to protect themselves and the patients they serve. | Incidence reports | The MLT students will safely complete the laboratory component of the curriculum with <2 reportable cases. | No incidence reports were filed this school year. | Benchmark met. Continue teaching safety measures with no curriculum changes |
| Demonstrate professional conduct and interpersonal communication skills with patients, laboratory personnel, other health care professionals, and with the public. | Clinical Evaluation of student | 70% of clinical students will score “3” or better on a 5-point Likert scale on the Performance evaluation for each clinical rotation evaluation | F18 11/13 or 85%  Sp19 8/8 or 100%  SU19 4/4 or 100%  of clinical students scored “3” or better on a 5-point Likert scale on the Performance evaluation for each clinical rotation evaluation | Benchmark met continue to monitor all clinical surveys and evaluations for program improvements |
| Perform analytical tests including quality control on biological specimens; including collecting and processing biological specimens for analysis. | Final Laboratory performance evaluations for selected courses | 70% of students will score an 75% on the laboratory component of selected course-work | 79% of students scored >75% on the laboratory component of all MLT coursework, MLT 111,121,131,141,142,151, and 191  N=183, 144/183 or 79% total average laboratory evaluation for the 2018-2019 assessment period for MLT coursework containing laboratory experiences | Benchmark Met  Continue to evaluate and develop meaningful laboratory experiences. Better emphasis on laboratory content and student achievement has contributed to meeting this objective |
| Relate laboratory findings to common disease processes. | Clinical evaluation of student | 70% of clinical students will score “3” or better on a 5-point Likert scale on the Clinical Task evaluation for each clinical rotation: Hematology, Blood Bank, Chemistry and Microbiology | F18=13 /13 or 100%  Sp19=8 /8 or 100%  Su19 =4/4 or 100%  Scored “3” or better on a 5- point Likert scale on the Clinical Task evaluation for each clinical rotation: Hematology, Blood Bank, Chemistry and Microbiology | Benchmark met. Continue to evaluate effectiveness of the subscription of LabCE. Beginning SP2019 LabCe testing will be included in 4th semester requirements. Additional curriculum review will take place in campus seminar class. |
| Recognize and act upon individual needs for continuing education as a function of growth and maintenance of professional competence | # of graduates taking ASCP BOC | 70% of graduates will take the ASCP BOC. | Fall 18 and Spring 19 cohort N=23  13/23=56%  has taken the ASCP Board of Certification exam. | This benchmark is not met.  We will continue to include the links to sign up on the test as part of their clinical assignments and even though we cannot require them to take this exam, many students will sign up for it prior to graduation. This statistic dropped during this period. The program director contacts students throughout the year after graduation to encourage taking the BOC. |
| **Plan submission date: 9/3/2019** | | | **Submitted by: Candy Hill** | |

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| |  |  |  |  |  | | --- | --- | --- | --- | --- | | **Course Student Learning Outcomes & Assessment Plan**  **MLT 100S**  **Course Outcomes Assessed**  **1. Demonstrate knowledge in HIPAA training regarding confidentiality and protected health information.**  **2. Acquiring Phlebotomy certification for MLT students.** | | | | | | **Intended Outcomes** | **Means of Assessment** | **Criteria for Success** | **Summary & Analysis of Assessment Evidence** | **Use of Results** | | Demonstrate knowledge in HIPAA training regarding confidentiality and protected health information. | HIPAA exam | 100% of students will complete the HIPAA post-test with a score of 80% or better. This is the expectations from our clinical affiliates | 100% of student taking the HIPAA exam score an 80% or better on the post-test. FA2018 N= 14, 14/14=100%  SP2019 N= 9 9/9=100%  SU 2018 N= 9 9/9/= 100% | Benchmark met. Continue to monitor critical laboratory component required by clinical affiliates. | | Acquiring Phlebotomy certification for MLT students. | National HealthCareer Association (NHA) Certified Phlebotomy Technician (CPT) exam | 70% of students wishing to obtain Phlebotomy certification will take and successfully pass the NHA CPT certification exam. | Fa18 N=3, 3/3 = 100%  SP19 N=4, 3/4 = 75%  SU19 N=2, 2/2 = 100%  Total 8/9 = 89%%  of students successfully passing the Phlebotomy Certification exam | Benchmark met. Most MLT students do not wish to spend the money to take the phlebotomy certification exam unless they desire employment while completing the MLT program. The AAS in MLT also allows graduates the ability to perform phlebotomy. To strengthen the curriculum, we have added additional content for specimen collection. Lecture to include circulation and anatomy of the heart and have created a midterm exam and study review at the end of the course. Summer 2018 the two students that did not successfully pass did not attend the study review | | **Plan submission date: 8/6/2019** | | | **Submitted by: Candy Hill** | | |

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| |  |  |  |  |  | | --- | --- | --- | --- | --- | | **Course Student Learning Outcomes & Assessment Plan**  **MLT 111S**  **Course Outcomes Assessed**  **1. Demonstrate knowledge of laboratory testing principles and theory in urines and body fluids**  **2. Analyze urine samples**  **3. Relate laboratory results with various diseases and disorders** | | | | | | **Intended Outcomes** | **Means of Assessment** | **Criteria for Success** | **Summary & Analysis of Assessment Evidence** | **Use of Results** | | Demonstrate Knowledge of laboratory testing principles and theory in Urine and Body Fluids | ASCP BOC exam | BOC exam average scores in Urines and Body fluids are > the minimum passing score of 400 | ASCP BOC testing cycle 2018  Annual report N=15  Urinalysis and Body Fluids content scores >400  Mean Score 2018 for urinalysis and Body Fluids = 477 National average 495 | Minimum benchmark met.  Continue to monitor for BOC sun-content score increases in this area.  11/15 or 73% of cohort scored >400 on individual scores. Look for ways to increase >400 scores for >75% of the cohort. Urinalysis has moved to summer semester and will be taught by a new instructor. Body fluids has been moved to MLT 121 and we will continue to monitor testing results for body fluids in the MLT 121 course. | | Analyze urine samples | Laboratory evaluations | 75% of students complete the laboratory component of the course with a score of > 75% | Fall 2018 N=11; 5/11 or 45%  Summer 2019 N=25; 23/25 or 92% of students scored >75% on the laboratory component of the course | Benchmark was met after poor fall cohort results.  The lab experiences were streamlined last year to more closely align with SLO’s This has increased the success rate. This course is now being taught by full-time instructor. | | Relate laboratory results to various diseases and disorders | MTS Medtraining competency assessments for urinalysis and CSF/Serous Fluids | 75% of students will complete the urinalysis Medtraining competency assessment with an average score > 70% | Fall 2018 N=11  0/11; 0% in Urinalysis. Adjunct instructor failed to make the assignment  Summer 2019 N=25  15/25; 60% Urinalysis  of student in each cohort completed this training tutorial with a score >70% | Benchmark not met for urinalysis.  The adjunct instructor failed to make this assignment fall semester so we have no data. The urinalysis course has moved to the summer semester and will be taught by a full-time instructor. Students did not participate as expected this assignment will be weighted differently next summer to encourage students to spend time with this subscription.  The CSF/Serous fluid assessment is now part of the MLT 121course assessment  Medtraining online training modules continue to be a valuable tool to the online format with successful results in other classes. | | **Plan submission date: 7/31/2019** | | | **Submitted by: Candy Hill** | | |  |

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| **Course Student Learning Outcomes & Assessment Plan**  **MLT 121S**  **Course Outcomes Assessed**  **1. Demonstrate knowledge of laboratory testing principles and theory in hematology**  **2. Identify normal and abnormal morphology for cellular elements**  **3. Relate laboratory results with various diseases and disorders** | | | | |
| **Intended Outcomes** | **Means of Assessment** | **Criteria for Success** | **Summary & Analysis of Assessment Evidence** | **Use of Results** |
| Demonstrate Knowledge of laboratory testing principles and theory in Hematology | ASCP BOC exam | BOC exam average scores in hematology are > the minimum passing score of 400 | ASCP BOC testing cycle 2018  Annual report **N=15**  Hematology content score for Program = 433 National Score =517 | Benchmark was met.  10/15 or 57% of cohort scored >400 on individual scores. Look for ways to increase >400 scores for >75% of the cohort.  Curriculum change for MLT 161, Laboratory simulation, will now include LabCE testing, case studies and competency skill checks that will hopefully increase individual scores in Hematology sub-area on the ASCP\_BOC |
| Identify normal and abnormal morphology for cellular elements | Laboratory evaluations | 75% of students complete the laboratory component of the course with a score of > 75% | **Fall 18 N= 12**  9/12 or 75% scored >75% on the laboratory component of the course  **Spring 19 N= 14**  14/14 or 100% scored >75% on the laboratory component of the course | This benchmark was met for each cohort. Combined 23/26 or 88% scored >75% on the laboratory component of this course.  The instructor edits for this course as indicated in 2017-18 assessment showed great improvements during this cycle. Body fluids were added as part of curriculum change as mandated by the State Department of Education Community College System. |
| Relate laboratory results to various diseases and disorders | MTS Medtraining Hematology, Coagulation and Body Fluids Competency assessments | 75% of students will complete the hematology, coagulation and Body Fluids Medtraining competency assessment with an average score > 70% | **Fall 18 N=12**  11/12 92% Hematology  6/12 50% Coagulation  6/12 50% Body Fluids  **Spring 19 N=14**  13/14 93% Hematology  9/14 64% Coagulation  12/14 86% Body Fluids  completed this competency tutorial with a score >70% | This benchmark was met for hematology but not met in coagulation and Body Fluids for both cohorts.4 Students in the fall cohort failed the course and did not take the assessments. We will continue using this competency assessment in the course. It is a good review source. The addition of coagulation tutorials from Siemens will hopefully improve coagulation understanding. We are still assessing course material for body fluids that was added beginning fall semester to determine where improvements can be made. |
| **Plan submission date: 4/30/2019** | | | **Submitted by: Candy Hill** | |

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| **Course Student Learning Outcomes & Assessment Plan**  **MLT 131S**  **Course Outcomes Assessed**  **1. Students will safely use basic laboratory equipment**  **2. Students will perform selected laboratory activities** | | | | |
| **Intended Outcomes** | **Means of Assessment** | **Criteria for Success** | **Summary & Analysis of Assessment Evidence** | **Use of Results** |
| Students will safely use basic laboratory equipment | MTS Medtraining Patient Safety competency exam | 75% of students will complete the patient safety Medtraining competency exam with an average score > 70% | 93% of all cohorts scored >75% on the Medtraining patient safety competency exam.  Fall 2018 semester N=10, 10/10 or 100%  Spring 2019 N=8, 6/8 or 75%  Summer 2019 N=9, 9/ 9 or 100% | Benchmark met  Continue to use and monitor Medtraining tutorial results. |
| Students will perform selected laboratory activities | Laboratory evaluations | 75% of students will have an average grade on laboratory performance evaluations of > 75% | 93% of all cohorts had a laboratory performance of >75%  Fall 2018 cohort N=10, 10/10 100%  Spring 2019 N=8, 6/8 or 75%  Summer 2019 N=9,9/9 or 100% | Benchmark met  Continue to develop and improve laboratory evaluations and Student learning objectives |
| **Plan submission date: 8/06/2019** | | | **Submitted by: Candy Hill** | |

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| **Course Student Learning Outcomes & Assessment Plan**  **MLT 141S**  **Course Outcomes Assessed**  **1. Demonstrate knowledge of laboratory testing principles and theory in microbiology**  **2. Perform Laboratory analysis of microbiology specimens**  **3. Demonstrate Knowledge of laboratory testing principles and interpretation in Microbiology** | | | | |
| **Intended Outcomes** | **Means of Assessment** | **Criteria for Success** | **Summary & Analysis of Assessment Evidence** | **Use of Results** |
| Demonstrate Knowledge of laboratory testing principles and **theory** in Microbiology | ASCP BOC exam | BOC exam average scores in Microbiology are > the minimum passing score of 400 | ASCP BOC testing cycle 2018  Annual report N=15 Average program content score 435 with a national average of 510 | Benchmark was met. The average content score has increased this cycle and can be attributed to LabCe content review testing for theory. 10/15 or 67% of cohort scored >400 on individual scores. Look for ways to increase >400 scores for >75% of the cohort. |
| Perform laboratory analysis of microbiology specimens | Laboratory evaluations | 75% of students will have an average grade on laboratory performance evaluations of > 75% | Spring semester 2019 N=20;  11/20 or 55%  of students scored > 75% on the laboratory performance | This benchmark was not met. Micro continues to be a difficult class for students.  Based on student evaluation of instructor a suggestion was made to revise Gram Stain teaching techniques and the new method will be implemented next time the course is taught. |
| Demonstrate Knowledge of laboratory testing principles and **interpretation** in Microbiology | Laboratory practical exams | 75% of students will have an average grade on laboratory practical exams of > 75% | Spring Semester 2019 N=20; 11/20 or 55% of students scored > 75% average on laboratory practical exams. | Benchmark was not met.  The instructor has agreed to use faculty duty days to sit in a current micro department at a clinical facility to understand the most current methods for organism identification and confirmatory testing. The new methods will be utilized in micro student labs next assessment year. |
| **Plan submission date: 5/20/2019** | | | **Submitted by: Candy Hill** | |

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| **Course Student Learning Outcomes & Assessment Plan**  **MLT 142S**  **Course Outcomes Assessed**  **1. Describe how disease-causing fungi, parasites, and virology are identified**  **2. Perform laboratory analysis of microbiology specimens**  **3. Relate laboratory results with various diseases and disorders** | | | | |
| **Intended Outcomes** | **Means of Assessment** | **Criteria for Success** | **Summary & Analysis of Assessment Evidence** | **Use of Results** |
| Describe how disease-causing fungi, parasites, and virology are identified | ASCP BOC exam | BOC exam average sub-scores in Microbiology are > the minimum passing score of 400 | ASCP BOC testing cycle 2018  Annual report N=15 content score 435 with a national average of 510 | Benchmark was met. The average content score has increased this cycle and can be attributed to curriculum changes made to the lab experiences. 10/15 or 67% of cohort scored >400 on individual scores. Look for ways to increase >400 scores for >75% of the cohort. |
| Perform laboratory analysis of microbiology specimens | Laboratory evaluations | 75% of students will have an average grade on laboratory performance evaluations of > 75% | Laboratory performance from Summer semester 2019  N=17  16/17 94% scored > 75% on the laboratory component of the course. | This Benchmark was met. We are continuing to see improvement from changing the curriculum for this course to meet in two lab sections weekly. This simulates the clinical lab experiences that they will see as an employee in both microorganism ID and testing. We will continue to monitor this program change. |
| Relate laboratory results to various diseases and disorders | MTS Medtraining Competency assessments | 75% of students will complete the microbiology Medtraining competency assessment with an average score > 70% | 82% of students scored > 70% on the microbiology Medtraining competency exam.  Summer semester 2019  N=17  14/17 =82% | Benchmark was met  Continue to utilize the medtraining tutorial site in the curriculum. Students in this cohort performed better than the past due to the required training module review prior to taking the competency exam. |
| **Plan submission date: 8/06/2019** | | | **Submitted by: Candy Hill** | |

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| **Course Student Learning Outcomes & Assessment Plan**  **MLT 151S**  **Course Outcomes Assessed**  **1. Successful Performance on selected chemistry tests questions**  **2. Perform selected chemistry tests**  **3. Relate laboratory results to various diseases and disorders** | | | | |
| **Intended Outcomes** | **Means of Assessment** | **Criteria for Success** | **Summary & Analysis of Assessment Evidence** | **Use of Results** |
| Describe how chemistry tests are used and result interpretation | ASCP BOC exam | BOC exam average content scores in Chemistry are > the minimum passing score of 400 | ASCP BOC testing cycle 2018  Annual report N=15 content score 451 for program with a national average of 516 | Benchmark was met. We scored >400 in content areas on the BOC. 8/15 or 53% of cohort scored >400 on individual scores. Look for ways to increase >400 scores for >75% of the cohort.  New hire for chemistry continued to improve practice testing exams and content in the curriculum.  Review for exams is also performed by the lab instructor before laboratory exercises as reinforcement of theory |
| Perform selected chemistry tests | Laboratory evaluations | 75% of students will have an average grade on laboratory performance evaluations of > 75% | Fall 2018 N= 25; 25/25 or 100% scored >75% on laboratory performance | This benchmark was met. Continue to modify chemistry labs for content include the use of online tutorials during lab sessions. |
| Relate laboratory results to various diseases and disorders | MTS Medtraining Chemistry Competency assessments | 75% of students will complete the Chemistry Medtraining competency assessment with an average score > 70% | Fall 2018 N= 25, 17/25 or 68%  Completed the medtraining competency exam with a 70% or better | Benchmark not met.  Counseled instructors to make this assignment more meaningful to course grade to encourage students attempts at testing and meeting this benchmark. |
| **Plan submission date: 6/26/2019** | | | **Submitted by: Candy Hill** | |

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| **Course Student Learning Outcomes & Assessment Plan**  **MLT 161S**  **Course Outcomes Assessed**   1. **Students will demonstrate competency on module exams.** 2. **Students will demonstrate technical ability on Task Sheets for all clinical areas reviewed.** | | | | |
| **Intended Outcomes** | **Means of Assessment** | **Criteria for Success** | **Summary & Analysis of Assessment Evidence** | **Use of Results** |
| Students will demonstrate competency on module exams | Competency exams | 75% of the students will score > 75% on departmental competency exams | Fall 2018 N= 9, 6/9 or 67%  Su 2019 N=7, 7/7 or 100% of the students scored > 75% on departmental competency exams. | Benchmark met.  A curriculum change will result next year. The LabCE assignments will be move into this class as a review of theory before clinical semester. Competency exams have moved to the seminar class. This course is now team taught by both full-time instructors |
| Students will demonstrate technical ability on Task Sheets for all clinical areas reviewed | Lab Task Performance Sheets | 75% of the students will score > 75% on Laboratory Performance evaluations | Fall 2018 N= 9, 8/9 or 89%  Su 2019 N=7, 7/7 or 100% of the students scored > 75% on laboratory performance evaluations | Benchmark met.  Laboratory performance will be assessed next year with skill check off sheets and will be incorporated as an assessment to the competency of the students before clinical practicum. |
| **Plan submission date: 8/6/2019** | | | **Submitted by: Candy Hill** | |

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| **Course Student Learning Outcomes & Assessment Plan**  **MLT 181S**  **Course Outcomes Assessed**  **1. Describe how immunology tests are used and result interpretation**  **2. Perform selected immunology tests**  **3. Relate laboratory results to various diseases and disorders** | | | | |
| **Intended Outcomes** | **Means of Assessment** | **Criteria for Success** | **Summary & Analysis of Assessment Evidence** | **Use of Results** |
| Describe how immunology tests are used and result interpretation | ASCP BOC exam | BOC exam average sub-scores in Immunology are > the minimum passing score of 400 | ASCP BOC testing cycle 2018  Annual report N=15  All content areas in Immunology 436 for program total. The national average score is 511 | Benchmark met  10/15 or 67% of students scored >400 individually.  Due to curriculum resequencing it will now be taught concurrently with immunohematology. The online format will continue but scheduled reviews before exams and mor concise laboratory experiences will be added. Success of this change will be assessed on the 2019 BOC performance report |
| Perform selected immunology tests | Laboratory evaluations | 75% of students will have an average grade on the laboratory component of the course of > 75% | Summer 2019  Re-sequencing of this course to fall semester. Outcome will be re-evaluated in 2019-20 assessment. | This course was not taught in 2018-19. It will be assessed Fall 2019 and Spring 2020 at which the sequencing will finally land in its permanent spot every spring semester |
| Relate laboratory results to various diseases and disorders | MTS Medtraining Competency assessments | 75% of students will complete the Hepatitis/ HIV medtraining competency assessment with an average score > 70% | Summer 2019  Re-sequencing of this course to fall semester. Outcome will be re-evaluated in 2019-20 assessment. | This course was not taught in 2018-19. It will be assessed Fall 2019 and Spring 2020 at which the sequencing will finally land in its permanent spot every spring semester |
| **Plan submission date: 8/6/2019** | | | **Submitted by: Candy Hill** | |

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| **Course Student Learning Outcomes & Assessment Plan**  **MLT 191S**  **Course Outcomes Assessed**  **1. Comprehend foundational knowledge of immunohematology**  **2. Analyze blood bank samples**  **3. Relate laboratory results to various diseases and disorders** | | | | |
| **Intended Outcomes** | **Means of Assessment** | **Criteria for Success** | **Summary & Analysis of Assessment Evidence** | **Use of Results** |
| Comprehend foundational knowledge of immunohematology | ASCP BOC exam | BOC exam average sub-scores in Immunology are > the minimum passing score of 400 | ASCP BOC testing cycle 2018  Annual report N=15 Content score 482. 73% of students testing scored >400 in Blood Bank content | Benchmark was met a small increase from last test year from 440 to 482 |
| Analyze blood bank samples | Laboratory evaluations | 75% of students will have an average grade on laboratory performance evaluations of > 75% | 100% of students from both cohorts scored an average grade on laboratory performance > 75%.  Fall 2018 N=7; 7/7 or 100%  Sp 2019 N=9; 9/9 or 100% | Benchmark met  Continue to look for ways to improve the laboratory component of the course. |
| Relate laboratory results to various diseases and disorders | MTS Medtraining Competency assessments | 75% of students will complete the Transfusion Service Medtraining competency assessments with an average score > 70% | 81% of students in both cohorts completed the Transfusion Service Medtraining competency assessments with an average score > 70%  Fa 2018 N=7; 6/7 or 85%  Sp 2019 N=9; 7/ 9 or 78% | Benchmark Met  Continue to use the online tutorial to increase student knowledge. |
| **Plan submission date: 5/3/2019** | | | **Submitted by: Candy Hill** | |

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| **Course Student Learning Outcomes & Assessment Plan**  **MLT 293S**  **Course Outcomes Assessed**  **1. Students will successfully score > 75% on all departmental practice exams.**  **2. Demonstrate professionalism in all personal interactions** | | | | |
| **Intended Outcomes** | **Means of Assessment** | **Criteria for Success** | **Summary & Analysis of Assessment Evidence** | **Use of Results** |
| Students will successfully score > 75% on all departmental practice exams. | Online practice exams | 75% of students will successfully score > 75% on all departmental practice exams. | 93% of students in both cohorts successfully scored > 75% on all departmental practice exams.  Fa 2018 N=8, 8/9 or 89%  Sp 2019 N=6, 6/6 or 100% | Benchmark met however,  A curriculum change has resulted in moving this class back on campus face-to-face. This class will now be taught every fall and spring along with the clinical component. New outcomes will be identified and assessment will begin for this change in the Fa2019 class. |
| Demonstrate professionalism in all personal interactions | Case studies | 75% of students will successfully score > 75% on professionalism case studies. | 100% of students successfully scored > 75% on professionalism case studies.  Fa 2018 N= 8 9/9 or 100%  Sp 2019-N=6 6/6 or 100% | Benchmark met.  This cohort will be assessed for professional conduct evaluation during clinical rotations |
| **Plan submission date: 5/3/2019** | | | **Submitted by: Candy Hill** | |

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| **Course Student Learning Outcomes & Assessment Plan**  **MLT 294S**  **Course Outcomes Assessed**  **1. Perform Specific clinical lab activities in Hematology and Urinalysis**  **2. Demonstrate professional conduct and interpersonal communication skills with patients, laboratory personnel, other health**  **care professionals, and with the public.** | | | | |
| **Intended Outcomes** | **Means of Assessment** | **Criteria for Success** | **Summary & Analysis of Assessment Evidence** | **Use of Results** |
| Perform Specific clinical lab activities in Hematology and Urinalysis | Clinical Evaluations  Three-point Likert Scale:  1- unable to perform  2- Performed with maximum supervision  3 Performed with minimum supervision | 85% of clinical students will score “3” or better on 80% of objectives on the Task Performances for MLT 294 | Fall 2018 N=8; 5/8 or  63% Scored “3” or better on 80% of objectives  Spring 2019 N=6 4/6  67% Scored “3” or better on 80% of objectives | Benchmark not met.  Curriculum change in MLT 161 starting summer 2019 will include competency skill check-off to determine and improve weak areas before sending to clinical semester |
| Demonstrate professional conduct and interpersonal communication skills with patients, laboratory personnel, other health care professionals, and with the public. | Clinical Evaluation  Three-point Likert Scale:  1- Does not meet expectations  2- Meets Expectations  3 Exceeds expectations | 85% of clinical students will score “2” or better on a 3- point Likert scale on the Professional evaluation form A for the Hematology clinical rotation | Fall 2018 N=8; 5/8 or  88% >2 on scale  Spring 2019 N=6; 5/6 or 83%  100% >2 on scale | Benchmark met.  Students are meeting professional expectations of clinical affiliates. We will address any problems as they arise. |
| **Plan submission date: 5/1/2019** | | | **Submitted by: Candy Hill** | |

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| **Course Student Learning Outcomes & Assessment Plan**  **MLT 295S**  **Course Outcomes Assessed**  **1. Perform Specific clinical lab activities in Microbiology**  **2. Demonstrate professional conduct and interpersonal communication skills with patients, laboratory personnel, other health**  **care professionals, and with the public.** | | | | |
| **Intended Outcomes** | **Means of Assessment** | **Criteria for Success** | **Summary & Analysis of Assessment Evidence** | **Use of Results** |
| Perform Specific clinical lab activities in Microbiology | Clinical Evaluations  Three-point Likert Scale:  1- unable to perform  2- Performed with maximum supervision  3 Performed with minimum supervision | 85% of clinical students will score “3” or better on 80% of objectives on the Task Performances for MLT 295 | Fall 2018 N=8; 6/8 or  75% Scored “3” or better on 80% of objectives  Spring 2019 N=6; 4/6 or 67%  Scored “3” or better on 80% of objectives  SU 2019 N=4 4/4 or 100%  Scored “3” or better on 80% of objectives | Benchmark not met.  Curriculum change in MLT 161 starting summer 2019 will include competency skill check-off to determine and improve weak areas before sending to clinical semester |
| Demonstrate professional conduct and interpersonal communication skills with patients, laboratory personnel, other health care professionals, and with the public. | Clinical Evaluation  Three-point Likert Scale:  1- Does not meet expectations  2- Meets Expectations  3 Exceeds expectations | 85% of clinical students will score “2” or better on a 3- point Likert scale on the Professional evaluation form A for the Microbiology clinical rotation | Fall 2018 N=8; 8/8or  100% >2 on scale  Spring 2019 N=6; 6/6 or  100% >2 on scale | Benchmark met.  Students are meeting professional expectations of clinical affiliates. We will address any problems as they arise. |
| **Plan submission date: 8/26/2019** | | | **Submitted by: Candy Hill** | |

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| **Course Student Learning Outcomes & Assessment Plan**  **MLT 296S**  **Course Outcomes Assessed**  **1. Perform Specific clinical lab activities in Blood Bank**  **2. Demonstrate professional conduct and interpersonal communication skills with patients, laboratory personnel, other health**  **care professionals, and with the public.** | | | | |
| **Intended Outcomes** | **Means of Assessment** | **Criteria for Success** | **Summary & Analysis of Assessment Evidence** | **Use of Results** |
| Perform Specific clinical lab activities in Immunohematology (Blood Bank) | Clinical Evaluations  Three-point Likert Scale:  1- unable to perform  2- Performed with maximum supervision  3 Performed with minimum supervision | 85% of clinical students will score “3” or better on 80% of objectives on the Task Performances for MLT 296 | Fall 2018 N=8; 7/8 or  88% Scored “3” or better on 80% of objectives  Spring 2019 N=6; 5/6 or 83%  Scored “3” or better on 80% of objectives  SU 2019 N=1 1/1 or 100%  Scored “3” or better on 80% of objectives | Benchmark met with combined cohorts. N=14; 12/14 or 86% Scored “3” or better on 80% of objectives  Students continue to perform exceptional during clinical rotations. We will address any problems as they arise. |
| Demonstrate professional conduct and interpersonal communication skills with patients, laboratory personnel, other health care professionals, and with the public. | Clinical Evaluation  Three-point Likert Scale:  1- Does not meet expectations  2- Meets Expectations  3 Exceeds expectations | 85% of clinical students will score “2” or better on a 3- point Likert scale on the Professional evaluation form A for the Immunohematoloy clinical rotation | Fall 2018 N=8; 8/8 or  100% >2 on scale  Spring 2019 N=6; 6/6 or  100% >2 on scale | Benchmark met.  Students are meeting professional expectations of clinical affiliates. We will address any problems as they arise. |
| **Plan submission date: 8/26/2019** | | | **Submitted by: Candy Hill** | |

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| **Course Student Learning Outcomes & Assessment Plan**  **MLT 297S**  **1. Perform Specific clinical lab activities in Chemistry**  **2. Demonstrate professional conduct and interpersonal communication skills with patients, laboratory personnel, other health**  **care professionals, and with the public.** | | | | |
| **Intended Outcomes** | **Means of Assessment** | **Criteria for Success** | **Summary & Analysis of Assessment Evidence** | **Use of Results** |
| Perform Specific clinical lab activities in Chemistry | Clinical Evaluations  Three-point Likert Scale:  1- unable to perform  2- Performed with maximum supervision  3 Performed with minimum supervision | 85% of clinical students will score “3” or better on 80% of objectives on the Task Performances for MLT 297 | Fall 2018 N=8; 6/8 or  75% Scored “3” or better on 80% of objectives  Spring 2019 N=6; 5/6 or 83%  Scored “3” or better on 80% of objectives | Benchmark not met.  Curriculum change in MLT 161 starting summer 2019 will include competency skill check-off to determine and improve weak areas before sending to clinical semester |
| Demonstrate professional conduct and interpersonal communication skills with patients, laboratory personnel, other health care professionals, and with the public. | Clinical Evaluation  Three-point Likert Scale:  1- Does not meet expectations  2- Meets Expectations  3 Exceeds expectations | 85% of clinical students will score “2” or better on a 3- point Likert scale on the Professional evaluation form A for the Chemistry clinical rotation | Fall 2018 N=8; 6/8 or  75% >2 on scale  Spring 2019 N=6, 5/6 or  83% >2 on scale | Benchmark not met.  Students not successful in meeting criteria had a problem with retaining information. Spring student did not fit in with the clinical site. We will further evaluate clinical site with next placement. |
| **Plan submission date: 5/1/2019** | | | **Submitted by: Candy Hill** | |