

Annual Program Assessment Report: AY 2018-2019 (Fall 2018)

Please upload the form for each program in Blackboard by **November 30, 2018**

School	Health Sciences and Professional Programs
Department	Health Professions
Program	Clinical Laboratory Sciences
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Other Contributors	
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I. State Program Mission

The Clinical Laboratory Science Program at York College has been structured to provide students with an education that encompasses liberal arts and basic science requirements. It is our mission to prepare students to become competent clinical laboratory scientists with knowledge, skills, and attitudes assumed by professionals as members of the health care team.

II. **Program Goals & Program Level Student Learning Outcomes** assessed this academic year. (Insert additional rows as necessary)

Program Goal	Program-level Student Learning Outcome	Courses/Sections (Name and number of courses/sections data collected from)	Data Size Sample Size	Measures: Student Learning Evidence¹ E.g. Direct: Exams, assignments, presentations, etc. Indirect: Survey, focus groups, etc.	Expected Level of Student Achievement Indicate the expected level of achievement, standard/target for each outcome
Goal 1 Provide students with appropriate courses and internship training to succeed on the NYS licensing and national certification exams.	1.1 Students will pass the Media Lab exam (a practice exam) on the first attempt	CLS 460	All enrolled (n=11)	Direct: Medial Lab exam	90%
	1.2 On the first attempt, students will pass the NYS licensure exam given by the American Society for Clinical Pathology (ASCP) to achieve an overall program pass rate of 75% to meet the NAACLS benchmark.	Post-graduate testing	14	Direct: ASCP exam	75%
	1.3 Students will score higher on the ASCP exam than the national average in all subject areas	Post-graduate testing	14	Direct: ASCP exam	50%

¹ Direct measure is required; indirect measure is optional.

III. Data Collection and Evaluation

Describe how and when the data was collected and evaluated for each of the student learning outcome. Describe what tools were used to evaluate student work, e.g. rubrics. Please attach rubrics used. Include information regarding number of faculty involved in the evaluation and interpretation and evaluation processes.

The data discussed here were collected by the testing agencies (medialabinc.net and ascp.org.) The Media Lab exams were given to the students at the end of the student's internship (CLS 460), from 2/1/18 to 9/12/18. The ASCP exams for licensure were given to the graduates between 1/1/18 and 8/25/18. The data were reviewed by the program director.

IV. Results & Analysis

Indicate the results for each outcome (use space as necessary). Include interpretation of the results in narrative form. Describe how the actual results are compared with the expected level of student achievement set prior to data collection

PSLO 1.1:

The average for all 11 students taking the Media Lab exam (first attempt) was 81%; the passing grade was 75%. The average on the Media Lab exam of those who failed the ASCP exam on the first try was 61%. Those who passed the ASCP exam on the first try had an average of 84% on the Media Lab exam. These results suggest that the Media Lab exam grades are a reasonable predictor for success with the license exam (ASCP). The first try pass rate for the Media Lab exam was 64% (7/11); the goal is 90%. These are computer adaptive exams in 7 different subject areas. Since the students are not addressing the same questions, and the questions vary in the level of difficulty, it is difficult to pinpoint which areas in the subject matter need to be emphasized. The students are repeatedly encouraged to take the practice exams which are made available throughout the 30 week internship. The Media Lab exam and the ASCP exam contain questions at the three different levels of cognitive skills: recall, interpretation and analysis.

PSLO 1.2:

The ASCP exam for licensure to practice as a clinical lab scientist is taken after the student graduates. The passing grade is 400 and covers 7 different subject areas. Of the 14 in this review, 13 passed on the first try (93%); this exceeds the benchmark of 75%. The program mean scaled score was 619; the nation-wide mean scaled score was 521.

PSLO 1.3:

To determine which subject area might be giving students difficulty, we looked at the national averages to compare them with those of the York graduates. Our group exceeded the national average in 6 of 7 subject areas. Our goal was to have at least 50% of the examinees exceed the national average.

Subject	BB	UA	CHEM	HEMA	IMMU	MICRO	LAB OPS
National mean	503	519	538	528	471	541	525
York mean	548	609	666	640	439	728	590
% exceeding national mean	71%	62%	67%	71%	38%	86%	62%

Key BB: Blood Bank (CLS 343)
 UA: Urinalysis and Body Fluids (CLS 361)
 Chem: Chemistry (CLS 351)
 Hema: Hematology (CLS 252, 352, 354)
 Immu: Immunology/serology (CLS 341)
 Micro: Microbiology (CLS 353, 357)
 Lab ops: Lab operations and management, (CLS 362)

V. Communication

Describe how the assessment results will be communicated with appropriate internal and external stakeholders.

Assessment results will be communicated to internal stakeholder (faculty, current interns) at department meetings and intern orientation. ASCP exam pass rate is also posted to the CLS webpage per NAACLS requirements. Other external stakeholders, such as clinical coordinators at internship facilities, are informed at the annual CLS advisory board meeting held in January.

VI. Action Plan: Based on the results reported, define what changes are recommended for each outcome.

Program Goal	Program Student Learning Outcomes	Changes to be Implemented <i>(Indicate "yes" or "no")</i>	If yes, specify the type of change(s) recommended, needed resources and the reason for the recommendation.
Goal 1 Students will pass on the first attempt the NYS licensure exam given by the American Society for Clinical Pathology (ASCP)	1.1 Students will pass the Media Lab exam (a practice exam) on the first attempt	Yes	We continue to encourage students to use the practice exams available through Medialabinc.net.
	1.2 Students will pass the ASCP exam on the first attempt	No (The goal was met and exceeded the accreditation benchmark.)	
	1.3 Students will score higher on the ASCP exam than the national average in all subject areas	Yes	Scores in immunology/serology were below the goal. We will include questions in our course exams that resemble the content in Media Lab exams.

VII. Changes Implemented: Describe changes implemented as a result of assessment activities completed in the prior academic year/semester to “close the loop”. Indicate the semester in which the change was implemented and when it will be reassessed.

We will review the type of immunology/serology questions that are being answered incorrectly in the Media Lab exam. ASCP questions and answers are not available, however the ASCP Board of Certification just published a new review guide containing sample questions. The text will be reviewed during Fall 2018 and additional emphasis will be given to these areas of study.

ASCP review workshops were held by CLS faculty during spring semester 2018. This was the fourth time the workshop was offered. Four sessions were presented from April-May, one evening per week, for current or recently graduated CLS interns, with one of the 4 main subject areas covered (Blood Bank, Hematology, Microbiology and Chemistry) offered at each session. Supplemental study materials were provided on Blackboard for other topics (Coagulation, Parasitology, Lab Operations). The impact of workshop attendance on ASCP exam pass rate will be examined in Spring 2019.

VIII. Other Activities: Describe other program assessment activities related to student learning for this academic year. *This may include drafting assessment plan for next year, revision of goals/outcomes, curriculum mapping, etc.*

The assessment plan for next year will be expanded to include graduation rate. The current curriculum map will be updated to the current format.

IX. Synopsis Plan for upcoming academic year: 2019-2020

- a. Identify program goals and program level student learning outcomes the program will assess in the AY 2019-2020, and provide the program’s rationale.
- b. Using the curriculum map, identify aligned courses (sections) in which the selected program goals and program level student learning outcomes are embedded.
- c. Identify the assessment measures (direct and/or indirect) to gather evidence.

The goal for the next year will be to demonstrate that students/graduates meet or exceed the benchmarks for the Media Lab and ASCP exams, i.e. increasing the scores in all seven subject areas.