

Clinical Medical Technology ADV CRT Program



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Clinical Laboratory Technology



- Advanced Certificate Program-post bachelor's degree in the biological, chemical or physical sciences
- Accredited through the National Accreditation Agency for Clinical Laboratory Sciences; Registered by NYSED as a Licensure Qualifying Program
- 2 semesters – accelerated, fast paced program
- 35.5 credits with 18.5 credits of clinical practice (6 courses fall semester & 7 courses spring semester)
- Graduates eligible for national certification and NYS licensure

Why AEFIS?

- **New Program**– mapping feature provided an advantage in the development of the curriculum
- **Accreditation** – ability to assess student and program outcomes with one touch provides opportunities for real time improvements and outcomes data required by the accrediting agency
- **Heavy clinical competency component** – over half of the curriculum is delivered in a clinical setting whereby assessments are more aligned with professional competency (i.e. professional behaviors & clinical competencies)
- **Asynchronous curriculum** – didactic coursework is not synchronous with clinical rotations
- **Flexibility in assigning levels of competency**–
- **Ability to pull from multiple data points to track progress**–provides advantages to students as well as program leadership

Program Mapping by Course



CMT 405

Clinical Safety > Clinical Safety

Leadership > Leadership

LAB OPS Overall > Content knowledge

LAB OPS Overall > Clinical Practice

LAB OPS Overall > Professionalism



CMT 411

CHEM Overall > Content Knowledge

IMMUN Overall > Content knowledge



CMT 412

HEM Overall > Content Knowledge

URIN Overall > Content Knowledge

IMMUN Overall > Content knowledge



CMT 413

IMMUNOHEM Overall > Content Knowledge

IMMUN Overall > Content knowledge



CMT 414

MICRO Overall > Content knowledge



CMT 421

CHEM Overall > Content Knowledge



CMT 422

HEM Overall > Content Knowledge

URIN Overall > Content Knowledge

Program Mapping by Outcome

 CHEM Overall 	
 Clinical Practice	 CMT 401  CMT 402  CMT 403
 Content Knowledge	 CMT 411  CMT 421
 Professionalism	 CMT 402  CMT 403
 Clinical Safety 	
 Clinical Safety	 CMT 401  CMT 402  CMT 403  CMT 405
 HEM Overall 	
 Clinical practice	 CMT 401  CMT 402  CMT 403
 Content Knowledge	 CMT 412  CMT 422
 Professionalism	 CMT 402  CMT 403

Clinical Medical Technology – ADV CRT Program Rubrics

Program Rubrics



Novice

– least competent



Apprentice



Proficient



Entry Level

+ most competent

Clinical Medical Technology – ADV CRT Program Rubrics

Level	Fall Semester Grade	Spring Semester Grade
Novice	<80%	<75%
Apprentice	81%-94%	75%-79%
Proficient	95%-100%	80%-84%
Entry Level	NA	85%-100%

Clinical Medical Technology – ADV CRT Program Performance Goals

Performance Goal  90%

Rubric Level

- Novice
- Apprentice
- Proficient
- Entry Level

The above are default settings for rubric based assessments

The performance goal for assessments is to have **90%** of participants achieve a rubric level of at least **Entry Level**.

Direct Assessment Analysis

Demonstrate content knowledge in the area of clinical chemistry

12



83.3%

Demonstrate competence as entry level clinical laboratory technologists in practice in clinical chemistry.

12



100.0%

Have knowledge of and adhere to institutional, regional, national and international safety regulations in the clinical laboratory setting.

12



91.7%

Benefits for Program Leadership

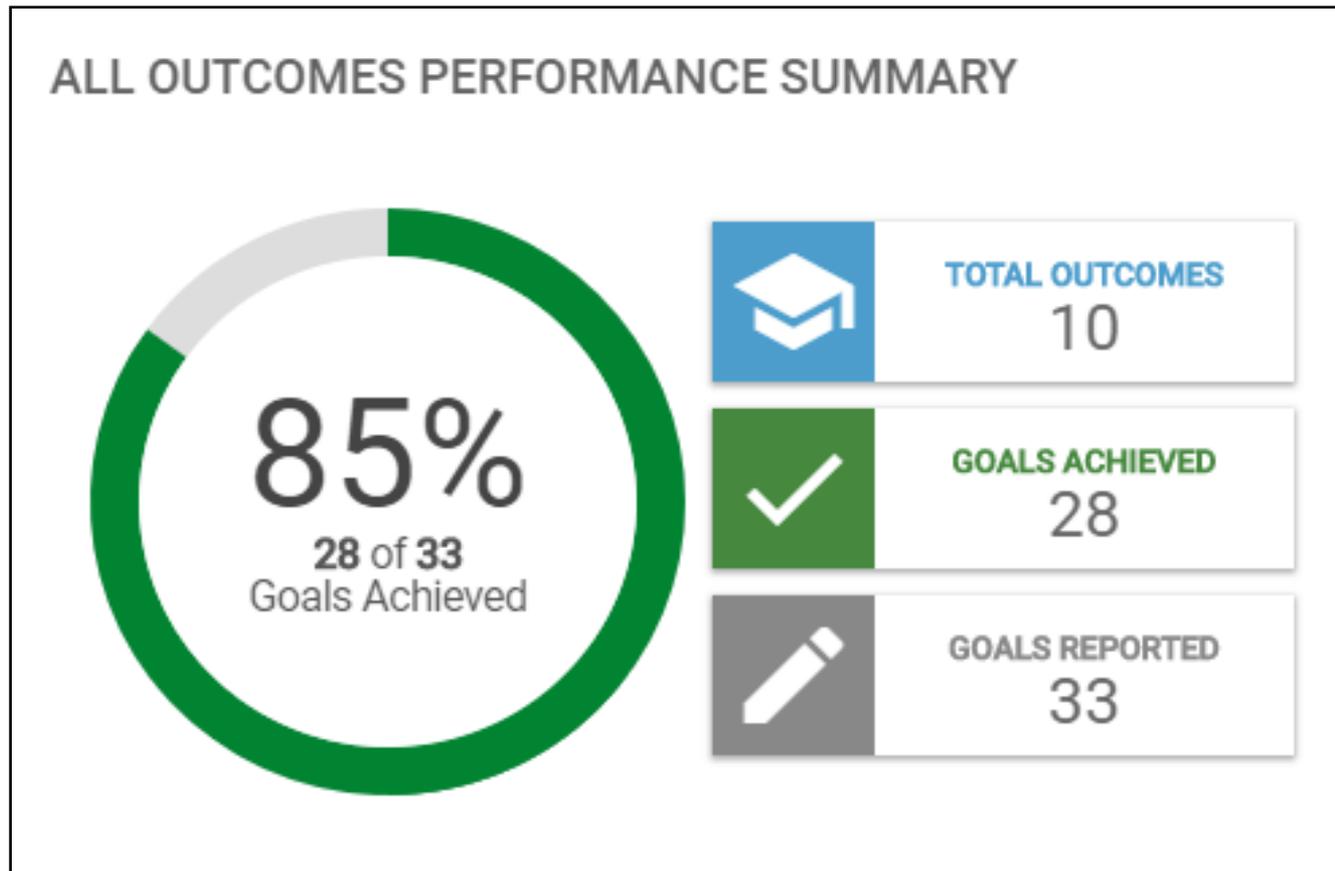
- Curriculum mapping and creation of the outcomes alignment is customized to your program needs.
- Experienced and skilled personnel are available on site for your program “build”.
- Analysis of learning outcomes is retrievable at any time. No need to wait for collection of data.
- Ease of access to real time, meaningful data to inform continuous process improvement.
- Useful reporting for self study or reporting to accrediting bodies.
- Predictive value of post-graduate goals (i.e. certification and state examinations)

Benefits for Students

- Ability to assess performance in each domain or overall.
- Feedback aligns with the program learning goals overall and is not just focused on a course or a grade.
- Students are able to track progress in real time not just to graduation but to achieve the end goal-in our case to achieve “entry level competency” as a licensed medical technologist.
- Sense of satisfaction as the colors assigned move from red to green.
- Predictive value of post-graduate goals (i.e. certification and state examinations) by highlighting the areas in the curriculum where their performance is not strong. These are the areas where they should focus their preparation for post-graduate examinations.

Comprehensive Learner Record (CLR)

The system provides students with the ability to export the CLR to an app of their choice; i.e. LinkedIn.



Comprehensive Learner Record (CLR)

CLINICAL MEDICAL TECHNOLOGY (ADV CRT) DETAILS

05. CLINICAL CHEMISTRY ▾

● CLINICAL MEDICAL TECHNOLOGY (ADV CRT)

Achieve the full range of competencies as entry level clinical laboratory technologist in the area of Clinical Chemistry.

ACHIEVED: 50% (2 OF 4)

01. CLINICAL SAFETY ▾

● CLINICAL MEDICAL TECHNOLOGY (ADV CRT)

Have knowledge of and adhere to institutional, regional, national and international safety regulations in the clinical laboratory setting.

ACHIEVED: 100% (3 OF 3)

06. HEMATOLOGY ▾

● CLINICAL MEDICAL TECHNOLOGY (ADV CRT)

Achieve the full range of competencies as entry level clinical laboratory technologists in the area of Hematology

ACHIEVED: 75% (3 OF 4)

09. IMMUNOLOGY ▾

● CLINICAL MEDICAL TECHNOLOGY (ADV CRT)

Achieve the full range of competencies as entry level clinical laboratory technologists in the area of Immunology

ACHIEVED: 75% (3 OF 4)

08. IMMUNOHEMOTOLOGY ▾

● CLINICAL MEDICAL TECHNOLOGY (ADV CRT)

Achieve the full range of competencies as entry level clinical laboratory technologists in the area of Immunohematology

ACHIEVED: 100% (4 OF 4)

Lessons Learned

- **Be kind to yourself** – you may not get it right the first time.
- **Pilot this application for one year or semester** – collect data before giving students access. Be prepared to make improvements as you become familiar with the system.
- **Carefully consider your program goals** – make sure they are realistic. Allow for usual % of drops, etc...
- **Carefully consider levels on rubrics** – what language would best be understood by your faculty and students.

Next Steps

- Maintenance of Accreditation–
- Faculty CV's–
- Course Syllabus and Management–

Questions?

