



UNIVERSITY of ALASKA ANCHORAGE



A.A.S. Paramedical Technology

Academic Assessment Plan

Adopted by

The Paramedical Technology faculty: 01/17/2023

*Reviewed with curriculum changes by the Academic Assessment Committee as a
information item: 2/17/23*

Reviewed by the Faculty Senate as an informational item: 3/3/23

MISSION STATEMENT

The Mission of the University of Alaska-Anchorage, Kenai Peninsula College Paramedic Program is to train and educate EMS professionals to become competent, capable, and compassionate entry level Paramedics.

Students successfully completing this course of study will be eligible to take the National Registry of EMTs Paramedic written and practical exams. Upon successfully receiving their National Registry Paramedic certification, students may then apply to the State of Alaska for licensure as a Paramedic.

The National Highway Traffic Safety Administration, a division of the Department of Transportation, implemented the National EMS Standards in 2021. These Standards define the minimal entry-level educational competencies for each level of EMS personnel as identified in the National EMS Scope of Practice Model. The standards further identify 14 learning outcomes that the Paramedical Technology Program has adopted. The students and the program are assessed by the Committee on Accreditation of Educational Programs for the Emergency Medical Services Professions (CoAEMSP) on each of these specific outcomes. National program accreditation is awarded by CAAHEP upon recommendation of CoAEMSP. Graduating students are eligible for testing by the National Registry of Emergency Medical Technicians.

PROGRAM STUDENT LEARNING OUTCOMES

Students graduating with an Associates of Applied Science in Paramedical Technology will be able to:

1. Integrate knowledge of EMS systems, safety/well-being of the paramedic, and medical/legal and ethical issues intended to improve the health of EMS personnel, patients, and the community.
2. Integrate a knowledge of the anatomy and physiology of all human systems.
3. Integrate anatomical and medical terminology and abbreviations into written and oral communication with colleagues and other health care professionals.
4. Integrate knowledge of pathophysiology of major human systems.
5. Integrate knowledge of life span development.
6. Apply knowledge of principles of public health and epidemiology including public health emergencies, health promotion, and illness and injury prevention.
7. Integrate knowledge of pharmacology to formulate a treatment plan intended to mitigate emergencies and improve the overall health of the patient.

8. Integrate knowledge of anatomy, physiology, and pathophysiology into the assessment to develop and implement a treatment plan with the goal of assuring a patent airway, adequate mechanical ventilation, and respiration for patients of all ages.
9. Integrate scene and patient assessment findings with knowledge of epidemiology and pathophysiology to form a field impression including developing a list of differential diagnoses through clinical reasoning to modify the assessment and formulate a treatment plan.
10. Integrate assessment findings with principles of epidemiology and pathophysiology to formulate a field impression and implement a treatment/disposition plan for a patient with a medical complaint.
11. Integrate knowledge of causes and pathophysiology into the management of cardiac arrest and peri-arrest states.
12. Integrate assessment findings with principles of epidemiology and pathophysiology to formulate a field impression to implement a treatment/disposition plan for an acutely injured patient.
13. Integrate assessment findings with principles of pathophysiology and knowledge of psychosocial needs to formulate a field impression and implement a treatment/disposition plan for patients with special needs.
14. Integrate knowledge of operational roles and responsibilities to ensure safe patient, public, and personnel safety.

MEASURES

A description of the tools used in the assessment of the program outcomes and their implementation are summarized in Table 1. The tools and their relationships to the program outcomes are listed in Table 2.

Table 1: Program Objectives Assessment Tools and Administration

Tool	Description	Frequency/ Start Date	Collection Method	Administered by
Assignments Quizzes Exams	Students are given homework assignments for each chapter and an exam that goes with each chapter. Students are also given a written and practical final exam at the end of each semester.	Varies over the semester.	Students have all of their homework assignment provided & graded via an online LMS. Exams are administered via secured computer-based testing. Specific assignments and tests are selected each semester and reviewed anonymously.	PMED Faculty
National Registry PPCP Skill Sheets	Paramedic Psychomotor Competency Portfolio (PPCP) are specific skills assessment sheets available for each skill objective and correlates with the National Registry of EMT's exams. Students must pass each PPCP Sheet to complete the program.	Each time an objective is taught as a specific unit. (some each semester)	Pass/Fail criteria for each PPCP and collected by faculty. Pass/Fail rates and portfolio completion are assessed.	PMED Faculty
Nat. Specialty: ACLS AMLS PALS PHTLS	These are nationally recognized specialty mini-courses (16 hours ea.) that are required for course completion.	Each specialty course will be taught at some point during the program during the time frame the subject is taught.	Written exam and practical skills results are collected at the end of each specialty course. Results are documented on the terminal competency form.	PMED Faculty are qualified to administer these national level courses & exams
Clinical Evaluations	Preceptor's assessment of student performance (cognitive, affective, and psychomotor evaluations) during in-hospital clinical rotations.	At the end of each day's rotation.	Student submits to instructor once per week. Clinical evaluations are reviewed each semester for student performance and site evaluation.	PMED Faculty, Preceptors, Mentors
Field Evaluations	Preceptor's assessment of student performance (cognitive, affective, and psychomotor evaluations) during ambulance ride-alongs and also the capstone internship.	Daily ambulance evaluations, and quarterly field internship evaluations by preceptor.	Daily ride-along evals must be turned in weekly. Capstone internship evals must be mailed to Faculty on a regular basis (at 120 hours, 240 hours, 360 hours and 480 hours). Clinical evaluations are reviewed each semester for student performance and site evaluation.	Preceptors and Field Training Officers; reviewed by program director
Capstone Summative Exams	Upon completion of the Capstone Field Internship the student must successfully complete a program summative written and practical exam.	Completed at the completion of all course work and the capstone internship.	Summative written and practical exam results are collected at the completion of the exam. Student performance is reviewed in relationship to capstone curriculum and experience.	PMED Faculty

Table 2: Association of Assessment Tools to Program Objectives

	Homework and Written Exams	PPCP Skills & Practical Exams	ACLS	PALS/PEPP	AMLS	PHTLS	NREMT Practical Exam	Field Evaluations	Clinical Evaluations
1. Integrate knowledge of EMS systems, safety/well-being of the paramedic, and medical/legal and ethical issues intended to improve the health of EMS personnel, patients, and the community.	1	1	0	0	0	1	1	1	1
2. Integrate a knowledge of the anatomy and physiology of all human systems.	1	1	1	1	1	1	1	1	1
3. Integrate anatomical and medical terminology and abbreviations into written and oral communication with colleagues and other health care professionals.	1	1	0	0	0	0	1	1	1
4. Integrate knowledge of pathophysiology of major human systems.	1	1	1	1	1	1	1	1	1
5. Integrate knowledge of life span development.	1	1	0	0	1	1	1	1	1
6. Apply knowledge of principles of public health and epidemiology including public health emergencies, health promotion, and illness and injury prevention.	1	1	0	0	0	0	1	0	0
7. Integrate knowledge of pharmacology to formulate a treatment plan intended to mitigate emergencies and improve the overall health of the patient.	1	1	1	1	1	0	1	1	1
8. Integrate knowledge of anatomy, physiology, and pathophysiology into the assessment to develop and implement a treatment plan with the goal of assuring a patent airway, adequate mechanical ventilation, and respiration for patients of all ages.	1	1	1	1	1	1	1	1	1

	Homework and Written Exams	PPCP Skills & Practical Exams	ACLS	PALS/PEPP	AMLS	PHTLS	NREMT Practical Exam	Field Evaluations	Clinical Evaluations
9. Integrate scene and patient assessment findings with knowledge of epidemiology and pathophysiology to form a field impression including developing a list of differential diagnoses through clinical reasoning to modify the assessment and formulate a treatment plan.	1	1	1	1	1	1	1	1	1
10. Integrate assessment findings with principles of epidemiology and pathophysiology to formulate a field impression and implement a treatment/disposition plan for a patient with a medical complaint.	1	1	1	1	1	1	1	1	1
11. Integrate knowledge of causes and pathophysiology into the management of cardiac arrest and peri-arrest states.	1	1	1	1	1	1	1	1	1
12. Integrate assessment findings with principles of epidemiology and pathophysiology to formulate a field impression to implement a treatment/disposition plan for an acutely injured patient.	1	1	0	0	1	1	1	1	1
13. Integrate assessment findings with principles of pathophysiology and knowledge of psychosocial needs to formulate a field impression and implement a treatment/disposition plan for patients with special needs.	1	1	1	1	1	1	1	1	1
14. Integrate knowledge of operational roles and responsibilities to ensure safe patient, public, and personnel safety.	1	1	0	0	0	0	1	1	1

0 = Tool is not used to measure the associated objective.
1 = Tool is used to measure the associated objective.

PROCESS

SHARED PROGRAM ASSESSMENT TIME-LINE:

PSLO's for EMS programs are mandated by the National Highway Traffic Safety Administration (NHTSA). Since the program has a large number of mandatory PSLO's, the program performs a complete program assessment, including each of the 14 Student Learning Outcomes over a three-year cycle.

Year One

Outcome 1: Integrate knowledge of EMS systems, safety/well-being of the paramedic, and medical/legal and ethical issues intended to improve the health of EMS personnel, patients, and the community.

Outcome 2: Integrate a knowledge of the anatomy and physiology of all human systems.

Outcome 9: Integrate scene and patient assessment findings with knowledge of epidemiology and pathophysiology to form a field impression including developing a list of differential diagnoses through clinical reasoning to modify the assessment and formulate a treatment plan.

Outcome 12: Integrate assessment findings with principles of epidemiology and pathophysiology to formulate a field impression to implement a treatment/disposition plan for an acutely injured patient.

Year Two

Outcome 3: Integrate anatomical and medical terminology and abbreviations into written and oral communication with colleagues and other health care professionals.

Outcome 5: Integrate knowledge of life span development.

Outcome 6: Apply knowledge of principles of public health and epidemiology including public health emergencies, health promotion, and illness and injury prevention.

Outcome 10: Integrate assessment findings with principles of epidemiology and pathophysiology to formulate a field impression and implement a treatment/disposition plan for a patient with a medical complaint.

Outcome 13: Integrate assessment findings with principles of pathophysiology and knowledge of psychosocial needs to formulate a field impression and implement a treatment/disposition plan for patients with special needs.

Year Three

Outcome 4: Integrate knowledge of pathophysiology of major human systems.

Outcome 7: Integrate knowledge of pharmacology to formulate a treatment plan intended to mitigate emergencies and improve the overall health of the patient.

Outcome 8: Integrate knowledge of anatomy, physiology, and pathophysiology into the assessment to develop and implement a treatment plan with the goal of assuring a patent airway, adequate mechanical ventilation, and respiration for patients of all ages.

Outcome 11: Integrate knowledge of causes and pathophysiology into the management of cardiac arrest and peri-arrest states.

Outcome 14: Integrate knowledge of operational roles and responsibilities to ensure safe patient, public, and personnel safety.

Upon completing the three-year program assessment cycle, the program will re-evaluate the program assessment plan and restart the assessment process over a new three-year period.

DATA AGGREGATION & PROGRAM ASSESSMENT REPORT SUBMISSION:

Data for each PSLO will be gathered by program faculty with results accompanying the annual program assessment report.

2023 Update: See Appendix for the courses which will be used to assess the outcomes for each year of this rotation.

The following form will be the primary tool used for the collection for each PSLO evaluated and will accompany the program's Annual Program Assessment Report.

Program Student Learning Outcomes Data Collection Cover Sheet

A.A.S Paramedical Technology

Each year programs are assessed on student learning outcomes based on the procedure outlined in the program's assessment plan. Assessment methods include direct measures (assignments, exams, papers, projects, presentations, journals, etc.) or indirect measures (overall course grades, student surveys, employer surveys, etc.). The standard is to have at least two different direct measures per program outcome.

Please provide assessment data for the student learning outcome listed below by filling out this form and including it along with the Program Assessment Report as outlined in the Program Assessment Plan.

Instructor: _____ Subject: _____ Course: _____ Section: I10 CRN: _____

Outcome _____

- As it relates to the PROGRAM student learning outcome being assessed:
Assignment name: _____
Assignment description: _____

- _____ Please write number of students assessed (only include those who attempted)
- _____ Please write total enrollment number
- _____ Please write total points possible on assignment
- _____ Please write points (or percent) required for success

Please complete each of the following:

- Attach copy of assignment (exam, quiz, essay, homework, etc.) used to assess student learning outcome.
- List all individual scores on page 2 of this sheet, OR attach a copy of your grade sheet. Please do not include any student names or identifiers.
- And CHOOSE ONE:
 - Attach a complete scoring rubric
 - OR --
 - Or provide samples of excellent, mediocre, and unsuccessful work, without including any student names. Just **one or two** samples of each type; no need to provide copies of all students' assignments.

Program Student Learning Outcomes Data Collection Cover Sheet

<p>1. Do you have any other information, observations, or analysis that you would like to add to the results of this particular assessment tool that will help prepare the AY16 assessment report?</p>	<p>(If score represented as letter grade, it will be interpreted as A=4, B=3, C=2, D=1, F=0)</p>																																																																								
	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;">Student</th> <th style="width: 50%;">Score:</th> </tr> </thead> <tbody> <tr><td style="text-align: center;">1</td><td></td></tr> <tr><td style="text-align: center;">2</td><td></td></tr> <tr><td style="text-align: center;">3</td><td></td></tr> <tr><td style="text-align: center;">4</td><td></td></tr> <tr><td style="text-align: center;">5</td><td></td></tr> <tr><td style="text-align: center;">6</td><td></td></tr> <tr><td style="text-align: center;">7</td><td></td></tr> <tr><td style="text-align: center;">8</td><td></td></tr> <tr><td style="text-align: center;">9</td><td></td></tr> <tr><td style="text-align: center;">10</td><td></td></tr> <tr><td style="text-align: center;">11</td><td></td></tr> <tr><td style="text-align: center;">12</td><td></td></tr> <tr><td style="text-align: center;">13</td><td></td></tr> <tr><td style="text-align: center;">14</td><td></td></tr> <tr><td style="text-align: center;">15</td><td></td></tr> <tr><td style="text-align: center;">16</td><td></td></tr> <tr><td style="text-align: center;">17</td><td></td></tr> <tr><td style="text-align: center;">18</td><td></td></tr> <tr><td style="text-align: center;">19</td><td></td></tr> <tr><td style="text-align: center;">20</td><td></td></tr> <tr><td style="text-align: center;">21</td><td></td></tr> <tr><td style="text-align: center;">22</td><td></td></tr> <tr><td style="text-align: center;">23</td><td></td></tr> <tr><td style="text-align: center;">24</td><td></td></tr> <tr><td style="text-align: center;">25</td><td></td></tr> <tr><td style="text-align: center;">26</td><td></td></tr> <tr><td style="text-align: center;">27</td><td></td></tr> <tr><td style="text-align: center;">28</td><td></td></tr> <tr><td style="text-align: center;">29</td><td></td></tr> <tr><td style="text-align: center;">30</td><td></td></tr> <tr><td style="text-align: center;">31</td><td></td></tr> <tr><td style="text-align: center;">32</td><td></td></tr> <tr><td style="text-align: center;">33</td><td></td></tr> <tr><td style="text-align: center;">34</td><td></td></tr> <tr><td style="text-align: center;">35</td><td></td></tr> </tbody> </table>	Student	Score:	1		2		3		4		5		6		7		8		9		10		11		12		13		14		15		16		17		18		19		20		21		22		23		24		25		26		27		28		29		30		31		32		33		34		35	
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<p>2. Do you have any suggestions to improve student success for this program learning outcome?</p>																																																																									
<p>3. Do you have any comment or suggestion on how we assess this particular program learning outcome?</p>																																																																									
<p>4. Please list any comment you have regarding unassessed students (withdrawals, audits, no shows, emergencies, etc.).</p>																																																																									

Appendix: UAA AAS Paramedical Technology Three Year Outcome Plan Revised 1-15-2023

Rotation 1 (2023-2024)

Outcome 1: Integrate knowledge of EMS systems, safety/well-being of the paramedic, and medical/legal and ethical issues intended to improve the health of EMS personnel, patients, and the community.

- PMED A241 & A241L – Paramedicine I
- PMED A242 – Clinical Rotation I
- PMED A254 – Clinical Rotation II
- PMED A264 – Clinical Rotation III
- PMED A295 – Paramedic Internship

Outcome 2: Integrate a knowledge of the anatomy and physiology of all human systems.

- PMED A241 & A241L – Paramedicine I
- PMED A242 – Clinical Rotation I
- PMED A253 & A253L – Paramedicine II
- PMED A254 – Clinical Rotation II
- PMED A263 & A263L – Paramedicine II
- PMED A264 – Clinical Rotation III
- PMED A295 – Paramedic Internship

Outcome 9: Integrate scene and patient assessment findings with knowledge of epidemiology and pathophysiology to form a field impression including developing a list of differential diagnoses through clinical reasoning to modify the assessment and formulate a treatment plan.

- PMED A241 & A241L – Paramedicine I
- PMED A242 – Clinical Rotation I
- PMED A253 & A253L – Paramedicine II
- PMED A254 – Clinical Rotation II
- PMED A263 & A263L – Paramedicine III
- PMED A264 – Clinical Rotation III
- PMED A295 – Paramedic Internship

Outcome 12: Integrate assessment findings with principles of epidemiology and pathophysiology to formulate a field impression to implement a treatment/disposition plan for an acutely injured patient.

PMED A242 – Clinical Rotation I
PMED A254 – Clinical Rotation II
PMED A263 & A263L – Paramedicine III
PMED A264 – Clinical Rotation III
PMED A295 – Paramedic Internship

Rotation 2 (2024-2025)

Outcome 3: Integrate anatomical and medical terminology and abbreviations into written and oral communication with colleagues and other health care professionals.

PMED A241 & A241L – Paramedicine I
PMED A242 – Clinical Rotation I
PMED A254 – Clinical Rotation II
PMED A264 – Clinical Rotation III
PMED A295 – Paramedic Internship

Outcome 5: Integrate knowledge of life span development.

PMED A241 & A241L – Paramedicine I
PMED A242 – Clinical Rotation I
PMED A253 & A253L – Paramedicine II
PMED A264 – Clinical Rotation III
PMED A295 – Paramedic Internship

Outcome 6: Apply knowledge of principles of public health and epidemiology including public health emergencies, health promotion, and illness and injury prevention.

PMED A241 & A241L – Paramedicine I
PMED A253 & A253L – Paramedicine II
PMED A263 & A263L – Paramedicine III

Outcome 10: Integrate assessment findings with principles of epidemiology and pathophysiology to formulate a field impression and implement a treatment/disposition plan for a patient with a medical complaint.

PMED A242 – Clinical Rotation I
PMED A253 & A253L – Paramedicine II
PMED A254 – Clinical Rotation II
PMED A264 – Clinical Rotation III
PMED A295 – Paramedic Internship

Outcome 13: Integrate assessment findings with principles of pathophysiology and knowledge of psychosocial needs to formulate a field impression and implement a treatment/disposition plan for patients with special needs.

PMED A242 – Clinical Rotation I
PMED A253 & A253L – Paramedicine II
PMED A254 – Clinical Rotation II
PMED A263 & A263L – Paramedicine III
PMED A264 – Clinical Rotation III
PMED A295 – Paramedic Internship

Rotation 3 (2025-2026)

Outcome 4: Integrate knowledge of pathophysiology of major human systems.

PMED A241 & A241L – Paramedicine I
PMED A242 – Clinical Rotation I
PMED A254 – Clinical Rotation II
PMED A264 – Clinical Rotation III
PMED A295 – Paramedic Internship

Outcome 7: Integrate knowledge of pharmacology to formulate a treatment plan intended to mitigate emergencies and improve the overall health of the patient.

PMED A241 & A241L – Paramedicine I
PMED A242 – Clinical Rotation I
PMED A253 & A253L – Paramedicine II
PMED A254 – Clinical Rotation II
PMED A263 & A263L – Paramedicine III
PMED A264 – Clinical Rotation III
PMED A295 – Paramedic Internship

Outcome 8: Integrate knowledge of anatomy, physiology, and pathophysiology into the assessment to develop and implement a treatment plan with the goal of assuring a patent airway, adequate mechanical ventilation, and respiration for patients of all ages.

PMED A241 & A241L – Paramedicine I
PMED A242 – Clinical Rotation I
PMED A254 – Clinical Rotation II
PMED A264 – Clinical Rotation III
PMED A295 – Paramedic Internship

Outcome 11: Integrate knowledge of causes and pathophysiology into the management of cardiac arrest and peri-arrest states.

PMED A242 – Clinical Rotation I
PMED A253 & A253L – Paramedicine II
PMED A254 – Clinical Rotation II
PMED A263 & A263L – Paramedicine III
PMED A264 – Clinical Rotation III
PMED A295 – Paramedic Internship

Outcome 14: Integrate knowledge of operational roles and responsibilities to ensure safe patient, public, and personnel safety.

PMED A242 – Clinical Rotation I
PMED A254 – Clinical Rotation II
PMED A263 & A263L – Paramedicine III
PMED A264 – Clinical Rotation III
PMED A295 – Paramedic Internship