

# EMERGENCY MEDICAL SCIENCE

**Contact(s):** Scott Shew (<https://www.stanly.edu/directory?id=1429>)

The Emergency Medical Science curriculum provides individuals with the knowledge, skills, and attributes to provide advanced emergency medical care as a paramedic for critical and emergent patients who access the emergency medical system and prepares graduates to enter the workforce.

Students will gain complex knowledge, competency, and experience while employing evidence based practice under medical oversight, and serve as a link from the scene into the healthcare system.

Graduates of this program may be eligible to take state and/or national certification examinations. Employment opportunities include providers of emergency medical services, fire departments, rescue agencies, hospital specialty areas, industry, educational and government agencies.

## Admissions Checklist

Paramedic Program Outcomes Data ([https://www.stanly.edu/sites/default/files/2019/ems\\_website\\_outcomes\\_matrix.pdf](https://www.stanly.edu/sites/default/files/2019/ems_website_outcomes_matrix.pdf))

## Characteristics of Paramedics

Paramedics have fulfilled prescribed requirements by a credentialing agency to practice the art and science of out-of-hospital medicine in conjunction with medical direction. Through the performance of assessments and providing medical care, their goal is to prevent and reduce mortality and morbidity due to illness and injury. Paramedics primarily provide care to emergency patients in an out-of-hospital setting.

Paramedics possess the knowledge, skills and attitudes consistent with the expectations of the public and the profession. Paramedics recognize that they are an essential component of the continuum of care and serve as linkages among health resources.

Paramedics strive to maintain high quality, reasonable cost health care by delivering patients directly to appropriate facilities. As an advocate for patients, paramedics seek to be proactive in affecting long term health care by working in conjunction with other provider agencies, networks, and organizations. The emerging roles and responsibilities of the Paramedic include public education, health promotion, and participation in injury and illness prevention programs. As the scope of service continues to expand, the Paramedic will function as a facilitator of access to care, as well as an initial treatment provider.

Paramedics are responsible and accountable to medical direction, the public, and their peers. Paramedics recognize the importance of research and actively participate in the design, development, evaluation, and publication of research. Paramedics seek to take part in life-long professional development, peer evaluation and assume an active role in professional and community organizations.

Course work includes instruction in medical and trauma patient assessment, basic and advanced airway management, pathophysiology, pharmacology, cardiology and electrocardiography, medical emergencies, trauma emergencies, patients with special challenges, obstetrics, pediatrics, EMS management, and clinical and field internship rotations.

Employment opportunities include private, hospital-based, and third-party Emergency Medical Services.

## Program Goal:

To prepare competent entry-level Paramedics in the cognitive (knowledge), psychomotor (skills), and effective (behavior) learning domains with or without exit points at the Advanced Emergency Medical Technician and/or Emergency Medical Technician, and/or Emergency Medical Responder levels.

## Admission Requirements

1. Submit to the Admissions Office at Stanly Community College a properly completed Application for Admission to the Emergency Medical Science Program.
2. Submit to the SCC Admissions Office an official copy of a high school transcript showing successful completion of all requirements for graduation and official post-secondary transcripts for all institutions attended. A high school equivalency certificate indicating a passing score or an Adult High School diploma is acceptable in lieu of a regular high school diploma.
3. Complete the placement test (NCDAP, ACCUPLACER, etc.). If test results indicate a need for developmental studies, all developmental classes must be completed prior to enrollment in the Emergency Medical Science program. Applicants having already completed ENG 111 and an approved college math course may be exempt from placement testing. Placement test scores older than 5 years are not accepted.
4. For the applicant that has completed any college level courses taken with SCC prior to admission into the Emergency Medical Science program, a minimum cumulative GPA of 2.0 is required.
5. Submit a properly completed medical form (supplied by the Admissions Office) after acceptance to the program. The medical form is to be completed by a licensed physician, physician's assistant, or nurse practitioner and then uploaded per instructions by the date given on the conditional acceptance letter (supplied by the Admissions Office).
6. Submit current CPR certification for healthcare providers that is endorsed by the American Heart Association. Current CPR certification is required to be maintained throughout the student's attendance in the EMS program. (This should be submitted and uploaded by following the instructions provided by the Admissions Office.)

## Background Checks/Drug Screening

Applicants accepted for admission to health services programs at Stanly Community College are required to complete a criminal background check, drug screening, and possibly a fingerprint check after notification of acceptance and prior to participation in on-site clinical training.

Based on the results of the checks, hospitals or clinical affiliates where the student will participate in on-site training may deny access to their facility, resulting in the student's inability to complete the clinical portion of training. **Students unable to complete the clinical portion of his or her training will be unable to progress in the program.** Students are responsible for paying all costs associated with this requirement.

## Acceptance Procedure

The Emergency Medical Science (EMS) program accepts a maximum of 20 students each year. Applicants are conditionally accepted based upon their completion of steps 1 through 4 of the admission requirements.

The applicants will be ranked in order by the date applied and by their completion of these steps.

Applicants who apply to the EMS program after the 20 seats are filled will be placed on an alternate list in the order in which they completed all admission requirements. If any of the applicants who have been accepted to the program should forfeit their acceptance, those applicants on the alternate list will be contacted in the order in which their names appear on the list and will be given an opportunity to enroll.

If an applicant whose name appears on the alternate list is not afforded an opportunity to begin classes during the year in which he or she has made application, that applicant will need to submit another application in order to be considered for admission the following year. (Admission requirements may change from year to year).

Any applicant who forfeits his or her acceptance will not be guaranteed acceptance in any subsequent year. The applicant must reapply if he or she wishes to be considered for acceptance at a later date.

Readmission to the EMS program requires a waiting period of one full school year if you withdraw from the EMS program during the fall semester.

Readmission to the SCC EMS program has a time limit of 3 years from the semester of withdrawal for any continuing student\*. (Example - if you withdraw in March, 2017, you must be readmitted by January, 2020 in order to attempt completion of the program\*\*)

\*student must successfully pass any reentry competencies

\*\*any new admission guidelines will apply

## Emergency Medical Science – Associate in Applied Science – A45340

Course	Title	Credit Hours
<b>First Year</b>		
<b>Fall</b>		
ACA 111	College Student Success	1
MED 120	Survey of Medical Terminology	2
EMS 110	EMT	8
BIO 163	Basic Anatomy & Physiology	5
Credit Hours		16
<b>Spring</b>		
EMS 122	EMS Clinical Practicum I	1
EMS 130	Pharmacology	4
EMS 131	Advanced Airway Management	2
EMS 160	Cardiology I	2
MAT 143	Quantitative Literacy	3
Credit Hours		12
<b>Summer</b>		
EMS 220	Cardiology II	3
EMS 221	EMS Clinical Practicum II	2
ENG 111	Writing and Inquiry	3
PSY 150	General Psychology	3

CIS 110	Introduction to Computers	3
Credit Hours		14
<b>Second Year</b>		
<b>Fall</b>		
EMS 231	EMS Clinical Practicum III	3
EMS 240	Patients With Special Challenges	2
EMS 250	Medical Emergencies	4
EMS 260	Trauma Emergencies	2
EMS 270	Life Span Emergencies	3
Credit Hours		14
<b>Spring</b>		
EMS 235	EMS Management	2
EMS 241	EMS Clinical Practicum IV	4
EMS 285	EMS Capstone	2
ENG 112 or ENG 114	Writing and Research in the Disciplines or Professional Research & Reporting	3
Humanities Elective *		3
Credit Hours		14
Total Credit Hours		70

\*Please see the Suggested Humanities and Social/Behavioral Science Elective List for AAS Majors webpage.

EMS Accreditation (<https://www.stanly.edu/future-students/educational-offerings/emergency-medical-science/ems-accreditation>)

Paramedic Program Outcomes Data ([https://www.stanly.edu/sites/default/files/2019/ems\\_website\\_outcomes\\_matrix.pdf](https://www.stanly.edu/sites/default/files/2019/ems_website_outcomes_matrix.pdf))

Estimated Cost (<https://www.stanly.edu/node/1219?program=aaems>)

Continuing Education Courses (<https://www.stanly.edu/future-students/continuing-education/paramedic-program-continuing-education>)

EMT Program (<https://www.stanly.edu/future-students/continuing-education/emergency-medical-technician-emt-program>)

Support Courses/Recertification (<https://www.stanly.edu/future-students/continuing-education/ems/support-courses-recertification>)

NCOEMS (<https://www.ncems.org>)

NREMT (<https://www.nremt.org/rwd/public>)

CoAEMSP (<http://www.coaemsp.org>)

EMS Instructor Credentialing (<https://www2.ncdhhs.gov/dhsr/EMS/pdf/cred/instructorapp.pdf>)

The Emergency Medical Science AGE Pathway offers students a place to begin their journey toward a career in Emergency Medical Science. The AGE pathway gives students the opportunity to complete all of the general education courses required in the Emergency Medical Science program. After completion of these courses, students who choose to continue in to the degree program will be able to focus on Emergency Medical Science specific courses.

For more information, please contact: Melanie Alexander (<https://www.stanly.edu/directory?id=1449>)

**AGE Pathway**

Code	Title	Credit Hours
ACA 111	College Student Success	1
BIO 163	Basic Anatomy & Physiology	5
CIS 110	Introduction to Computers	3
ENG 111	Writing and Inquiry	3
ENG 112	Writing and Research in the Disciplines	3
or ENG 114	Professional Research & Reporting	
MAT 143	Quantitative Literacy	3
PSY 150	General Psychology	3
Humanities *		3
Elective *		40
Total Credit Hours		64

**\*Humanities list**

Code	Title	Credit Hours
<b>Choose 3 credits from the following:</b>		
ART 111	Art Appreciation	3
ART 114	Art History Survey I	3
ART 115	Art History Survey II	3
DRA 111	Theatre Appreciation	3
ENG 125	Creative Writing I	3
HUM 120	Cultural Studies	3
HUM 122	Southern Culture	3
HUM 150	American Women's Studies	3
HUM 160	Introduction to Film	3
MUS 110	Music Appreciation	3
MUS 112	Introduction to Jazz	3
MUS 113	American Music	3
MUS 210	History of Rock Music	3
REL 110	World Religions	3
REL 211	Introduction to Old Testament	3
REL 212	Introduction to New Testament	3
REL 221	Religion in America	3

**\*Elective list**

Code	Title	Credit Hours
<b>Choose 40 credits from the following:</b>		
ART 111	Art Appreciation	3
ART 114	Art History Survey I	3
ART 115	Art History Survey II	3
ART 116	Survey of American Art	3
ART 117	Non-Western Art History	3
BIO 110	Principles of Biology	4
BIO 111	General Biology I	4
BIO 112	General Biology II	4
BIO 140	Environmental Biology	3
BIO 140A	Environmental Biology Lab	1
BIO 163	Basic Anatomy & Physiology	5

BIO 165	Anatomy and Physiology I	4
BIO 166	Anatomy and Physiology II	4
BIO 275	Microbiology	4
BUS 110	Introduction to Business	3
BUS 115	Business Law I	3
BUS 137	Principles of Management	3
BUS 228	Business Statistics	3
CHM 131	Introduction to Chemistry	3
CHM 131A	Introduction to Chemistry Lab	1
CHM 132	Organic and Biochemistry	4
CHM 151	General Chemistry I	4
CHM 152	General Chemistry II	4
CIS 110	Introduction to Computers	3
CIS 115	Introduction to Programming and Logic	3
CJC 111	Introduction to Criminal Justice	3
CJC 121	Law Enforcement Operations	3
CJC 141	Corrections	3
COM 231	Public Speaking	3
CSC 134	C++ Programming	3
CSC 139	Visual BASIC Programming	3
CSC 151	JAVA Programming	3
CTS 115	Information Systems Business Concepts	3
ECO 251	Principles of Microeconomics	3
ECO 252	Principles of Macroeconomics	3
EDU 216	Foundations of Education	3
ENG 111	Writing and Inquiry	3
ENG 112	Writing and Research in the Disciplines	3
ENG 113	Literature-Based Research	3
ENG 114	Professional Research & Reporting	3
ENG 125	Creative Writing I	3
ENG 231	American Literature I	3
ENG 232	American Literature II	3
ENG 233	Major American Writers	3
ENG 241	British Literature I	3
ENG 242	British Literature II	3
ENG 251	Western World Literature I	3
ENG 252	Western World Literature II	3
ENG 253	The Bible As Literature	3
HEA 110	Personal Health/Wellness	3
HIS 111	World Civilizations I	3
HIS 112	World Civilizations II	3
HIS 121	Western Civilization I	3
HIS 122	Western Civilization II	3
HIS 131	American History I	3
HIS 132	American History II	3
HIS 236	North Carolina History	3
HUM 110	Technology and Society	3
HUM 115	Critical Thinking	3
HUM 120	Cultural Studies	3
HUM 121	The Nature of America	3
HUM 122	Southern Culture	3
HUM 150	American Women's Studies	3

HUM 160	Introduction to Film	3
HUM 180	International Cultural Exploration	3
MAT 143	Quantitative Literacy	3
MAT 152	Statistical Methods I	4
MAT 171	Precalculus Algebra	4
MAT 172	Precalculus Trigonometry	4
MAT 263	Brief Calculus	4
MAT 271	Calculus I	4
MAT 272	Calculus II	4
MAT 273	Calculus III	4
MUS 110	Music Appreciation	3
MUS 112	Introduction to Jazz	3
MUS 113	American Music	3
MUS 210	History of Rock Music	3
PED 111	Physical Fitness I	1
PED 113	Aerobics I	1
PED 120	Walking for Fitness	1
PED 121	Walk, Jog, Run	1
PED 125	Self-Defense: Beginning	1
PHI 215	Philosophical Issues	3
PHI 240	Introduction to Ethics	3
PHY 110	Conceptual Physics	3
PHY 110A	Conceptual Physics Lab	1
PHY 151	College Physics I	4
PHY 152	College Physics II	4
POL 120	American Government	3
POL 210	Comparative Government	3
PSY 150	General Psychology	3
PSY 237	Social Psychology	3
PSY 241	Developmental Psychology	3
PSY 263	Educational Psychology	3
PSY 281	Abnormal Psychology	3
REL 110	World Religions	3
REL 111	Eastern Religions	3
REL 112	Western Religions	3
REL 211	Introduction to Old Testament	3
REL 212	Introduction to New Testament	3
REL 221	Religion in America	3
SOC 210	Introduction to Sociology	3
SOC 213	Sociology of the Family	3
SOC 232	Social Context of Aging	3
SPA 111	Elementary Spanish I	3
SPA 112	Elementary Spanish II	3
SPA 141	Culture and Civilization	3
SPA 161	Cultural Immersion	3
SPA 181	Spanish Lab 1	1
SPA 182	Spanish Lab 2	1
SPA 211	Intermediate Spanish I	3
SPA 212	Intermediate Spanish II	3
SPA 281	Spanish Lab 3	1
SPA 282	Spanish Lab 4	1