

EMERGENCY MEDICAL TECHNOLOGY – PARAMEDIC

Purpose

The purpose of the Emergency Medical Technology program is to adequately prepare students to function as entry-level pre-hospital professional healthcare providers.

Program Description

The Emergency Medical Technology Program prepares the student to provide competent pre-hospital emergency care to acutely ill or injured patients under the direction of a physician. The program provides opportunities for the student to gain cognitive ability, psychomotor skills and professional attributes necessary to function as a pre-hospital emergency care provider. Students satisfactorily completing the EMT coursework will receive a recommendation to sit for the National Registry Examination (EMT). Upon successful completion of the paramedic curriculum, the student will receive a Technical Certificate in Paramedicine with option to complete the academic requirements necessary to obtain an Associate of Applied Science Degree. The student will receive a recommendation for the National Registry Paramedic Examination at the completion of their training.

The mission of the Department of Emergency Medical Technology is to ensure each student receives the best training available to produce qualified, competent, industry-ready Emergency Medical Technicians. Classroom training is provided by dedicated instructors who meet the requirements set forth by Jones County Junior College (JCJC), Career and Technical Education Division (CTE), and the Mississippi State Department of Education (MSDOE). In addition to the faculty, pre-selected clinical and field-internship preceptors, a variety of media resources, and high-fidelity training equipment are used to enhance learning opportunities.

Carrying out this mission requires teamwork between the college, program, clinical education centers the student. As an EMT or paramedic student, your role will be to dedicate yourself to increasing your knowledge of patient care, basic and advanced life-saving skills, and professionalism. Your own personal contribution towards your education is the most important part of accomplishing this mission, and the decision to succeed or to fail is in your hands.

Classroom instruction is comprehensive including a working knowledge of all anatomy, physiology, and pathophysiological processes as well as competency-based instruction in assessment and management skills required for treatment of life-threatening problems in the adult, pediatric, and geriatric patient. Clinical internship requires participation in care of patients in a hospital emergency department that provides medical control to ALS providers in the field and, according to availability, CCU, ICU, labor and delivery suite, operating room, psychiatric ward, pediatric ward, and geriatric ward. Field internship is done with an ambulance service and/or rescue service providing advanced life support services to the community.

The first semester consists of the EMT courses and academic prerequisites which are offered each semester. The curriculum for the paramedic is four semesters beyond the EMT course. **Advanced EMT and Paramedic classes are admitted each fall on a competitive entrance basis. The Advanced EMT (AEMT) course runs concurrently to the paramedic program courses for the fall semester and 8w1 for the spring semester. Students will complete the Advanced EMT class to bridge the content required for clearance in to sit for the NREMT AEMT examination in during the spring semester. At this point, students have the option of exiting the program as an AEMT or continuing for the completion of the AAS or Technical Certificate in Paramedicine.** To be eligible for an Associate of Applied Science degree, the student must successfully complete Anatomy and Physiology I and II, College Algebra, English Composition I & II, Oral Communications, Social Science Elective, EMT courses and all paramedic courses. This education program is sanctioned by the Mississippi State Board of Health. The course meets or exceeds those standards established by the National Highway Traffic Safety Administration/U.S. Department of Transportation.

Profession of Paramedicine Description

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 patient 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. 4

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 and 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 and peer evaluation. They assume an active role in professional and community organizations.

Accreditation

The Emergency Technology program at Jones County Junior College is accredited by the Commission on Accreditation of Allied Health Education Programs (www.caahep.org) upon the recommendation of the Committee on Accreditation of Educational Programs for the Emergency Medical Services Professions (CoAEMSP).

Commission on Accreditation of Allied Health Education Programs

25400 U.S. Hwy 19 North Suite 158 Clearwater, FL 33763

727-210-2350

www.caahep.org

To contact CoAEMSP:

Committee on Accreditation of Educational Programs for Emergency Medical Services Professions

8301 Lakeview Parkway Suite 111-312

Rowlett, TX 75088

214-703-4884

214-703-8992 (fax)

www.coaemsp.org

Program Length

EMT: 1 Semester consisting of EMS-1163 (EMT I) and EMS-1174 (EMT II).

Paramedic: Technical Certificate – Three (3) Semesters beyond EMT II.

Associate of Applied Science – Four (4) Semesters beyond EMT II.

These estimates do not include remedial course work or the necessary completion of BIO – 2514 (Anatomy and Physiology I) and BIO – 2524 (Anatomy and Physiology II).

Admission Requirements

The paramedic program selects students by fair, objective criteria. It is open to all interested individuals satisfying the entrance requirements defined below.

EMT

- 18 years of age or older
- Admission to Jones Junior College
- Enhanced Composite ACT score of 16 or above
- High School Diploma or GED
- Up-to-date immunizations
- Hepatitis-B inoculations
- Physical Examination stating that the student is medically capable of the paramedic job demands: physical and emotional
- Negative or acceptable, as determined by clinical facilities, FBI background check.

AEMT/Paramedic

All EMT admission requirements plus:

- Current NREMT certification
- Current state of MS EMT certification (Or Eligibility)
- Health-care Provider CPR certification
- Successful completion of Anatomy and Physiology I prior to entering the paramedic course.

**Students who lack entry level skills in Math, English and Science are required to take developmental courses to gain entrance into the college level courses*

Program Reentry

Students who withdrew from a previous paramedic class are allowed to reapply for admission to the program. Unless otherwise requested, and applicable under the advanced placement procedures, the student will begin the program with the next incoming class, complete all coursework and follow all guidelines and procedures applicable to the other students in the class.

Advanced Placement

The department recognizes some students may be eligible for, or require, consideration for advanced placement into the program. Circumstances for consideration of advanced placement include, but are not limited to, previously completed coursework which is not eligible for repeated financial aid due to a grade of “A” or the completion of a substantial portion of a CAHEEP accredited paramedic curriculum (See Institutional Transfer Credit) either at JCJC or another program. Consideration of advanced placement requests are contingent upon the following:

- It has been less than two calendar years since the student was enrolled, and attended, **AEMT**/paramedic courses.
- There is a compatible curriculum crosswalk for determining equivalence of the received training.
- The student can demonstrate didactic, psychomotor and affective competency in all required areas up to the proposed point of reentry.
- The student must begin according to the procedures under “Reentry Points”.

If the student requests but is not granted advanced placement status in the program, they remain eligible to enter with the new class from the beginning of the curriculum course sequence.

Advanced placement and reentry will be determined by the appropriate procedures outlined in the EMT/Paramedic handbook.

Institutional Transfer Credit

Any student wishing to transfer course credits for previously completed EMS courses from an outside accredited institution must follow the Jones County Junior College student transfer procedure. In addition, if the courses being transferred do not match the current state and program curriculum, or if the courses are from an out-of-state institution, the student must provide the JCJC EMS department with the curriculum and/ or objectives in which the courses were completed. After performing a gap analysis and objective comparison of the curriculum in question, a decision will be made by the JCJC EMS department and school registrar concerning the acceptance of the courses as credit into the current paramedic program. These students will also be subject to the above listed reentry procedures.

Experiential Learning Credit

Jones County Junior College Emergency Technology Department does not accept credit earned through an experiential learning for any EMS related courses.

Contact

If more information is desired, contact the EMT/Paramedic faculty at (601) 477-4074 or emtparamedic@jcc.edu.

EMERGENCY MEDICAL TECHNOLOGY: Technical Certificate Track

Freshman Year

First Semester (Fall)	Credit Hours
SSP 1002 Smart Start Pathway.....	2
EMS 1163 EMT I.....	3
EMS 1174 EMT II.....	4
BIO 2514 Anatomy and Physiology I.....	4
Total Hours.....	13

Second Semester (Summer)	Credit Hours
BIO 2524 Anatomy and Physiology II.....	4
Total Hours.....	4

Sophomore Year

Third Semester (Fall)	Credit Hours
EMS 1142 Foundations of Paramedicine.....	2
EMS 1151 Foundations of Paramedicine Lab.....	1
EMS 1242 Concepts of Airway and Respiratory Medicine.....	2
EMS 1251 Concepts of Airway and Respiratory Medicine Lab.....	1
EMS 1342 Concepts of Cardiovascular Medicine.....	2
EMS 1352 Concepts of Cardiovascular Medicine Lab.....	2
EMS 1514 Practicum I.....	4
Total Hours.....	14

Fourth Semester (Spring)	Credit Hours
EMS 1742 Concepts of Neurological Medicine	2
EMS 1751 Concepts of Neurological Medicine Lab.....	1
EMS 1942 Concepts of Reproductive Medicine	2
EMS 1951 Concepts of Reproductive Medicine Lab	1
EMS 2342 Medical Emergencies of the Secondary Assessment.....	2
EMS 2351 Medical Emergencies of the Secondary Assessment Lab	1
EMS 2743 Concepts of Traumatic Medicine	3
EMS 2752 Concepts of Traumatic Medicine Lab	2
EMS 1524 Practicum II.....	4
EMS 1912 Concepts of Advanced EMT	2
Total Hours.....	20

Fifth Semester (Summer)	Credit Hours
EMS 2912 Concepts of EMS Operations	2
EMS 2565 Practicum III	5
EMS 2942 Paramedic Capstone	2
EMS 2952 Paramedic Capstone Lab	2
Total Hours.....	11

EMERGENCY MEDICAL TECHNOLOGY: ASSOCIATE OF Associate in Applied Science Option

Freshman Year

First Semester (Fall)	Credit Hours
SSP 1002 Smart Start Pathway.....	2
EMS 1163 EMT I.....	3
EMS 1174 EMT II.....	4
BIO 2514 Anatomy and Physiology I	4
ENG 1113 English Composition I.....	3
Total Hours.....	16

Second Semester (Spring)	Credit Hours
BIO 2524 Anatomy and Physiology II	4
ENG 1123 English Composition II	3
MAT 1113 College Algebra.....	3
Social Science Elective	3
Total Hours.....	13

Third Semester (Fall)	Credit Hours
EMS 1142 Foundations of Paramedicine	2
EMS 1151 Foundations of Paramedicine Lab	1
EMS 1242 Concepts of Airway and Respiratory Medicine.....	2
EMS 1251 Concepts of Airway and Respiratory Medicine Lab	1
EMS 1342 Concepts of Cardiovascular Medicine.....	2
EMS 1352 Concepts of Cardiovascular Medicine Lab	2
EMS 1514 Practicum I	4
Total Hours.....	14

Fourth Semester (Spring)	Credit Hours
EMS 1742 Concepts of Neurological Medicine	2
EMS 1751 Concepts of Neurological Medicine Lab.....	1
EMS 1942 Concepts of Reproductive Medicine	2
EMS 1951 Concepts of Reproductive Medicine Lab	1
EMS 2342 Medical Emergencies of the Secondary Assessment.....	2
EMS 2351 Medical Emergencies of the Secondary Assessment Lab	1
EMS 2743 Concepts of Traumatic Medicine	3
EMS 2752 Concepts of Traumatic Medicine Lab	2
EMS 1524 Practicum II.....	4

EMS 1912 Concepts of Advanced EMT	2
Total Hours.....	20

Fifth Semester (Summer)	Credit Hours
EMS 2912 Concepts of EMS Operations	2
EMS 2565 Practicum III.....	5
EMS 2942 Paramedic Capstone	2
EMS 2952 Paramedic Capstone Lab	2
SPT 1113 Speech.....	3
Total Hours.....	14

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EMERGENCY MEDICAL TECHNOLOGY

EMS 1163 – Emergency Medical Technician I – Pre-Requisites: Composite ACT of 16 or higher, 18 years of age or older and selection by the interview committee. An introductory course in the foundational concepts of the Emergency Medical Services. Lecture will include topics in the history of EMS, well-being of the EMT, medical-legal issues, communication, documentation, A&P, Pathophysiology, life-span development, patient assessment, and vital signs. Laboratory experience will include training in patient assessment and vital signs. (2 Hour Lectures, 2 Hours Lab)

EMS 1174 – Emergency Medical Technician II – Pre-Requisites: Successful completion of EMS – 1163 with a B or higher. A continuation of the content in EMS 1163 focusing on the incorporation of foundational concepts toward the recognition, stabilization, and transport of patients of all age ranges experiencing medical and traumatic emergencies. Ambulance operations and special considerations will also be discussed. (2 Hours Lecture, 2 Hours Lab, 3 Hours Clinical)

EMS 1142 – Foundations of Paramedicine – Pre-Requisites: Current NREMT and State of MS EMT certifications, Current AHA BLS card and acceptance per the program admissions procedures. This course includes a comprehensive review of the knowledge base and skill set of the Emergency Medical Technician. History of EMS, Well-Being of the EMT, medical legal issues, communication and documentation will be expanded to the role of the paramedic. This course includes the theory related to intravenous/intraosseous access, medication administration, patient assessment, and introductory pharmacological calculations. (2 Hours Lecture)

EMS 1151 – Foundations of Paramedicine Lab – Co-Requisite: EMS – 1142. A laboratory experience designed to give psychomotor experience to the theoretical concepts developed in the lecture. (2 Hours Lab)

EMS 1242 – Concepts of Airway and Respiratory Medicine – Pre-Requisites: Current NREMT and State of MS EMT certifications, Current AHA BLS card and acceptance per the program admissions procedures. This course integrates complex knowledge of anatomy, physiology, and pathophysiology into the assessment to develop and implement a treatment plan with the goal of assuring a patient airway, adequate mechanical ventilation, and respiration for patients of all ages. (2 Hours Lecture)

EMS 1251 – Concepts of Airway and Respiratory Medicine Lab – Co-Requisite: EMS – 1242. This course in co-requisite with the lecture portion will integrate comprehensive knowledge of anatomy, physiology, and pathophysiology into the assessment to develop and implement a treatment plan with the goal of ensuring a patent airway, adequate mechanical ventilation, and respirations for patients of all ages. (2 Hours Lab)

EMS 1342 – Concepts of Cardiovascular Medicine – Pre-Requisites: Current NREMT and State of MS EMT certifications, Current AHA BLS card and acceptance per the program admissions procedures. This course consists of the theory, anatomy, physiology, pathophysiology and treatments associated with the conditions of the cardiovascular system. This includes the theory of introductory, advanced, and multi-lead electrocardiogram interpretation. Changes in the lifespan will also be included. (2 Hours Lecture)

EMS 1352 – Concepts of Cardiovascular Medicine Lab – Co-Requisite: EMS – 1343. A laboratory experience designed to give psychomotor experience to the theoretical concepts developed in the lecture. (4 Hours Lab)

EMS 1514 – Practicum I – Pre-Requisites: Current NREMT and State of MS EMT certifications, Current AHA BLS card and acceptance per the program admissions procedures. Using supervised rotations in a definitive care setting, the students will apply the concepts developed in the didactic and laboratory courses to live patients. This will include, but not be limited to rotations in the emergency department, ICU, OR, respiratory therapy, and pediatrics. (12 Hours Clinical)

EMS 1912 – Concepts of Advanced EMT – This course is required to apply for certification as an Advanced Emergency Medical Technician (AEMT). This course introduces the theory and application of concepts related to the profession of the AEMT. The primary focus of the AEMT is to provide basic and limited advanced emergency medical care and transportation for critical and emergent patients across the lifespan who access the emergency medical system. This individual possesses the basic knowledge and skills necessary to provide patient care

and transportation. Topics include: extending the knowledge of the EMT to a more complex breadth and depth, intravenous access and fluid therapy, medication administration, blind insertion airway devices, as well as the advanced assessment and management of various medical illnesses and traumatic injuries. This course is based on the NHTSA National Emergency Medical Services Education Standards. Requires licensure or eligibility for licensure at the EMT level and the EMS course sequence listed before eligibility to test NREMT AEMT exam is granted. (1 Hour Lecture and 3 Hours Lab)

- EMS 1742** – Concepts of Neurological Medicine – Pre-Requisites: Successful completion of EMS – 1142, 1151, 1242, 1251, 1343 & 1352 with a B or higher. This course consists of the theory, anatomy, physiology, pathophysiology, and treatments associated with conditions of the nervous system. This includes conditions related to structure and those associated with organic and nonorganic brain disease. Changes in the lifespan will be included. (2 Hours Lecture)
- EMS 1751** – Concepts of Neurological Medicine Lab – Co-Requisite: EMS – 1742. A laboratory experience designed to give psychomotor experience to the theoretical concepts developed in the lecture. (2 Hours Lab)
- EMS 1942** – Concepts of Reproductive Medicine – Pre-Requisites: Successful completion of EMS – 1142, 1151, 1242, 1251, 1343 & 1352 with a B or higher. This course consists of the theory, anatomy, physiology, pathophysiology, and treatments associated with conditions of the reproductive system. The course includes care of the newborn as part of the concepts in reproductive medicine. Changes in the lifespan will be included. (2 Hours Lecture)
- EMS 1951** – Concepts of Reproductive Medicine Lab – Co-Requisite: EMS – 1942. A laboratory experience designed to give psychomotor experience to the theoretical concepts developed in the lecture. (2 Hours Lab)
- EMS 2342** – Medical Emergencies of the Secondary Assessment – Pre-Requisites: Successful completion of EMS – 1142, 1151, 1242, 1251, 1342 & 1352 with a B or higher. This course will integrate patient assessment and assessment findings with principles of epidemiology and pathophysiology across the lifespan. At the conclusion of this course, the student will be able to formulate a field impression and implement a comprehensive treatment/disposition plan for a patient with a medical complaint. (2 Hours Lecture)
- EMS 2351** – Medical Emergencies of the Secondary Assessment Lab – Co-Requisite: EMS – 2343. This course will integrate patient assessment and assessment findings with principles of epidemiology and pathophysiology across the lifespan. At the conclusion of this course, the student will be able to perform a secondary assessment in order to formulate a field impression and implement a comprehensive treatment/disposition plan for a patient with a medical complaint. (2 Hours Lab)
- EMS 2743** – Concepts of Traumatic Medicine – Pre-Requisites: Successful completion of EMS – 1142, 1151, 1242, 1251, 1343 & 1352 with a B or higher. This course will develop the basis for the pathophysiology, identification, and treatment of traumatic emergencies including coverage of concepts related to trauma systems and shock management. These concepts will be examined in patients across the life span. (3 Hours Lecture)
- EMS 2752** – Concepts of Traumatic Medicine Lab – Co-Requisite: EMS – 2743. A laboratory experience designed to give psychomotor experience to the theoretical concepts developed in the lecture. (4 Hours Lab)
- EMS 1524** – Practicum II – Pre-Requisite: Successful completion of EMS – 1514 with a B or higher. A continuation of EMS – 1514. Using supervised rotations in a definitive care setting, the students will continue to develop assessment and treatment skills. The student will transition to field experience upon achieving competencies in the definitive care setting. (12 Hours Clinical/Field Experience)
- EMS 2912** – Concepts of EMS Operations – Pre-Requisite: Current NREMT and State of MS EMT certifications, Current AHA BLS card and acceptance per the program admissions procedures. Knowledge of operational roles and responsibilities to ensure safe patient, public, and personnel safety. (2 Hours Lecture)
- EMS 2565** – Practicum III – Pre-Requisite: Successful completion of EMS – 1525 with a B or higher. Co-Requisite: EMS – 2942 & 2952. Under the supervision of an approved program preceptor, the student will continue to apply the concepts developed in the didactic, laboratory, and clinical settings to the care of patients in the environment of EMS. (15 Hours Field Experience)
- EMS 2942** – Paramedic Capstone – Pre-Requisite: Successful completion of EMS – 1742, 1751, 1942, 1951, 2343, 2351, 2743, 2752, 2912 & 1525 with a B or higher. This course serves as a capstone experience course at the end of the Paramedic Program. This course will include the following topics: special needs patient populations, EMS research, principles of public health, integration of leadership, and emerging roles in EMS. (2 Hours Lecture)
- EMS 2952** – Paramedic Capstone Lab – Co-Requisite: EMS – 2942. This course will provide the student with a final opportunity to incorporate their cognitive knowledge and psychomotor skills through cumulative practical skill evaluations and a comprehensive Final Examination. (4 Hours Lab)