Emergency Medical Services

Department Information

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<tr>
<th>Department of Emergency Medical Services Education Administrative Staff</th>
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<tbody>
<tr>
<td>Chair</td>
<td>Charles Erwin</td>
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<td>Program Directors</td>
<td>Brooks, Powell, AGEMSS: D. Garmon</td>
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<td>Medical Director</td>
<td>Steve Bowden, M.D.</td>
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<td>Professor</td>
<td>Frazer</td>
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<td>Instructors</td>
<td>Brooks, Elzie, Erwin, Garmon, McDonald, Powell</td>
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<td>Academic Advisors</td>
<td>Brooks,</td>
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<td>Part-time Instructors</td>
<td>Payne</td>
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<tr>
<td>Clinical Faculty</td>
<td>McKenna</td>
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<td>CME Coordinator</td>
<td>Barnett</td>
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Department of Emergency Medical Services Education website https://www.southalabama.edu/colleges/alliedhealth/ems/index.html

The Department of EMS Education prepares students for careers in Emergency Medical Services. To meet the expanding role of prehospital providers, the Department of EMS Education offers three certificate programs, EMT, AEMT and Paramedic, as well as a Bachelor of Science in Emergency Medical Services.

Areas Of Study

Advanced EMT (AEMT) Certificate Program
EMT Certification Program
Emergency Medical Services (BS)
Paramedic Certificate Program
Professional Health Sciences - Healthcare Management (BS)

Courses

Emergency Medical Services (EMS)

EMS 100 Cardiopulmonary Resuscitation 1 cr
Cardiopulmonary Resuscitation (CPR) emphasizes the scope and magnitude of cardiovascular disease causes of sudden death, and the effects of prudent heart living as a tool to reduce risk factors associated with cardiovascular disease. The skills component identifies and measures competence in one-person CPR, two person adult CPR, infant and child CPR, and management of airway obstruction. Course completion cards are issued by the American Heart Association.
EMS 104  First Aid/CPR  1 cr
This American Heart Association course includes the basics of First Aid and Cardiopulmonary Resuscitation (CPR) for Adults, Children and Infants. Course content includes instruction on recognition and management of medical and trauma emergencies including environmental emergencies. The skills component includes competence in one-person adult, infant and child CPR, and management of airway obstruction as well as skills associated with trauma and medical emergencies. Course completion cards are issued by the American Heart Association.

EMS 110  Emergency Medical Responder  3 cr
A skills approach in helping the student to intervene in any medical or traumatic emergency situation before emergency personnel arrive. Emphasis is placed on care of the airway, CPR, control of bleeding, splinting and bandaging, and overall management. Clinical rotations include emergency department and ambulance. American Heart Association Healthcare Provider CPR certification will be awarded. Successful completion of this course permits the student to sit for the National Registry exam for Emergency Medical Responder. Upon successful completion of the National Registry exam the student may apply for a license with the Alabama Department of Public Health as an Emergency Medical Responder.

EMS 112  EMT Emergency Care  6 cr
Includes all required modules of the 2009 National EMS Educational Standard Curriculum. Topics include pathophysiology, patient assessment, airway management, hemorrhage control, management of fractures, care of individuals with special needs, emergency childbirth, care of infants and children, medical emergencies, environmental emergencies, transportation of the sick and injured, operations and radio communications. Prerequisite: AHA BLS for Health Care Providers.
Co-requisite: EMS 113, EMS 115

EMS 113  EMT Skills Lab  1 cr
Emergency Medical Technician Skills practicum. Designed to allow EMT students extensive practice of required psychomotor skills.
Co-requisite: EMS 112, EMS 115

EMS 115  EMT Clinical Internship  1 cr
Pre-hospital care and transportation of the sick and injured using principles of basic life support, correlated with emergency department experience. Time distributed between emergency department and ambulance.
Co-requisite: EMS 112, EMS 113

EMS 140  Advanced EMT  6 cr
This course includes theoretical concepts and competencies outlined in the National EMS Education Standards for Advanced EMT’s. Major topical areas include EMS operations, airway management, assessment and management of the medical and trauma patient, pharmacology for the A-EMT, public health and life span development, among others.
Co-requisite: EMS 141, EMS 143
Pre-requisite: EMS 112 Minimum Grade of B and EMS 113 Minimum Grade of S and EMS 115 Minimum Grade of S and EMS 210 Minimum Grade of B. EMS 210 can be taken concurrently with this course.

EMS 141  Advanced EMT Skills Lab  1 cr
This course is designed to integrate previously learned theory on advanced pre-hospital assessment, treatment and documentation of the medical and traumatic emergency patient. The course includes psychomotor skills and competencies outlined in the DOT’s National EMS Education Standards for Advanced EMTs.
Pre-requisite: (EMS 210 Minimum Grade of B or EMT 210 Minimum Grade of B) and (EMS 200 Minimum Grade of B or EMT 310 Minimum Grade of B) and (EMS 140 Minimum Grade of B or EMT 321 Minimum Grade of B) and (EMS 143 Minimum Grade of S or EMT 371 Minimum Grade of S). EMS 210 and EMS 200 and EMS 140 and EMS 143 and EMT 371 can be taken concurrently with this course.

EMS 143  Advanced EMT Internship  2 cr
Supervised clinical and field experiences emphasizing patient care in the hospital and out-of-hospital environments. Time distributed between hospital emergency departments, fire rescue departments, and ambulance services, among others.
Pre-requisite: (EMS 210 Minimum Grade of B or EMT 210 Minimum Grade of B) and (EMS 200 Minimum Grade of B or EMT 310 Minimum Grade of B) and (EMS 140 Minimum Grade of B or EMT 321 Minimum Grade of B) and (EMS 143 Minimum Grade of S or EMT 361 Minimum Grade of S). EMS 210 and EMS 200 and EMS 140 and EMS 143 and EMT 371 can be taken concurrently with this course.

EMS 200  Human Systems/Pathophysiology  3 cr
An overview of the human body systems and disease processes. Emphasis is placed on the functions of human systems and subsystems relative to pathophysiology. Includes concepts of pathophysiology included in the National Standard Curriculum for the Paramedic and the requirements set forth by the Alabama Department of Public Health.

EMS 210  Medical Terminology  3 cr
Medical vocabulary including prefixes, suffixes and their etymological derivation. Proper pronunciation stressed as well as logic, grammar, and spelling. Course includes an overview of human anatomy and physiology.
EMS 212  Paramedic Foundations  3 cr
This course introduces issues related to the practice of pre-hospital advanced life support as a career, with a focus on issues common to all health care professions. Content areas include: paramedic roles and responsibilities, well-being of the paramedic, illness and injury prevention, medical-legal-ethical issues, therapeutic communication, pharmacology and advance airway management. Upon course completion, student will have met the objectives as outlined in the National Standard Curriculum for the Paramedic.
Pre-requisite: (EMS 210 Minimum Grade of B or EMT 210 Minimum Grade of B) and (EMS 140 Minimum Grade of B or EMT 321 Minimum Grade of B) and (EMS 141 Minimum Grade of S or EMT 361 Minimum Grade of S) and (EMS 143 Minimum Grade of S or EMT 371 Minimum Grade of S) and (EMS 214 Minimum Grade of B or EMT 340 Minimum Grade of B) or (EMS 200 Minimum Grade of B or EMT 310 Minimum Grade of B)

EMS 214  Introduction to EMS Cardiology  3 cr
Rhythm interpretation in Lead II EKG. Rapid recognition, defibrillation and/or therapeutic management of potentially lethal rhythms and myocardial infarction. Objectives include twelve lead placement and basic rhythm recognition.
Pre-requisite: (EMS 210 Minimum Grade of B or EMT 210 Minimum Grade of B) and (EMS 140 Minimum Grade of B or EMT 321 Minimum Grade of B) and (EMS 141 Minimum Grade of S or EMT 361 Minimum Grade of S) and (EMS 143 Minimum Grade of S or EMT 371 Minimum Grade of S) and (EMS 214 Minimum Grade of B or EMT 340 Minimum Grade of B) or (EMS 200 Minimum Grade of B or EMT 310 Minimum Grade of B) and (EMS 217 Minimum Grade of S or EMT 465 Minimum Grade of S). EMS 214 and EMS 216 and EMS 217 can be taken concurrently with this course.

EMS 216  Patient Assess/Mgt & EMS Oper  3 cr
Includes history taking, physical examination, clinical decision making, communications, documentation, assessment-based management of medical and trauma patients, ambulance operations, incident command rescue, Hazmat and crime scene awareness.
Pre-requisite: (EMS 210 Minimum Grade of B or EMT 210 Minimum Grade of B) and (EMS 140 Minimum Grade of B or EMT 321 Minimum Grade of B) and (EMS 141 Minimum Grade of S or EMT 361 Minimum Grade of S) and (EMS 143 Minimum Grade of S or EMT 371 Minimum Grade of S) and (EMS 200 Minimum Grade of B or EMT 310 Minimum Grade of B) or (EMS 214 Minimum Grade of B or EMT 340 Minimum Grade of B)

EMS 217  Paramedic Clinical I  3 cr
Supervised clinical experiences emphasizing patient care in the hospital and outpatient clinical settings as outlined in the National Standard Curriculum for the Paramedic.
Pre-requisite: (EMS 210 Minimum Grade of B or EMT 210 Minimum Grade of B) and (EMS 140 Minimum Grade of B or EMT 321 Minimum Grade of B) and (EMS 141 Minimum Grade of S or EMT 361 Minimum Grade of S) and (EMS 143 Minimum Grade of S or EMT 371 Minimum Grade of S) and (EMS 200 Minimum Grade of B or EMT 310 Minimum Grade of B) or (EMS 214 Minimum Grade of B or EMT 340 Minimum Grade of B) and (EMS 217 Minimum Grade of S or EMT 465 Minimum Grade of S). EMS 212 and EMS 214 and EMS 216 can be taken concurrently with this course.
EMS 240  EMS Resp. Special Populations  3 cr
This course relates pathophysiology and assessment findings to the formation of field impressions and treatment plans specific to special populations. Subject matter will include gynecology, obstetrics, abuse and assault, neonatology, pediatrics, special needs and the geriatric community. Upon course completion, students will have met the objectives for special populations as outlined in the National Standard Curriculum for the Paramedic.
Pre-requisite: EMS 212 Minimum Grade of B and (EMS 214 Minimum Grade of B or EMT 340 Minimum Grade of B) and (EMS 216 Minimum Grade of B or EMT 350 Minimum Grade of B) and (EMS 217 Minimum Grade of S or EMT 465 Minimum Grade of S) and (EMS 242 Minimum Grade of B or EMT 355 Minimum Grade of B) and (EMS 244 Minimum Grade of B or EMT 425 Minimum Grade of B) and (EMS 245 Minimum Grade of S or EMT 455 Minimum Grade of S) and (EMS 247 Minimum Grade of S or EMT 466 Minimum Grade of S). EMS 240, EMS 242 and EMS 244 can be taken concurrently with this course.

EMS 242  Paramedic Emergency Care I  3 cr
Includes pathophysiology, assessment and management of patients suffering from pulmonary and cardiovascular diseases. Additional modules may be added in accordance to standards and guidelines in the National Standard Curriculum for the Paramedic and the American Heart Association. Student will receive an ACLS provider certification upon successful completion.
Pre-requisite: EMS 212 Minimum Grade of B and (EMS 214 Minimum Grade of B or EMT 340 Minimum Grade of B) and (EMS 216 Minimum Grade of B or EMT 350 Minimum Grade of B) and (EMS 217 Minimum Grade of S or EMT 465 Minimum Grade of S) and (EMS 242 Minimum Grade of B or EMT 355 Minimum Grade of B) and (EMS 244 Minimum Grade of B or EMT 425 Minimum Grade of B) and (EMS 245 Minimum Grade of S or EMT 455 Minimum Grade of S) and (EMS 247 Minimum Grade of S or EMT 466 Minimum Grade of S). EMS 240 and EMS 242 and EMS 244 and EMS 247 can be taken concurrently with this course.

EMS 244  Paramedic Emergency Care II  3 cr
Includes pathophysiology, assessment and management of patients suffering from medical emergencies not included in EMS 240 and EMS 242 in accordance to the National Standard Curriculum for the Paramedic.
Pre-requisite: EMS 212 Minimum Grade of B and (EMS 214 Minimum Grade of B or EMT 340 Minimum Grade of B) and (EMS 216 Minimum Grade of B or EMT 350 Minimum Grade of B) and (EMS 217 Minimum Grade of S or EMT 465 Minimum Grade of S) and (EMS 240 Minimum Grade of B or EMT 375 Minimum Grade of B) and (EMS 242 Minimum Grade of B or EMT 355 Minimum Grade of B) and (EMS 244 Minimum Grade of B or EMT 355 Minimum Grade of B) and (EMS 245 Minimum Grade of S or EMT 455 Minimum Grade of S) and (EMS 247 Minimum Grade of S or EMT 466 Minimum Grade of S). EMS 240 and EMS 242 and EMS 244 and EMS 247 can be taken concurrently with this course.

EMS 245  Paramedic Skills Lab  1 cr
Advanced out-of-hospital practicum. Designed to integrate all previously learned theory, management concepts and behavioral objectives as outlined in the National Standard Curriculum for the Paramedic.
Pre-requisite: EMS 212 Minimum Grade of B and (EMS 214 Minimum Grade of B or EMT 340 Minimum Grade of B) and (EMS 216 Minimum Grade of B or EMT 350 Minimum Grade of B) and (EMS 217 Minimum Grade of S or EMT 465 Minimum Grade of S) and (EMS 240 Minimum Grade of B or EMT 375 Minimum Grade of B) and (EMS 242 Minimum Grade of B or EMT 355 Minimum Grade of B) and (EMS 244 Minimum Grade of B or EMT 425 Minimum Grade of B). EMS 240 and EMS 242 and EMS 244 can be taken concurrently with this course.

EMS 247  Paramedic Clinical II  2 cr
Supervised clinical experiences emphasizing patient care in the hospital and outpatient clinical settings as outlined in the National Standard Curriculum for the Paramedic.
Pre-requisite: EMS 212 Minimum Grade of B and (EMS 214 Minimum Grade of B or EMT 340 Minimum Grade of B) and (EMS 216 Minimum Grade of B or EMT 350 Minimum Grade of B) and (EMS 217 Minimum Grade of S or EMT 465 Minimum Grade of S) and (EMS 240 Minimum Grade of B or EMT 375 Minimum Grade of B) and (EMS 242 Minimum Grade of B or EMT 355 Minimum Grade of B) and (EMS 244 Minimum Grade of B or EMT 425 Minimum Grade of B) and (EMS 245 Minimum Grade of S or EMT 455 Minimum Grade of S). EMS 240 and EMS 242 and EMS 244 and EMS 245 can be taken concurrently with this course.

EMS 270  PALS  3 cr
Course based on American Heart Association’s Emergency Cardiovascular Care program. Includes assessment and management of pediatric cardiovascular and respiratory emergencies. Upon successful completion, the student will receive PALS provider certification. Recommended for health care providers and health care provider students.

EMS 280  Advanced Cardiac Life Support  3 cr
Course based on American Heart Association’s Emergency Cardiovascular Care program. Includes in-depth review of all cases required for a full ACLS course. Recommended for health care providers and health care provider students. Upon successful completion, the student will receive ACLS certification.
EMS 295  Paramedic Field Internship  6 cr
Supervised field experiences with an out-of-hospital advanced life support service emphasizing patient care and team leadership skills as outlined in the National Standard Curriculum for the Paramedic. Pre-requisite: (EMS 240 Minimum Grade of B or EMT 375 Minimum Grade of B) and (EMS 242 Minimum Grade of B or EMT 355 Minimum Grade of B) and (EMS 244 Minimum Grade of B or EMT 425 Minimum Grade of B) and (EMS 245 Minimum Grade of S or EMT 455 Minimum Grade of S) and (EMS 247 Minimum Grade of S or EMT 466 Minimum Grade of S) and (EMS 297 Minimum Grade of S or EMT 495 Minimum Grade of S). EMS 295 can be taken concurrently with this course.

EMS 296  Special Topics in EMS  1 TO 3 cr
Selected topics in Emergency Medical Services and Emergency Response Training. Topics will vary according to needs and interest of students. Course may be repeated for credit when content varies.

EMS 297  Paramedic Comp Review/Exams  1 cr
Culmination of paramedic education. Includes practical skills lab designed to prepare the student for state licensure exams. A final practical and written exam will be administered as a final evaluation of student progress. Pre-requisite: (EMS 240 Minimum Grade of B or EMT 375 Minimum Grade of B) and (EMS 242 Minimum Grade of B or EMT 355 Minimum Grade of B) and (EMS 244 Minimum Grade of B or EMT 425 Minimum Grade of B) and (EMS 245 Minimum Grade of B or EMT 425 Minimum Grade of B) and (EMS 247 Minimum Grade of S or EMT 455 Minimum Grade of S) and (EMS 247 Minimum Grade of S or EMT 466 Minimum Grade of S) and (EMS 295 Minimum Grade of S or EMT 475 Minimum Grade of S). EMS 295 can be taken concurrently with this course.

EMS 298  Directed Studies in EMS  1 TO 3 cr
Selected topics in Emergency Medical Services and Emergency Response Training. Topics will vary according to needs and interest of students. Course may be repeated for credit when content varies.

EMS 310  Intro to EMS Systems  3 cr
This course provides students with an introduction to Emergency Medical Services (EMS) Systems. Theoretical concepts and issues will be discussed and examined in order to provide students with a conceptual basis for understanding and analyzing EMS systems and organizations. Particular emphasis will be placed on system components, system integration and the roles and responsibilities of management and leadership in EMS organizations.

EMS 315  EMS Administration  3 cr
This course provides a general overview of management and administration functions required of EMS managers today including planning, directing, budgeting, staffing and evaluation. Particular emphasis will be placed on issues relating to human resources, EMS operations, and organizational planning.

EMS 320  EMS Law and Legal Issues-W  3 cr
This course will provide a general overview of the origins of law in the United States with particular emphasis on health laws and regulations affecting pre-hospital providers. Topics include issues relating to malpractice, litigation, consent and refusal of medical treatment, advanced directives, patient confidentiality, and expert witness preparation, among others.

EMS 325  Instructional Methods in EMS  3 cr
This course presents theoretical and practical foundations necessary for entry level EMS instructors and coordinators. Topics include instructor roles and responsibilities, learning theory, lesson plan development, test writing and validation, and program evaluation. Additional emphasis will be placed on instructional techniques for the adult learner.

EMS 340  Disaster Mgt & Event Planning  3 cr
Considerations of the theoretical and practical foundations necessary to manage incidents involving multiple casualties and multiple agencies as well as the planning and management of other large scale events. Topics include disaster planning, incident command, WMD, response issues, and scene control, among others.

EMS 350  Critical Care Paramedic  3 cr
This course provides paramedics with advanced skills and knowledge in critical care medicine. Students successfully completing this course and its subsequent internship (EMS 357) will be eligible to sit for national certification as a Critical Care Paramedic.

EMS 375  Crit Care Paramedic Internship  3 cr
An advanced clinical internship course for licensed paramedics who have successfully completed EMS 350. Internship is conducted in an approved critical care setting. Experience is designed for the paramedic to sit for national certification as a Critical Care Paramedic.

EMS 401  Seminar in HP  3 cr
This course is designed to provide students with an overview of different health professions and their scope of practice and also to provide information about health administration.

EMS 410  Concepts of Prof Paramedic  6 cr
This bridge course is designed for licensed (or nationally certified) paramedics who are admitted to the Department's Paramedic to BS in EMS Track. This course provides critical updates and information related to paramedic practice and enhances the student's overall patient assessment and critical thinking skills. Focus of the course is on selected theories and concepts integrated throughout the curriculum. Additional emphasis will be on the professional roles of paramedics. Prerequisite: Paramedic to BSEMS Track.
EMS 440  Health Insurance/Managed Care  3 cr
This course provides an overview of the basic concepts and principles in the health insurance and managed care environments. Particular emphasis will be placed on issues relating to the costs, quality and access to emergency medical services. Topics include Medicare and Medicaid reimbursement, Managed Care contracting and EMS Quality Management, among others.

EMS 445  EMS Research - W  3 cr
An introduction to basic research methods and basic statistical procedures used in Emergency Medical Services research. Students will use this information in order to assist them with reading, interpreting and evaluating articles in the pre-hospital healthcare literature.

EMS 460  Issues and Trends in EMS  3 cr
Explores issues and trends at the federal, state and local levels facing EMS leaders and EMS organizations. Particular emphasis is on new and proposed programs, policies and practices which affect pre-hospital healthcare providers.

EMS 475  EMS Internship  3 cr
Structured field experience providing the student to work in an EMS administration, management or educational environment; observation of leadership processes within an EMS organization; application of EMS leadership theory and techniques.

EMS 494  Directed Studies  1 TO 3 cr
Student completes an individual project in a specific EMS area under the guidance and supervision of an EMS faculty member.

EMS 495  EMS Comp/Review Exam  1 cr
The comprehensive examination is the capstone of the Emergency Medical Services degree program. A written examination based on the program objectives of the EMS degree program will be administered as a final evaluation of the student's progress.

Emergency Medical Training (EMT)

EMT 255  Hazardous Environment Management  3 cr
Theory behind management of hazardous environment emergencies with some application of theory in a practical setting. Instruction on chemical and physical nature of hazardous materials relative to control of emergency situations involving chemical spills.

EMT 315  EMS Pharmacology I  3 cr
Introduction to pharmacology for the EMS professional. Includes drug classification, dosage calculations, routes and methods of administration, and IV access.

EMT 335  Essentials of Paramedicine  3 cr
Preparatory course for ALS EMS students. Includes airway management, EMS Systems, therapeutic communications, responsibilities, injury prevention, and legal issues.

EMT 345  EMS Pharmacology II  3 cr
Advanced course with emphasis on specific drugs within classifications, drug names, actions, indications, contraindications, side effects, precautions, dosages, clinical applications and listings of prescriptions and over-the-counter medications.

EMT 365  Advanced Trauma Management  3 cr
Includes trauma systems, mechanism of injury, management of hemorrhage, shock, burns, soft tissue, head and facial, spinal, thoracic, abdominal and musculoskeletal trauma.

EMT 440  EMS Op and Sp Considerations  3 cr
Includes special circumstances regarding geriatric patient, abuse and assault, patients with special challenges, acute interventions for the chronic care patient, ambulance operations, incident command, rescue, hazmat, and crime scene awareness.

EMT 440  EMS Op and Sp Considerations  3 cr
Includes special circumstances regarding geriatric patient, abuse and assault, patients with special challenges, acute interventions for the chronic care patient, ambulance operations, incident command, rescue, hazmat, and crime scene awareness.

EMT 490  Special Topics -  1 TO 3 cr
Selected topics in Emergency Medical Services and Emergency Response Training. Topics will vary according to needs and interests of students. Course may be repeated for credit when content varies.

EMT 494  Directed Studies -  1 TO 3 cr
Directed study, under the guidance of a faculty advisor, of a topic in the fields of Emergency Medical Services or Emergency Response Training. Requires the permission of department chair.

Faculty

BROOKS, JASON L.
Instructor
ND, Coastal Alabama Comm College
BA, Judson College
MA, American Public University

ELLZIE, JOEL T.
Instructor
BSEMS, University of South Alabama
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BA, University of South Alabama
MA, American Public University
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