The University Catalog is published annually and serves as a reference for the academic year. Methodist University publishes an addendum to accommodate newly approved programs; to correct or clarify inaccuracies in the current published academic catalog; to accommodate mid-year federal/state regulatory updates/changes; update changes to university published policy; or to accommodate changes to University or program accreditation. The addendum also allows critical updates approved outside the catalog publication cycle to be published in a timely manner.

All course requirements, program requirements, federal/state regulations, University policy, or accreditation status supersedes catalog editions published prior to this addendum.

Category: Administrative Correction/Retraction

Division: Graduate

The Requirements for Graduation, Standard Process for Academic Monitoring, Academic Warning, Academic Probation, and Dismissal from Program headings and corresponding information located underneath the Master of Medical Science in Physician Assistant Studies program information were published in error. As such, academic standards and graduation requirements for the Master of Medical Science in Physician Assistant Studies will revert to those outlined and published in the 2022-2023 graduate academic catalog.

Category: Newly Approved Program **Division:** Undergraduate

EMERGENCY MEDICAL SERVICES ADVANCED PARAMEDICINE (B.S.)

*Bachelor of Science in Advanced Paramedicine (offered exclusively through MU Online)

The Advanced Paramedicine program provides an individual who has obtained an unencumbered state, national, or international paramedic credential an opportunity to earn a Bachelor of Science in Advanced Paramedicine. The program is designed to provide flexible pathways to degree completion for the working professional.

Admissions Requirements

The minimum admissions requirements for the Bachelor of Science in Advanced Paramedicine are as follows:

- Hold a Current Paramedic Credential (Non-military applicants must possess an unencumbered state, national, or international paramedic credential)
- Military applicants must possess an unencumbered state, national, or international paramedic credential, have completed the Special Operations Combat Medic (SOCM) course, and either have functioned in a military occupational specialty (MOS) that requires completion of such a course or have functioned in an approved MOS within four years of branch transfer, reclassification, or military separation.
- Submit an official high school transcript or high school equivalency and transcripts from each institution of higher education attended.

Provisional acceptance may be granted to students who can demonstrate successful completion of an initial paramedic credentialing program but who have not yet tested for their credential. Students will be expected to provide a valid and unencumbered paramedic credential during their first semester of attendance.

Students admitted to the B.S. in Advanced Paramedicine program will receive a 36-hour block of credit upon admission to the program or receipt of a paramedic credential in accordance with the program's provisional acceptance procedure. The block of awarded credit represents student completion of a nationally or state-accredited paramedic program demonstrating that the student has meet minimal competencies of an entry-level paramedic in cognitive, affective, and psychomotor learning domains.

APM 3000 Advanced Patient Assessment (2)	APM 4000 Imaging and Advanced Diagnostics (3)
APM 3040 Psychosocial Aspects of Aging in	APM 4400 Toxicology (3)
Paramedic Practice (2)	
APM 3200 Psychotraumatology in the Emergency	APM 4500 Research Methods (3)
Services Professional (2)	
APM 3300 Fluids, Electrolytes, and Acid-Base	APM 4610 Advanced Electrocardiography (2)
Physiology (3)	
APM 3500 Anesthesia, Airway, and Ventilator	APM 4700 The Evolution of Illness and Disease (3)
Operations (3)	
APM 3600 The Evolution of Injury and Burn Care	APM 4850 Emerging Trends in Paramedic Practice
(2)	(2)
APM 3770 Advanced Pharmacology (3)	HCA 3200 Just Culture (3)
APM 3910 Maternal, Fetal, and Pediatric	HCA 4300 Cultural Competence in Health Care (3)
Medicine (3)	

Required Core Courses: 42 credit hours

Total: 42 credit hours

Advanced Paramedicine Course Descriptions – APM

APM 3000 ADVANCED PATIENT ASSESSMENT (2)

This course covers advanced patient assessment techniques for holistic, in-depth history and physical exam. Topics include a review of the initial paramedic assessment, comprehensive history and physical exam by body system, and the evaluation and interpretation of clinical evidence. Upon completion, students should be able to develop a list of differential diagnoses and treatment plans using advanced clinical reasoning.

APM 3040 PSYCHOSOCIAL ASPECTS OF AGING IN PARAMEDIC PRACTICE (2)

This course provides a thorough analysis of both the physiologic and psychosocial needs of the aging patient related to the provision of emergency care. Topics include epidemiology of aging, polypharmacy, perceptions of aging, communications with the aged and caregivers, abuse and neglect, and disaster care. Upon completion, students should be able to integrate principles of eldercare in clinical practice.

APM 3200 PSYCHOTRAUMATOLOGY IN THE EMERGENCY SERVICES PROFESSIONAL (2)

This course introduces etiology, pathophysiology, and progression of the acute stress response in the emergency services professional. Emphasis is placed on primary and secondary traumatic stress disorders, moral injury, and prevention and coping mechanisms. Upon completion, students should be able to identify signs, symptoms, and risk factors for acute and chronic stress disorders as well as create a personal care plan in the event they experience a potentially traumatizing event.

APM 3300 FLUIDS, ELECTROLYTES, AND ACID-BASE PHYSIOLOGY (3)

This course introduces the learner to the physiology, pathophysiology, clinical presentation, and

treatment of various fluid, electrolyte, and acid-base derangements. Topics include fluid compartments, mediators of homeostasis, fluid disorders, a variety of electrolyte imbalances as well as respiratory, metabolic, and mixed acid-base derangements. Upon completion, students should be able to identify, discuss, and treat a variety of conditions.

APM 3500 ANESTHESIA, AIRWAY, AND VENTILATOR OPERATIONS (3)

This course is designed to prepare students to systematically manage the airway of an emergency patient. Topics include rapid sequence induction, ventilator operations, pharmacological interventions for management of the airway, and a detailed approach to respiratory pathophysiology. Upon completion, students should be able to incorporate course content into the management and care of patients suffering from respiratory disease, difficulty, or airway compromise.

APM 3600 THE EVOLUTION OF INJURY AND BURN CARE (2)

This course provides an advanced analysis of injuries and burn care. Emphasis is placed on the etiology, kinematics, and pathophysiological principles of traumatic injuries to all body systems. Upon completion, students should be able to synthesize course material to guide advanced clinical practice in patients with acute trauma.

APM 3770 ADVANCED PHARMACOLOGY (3)

This course introduces the learner to advanced principles of pharmacology and a broad range of medications. Topics include pharmacokinetics and pharmacodynamics, mechanisms of action, disease pathophysiology, and common medications that affect various body systems. Upon completion, students should be able to identify and discuss in detail a variety of medications.

APM 3910 MATERNAL, FETAL, AND PEDIATRIC MEDICINE (3)

This course is designed to systematically explore maternal, fetal, and pediatric medicine. Topics include obstetrical, neonatal, and pediatric emergencies; pharmacological therapeutics; complications of pregnancy, including pre-, ante-, and post-natal considerations; and effective communication with pediatric patients and their caregivers. Upon completion, students should be able to use the principles of anatomy, physiology, epidemiology, pathophysiology, psychosocial impact, presentations, and prognosis in the management of obstetrical, pediatric, and neonatal patients.

APM 4000 IMAGING AND ADVANCED DIAGNOSTICS (3)

This course provides an overview of the components of laboratory values as well as a primer on basic imaging. Topics include complete blood count, complete metabolic profile, cardiac biomarkers, blood gases, general chemistries, radiography, point-of-care ultrasound, and the evaluation and interpretation of normal and abnormal variants found in blood work or imaging studies. Upon completion, students should be able to develop a list of differential diagnoses and treatment plans using interpretation analytics.

APM 4400 TOXICOLOGY (3)

This course provides a compendium of knowledge on toxicological emergencies. Emphasis is placed on various toxins, toxidromes, poisons, and pathophysiological effects on the human body. Upon completion, students should be able to synthesize course material to guide advanced clinical practice in patients with a toxicological emergency or acute poisoning.

APM 4500 RESEARCH METHODS (3)

This course provides an overview of the methodology and analysis for inquiry in health sciences and is designed to prepare health science majors for assessing and conducting research. Topics include

research critique, research methodology, and statistical analysis. Upon completion, the student should be able to apply this knowledge to relevant literature and applicable research projects.

APM 4610 ADVANCED ELECTROCARDIOGRAPHY (2)

This course provides an in-depth analysis of irregularities in the electrocardiogram. Emphasis is placed on the etiology and diagnostic criteria of medical conditions causing electrocardiographic abnormalities. Upon completion, students should be able to utilize anatomical, physiological, and pathophysiological principles in the assessment, diagnosis, and management of patients with atypical electrocardiography.

APM 4700 THE EVOLUTION OF DISEASE AND ILLNESS (3)

This course is designed to systematically organize prehospital assessment, diagnostics, epidemiology, and pathophysiology to diagnose and intervene for the patient with an acute illness. Emphasis is placed on the use of decision logic in the exploration of all aspects of patient management. Upon completion, students should be able to critically evaluate and assemble pieces of information provided in the history, physical exam, and diagnostic assessment to provide exceptional patient care.

APM 4850 EMERGING TRENDS IN PARAMEDIC PRACTICE (2)

This course provides an exploration of emerging trends in paramedic practice. Emphasis is placed on innovations in clinical, operational, and administrative practice. Upon completion, students should be able to formulate an educated viewpoint and devise solutions regarding practice trends in the emergency medical services (EMS) profession.