

Program Planning Guide

Emergency Medical Science, Associate in Applied Science, Bridge Option (A45340B)

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.

The Bridge Option will allow currently credentialed Paramedics to receive 45 semester hours of credit towards the A.A.S. degree. The remaining course work to complete the A.A.S. in Emergency Medical Science requires a minimum of 24 additional semester hours of work. Students must take 25% from the required hours of the degree at Central Carolina Community College to meet the residency requirements.

*Only the bridge option is being offered at this time. Students must complete their paramedic program through an accredited continuing education program before applying for the bridge program.

See the College Catalog and program website for details regarding: Entrance Standards; Required Admissions Criteria and Requirements for Acceptance.

Program Length: 2 semesters

Career Pathway Options: Associate in Applied Science Degree in Emergency Medical Science

Program Sites: General education classes may be taken in person or online at any campus

Suggested Course Schedule:		HOURS			Grade	Semester	Notes
		Class	Lab	Credit			
1st Semester (Fall)							
ACA 122	College Transfer Success	0	2	1			
ENG 111	Writing and Inquiry	3	0	3			
ELECTIVE	Natural Sciences/Mathematics	3	3	4			
ELECTIVE	Social/Behavioral Science	3	0	3			
		9	5	11			
2nd Semester (Spring)							
ENG 112	Writing/Research in the Disciplines	3	0	3			
ELECTIVE	Biology	3/4	2/3	4/5			
ELECTIVE	Humanities/Fine Arts	3	0	3			
ELECTIVE	Natural Sciences/Mathematics	2/3	2/3	3/4			
		11/13	4/6	13/15			

Emergency Medical Service, Associate in Applied Science, Bridge Option (A4540B)

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Continuing Education Credits: 45

Bridge Credits: 24-26

Total Semester Hours Credit: 69-71

Biology: BIO 163 or BIO 169 (if the student has taken BIO 168). No course substitutions for biology.

Humanities/Fine Arts Elective Options: HUM 115 or PHI 240. (Previously completed Humanities/Fine Arts general education course may be substituted.)

Natural Sciences/Mathematics Elective Options: Student must take a combination of BIO 168 and BIO 169 or a combination of BIO 163 and MAT 110 or MAT 143. (Previously completed Mathematics general education course may be substituted for MAT 110 or MAT 143.)

Social/Behavioral Science Options: PSY 150 or SOC 210. (Previously completed Social/Behavioral general education course may be substituted.)

Course Descriptions:

ACA 122 College Transfer Success

0-2-1

This course provides information and strategies necessary to develop clear academic and professional goals beyond the community college experience. Topics include the CAA, college policies and culture, career exploration, gathering information on senior institutions, strategic planning, critical thinking, and communications skills for a successful academic transition. Upon completion, students should be able to develop an academic plan to transition successfully to senior institutions. This course has been approved for transfer under the CAA and ICAA as a premajor and/or elective course requirement.

BIO 163 Basic Anatomy and Physiology 4-2-5

This course provides a basic study of the structure and function of the human body. Topics include a basic study of the body systems as well as an introduction to homeostasis, cells, tissues, nutrition, acid-base balance, and electrolytes. Upon completion, students should be able to demonstrate a basic understanding of the fundamental principles of anatomy and physiology and their interrelationships. This course has been approved for transfer under the CAA and ICAA as a premajor and/or elective course requirement.

BIO 168 Anatomy and Physiology I 3-3-4

This course provides a comprehensive study of the anatomy and physiology of the human body. Topics include body organization, homeostasis, cytology, histology, and the integumentary, skeletal, muscular, and nervous systems and special senses. Upon completion, students should be able to demonstrate an in-depth understanding of principles of anatomy and physiology and their interrelationships. This course has been approved for transfer under the CAA and ICAA as a premajor and/or elective course requirement.

BIO 169 Anatomy and Physiology II 3-3-4

Prerequisite: BIO 168

This course provides a continuation of the comprehensive study of the anatomy and physiology of the human body. Topics include the endocrine, cardiovascular, lymphatic, respiratory, digestive, urinary, and reproductive systems as well as metabolism, nutrition, acid-base balance, and fluid and electrolyte balance. Upon completion, students should be able to demonstrate an in-depth understanding of principles of anatomy and physiology and their interrelationships. This course has been approved for transfer under the CAA and ICAA as a premajor and/or elective course requirement.

ENG 111 Writing and Inquiry 3-0-3

Prerequisites: Take one set, DRE 097, ENG 002, or BSP 4002

Corequisite: Take ENG 011

This course is designed to develop the ability to produce clear writing in a variety of genres and formats using a recursive process. Emphasis includes inquiry, analysis, effective use of rhetorical strategies, thesis development, audience awareness,

and revision. Upon completion, students should be able to produce unified, coherent, well-developed essays using standard written English. This course has been approved for transfer under the CAA and ICAA as a universal general education transfer component (UGETC) course in English Composition.

ENG 112 Writing/Research in the Disciplines

3-0-3

Prerequisite: ENG 111

This course, the second in a series of two, introduces research techniques, documentation styles, and writing strategies. Emphasis is placed on analyzing information and ideas and incorporating research findings into documented writing and research projects. Upon completion, students should be able to evaluate and synthesize information from primary and secondary sources using documentation appropriate to various disciplines. This course has been approved for transfer under the CAA and ICAA as a universal general education transfer component (UGETC) course in English Composition.

HUM 115 Critical Thinking 3-0-3

Prerequisites: Take one set, DRE 097, ENG 002, BSP 4002, or ENG 111

This course introduces the use of critical thinking skills in the context of human conflict. Emphasis is placed on evaluating information, problem solving, approaching cross-cultural perspectives, and resolving controversies and dilemmas. Upon completion, students should be able to demonstrate orally and in writing the use of critical thinking skills in the analysis of appropriate texts. This course has been approved for transfer under the CAA and ICAA as a universal general education transfer component (UGETC) course in Humanities/Fine Arts.

MAT 110 Math Measurement & Literacy 2-2-3

Prerequisites:

Take One Set:

Set 1: DMA-010, DMA-020, and DMA-030

Set 2: DMA-025

Set 3: MAT-003

Set 4: BSP-4003

Corequisite: MAT 010

This course provides an activity-based approach that develops measurement skills and mathematical literacy using technology to solve problems for non-math intensive programs. Topics include unit conversions and estimation within a variety of measurement systems; ratio and proportion; basic geometric concepts; financial literacy; and statistics including measures of central tendency, dispersion, and charting of data. Upon completion, students should be able to demonstrate the use of mathematics and technology to solve practical problems, and to analyze and communicate results.

MAT 143 Quantitative Literacy 2-2-3

Prerequisites:

Take One Set:

Set 1: DMA-010, DMA-020, DMA-030, and DRE-098

Set 2: DMA-010, DMA-020, DMA-030, and ENG-002

Set 3: DMA-010, DMA-020, DMA-030, and BSP-4002

Set 4: DMA-025, and DRE-098

Set 5: DMA-025, and ENG-002

Set 6: DMA-025, and BSP-4002

Set 7: MAT-003 and DRE-098

Set 8: MAT-003 and ENG-002

Set 9: MAT-003 and BSP-4002

Set 10: BSP-4003 and DRE-098

Set 11: BSP-4003 and ENG-002

Set 12: BSP-4003 and BSP-4002

Corequisite: MAT 043

This course is designed to engage students in complex and realistic situations involving the mathematical phenomena of quantity, change and relationship, and uncertainty through project- and activity-based assessment. Emphasis is placed on authentic contexts which will introduce the concepts of numeracy, proportional reasoning, dimensional analysis, rates of growth, personal finance, consumer statistics, practical probabilities, and mathematics for citizenship. Upon completion, students should be able to utilize quantitative information as consumers and to make personal, professional, and civic decisions by decoding, interpreting, using, and communicating quantitative information found in modern media and encountered in everyday life. This course has been approved for transfer under the CAA and ICAA as a universal general education transfer component (UGETC) course in Mathematics.

PHI 240 Introduction to Ethics 3-0-3

Prerequisite: ENG 111

This course introduces theories about the nature and foundations of moral judgments and applications to contemporary moral issues. Emphasis is placed on moral theories such as consequentialism, deontology, and virtue ethics. Upon completion, students should be able to apply various ethical theories to moral issues such as abortion, capital punishment, poverty, war, terrorism, the treatment of animals, and issues arising from new technologies. This course has been approved for transfer under the CAA and ICAA as a universal general education transfer component (UGETC) course in Humanities/Fine Arts.

PSY 150 General Psychology

3-0-3

This course provides an overview of the scientific study of human behavior. Topics include history, methodology, biopsychology, sensation, perception, learning, motivation, cognition, abnormal behavior, personality theory, social psychology, and other relevant topics. Upon completion, students should be able to demonstrate a basic knowledge of the science of psychology. This course has been approved for transfer under the CAA and ICAA as a universal general education transfer component (UGETC) course in Social/Behavioral Sciences.

SOC 210 Introduction to Sociology

3-0-3

This course introduces the scientific study of human society, culture, and social interactions. Topics include socialization, research methods, diversity and inequality, cooperation and conflict, social change, social institutions, and organizations. Upon completion, students should be able to demonstrate knowledge of sociological concepts as they apply to the interplay among individuals, groups, and societies. This course has been approved for transfer under the CAA and ICAA as a universal general education transfer component (UGETC) course in Social/Behavioral Sciences.