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| For Academic Affairs and Research Use Only | |
| CIP Code: |  |
| Degree Code: |  |

**New Course Proposal Form**

**[X] Undergraduate Curriculum Council**

**[ ] Graduate Council**

|  |
| --- |
| **[X] New Course or [ ]Experimental Course (1-time offering) (Check one box)** |

Signed paper copies of proposals submitted for consideration are no longer required. Please type approver name and enter date of approval.

Email completed proposals to [curriculum@astate.edu](mailto:curriculum@astate.edu) for inclusion in curriculum committee agenda.

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| --- | --- |
| Shawn Bayouth 10/21/2019 **Department Curriculum Committee Chair** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…  **COPE Chair (if applicable)** |
| Shawn Bayouth 10/21/2019 **Department Chair:** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…  **Head of Unit (If applicable)** |
| Shanon Brantley 11/6/2019 **College Curriculum Committee Chair** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…  **Undergraduate Curriculum Council Chair** |
| Susan Hanrahan 11/6/2019 **College Dean** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…  **Graduate Curriculum Committee Chair** |
| |  |  | | --- | --- | | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Enter date |   **General Education Committee Chair (If applicable)** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…  **Vice Chancellor for Academic Affairs** |

1. Contact Person (Name, Email Address, Phone Number)

Sara Walker

sawalker@astate.edu

870-680-8286

2. Proposed Starting Term and Bulletin Year

Spring 2020; 2019-2020

3. Proposed Course Prefix and Number (Confirm that number chosen has not been used before. For variable credit courses, indicate variable range. )

EMSP 2217

4. Course Title – if title is more than 30 characters (including spaces), provide short title to be used on transcripts. Title cannot have any symbols (e.g. slash, colon, semi-colon, apostrophe, dash, and parenthesis). Please indicate if this course will have variable titles (e.g. independent study, thesis, special topics).

Anatomy and Physiology for Paramedics with Laboratory

Transcript Title: A&P for Paramedics with Lab

5. Brief course description (40 words or fewer) as it should appear in the bulletin.

Demonstrates the structure and function of molecules, cells, tissues, organ systems and their association with health and disease. Demonstrates an understanding of pathophysiology and disease processes. Pre-requisite: Admission to the Paramedic program. Spring

6. Prerequisites and major restrictions. (Indicate all prerequisites. If this course is restricted to a specific major, which major. If a student does not have the prerequisites or does not have the appropriate major, the student will not be allowed to register).

1. **Yes** Are there any prerequisites?
   1. If yes, which ones?

Admission to Certificate of Paramedic Program or AAS Paramedic.

* 1. Why or why not?

Enter text...

1. **Yes** Is this course restricted to a specific major?
   1. If yes, which major? Certificate of Paramedic or AAS Paramedic. This course will only be offered to students enrolled in the paramedic program. That is a max of 12 per year. This course will not be transferrable to a 4-year institution.

7. Course frequency(e.g. Fall, Spring, Summer). *Not applicable to Graduate courses.*

Spring

8. Will this course be lecture only, lab only, lecture and lab, activity, dissertation, experiential learning, independent study, internship, performance, practicum, recitation, seminar, special problems, special topics, studio, student exchange, occupational learning credit, or course for fee purpose only (e.g. an exam)? Please choose one.

* Lecture and lab

9. What is the grade type (i.e. standard letter, credit/no credit, pass/fail, no grade, developmental, or other [please elaborate])

* Standard letter

10. **No** Is this course dual listed (undergraduate/graduate)?

11. **No** Is this course cross listed?

*(If it is, all course entries must be identical including course descriptions. Submit appropriate documentation for requested changes. It is important to check the course description of an existing course when adding a new cross listed course.)*

**11.1** – If yes, please list the prefix and course number of cross listed course.

Enter text...

**11.2** – **No** Are these courses offered for equivalent credit?

Please explain.

12. **No** Is this course in support of a new program?

a. If yes, what program?

Enter text...

13. **Yes** Does this course replace a course being deleted?

a. If yes, what course?

This course would replace the pre-requisites of BIO 2203 and BIO 2201 and the co-requisites of BIO 2223 and BIO 2221.

14. **No** Will this course be equivalent to a deleted course?

a. If yes, which course?

Enter text...

15. **Yes** Has it been confirmed that this course number is available for use?

*If no: Contact Registrar’s Office for assistance.*

16. **No** Does this course affect another program?

If yes, provide confirmation of acceptance/approval of changes from the Dean, Department Head, and/or Program Director whose area this affects.

Enter text...

**Course Details**

17. Outline (The course outline should be topical by weeks and should be sufficient in detail to allow for judgment of the content of the course.)

1. Human A&P Overview
   1. Overview of Body Systems
   2. Topographic Anatomy
   3. Basic Chemistry
   4. Chemical Constituents of Cells
2. Cells
   1. Structure of the Cell
   2. Cell Division
   3. Types of tissue
   4. Organs
   5. Cellular Injury
3. The Skeletal System
   1. Cartilage, Tendons, and Ligaments
   2. Classification of bones
   3. Joints
   4. Growth and Development of Bones
   5. Skeletal Organization
4. The Musculoskeletal System
   1. Skeletal Muscle
   2. Smooth Muscle
   3. Cardiac Muscle
   4. Muscular Anatomy
5. The Respiratory System
   1. Upper and Lower Airway
   2. Respiratory Physiology
6. The Circulatory System
   1. The Heart
   2. Blood Flow within the Heart
   3. Blood Vessels
   4. Blood Composition
7. The Lymphatic and Immune System
   1. Lymphatic Vessels
   2. Tissue Fluid and Lymph Formation
   3. Lymphnodes
   4. Thymus and Spleen
   5. Body Defenses and Fighting Infection
8. The Nervous System
   1. Central Nervous System
   2. Peripheral Nervous System
   3. Autonomic Nervous System
9. The Integumentary System
   1. Integumentary System
   2. Layers of Skin
   3. Accessory Skin Structures
   4. Injuries and Wounds to the Skin
10. The Gastrointestinal System
    1. Alimentary Canal
    2. Functions of the Digestive System
    3. Movement of the Digestive Materials
    4. Abdominal Quadrants
    5. Gastrointestinal Tract Organs
11. The Endocrine System
    1. Endocrine System
    2. Glands
12. The Urinary System
    1. Kidneys
    2. Ureters
    3. Urinary Bladder
    4. Urethra
13. The Reproductive System
    1. Human Reproductive System
    2. Pregnancy
    3. Genetics
14. Special Sensory Systems
    1. Vision
    2. Taste
    3. Hearing, Position, Balance
    4. Smell
    5. Touch
    6. Referred Pain
15. Nutrition and Metabolism
    1. Cellular Metabolism
    2. Control of Metabolic Reactions
    3. Chemical Energy
    4. Cellular Respiration
    5. Body Temperature and Body Fluid Balance

18. Special features (e.g. labs, exhibits, site visitations, etc.)

Lab

19. Department staffing and classroom/lab resources

Paramedic Program faculty or EMS Adjunct faculty

1. Will this require additional faculty, supplies, etc.?

This course will not require additional faculty. The Paramedic Program has faculty available to teach the course. New supplies and equipment will be required for the lab portion of the course, such as human body part models, microscopes and dissection supplies and equipment.

20. **Yes** Does this course require course fees?

*If yes: please attach the New Program Tuition and Fees form, which is available from the UCC website.*

**Course Justification**

21. Justification for course being included in program. Must include:

a. Academic rationale and goals for the course (skills or level of knowledge students can be expected to attain)

To prepare competent entry level Paramedics in the cognitive, psychomotor and affective learning domains. The course will serve as a replacement for A&P I with lab and A&P II with lab for students completing the Certificate of Paramedic program and the AAS Paramedic program. The course will only be available to students admitted into the Paramedic program.

b. How does the course fit with the mission established by the department for the curriculum? If course is mandated by an accrediting or certifying agency, include the directive.

The mission of the Arkansas State University Paramedic Program is to provide the highest educational standards, for students preparing to become paramedics, in a supportive learning environment. We strive to teach our students the highest quality of pre-hospital emergency care through teaching, learning and service while continually striving for innovation and excellence in EMS education. This course would fall in line with our mission and allow our non-traditional and non-college credit seeking students to complete the paramedic program in its entirety.

c. Student population served.

Students seeking a career in emergency medical services.

d. Rationale for the level of the course (lower, upper, or graduate).

Paramedic is considered a technical skill.

**Assessment**

**Relationship with Current Program-Level Assessment Process**

22. What is/are the intended program-level learning outcome/s for students enrolled in this course? Where will this course fit into an already existing program assessment process?

The intended program-level learning outcome for students enrolled in this program is to be a competent, entry-level Paramedic in the cognitive, psychomotor and affective learning domains. The program-level outcome directly related to this course is to apply course content to assessment and management of complex patients in an emergency and non-emergency setting. This course is intended to be in the first semester of the Paramedic curriculum and will be included in the first semester program assessment. As the program continues, assessment from the course will be integrated in the overall program assessments.

23. Considering the indicated program-level learning outcome/s (from question #23), please fill out the following table to show how and where this course fits into the program’s continuous improvement assessment process.

*For further assistance, please see the ‘Expanded Instructions’ document available on the UCC - Forms website for guidance,or contact the Office of Assessment at 870-972-2989.*

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| **Program-Level Outcome 1 (from question #23)** | Apply course content to assessment and management of complex patients in an emergency and non-emergency setting. |
| Assessment Measure | Written exams, laboratory skills checklists |
| Assessment  Timetable | Content in this course is foundational and is included and expanded upon throughout the curriculum. Therefore, assessment will occur at the end of this course, which will be at the end of the first semester of the paramedic program. |
| Who is responsible for assessing and reporting on the results? | Assessment is a collaborative effort and will be conducted by the faculty of record, Medical Director and the EMS Program Director. Ultimately, the EMS Program Director is responsible for reporting the results to the accrediting body. |

*(Repeat if this new course will support additional program-level outcomes)*

**Course-Level Outcomes**

24. What are the course-level outcomes for students enrolled in this course and the associated assessment measures?

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| **Outcome 1** | Analyze and describe the structures and functions of human anatomy and physiology from a regional perspective. |
| Which learning activities are responsible for this outcome? | Discussion posts, presentations, and video supplements |
| Assessment Measure | Final written exam and final laboratory exam |
| **Outcome 2** | Utilize a broad foundation of anatomical relationships and physiological principles in analysis, application, and synthesis related to human physiology and pathophysiology in the pre-hospital care environment. |
| Which learning activities are responsible for this outcome? | Discussion posts, presentations, and video supplements |
| Assessment Measure | Final written exam and final laboratory exam |

*(Repeat if needed for additional outcomes)*

**Bulletin Changes**

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| **Instructions** |
| **Please visit** [**http://www.astate.edu/a/registrar/students/bulletins/index.dot**](http://www.astate.edu/a/registrar/students/bulletins/index.dot) **and select the most recent version of the bulletin. Copy and paste all bulletin pages this proposal affects below. Follow the following guidelines for indicating necessary changes.**  **\*Please note: Courses are often listed in multiple sections of the bulletin. To ensure that all affected sections have been located, please search the bulletin (ctrl+F) for the appropriate courses before submission of this form.**  - Deleted courses/credit hours should be marked with a red strike-through (~~red strikethrough~~)  - New credit hours and text changes should be listed in blue using enlarged font (blue using enlarged font).  - Any new courses should be listed in blue bold italics using enlarged font (***blue bold italics using enlarged font***)  *You can easily apply any of these changes by selecting the example text in the instructions above, double-clicking the ‘format painter’ icon 🡪 , and selecting the text you would like to apply the change to.*  *Please visit* [*https://youtu.be/yjdL2n4lZm4*](https://youtu.be/yjdL2n4lZm4) *for more detailed instructions.* |

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Technical Certificate in Paramedic

This program is intended to prepare students for entry-level practice as Paramedic. The resulting certificate will allow the student to test for national certification as a Paramedic. The program includes didactic content, required lab sessions, hospital clinicals and pre-hospital experience, which will prepare competent paramedics in the cognitive, psychomotor and affective learning domains.

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| **Requirements:** |  |
| **Prerequisites** | **Sem. Hrs.** |
| EMS 1041, Introduction to EMS | 1 |
| BIO 2203 **AND** 2201, Human Anatomy and Physiology I and Laboratory | 4 |
| **Sub-total** | **5**1 |
| **Paramedic Requirements** |  |
| BIO 2223 **AND** BIO 2221, Human Anatomy and Physiology II and Laboratory | 4 |
| ***EMSP 2217 Anatomy and Physiology for Paramedics with lab*** | 7 |
| EMSP 2222, Cardiac Dysrhythmias | 2 |
| EMSP 2233, Patient Assessment and Airway Management | 3 |
| EMSP 2314, Medical Emergencies I | 4 |
| EMSP 2252, Paramedic Clinical I (90 hours) | 2 |
| EMSP 226V, Field Experience I (67 hours) | 1.5 |
| EMSP 2314, Medical Emergencies II | 4 |
| EMSP 2323, Traumatic Injuries | 3 |
| EMSP 2333, Shock and Resuscitation | 3 |
| EMSP 2352, Paramedic Clinical II (90 hours) | 2 |
| EMSP 236V, Paramedic Field Experience II (67 hours) | 1.5 |
| EMSP 2412, Special Populations | 2 |
| EMSP 2424, Emergency Management | 4 |
| EMSP 243V, Paramedic Clinical III (67 hours) | 1.5 |
| EMSP 2242, Paramedic Field Experience III (90 hours) | 2 |
| EMSP 2457, Paramedic Field Internship (315 hours) | 7 |
| **Sub-total** | **46.5 49.5** |
| **Total Required Hours** | **51.5 50.5** |

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Major in Paramedic

Associate of Applied Science

A complete degree plan is available at <https://www.astate.edu/info/academics/degrees/>

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| **University Requirements:** |  |
| See University General Requirements for Associate degrees (p. 43) |  |
| **General Education Requirements:**  Grade of “C” or better required for all General Education Requirements, including prerequisites. | **Sem. Hrs.** |
| See General Education Curriculum for Associate of Applied Science Degrees (p. 80)  Students with this major must take the following: MATH 1023, College Algebra or MATH course that requires MATH 1023 as a prerequisite BIO 2203 AND BIO 2201, Human Anatomy and Physiology I and Laboratory | 19 |
| **Prerequisite Requirements:** |  |
| EMS 1041 Introduction to EMS | 1 |
| **Major Requirements** |  |
| BIO 2223 **AND** BIO 2221, Human Anatomy and Physiology II and Laboratory | 4 |
| ***EMSP 2217 Anatomy and Physiology for Paramedics with lab*** | 7 |
| EMSP 2222, Cardiac Dysrhythmias | 2 |
| EMSP 2233, Patient Assessment and Airway Management | 3 |
| EMSP 2314, Medical Emergencies I | 4 |
| EMSP 2252, Paramedic Clinical I (90 hours) | 2 |
| EMSP 226V, Field Experience I (67 hours) | 1.5 |
| EMSP 2314, Medical Emergencies II | 4 |
| EMSP 2323, Traumatic Injuries | 3 |
| EMSP 2333, Shock and Resuscitation | 3 |
| EMSP 2352, Paramedic Clinical II (90 hours) | 2 |
| EMSP 236V, Paramedic Field Experience II (67 hours) | 1.5 |
| EMSP 2412, Special Populations | 2 |
| EMSP 2424, Emergency Management | 4 |
| EMSP 243V, Paramedic Clinical III (67 hours) | 1.5 |
| EMSP 2242, Paramedic Field Experience III (90 hours) | 2 |
| EMSP 2457, Paramedic Field Internship (315 hours) | 7 |
| **Sub-total** | **46.5 49.5** |
| **Total Required Hours** | **66.5 68.5** |

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***EMSP 2217. Anatomy and Physiology for Paramedics with Lab. Demonstrates the structure and function of molecules, cells, tissues, organ systems and their association with health and disease. Demonstrates an understanding of pathophysiology and disease processes. Prerequisite, Admission to the Paramedic program. Spring***

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EMSP 2222. Cardiac Dysrhythmias Application of fundamental knowledge of cardiac dysrhythmias and 12 Lead EKG performance and interpretation. Development of proficiency in the associated psychomotor skills related to these topics. Prerequisites: Admission to the AAS in Paramedic or Technical Certificate in Paramedic; Grade of C or better in BIO 2203 and BIO 2201. Fall, Spring, Summer.

EMSP 2244. Medical Emergencies I Application of fundamental knowledge of respiratory, cardiovascular, neurological, abdominal, gastrointestinal, genitourinary, and renal emergencies and diseases of the eyes, ears, nose and throat. Development of proficiency in the associated psychomotor skills related to these topics. Prerequisite: Admission to the AAS in Paramedic or Technical Certificate in Paramedic; Grade of C or better in BIO 2203 and BIO 2201. Fall, Spring, Summer

EMSP 2252. Paramedic Clinical I Supervised experience in a hospital to develop proficiency and sound clinical judgment for patient assessment, management of care, and required paramedic psychomotor skills. Requires 90 clock hours of patient care. Prerequisites: Admission to the AAS in Paramedic or Technical Certificate in Paramedic; Grade of C or better in BIO 2203 and BIO 2201. Fall, Spring, Summer.

EMSP 226V. Paramedic Field Experience I Supervised experience in an ambulance to develop proficiency and sound clinical judgment for patient assessment, management of care, and required paramedic psychomotor skills. Requires 67 clock hours of patient care. Prerequisites: Admission to the AAS in Paramedic or Technical Certificate in Paramedic; Grade of C or better in BIO 2203 and BIO 2201. Fall, Spring, Summer.