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| On For Academic Affairs and Research Use Only | |
| Proposal Number | NHP54 |
| CIP Code: |  |
| Degree Code: |  |

**NEW OR MODIFIED COURSE PROPOSAL FORM**

**[X] Undergraduate Curriculum Council**

**[ ] Graduate Council**

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

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

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| Dr. Amy Hyman 3/18/2022  **Department Curriculum Committee Chair** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…  **COPE Chair (if applicable)** |
| Dr. Joseph Richmond 3/18/2022 **Department Chair** | Sara Walker, MS, NRP 3/18/2022  **Head of Unit (if applicable)** |
| Shanon Brantley 3/25/2022  **College Curriculum Committee Chair** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…  **Undergraduate Curriculum Council Chair** |
| Mary Elizabeth Spence 3/25/2022 **Office of Assessment (new courses only)** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…  **Graduate Curriculum Committee Chair** |
| Scott E. Gordon 3/25/22 **College Dean** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…  **Vice Chancellor for Academic Affairs** |
| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…  **General Education Committee Chair (if applicable)** |  |

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

Sara Walker, sawalker@astate.edu, 870-680-8286

1. **Proposed starting term and Bulletin year for new course or modification to take effect**

Fall 2022

**Instructions:**

*Please complete all sections unless otherwise noted. For course modifications, sections with a “Modification requested?” prompt need not be completed if the answer is “No.”*

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|  | **Current (Course Modifications Only)** | **Proposed (New or Modified)**  *(Indicate “N/A” if no modification)* |
| **Prefix** |  | **EMSP** |
| **Number\*** |  | **2223** |
| **Title**  (include a short title that’s 30 characters or fewer) |  | **Paramedic Pharmacology** |
| **Description\*\*** |  | **Emergency pharmacology, pharmacokinetics, and pharmacodynamics. This course will include laws affecting the use and distribution of medications, dosing, clinical calculations, routes of administration and discussion of common medication classifications, to include indications, contraindications, and side effects. Prerequisites, Admission to Technical Certificate of Paramedic or AAS of Paramedic. Fall, Spring, Summer.** |

***\**** Confirm with the Registrar’s Office that number chosen has not been used before and is available for use. For variable credit courses, indicate variable range. *Proposed number for experimental course is 9*.

\*\*Forty words or fewer (excepting prerequisites and other restrictions) as it should appear in the Bulletin.

1. **Proposed prerequisites and major restrictions** **[Modification requested? NO**

(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?

Prerequisites, Admission to Technical Certificate of Paramedic or AAS of Paramedic.

Why or why not?

Enter text...

1. **YES** Is this course restricted to a specific major?
   1. If yes, which major? Technical Certificate of Paramedic and AAS Paramedic
2. **Proposed course frequency [Modification requested? NO**

(e.g. Fall, Spring, Summer; if irregularly offered, please indicate, “irregular.”) *Not applicable to Graduate courses.*

Fall, Spring, Summer

1. **Proposed course type [Modification requested? NO**

Will this course be lecture only, lab only, lecture and lab, activity (e.g., physical education), dissertation/thesis, capstone, independent study, internship/practicum, seminar, special topics, or studio? Please choose one.

Lecture and Lab

1. **Proposed grade type [Modification requested? NO**

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

Standard Letter

1. **NO** Is this course dual-listed (undergraduate/graduate)?
2. **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.)*

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

Enter text...

**b.** – **Yes / No** Can the cross-listed course be used to satisfy the prerequisite or degree requirements this course satisfies?

Enter text...

1. **NO** Is this course in support of a new program?

a. If yes, what program?

Enter text...

1. **NO** Will this course be a one-to-one equivalent to a deleted course or previous version of this course (please check with the Registrar if unsure)?

a. If yes, which course?

Enter text...

**Course Details**

1. **Proposed outline** **[Modification requested? NO**

(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. Principles of Pharmacology (Week 1 and Week 2)
2. Legal Aspects and Risk Management (Week 3)
3. Drug Administration: Safety and Procedures (Week 4)
4. Medication Math (Week 5)
5. Intravenous Fluids and Administration (Week 6)
6. Problem Oriented Pharmacology: (Week 7-11)
   1. Acute Coronary Syndrome
   2. Analgesia and Sedation
   3. Anaphylaxis
   4. Cardiac Arrhythmias
   5. Heart Failure
   6. Endocrine Emergencies
   7. Hypertensive Emergencies
   8. Toxicology
   9. Respiratory Emergencies
   10. Seizures
   11. Shock
   12. Traumatic Brain Injury
7. Critical Care Transport (Week 12)
8. Special Considerations: Pregnancy, Pediatrics, Geriatrics and Renal Failure (Week 13)
9. Pharmacology-Assisted Intubation (Week 14)
10. **Proposed special features** **[Modification requested? NO**

(e.g. labs, exhibits, site visitations, etc.)

None

1. **Department staffing and classroom/lab resources**

Current staffing with teach

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

**NO**

1. **NO** Does this course require course fees?

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

**Justification**

**Modification Justification (Course Modifications Only)**

1. Justification for Modification(s)

Enter text...

**New Course Justification (New Courses Only)**

1. Justification for course. Must include:

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

Pharmacology is statistically the toughest subject in most paramedic programs. Currently, we are only able to cover pharmacology over a 5-week period within one of our current courses. We have seen a need for a more comprehensive and in-depth approach to pharmacology. After reviewing the curriculum of the top paramedic programs in the nation, one of the common courses is pharmacology. This pharmacology course will only improve the rigor and content of our paramedic program and improve student success on the national certification exam.

Objectives:

1. Describe the laws affecting the use and administration of medications
2. State common sources of medications.
3. Assess patients for the need to administer a medication
4. Determine which medication is appropriate for patients in a variety of scenarios
5. Calculate and administer the correct dose of medication
6. Describe the method of action associated with a given medication
7. State the expected side effects of a given medication
8. List the potential routes of administration for a given medication

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

The mission of the paramedic program is to provide the highest educational standards, for students preparing to become paramedics, in a supportive learning environment. This course will fall in line with that mission by providing the highest level of education in order to prepare competent entry level paramedics.

c. Student population served.

Students admitted to the Technical Certificate of Paramedic and AAS Paramedic.

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

The entire paramedic program is lower level.

**Assessment**

**Assessment Plan Modifications (Course Modifications Only)**

1. **Yes / No** Do the proposed modifications result in a change to the assessment plan?

*If yes, please complete the Assessment section of the proposal*

**Relationship with Current Program-Level Assessment Process (Course modifications skip this section unless the answer to #18 is “Yes”)**

1. 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 student enrolled in this course is to be a competent entry level Paramedic in the cognitive, psychomotor, and affective learning domains. This course is intended to be in the 1st semester for the paramedic curriculum and will be included in the 1st semester program assessment. As the program continues, assessment from the course will be integrated in the overall program assessments.

PLO #1: Apply critical decision making to the management of patients experiencing a medical or traumatic emergency.

1. Considering the indicated program-level learning outcome/s (from question #19), 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 #19)** | Apply critical decision making to the management of patients experiencing a medical or traumatic emergency. |
| Assessment Measure | EMSP 2457 Field Internship Final Patient Simulation |
| Assessment  Timetable | After each first semester of the paramedic program. |
| Who is responsible for assessing and reporting on the results? | Program Faculty will be responsible for Assessing and reporting on the results.  The Program Director will summarize results for required accreditation reporting |

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

**Course-Level Outcomes**

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

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| **Outcome 1** | Describe the pharmacokinetics and pharmacodynamics of drugs utilized by the paramedic and those drugs prescribed to patients. |
| Which learning activities are responsible for this outcome? | Scenario Based Content, Simulated Emergencies, Peer Assisted Learning and Simulated Lab Home Environment, Skills Lab, and classroom ambulance simulator. |
| Assessment Measure | Written exam, scenario-based performance, simulation performance, and lab skills checklists will be your assessment measure for this outcome |

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| **Outcome 2** | Explain the effects of medications on the body. |
| Which learning activities are responsible for this outcome? | Scenario Based Content, Simulated Emergencies, Peer Assisted Learning and Simulated Lab Home Environment, Skills Lab, and classroom ambulance simulator. |
| Assessment Measure | Written exam, scenario-based performance, simulation performance, and lab skills checklists will be your assessment measure for this outcome |

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| **Outcome 3** | Discuss the classifications of medications, their mechanism of action and choose the appropriate pharmacological intervention based on patient complaint. |
| Which learning activities are responsible for this outcome? | Scenario Based Content, Simulated Emergencies, Peer Assisted Learning and Simulated Lab Home Environment, Skills Lab, and classroom ambulance simulator. |
| Assessment Measure | Written exam, scenario-based performance, simulation performance, and lab skills checklists will be your assessment measure for this outcome |
| **Outcome 4** | Demonstrate professionalism with faculty, peers and simulated patients. |
| Which learning activities are responsible for this outcome? | Scenario Based Content, Simulated Emergencies, Peer Assisted Learning and Simulated Lab Home Environment, Skills Lab, and classroom ambulance simulator. |
| Assessment Measure | Written exam, scenario-based performance, simulation performance, and lab skills checklists will be your assessment measure for this outcome |

**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. Please include a before (with changed areas highlighted) and after of all affected sections.**  **\*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.** |

* Refer to Program Modification Form NHP43 AAS DPEM CP EMT Curricular Revision