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

**NEW OR MODIFIED COURSE PROPOSAL FORM**

**[X] Undergraduate Curriculum Council**

**[ ] Graduate Council**

|  |
| --- |
| **[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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| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date… **Department Curriculum Committee Chair** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…  **COPE Chair (if applicable)** |
| Julie B. King 8/7/2020 **Department Chair** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…  **Head of Unit (if applicable)** |
| |  |  | | --- | --- | | Mary Elizabeth Spence | 9/4/2020 | | **Office of Assessment** |  | | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…  **Undergraduate Curriculum Council Chair** |
| Shanon Brantley 08/26/2020 **College Curriculum Committee Chair** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…  **Graduate Curriculum Committee Chair** |
| \_\_\_\_\_\_\_\_\_\_\_\_\_Susan Hanrahan\_\_\_\_\_\_\_\_\_\_\_\_ 8/31/2020 **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)**

Julie King, Arkansas State University, College of Nursing & Health Professions, P.O. Box 910, State University, AR 72469, [juking@astate.edu](mailto:juking@astate.edu) 870-972-3920

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

Fall 2021 , Bulletin year 2021-2022 .

**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** |  | **OESH** |
| **Number\*** |  | **3103** |
| **Title** |  | **Recognition of Occupational Hazards**  **SHORT TITLE: Hazard Recognition** |
| **Description\*\*** |  | Introduction to the principles and practice of Industrial Hygiene through the study of chemical, physical, and biological agents responsible for occupational illness. |

***\**** (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 as it should appear in the Bulletin.

1. **Proposed prerequisites and major restrictions** **[Modification requested? Yes/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?

Students must be admitted to the OESH major/program.

Enter text...

* 1. Why or why not?

This course is an introductory course on the recognition of chemical, biological, and physical occupational hazards. Students enrolling in this course should be in the Bachelors of Science in Occupational and Environmental Safety and Health program.

1. **Yes** Is this course restricted to a specific major?
   1. If yes, which major? **Occupational and Environmental Safety and Health**
2. **Proposed course frequency [Modification requested? Yes/No]**

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

Fall

1. **Proposed course type [Modification requested? Yes/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

1. **Proposed grade type [Modification requested? Yes/No]**

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

Letter grade

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. **Yes** Is this course in support of a new program?

a. If yes, what program?

**Occupational and Environmental Safety and Health**

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? Yes/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.)

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| Week | Topic/Assignments |
| 1 | Introduction/Overview of Industrial Hygiene |
| 2 | Routes of exposure/Anatomy and Physiology review |
| 3 | Review of Industrial Toxicology |
| 4 | Recognition of Hazards: Gases and Vapors |
| 5 | Hazard Quotient Calculations |
| 6 | Solvent exposures and their control |
| 7 | Exposure to Particulate matter and particulate sizing |
| 8 | Understanding relevant Occupational exposure limits |
| 9 | Occupational Noise |
| 10 | Noise continued |
| 11 | Thermal stress: Heat Stress |
| 12 | Thermal Stress: Cold Environments |
| 13 | Ionizing and Non-Ionizing Radiation |
| 14 | Biological agents |
| 15 | Introduction to Ergonomics |
|  |  |

1. **Proposed special features** **[Modification requested? Yes/No]**

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

None

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

Faculty from AState will teach and evaluate this course as an in-person course

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

No

1. **Yes/No** Does this course require course fees? No

*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)

Occupational safety professionals including industrial hygienists are an integral part of both public and private sector industry. These professionals must be trained to anticipate, recognize, evaluate, and control hazards in occupational settings. Students will gain a basic understanding of major topics in industrial hygiene and increase their understanding of the occupational and environmental hazard recognition. Students will learn to recognize chemical, physical, and biological hazards affecting health in the workplace. Students will also be able to obtain and understand relevant regulatory and health occupational exposure levels.

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 core mission of the College of Nursing and Health Professions is to provide a comprehensive and quality education to students seeking careers in various areas of health professions including occupational health and safety. The mission of the OESH program is to educate the next generation(s) of environmental health and safety practitioners that will be able to function effectively in industrial settings, the public sector, or academia, and to produce valuable occupational safety and environmental health specialists that act ethically in the practice considering the implications to the health of workers and the environment.

Students must be able to recognize occupational hazards including gases, vapors, particulates, thermal stresses, and poor ergonomic designs just to name a few. The Environmental Health Science and Protection Accreditation Council (EHAC), the council that we will be seeking accreditation from, mandates that students should be able to demonstrate a competency and have been exposed to most topic areas in foundational Environmental Health. One of the six core areas assigned by the council is Occupational Health and Safety.

c. Student population served.

This course is required for any student who will earn the Bachelor of Occupational and Environmental Safety and Health.

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

Offering this as an upper level course allows students to apply technical skills to advanced knowledge associated with the occupational health and safety. The level and content of this course will be consistent with upper level academic coursework.

**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 outcomes are that students would develop and demonstrate critical thinking skills as they relate to the recognition of occupational health hazards. These critical thinking skills will be reinforced. Students also need to be able to communicate within all levels of an organization both in written form and verbally. Professional communications skills will also be reinforced in this course.

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 #23)** | SLO – 1 Students will demonstrate critical thinking skills to anticipate, recognize, and evaluate hazards affecting human health and the environment and develop and evaluate effective strategies to solve problems and mitigate risk. |
| Assessment Measure | Direct measure: OESH 4003 Internship and OESH 4401 Senior Seminar act as a capstone to the program. Internship preceptors and instructors will be given a detailed evaluation form to fill out upon internship completion to assess for critical thinking skills in anticipating, recognizing and evaluating environmental health and occupational safety hazards. Students will also be given mock certification exams in either environmental health or occupational safety in the OESH 4401 Senior Seminar course. The grade outcomes of these exams will also be used to assess the program. Indirect measures: Students will be given program exit surveys in the OESH 4401 Senior Seminar course to assess the program. |
| Assessment  Timetable | Annually |
| Who is responsible for assessing and reporting on the results? | Course faculty and program chair: Julie King, Arkansas State University, College of Nursing & Health Professions, P.O. Box 910, State University, AR 72469, [juking@astate.edu](mailto:juking@astate.edu) 870-972-3920 |

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

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| **Program-Level Outcome 2 (from question #23)** | SLO – 2 Students should be able to communicate occupational and environmental standards, studies, and programs effectively and professionally with a wide range of audiences verbally and in writing through publications, presentations, and technical reports. |
| Assessment Measure | Direct measure: OESH 4003 Internship and OESH 4401 Senior Seminar act as a capstone to the program. Students will be required to give a formal presentation in the OESH 4401 Senior seminar detailing their experiences in the internship. Presentations will be evaluated for communication skills. Internship preceptors and instructors will also give detailed evaluations on the students’ ability to communicate with a variety of audiences. Indirect measures: Students will be given program exit surveys in the OESH 4401 Senior Seminar course to assess the program. |
| Assessment  Timetable | Annually |
| Who is responsible for assessing and reporting on the results? | Course faculty and program chair: Julie King, Arkansas State University, College of Nursing & Health Professions, P.O. Box 910, State University, AR 72469, [juking@astate.edu](mailto:juking@astate.edu) 870-972-3920 |

**Course-Level Outcomes**

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

|  |  |
| --- | --- |
| **Outcome 1** | Identify, describe, and integrate the principles of anticipation, recognition, evaluation, and control of potential health hazards in the workplace. |
| Which learning activities are responsible for this outcome? | Lectures  Assigned readings  Homework Assignments |
| Assessment Measure | Final exam rubric benchmark 85% |

*(Repeat if needed for additional outcomes)*

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| **Outcome 2** | Students will be able to obtain and interpret safety and health regulations as they pertain to selected occupational hazards |
| Which learning activities are responsible for this outcome? | Lectures  Assigned readings  Homework Assignments  Exams |
| Assessment Measure | Discussion board rubric benchmark 85% |

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| **Outcome 3** | Students will be able to identify and describe chemical, physical, and biological sources of major occupational illnesses including but not limited to gases, vapors, solvents, particulates, occupational noise, thermal stressors, non-ionizing radiation, and biological agents. |
| Which learning activities are responsible for this outcome? | Lectures  Assigned readings  Possible visit to industrial site  Written assignments  Exams |
| Assessment Measure | Written case study rubric benchmark 85% |

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| **Outcome 4** | Students will have a basic exposure to and will be able to perform calculations related to the Certified Industrial Hygienist (CIH) exam |
| Which learning activities are responsible for this outcome? | Lectures  Assigned readings  Homework Assignments  Written assignments  Exams |
| Assessment Measure | Final exam rubric benchmark 85% |

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| **Outcome 5** | Understand the role of the industrial hygienist (or safety professional) in the workplace |
| Which learning activities are responsible for this outcome? | Lectures  Assigned readings  Homework Assignments  Written assignments  Exams |
| Assessment Measure | Discussion board rubric benchmark 85% |

**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.** |

Page 371

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**Major in Occupational and Environmental Safety and Health**

*Bachelor of Science*

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| **University Requirements:** |  |
| See University General Requirements for Baccalaureate degrees (p. 42) |  |
| **First Year Making Connections Course:** | **Sem. Hrs.** |
| UC 1013, Making Connections | **3** |
| **General Education Requirements:** | **Sem. Hrs.** |
| See General Education Curriculum for Baccalaureate degrees (p. 78)  **Students with this major must take the following:**  *MATH 1023, College Algebra or MATH course that requires MATH 1023 as a prerequisite*  *CHEM 1013 and CHEM 1011 General Chemistry and Lab*  *BIO 2013 and BIO 2011 Biology of the Cell and Lab*  *COMS 1203, Oral Communication (Required Departmental Gen. Ed. Option)* | **35** |
| **Major Requirements:** | **Sem. Hrs.** |
| OESH 3013 Fundamentals of Occupational Safety | 3 |
| OESH 3023 Principles of Environmental Health | 3 |
| OESH 3103 Recognition of Occupational Hazards | 3 |
| OESH 3113 Toxicology | 3 |
| OESH 3203 Control of Occupational Hazards | 3 |
| OESH 3223 Industrial Hygiene Sampling and Analysis Laboratory | 3 |
| OESH 3303 Water, wastewater, Solid and Hazardous Waste Treatment | 3 |
| OESH 3313 Epidemiology and Biostatistics | 3 |
| DPEM 3503 Principles of Disaster Preparedness and Emergency Management | 3 |
| OESH 4003 OESH Internship | 3 |
| OESH 4013 OSHA Standards and Practices | 3 |
| OESH 4113 Environmental Health and Safety Management | 3 |
| OESH 4203 Principles of Food Safety and Sanitation | 3 |
| OESH 4213 Construction Safety | 3 |
| OESH 4223 Accident Investigation and Analysis | 3 |
| OESH 4303 Environmental Risk Assessment | 3 |
| OESH 4313 Ergonomics | 3 |
| OESH 4323 Air Pollution | 3 |
| OESH 4401 OESH Senior Seminar | 1 |
| POSC 4533 Environmental Law and Administration | 3 |

Page 534

Insert

**OESH 3103 Recognition of Occupational Hazards** - Introduction to the principles and practice of Industrial Hygiene through the study of chemical, physical, and biological agents responsible for occupational illness. Admission to the Occupational and Environmental Safety and Health Program required. Fall.