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| For Academic Affairs and Research Use Only | |
| Proposal Number | NHP31 |
| 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.

|  |  |
| --- | --- |
| Amy Hyman 3/1/2022 **Department Curriculum Committee Chair** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…  **COPE Chair (if applicable)** |
| Joseph L. Richmond 3/1/2022 **Department Chair** | Julie B. King 2/2/2022  **Head of Unit (if applicable)** |
| Shanon Brantley 3/21/2022  **College Curriculum Committee Chair** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…  **Undergraduate Curriculum Council Chair** |
| Mary Elizabeth Spence 2/28/2022 **Office of Assessment (new courses only)** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…  **Graduate Curriculum Committee Chair** |
| \_\_\_\_\_\_\_Scott E. Gordon\_\_\_\_\_\_\_\_\_\_\_\_ 3/22/22 **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)**

Amy Hyman, ahyman@astate.edu, 870.680.8286

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

Spring 2023, Bulletin year 2022-2023.

**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.”*

|  |  |  |
| --- | --- | --- |
|  | **Current (Course Modifications Only)** | **Proposed (New or Modified)**  *(Indicate “N/A” if no modification)* |
| **Prefix** |  | **OESH** |
| **Number\*** |  | **3323** |
| **Title**  (include a short title that’s 30 characters or fewer) |  | **Occupational Illnesses** |
| **Description\*\*** |  | **Incidence of occupational diseases and approaches to recognition and prevention. Prerequisites, BIO 2201 and BIO 2203. Spring.** |

***\**** 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? 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?

BIO 2201 Human Anatomy and Physiology I Laboratory

BIO 2203 Human Anatomy and Physiology I

* 1. Why or why not?

Students taking this course must possess a basic knowledge of human anatomy and physiology applicable to the study of human illnesses.

1. **NO** Is this course restricted to a specific major?
   1. If yes, which major? Enter text...
2. **Proposed course frequency [Modification requested? Yes/No]**

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

Spring

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 only

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])

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? 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.)

|  |  |
| --- | --- |
| Week | Topic/Assignments |
| 1 | Introduction to Recognizing and Preventing Disease |
| 2 | Occupational Health Surveillance |
| 3 | Hazardous exposures: Indoor Air Quality |
| 4 | Hazardous exposures: Chemical Hazards |
| 5 | Hazardous exposures: Vibration and Temperature extremes |
| 6 | Hazardous exposures: Biological agents |
| 7 | Adverse Health Effects: Cancer |
| 8 | Adverse Health Effects: Respiratory Disorders |
| 9 | Adverse Health Effects: Neurologic Disorders |
| 10 | Adverse Health Effects: Reproductive and developmental disorders |
| 11 | Hearing Disorders |
| 12 | Skin Disorders |
| 13 | Cardiovascular disorders |
| 14 | Estimating Occupational Risk |
| 15 | Final Reports/Class Presentations |
|  |  |

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

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

None

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

None

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

No, current faculty are planning to teach this course, but if enrollment supports it, an adjunct faculty may be hired to teach.

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)

Occupational safety professionals 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 taking this course will be expected to be able to identify major occupational illnesses and discuss common physical, chemical, and biological hazards in the workplace that can lead to occupational diseases.

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 or the public sector. The accrediting agency that we will be seeking accreditation from, ABET, requires curricular content in “physiological and/or toxicological interactions of physical, chemical, biological and ergonomic agents, factors, and/or stressors with the human body.” This course will help to fulfill those requirements and provide valuable insights into diseases caused by hazardous occupations.

c. Student population served.

This course will serve not only OESH program students but could be valuable to other majors in the College of Nursing and Health professions such as nursing majors who have an interest in occupational nursing or understanding how the work environment can influence health.

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

Offering this as an upper level course allows students to apply knowledge associated with lower level biology courses such as Human Anatomy and Physiology. Thus, the level of this course meets requirements consistent with upper division academic rigor.

**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 for students enrolled in this course are to develop critical thinking skills as they apply to anticipating, recognizing, evaluating, and controlling occupational hazards. Students are also expected to develop writing and communication skills consistent with the program-level outcomes. This course will provide key knowledge in the anticipation and recognition of occupational illnesses.

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.

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.

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.*

|  |  |
| --- | --- |
| **Program-Level Outcome 1 (from question #19)** | 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)*

|  |  |
| --- | --- |
| **Program-Level Outcome 2 (from question #19)** | 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. 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 |

**Course-Level Outcomes**

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

|  |  |
| --- | --- |
| **Outcome 1** | Students should be able to use databases to evaluate incident rates and occupational disease trends |
| Which learning activities are responsible for this outcome? | Lectures  Assigned readings  Homework Assignments |
| Assessment Measure | Discussion Board Rubric 85% |

*(Repeat if needed for additional outcomes)*

|  |  |
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| **Outcome 2** | Student should be able to identify major occupational diseases in the US and worldwide, and discuss common chemical, physical, and biological hazards in the workplace that can lead to occupational diseases |
| Which learning activities are responsible for this outcome? | Lectures  Assigned readings  Homework Assignments  Final Project/presentation |
| Assessment Measure | Final Presentation rubric 85% |

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| **Outcome 3** | Students should be able to recall and discuss the pathophysiology of key occupational diseases of the major organs |
| Which learning activities are responsible for this outcome? | Lectures  Assigned readings  Homework Assignments |
| Assessment Measure | Final Presentation/Final Exam Rubric 85% |

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| **Outcome 4** | Students should be able to understand levels of prevention and they types of surveillance used to address each level then recommend common medical surveillance and occupational health approaches used in the prevention of occupational illnesses. |
| Which learning activities are responsible for this outcome? | Lectures  Assigned readings  Homework Assignments |
| Assessment Measure | Final Exam Rubric 85% |

**Bulletin Changes**

|  |
| --- |
| **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.** |

**BEFORE**

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

*Bachelor of Science*

|  |  |
| --- | --- |
| **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 Health and 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 |
| OESH 3323 Occupational Illnesses | 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 589 Course Descriptions Before**

**OESH 3303. Water, Wastewater, Solid and Hazardous Waste Treatment** Water quality, water supply, and wastewater disposal, as well as solid and hazardous waste management, treatment, and disposal technology. Admission to the Occupational and Environmental Safety and Health Program required. Prerequisites, OESH 3013, OESH 3023, OESH 3103, OESH 3113, and

DPEM 3503. Spring.

**OESH 3313. Epidemiology and Biostatistics** Introduction to basic concepts of epidemiology and biostatistics as well as some of the basic techniques of public health and evidence-based medicine. Admission to the Occupational and Environmental Safety and Health Program required. Prerequisites, OESH 3013, OESH 3023, OESH 3103, OESH 3113, and DPEM 3503. Spring.

## **OESH 3323. Occupational Illnesses** Incidence of occupational diseases and approaches to

## recognition and prevention. Prerequisites, BIO 2201 and BIO 2203. Spring.

**OESH 4003. Internship** Supervised field-based experience in a private or public industrial, hospital, or governmental agency. Admission to the Occupational and Environmental Safety and Health Program required. Prerequisites, OESH 3203, OESH 3223, OESH 3303, OESH 3313, and POSC 4633. Fall.

**OESH 4013. OSHA Standards and Practices** Anticipation, identification, and evaluation of health and safety hazards and application of safety and health laws and OSHA regulations. Admis- sion to the Occupational and Environmental Safety and Health Program required. Prerequisites, OESH 3203, OESH 3223, OESH 3303, and OESH 3313. Fall.

**OESH 4113. Environmental Health and Safety Management** Introduction to EHS management principles in both office and industrial settings to develop safer and healthier work environments. Admission to the Occupational and Environmental Safety and Health Program required. Prereq- uisites, OESH 3203, OESH 3223, OESH 3303, OESH 3313, and POSC 4633. Fall.

**OESH 4203. Principles of Food Safety and Sanitation** Principles and techniques applied to the protection of food for human consumption. Emphasis is placed on food safety and proper environmental control measures to minimize health dangers. Admission to the Occupational and Environmental Safety and Health Program required. Prerequisites, OESH 3203, OESH 3223, OESH 3303, OESH 3313, and POSC 4633. Fall.

**OESH 4213. Construction Safety** Occupational safety hazards associated with the construction industry. Emphasis is placed on OSHA policies, procedures, and standards as well as construction health and safety principles. Admission to the Occupational and Environmental Safety and Health Program required. Prerequisites, OESH 4003, OESH 4013, OESH 4113, and OESH 4203. Spring.

**OESH 4223. Accident Investigation and Analysis** Introduction to principles and practices for understanding the nature of occupational hazard recognition, accident prevention, loss reduc- tion, and accident investigation analysis. Admission to the Occupational and Environmental Safety and Health Program required. Prerequisites, OESH 4003, OESH 4013, OESH 4113, and OESH 4203. Spring.

**OESH 4303. Environmental Risk Assessment** Introduction to risk analysis and ex- amination of the fundamental aspects of risk, focusing on environmental and public health risks including hazard identification, exposure assessments, and risk communication. Admission to the Occupational and Environmental Safety and Health Program required. Prerequisites, OESH 4003, OESH 4013, OESH 4113, and OESH 4203. Spring.

**OESH 4313. Ergonomics** Introduction to the principles of ergonomics including fundamental ter- minology, concepts and applications of physiology, anthropometry, biomechanics, and engineer- ing to workplace design. Admission to the Occupational and Environmental Safety and Health Program required. Prerequisites, OESH 4003, OESH 4013, OESH 4113, and OESH 4203.

Spring.

**OESH 4323. Air Pollution** Pollutants, health effects, and technologies for controlling for emis- sions. Admission to the Occupational and Environmental Safety and Health Program required. Prerequisites, OESH 4003, OESH 4013, OESH 4113, and OESH 4203. Spring.

**AFTER**

Page 400

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*Bachelor of Science*

|  |  |
| --- | --- |
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**Page 589 Course Descriptions**

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**OESH 4013. OSHA Standards and Practices** Anticipation, identification, and evaluation of health and safety hazards and application of safety and health laws and OSHA regulations. Admis- sion to the Occupational and Environmental Safety and Health Program required. Prerequisites, OESH 3203, OESH 3223, OESH 3303, and OESH 3313. Fall.

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