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| For Academic Affairs and Research Use Only | |
| Proposal Number | NHP09 |
| CIP Code: |  |
| Degree Code: |  |

**PROGRAM MODIFICATION FORM**

**[X] Undergraduate Curriculum Council**

**[ ] Graduate Council**

|  |
| --- |
| **Modification Type: [X]Admissions, [X]Curricular Sequence, or [ ]Other** |

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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| --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | \_\_\_\_Amy Hyman\_\_\_\_\_\_\_\_\_\_\_\_ | 02/24/22 |   **Department Curriculum Committee Chair** | |  |  | | --- | --- | | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Enter date |   **COPE Chair (if applicable)** |
| |  |  | | --- | --- | | \_Joseph L. Richmond | 2/24/22 |   **Department Chair** | |  |  | | --- | --- | | \_\_Julie King \_\_ | 2/23/2022 |   **Head of Unit (if applicable)** |
| Shanon Brantley 3/21/2022  **College Curriculum Committee Chair** | |  |  | | --- | --- | | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Enter date |   **Undergraduate Curriculum Council Chair** |
| |  |  | | --- | --- | | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Enter date |   **Director of Assessment** *(only for changes impacting assessment)* | |  |  | | --- | --- | | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Enter date |   **Graduate Curriculum Committee Chair** |
| |  |  | | --- | --- | | \_\_\_\_\_\_\_Scott E. Gordon\_\_\_\_\_\_\_ | 2/24/22 |   **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](mailto:ahyman@astate.edu), 870.680.8286

1. **Proposed Change** (for undergraduate curricular changes please provide an 8-semester plan (appendix A), if applicable)
2. We are proposing changes to the curriculum and curriculum sequence to allow for the program to be offered online and to standardize program completion requirements for both online and in-person instruction modalities. These changes include:
   1. Requiring BIO 2201 Human Anatomy and Physiology I Laboratory
   2. Exchanging chemistry requirements from CHEM 1013/CHEM 1011 General Chemistry I and Laboratory, CHEM 1023/CHEM 1021 General Chemistry II and laboratory, and CHEM 3103/CHEM 3101 Organic Chemistry I and Laboratory to CHEM 1043/CHEM 1041 Fundamental Concepts of Chemistry and CHEM 1052 Fundamental Concepts of Organic and Biochemistry.
   3. Students will be required to take the 52 hours of Major OESH coursework and then choose 9 hours from Program electives.
   4. Students will also be required to choose 3 hours of electives. These hours are not required to be 3000/4000 level courses because the program already contains 70 hours of upper level work.
   5. Four new courses will be proposed to add to the major OESH coursework and Program Electives that students can choose from. A new variable-hour course, OESH 480V, will be proposed to allow for students to receive credit for such activities as faculty-led undergraduate research or independent study.

Required General Education courses:

BIO 2201 Human Anatomy and Physiology I Laboratory

BIO 2203 Human Anatomy and Physiology I

CHEM 1041 Fundamentals of Chemistry Laboratory

CHEM 1043 Fundamentals of Chemistry

COMS 1203 Oral Communication

ENG 1003 English Composition I

ENG 1013 English Composition II

MATH 1023 College Algebra or any course that requires MATH 1023 as a prerequisite

Required Support Courses:

BIO 2101 Microbiology for Nursing and Allied Health Laboratory

BIO 2103 Microbiology for Nursing and Allied Health

CHEM 1052 Fundamental Concepts of Organic and Biochemistry

DPEM 3503 Principles of Disaster Preparedness and Emergency Management

ENG 3063 Writing for STEM

POSC 4633 Environmental Law and Administration

STAT 3233 Applied Statistics I

Major (OESH) Courses:

OESH 3013 Fundamentals of Occupational Health and Safety

OESH 3023 Principles of Environmental Health

OESH 3103 Recognition of Occupational Hazards

OESH 3113 Toxicology

OESH 3203 Control of Occupational Hazards

OESH 3223 Industrial Hygiene Sampling and Analysis

OESH 3303 Water, wastewater, solid and hazardous waste management

OESH 3313 Epidemiology

OESH 3323 Occupational Illnesses

OESH 4013 OSHA Standards and Practices

OESH 4113 Environmental Health and Safety Management

OESH 4213 Construction Safety

OESH 4223 Accident Investigation and Analysis

OESH 4303 Environmental Risk Assessment

OESH 4313 Ergonomics

OESH 4323 Air Pollution

OESH 4003 Internship

OESH 4401 OESH Senior Seminar

Program Electives

OESH 3123 Issues in Industrial Hygiene

OESH 4203 Principles of Food Safety and Sanitation

OESH 4343 Process Safety

OESH 4413 Fire Safety and Prevention

Electives (3 hours)

OESH 480V Independent Study in OESH

1. Changes to admission requirements to the program:
   1. Completion of the A-State admission process with acceptance
   2. Minimum 2.0 on all transfer work
2. **Effective Date**

8/1/2022

1. **Justification –** *Please provide details as to why this change is necessary.*

Curriculum changes justification:

A majority of students expressing interest in the OESH program are non-traditional students often already working in the practice with no degree. By offering an online degree option in addition to the traditional option OESH program, A-State can serve even more students because they will be able to continue working full or part time while they complete the courses.

The traditional program curriculum and the online OESH program curriculum requirements need to be standardized. Some of the required support courses for the original traditional OESH program cannot be offered online, so modification to these courses was required. Our plan is to continue to offer the traditional on-campus OESH program and convert the traditionally offered courses to the 7-week format required by AP. Most general education requirements are already offered through AP for other degree programs. There are a few major requirements that are offered by other departments that are not yet offered through AP, and we have received email agreements from the department chairs of English and Political Science to offer these courses through AP.

The BS-OESH program will seek accreditation from the Accreditation Board of Engineering and Technology (ABET) instead of the National Environmental Health Science and Protection Accreditation Council (EHAC) as was originally proposed. The proposed curriculum changes more closely align with the ABET requirements.

Admission requirements justification:

We propose these changes to the admission requirements so that students can take general education and required support courses as they are able to. We would also like for non-OESH students to be able to take OESH program courses that could be valuable to other degree programs. Some of these courses include Toxicology, Epidemiology, and Occupational Illnesses. The originally proposed OESH program was a lock-step program and we would like for students to be able to take courses as interest and time permits.

**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.** |

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**Before**

|  |
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| **2nd Degree Accelerated BSN**  March 15 for August Interim enrollment. A baccalaureate degree in another discipline plus all major required support courses must be completed by the end of the Spring semester.  Students seeking readmission, advance standing or transfer credit for nursing courses must be aware that nursing knowledge changes rapidly. Therefore, if three or more years have elapsed since the previous education experience, students may be required to meet additional requirements before progression in a specific nursing program. |
| **RN to BSN Online**  To facilitate movement through the BSN curriculum for students who have previously completed an AASN or Diploma program, a specially designed track has been developed for registered nurses who have demonstrated clinical proficiency. This track is fully online and may be completed part- or full-time. The clinical capstone component will be individualized based upon the applicant and will utilize a local clinical facilitator. The length of study depends upon previous college credits and the courses needed to fulfill BSN requirements. Most RNs with an associate degree can complete the BSN program in two years or less of full-time study. |
| **Associate of Applied Science in Nursing**  June 7 for admission to the Fall semester for LPN to AASN students at campus site and distance- learning sites; October 1 and June 7 for transfer/readmission for subsequent semester. Deadline for traditional AASN program at the Mountain Home and West Memphis campuses is October 1st. Ap- plicants must complete required prerequisite support courses with a cumulative GPA of 2.0 or better. A “C” or better must be earned in ALL required courses. Applicants for admission will be ranked based upon prerequisites, admission testing scores, and overall GPA. All traditional AASN applicants must have CNA certification from Arkansas Office of Long Term Care or an equivalent state recognized CNA certification. All LPN to AASN applicants must have an unencumbered nursing license. |
| **Online LPN To Associate of Applied Science in Nursing**  April 15 for admission to the Fall semester for Online LPN to AASN students. Applicants must complete required prerequisite support courses with a cumulative GPA of 2.5 or better. A “C” or better must be earned in ALL required courses. All Online LPN to AASN applicants must have an unencum- bered nursing license and MUST be residents of the state of Arkansas. |
| **Dietetics - Bachelor of Science**  April 1 after sophomore year for admission in Fall semester.  In order for students to apply for admission into the Coordinated Program in Dietetics, they must meet the following conditions: cumulative GPA of 2.8 on a 4.0 scale of all college work attempted; English proficiency requirements, if foreign born; completion of program prerequisites with a minimum grade of “C” required in all courses; complete HESI A2 admission exam.  Class size is limited due to the availability of supervised practice sites. All applicants may not  be accepted into the program. |
| ~~Occupational and Environmental Safety and Health – Bachelor of Science~~~~Students wishing to pursue the Bachelor of Science in Occupational and Environmental Safety and Health (OESH) must apply to Arkansas State University and meet all admission requirements established by the university.~~ ~~Students must apply and be accepted into the program in order to begin upper level OESH classes. All general education and support courses must be completed with a grade of “C” or better.~~ |
| **Occupational Therapist Assistant - Associate of Applied Science**  Students must apply for admission into the Occupational Therapy Assistant program by March 1 for Fall enrollment. Prior to admission into the program students must complete 28 prerequisite course hours with a minimum grade of “B” required in all prerequisite courses. |
| **Physical Therapist Assistant - Associate of Applied Science**  Students are encouraged to declare as Physical Therapist Assistant (PTA) majors. Students may apply to the PTA program during the spring semester of the year in which they plan to start the program. Application deadline is March 1 of each year. |
| **Doctor of Physical Therapy**  A-State does offer the Doctor of Physical Therapy degree (DPT). Deadlines for application can be obtained by contacting the program office at (870) 972-3591. |
| **Social Work — Bachelor of Social Work**  Students must be admitted to the program before they will be allowed to take Social Work major courses. Students must have a minimum of 45 hours with a GPA of at least 2.75 overall. Generally, students will be admitted during the second semester of their sophomore year. Consideration for admission to the program will be in the spring semester. Specific due dates for materials will be posted on the notice board outside the departmental office. Students should follow the criteria in the Social Work Student Handbook available on the web. |

Page 399 Before

**Occupational and Environmental Safety**

**and Health Program**

*Assistant Professor Julie King, Program Director*

The program in Occupational and Environmental Safety and Health will provide a comprehensive and quality education to students wishing to become occupational safety or environmental health practitioners in a variety of industries represented in the lower Mississippi Delta region, the state of Arkansas, and beyond. The program curriculum will encompass a wide variety of basic areas of study including science, mathematics, statistics, and communication followed by more specialized coursework in occupational safety and environmental health topics. Students will also have the opportunity to gain relevant experience in partnership with community private or public sector industry in an internship in their senior year. Upon completion of this program, graduates will be able to enter their respective fields as general practitioners and be prepared to complete certification exams necessary for career advancement. This program will give students the necessary background to develop and lead occupational and environmental safety and health programs and aid organizations in maintaining compliance with applicable environmental, health and industry safety regulations.

**PROGRAM PREREQUISITES**

1. Completion of the A-State admission process with acceptance

~~2. General education requirements must be complete~~

~~3. Completion of program support coursework with a “C” average or better.~~

# 2. Minimum GPA of 2.0 on all transfer work

**PROBATION, RETENTION, AND READMISSION**

Refer to Probation, Retention and Readmission Policies in the College of Nursing and Health Professions.

**Page 400 Before**

MAJOR IN OCCUPATIONAL AND ENVIRONMENTAL SAFETY AND HEALTH

|  |  |
| --- | --- |
| **University Requirements:** |  |
| See University General Requirements for Baccalaureate degrees (p. 47) |  |
| **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. 84)  **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 Laboratory BIO 2013 and BIO 2011 Biology of the Cell and Laboratory~~*  BIO 2201 and BIO 2203 Human Anatomy and Physiology I and Laboratory CHEM 1041 and CHEM 1043 Fundamental Concepts of Chemistry and Laboratory OR CHEM 1011 and CHEM 1013 General Chemistry I and Laboratory *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 |
| ~~DPEM 3503, Principles of Disaster Preparedness and Emergency Management~~ | ~~3~~ |
| OESH 3323, Occupational Illnesses | 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 4633, Environmental Law and Administration~~ | ~~3~~ |
| **Sub-total** | **~~58~~ 52** |

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**MAJOR IN OCCUPATIONAL AND ENVIRONMENTAL SAFETY AND HEALTH**

|  |  |
| --- | --- |
| Program Electives (Choose 3) |  |
| OESH 3123, Issues in Industrial Hygiene | 3 |
| OESH 4203, Principles of Food Safety and Sanitation | 3 |
| OESH 4343, Process Safety | 3 |
| OESH 4413, Fire Safety and Prevention | 3 |
| Sub-Total | 9 |
| **Required Support Courses:**  *~~Prior to beginning the junior year, students must complete the following courses.~~* | **Sem. Hrs.** |
| ~~BIO 2203, Anatomy and Physiology I~~ | ~~3~~ |
| **Select one of the following:**  BIO 2101 **AND** BIO 2103, Microbiology and Lab for Nursing and Allied Health or BIO 4104, Microbiology | 4 |
| CHEM 1052 Fundamental Concepts of Organic and Biochemistry | 2 |
| ~~CHEM 1023~~ **~~AND~~** ~~CHEM 1021, General Chemistry II and Lab~~ | ~~4~~ |
| ~~CHEM 3103~~ **~~AND~~** ~~CHEM 3101, Organic Chemistry and Lab~~ | ~~4~~ |
| ENG 3063, Writing for STEM | 3 |
| DPEM 3503 Principles of Disaster Preparedness and Emergency Management | 3 |
| ~~PHYS 2133, Survey of Physics for the Health Professions~~ | ~~3~~ |
| POSC 4633 Environmental Law and Administration | 3 |
| STAT 3233, Applied Statistics I | 3 |
| **Sub-total** | ~~24~~ 18 |
| Electives | 3 |
| **Total Required Hours:** | **120** |

**BEFORE**

**Page 641**

JULIE KING, 2020 Assistant Professor of Occupational & Environmental Safety

B.S., Ouachita Baptist University

M.S., University of Houston-Clear Lake

~~D.S.~~ Ph.D., Texas A&M University

**After**

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| **2nd Degree Accelerated BSN**  March 15 for August Interim enrollment. A baccalaureate degree in another discipline plus all major required support courses must be completed by the end of the Spring semester.  Students seeking readmission, advance standing or transfer credit for nursing courses must be aware that nursing knowledge changes rapidly. Therefore, if three or more years have elapsed since the previous education experience, students may be required to meet additional requirements before progression in a specific nursing program. |
| **RN to BSN Online**  To facilitate movement through the BSN curriculum for students who have previously completed an AASN or Diploma program, a specially designed track has been developed for registered nurses who have demonstrated clinical proficiency. This track is fully online and may be completed part- or full-time. The clinical capstone component will be individualized based upon the applicant and will utilize a local clinical facilitator. The length of study depends upon previous college credits and the courses needed to fulfill BSN requirements. Most RNs with an associate degree can complete the BSN program in two years or less of full-time study. |
| **Associate of Applied Science in Nursing**  June 7 for admission to the Fall semester for LPN to AASN students at campus site and distance- learning sites; October 1 and June 7 for transfer/readmission for subsequent semester. Deadline for traditional AASN program at the Mountain Home and West Memphis campuses is October 1st. Ap- plicants must complete required prerequisite support courses with a cumulative GPA of 2.0 or better. A “C” or better must be earned in ALL required courses. Applicants for admission will be ranked based upon prerequisites, admission testing scores, and overall GPA. All traditional AASN applicants must have CNA certification from Arkansas Office of Long Term Care or an equivalent state recognized CNA certification. All LPN to AASN applicants must have an unencumbered nursing license. |
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**After**

**Occupational and Environmental Safety**

**and Health Program**

*Assistant Professor Julie King, Program Director*

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**PROGRAM PREREQUISITES**

1. Completion of the A-State admission process with acceptance

# Minimum GPA of 2.0 on all transfer work

**PROBATION, RETENTION, AND READMISSION**

Refer to Probation, Retention and Readmission Policies in the College of Nursing and Health Professions.

**AFTER**

**PAGE 400-401**

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. 47) |  |
| **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. 84)  **Students with this major must take the following:** *BIO 2201 and BIO 2203 Human Anatomy and Physiology I and Laboratory**CHEM 1041 and CHEM 1043 Fundamental Concepts of Chemistry and Laboratory OR CHEM 1011 and CHEM 1013 General Chemistry I and Laboratory* *COMS 1203, Oral Communication (Required Departmental Gen. Ed. Option)*  *MATH 1023, College Algebra or MATH course that requires MATH 1023 as a prerequisite* | **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 | 3 |
| OESH 3303, Water, Wastewater, Solid and Hazardous Waste Treatment | 3 |
| OESH 3313, Epidemiology | 3 |
| OESH 3323, Occupational Illnesses | 3 |
| OESH 4003, OESH Internship | 3 |
| OESH 4013, OSHA Standards and Practices | 3 |
| OESH 4113, Environmental Health and Safety Management | 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 |
| Sub-total | 52 |
| Program Electives (Choose 3) |  |
| OESH 3123, Issues in Industrial Hygiene | 3 |
| OESH 4203, Principles of Food Safety and Sanitation | 3 |
| OESH 4343, Process Safety | 3 |
| OESH 4413, Fire Safety and Prevention | 3 |
| Sub-Total | 9 |
| Required Support Courses: | Sem. Hrs. |
| Select one of the following:  BIO 2101 AND BIO 2103, Microbiology and Lab for Nursing and Allied Health or BIO 4104, Microbiology | 4 |
| CHEM 1052, Fundamental Concepts of Organic and Biochemistry | 2 |
| DPEM 3503, Principles of Disaster Preparedness and Emergency Management | 3 |
| ENG 3063, Writing for STEM | 3 |
| POSC 4633, Environmental Law and Administration | 3 |
| STAT 3233, Applied Statistics I | 3 |
| Sub-total | 18 |
| Electives | 3 |
| Total Required Hours: | 120 |

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**After**

JULIE KING, 2020 Assistant Professor of Occupational & Environmental Safety

B.S., Ouachita Baptist University

M.S., University of Houston-Clear Lake

Ph.D., Texas A&M University

**Appendix A, 8-Semester Plan**

(**Referenced in #2** - **Undergraduate Proposals Only)**

*Instructions: Please identify new courses in italics*.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Arkansas State University-Jonesboro**  **Degree: Bachelors**  **Major: Occupational and Environmental Safety and Health**  **Year: 2023** | | | | | | | | |
| Students requiring developmental course work based on low entrance exam scores (ACT, SAT, ASSET, COMPASS) may not be able to complete this program of study in eight (8) semesters. Developmental courses do not count toward total degree hours. **Students having completed college level courses prior to enrollment will be assisted by their advisor in making appropriate substitutions. In most cases, general education courses may be interchanged between semesters.** A minimum of 45 hours of upper division credit (3000-4000 level) is required for this degree. | | | | | | | | |
| **Year 1** | | | |  | **Year 1** | | | |
| **Fall Semester** | | | |  | **Spring Semester** | | | |
| **Course No.** | **Course Name** | **Hrs** | **Gen Ed** |  | **Course No.** | **Course Name** | **Hrs** | **Gen Ed** |
| UC 1013 | FYE Making Connections | 3 | X |  | ENG 1013 | English Composition II | 3 | X |
| BIO 2203 | Human Anatomy and Physiology | 3 | X |  | CHEM 1043 | Fundamentals of Chemistry | 3 | X |
| BIO 2201 | Human Anatomy and Physiology Lab | 1 | X |  | CHEM 1041 | Fundamentals of Chemistry Lab | 1 | X |
| ENG 1003 | English Composition I | 3 | X |  | COMS 1203 | Oral Communications | 3 | X |
| MATH 1023 | College Algebra | 3 | X |  |  | Social Science Elective | 3 | X |
|  | Social Science Elective | 3 | X |  |  | Social Science Elective | 3 | X |
| **Total Hours** |  | **16** |  |  | **Total Hours** |  | **16** |  |
| **Year 2** | | | |  | **Year 2** | | | |
| **Fall Semester** | | | |  | **Spring Semester** | | | |
| **Course No.** | **Course Name** | **Hrs** | **Gen Ed** |  | **Course No.** | **Course Name** | **Hrs** | **Gen Ed** |
| CHEM 1052 | Fundamental Concepts of Organic and Biochemistry | 2 |  |  | BIO 2103 | Microbiology for the Nursing and Allied Health | 3 |  |
| DPEM 3503 | Principles of Disaster Preparedness and Emergency Management | 3 |  |  | BIO 2101 | Microbiology for the Nursing and Allied Health Laboratory | 1 |  |
| OESH 3013 | Fundamentals of Occupational Health and Safety | 3 |  |  | OESH 3023 | Principles of Environmental Health | 3 |  |
|  | Humanities Elective | 3 |  |  | STAT 3233 | Applied Statistics I | 3 |  |
|  | Elective | 3 |  |  |  | Fine Arts Elective | 3 |  |
|  |  |  |  |  |  |  |  |  |
| **Total Hours** |  | **14** |  |  | **Total Hours** |  | **13** |  |
| **Year 3** | | | |  | **Year 3** | | | |
| **Fall Semester** | | | |  | **Spring Semester** | | | |
| **Course No.** | **Course Name** | **Hrs** | **Gen Ed** |  | **Course No.** | **Course Name** | **Hrs** | **Gen Ed** |
|  | Program elective | 3 |  |  | OESH 3203 | Control of Occupational Hazards | 3 |  |
| ENG 3063 | Writing for STEM | 3 |  |  | OESH 3223 | Industrial Hygiene Sampling and Analysis | 3 |  |
| OESH 3103 | Recognition of Occupational Hazards | 3 |  |  | POSC 4633 | Environmental Law and Administration | 3 |  |
| OESH 3113 | Toxicology | 3 |  |  | OESH 3303 | Water, wastewater, solid and hazardous waste management | 3 |  |
| OESH 3323 | Occupational Illnesses | 3 |  |  | OESH 3313 | Epidemiology | 3 |  |
| **Total Hours** |  | **15** |  |  | **Total Hours** |  | **15** |  |
| **Year 4** | | | |  | **Year 4** | | | |
| **Fall Semester** | | | |  | **Spring Semester** | | | |
| **Course No.** | **Course Name** | **Hrs** | **Gen Ed** |  | **Course No.** | **Course Name** | **Hrs** | **Gen Ed** |
| OESH 4003 | Internship | 3 |  |  | OESH 4313 | Ergonomics | 3 |  |
| OESH 4013 | OSHA Standards and Practices | 3 |  |  | OESH 4323 | Air Pollution | 3 |  |
| OESH 4113 | Environmental Health and Safety management | 3 |  |  | OESH 4401 | Senior Seminar | 1 |  |
|  | Program elective | 3 |  |  | OESH 4213 | Construction Safety | 3 |  |
| OESH 4303 | Environmental Risk Assessment | 3 |  |  |  | Program Elective | 3 |  |
|  |  |  |  |  | OESH 4223 | Accident Investigation and Analysis | 3 |  |
| **Total Hours** |  | **15** |  |  | **Total Hours** |  | **16** |  |
| **Total Jr/Sr Hours \_70\_\_ Total Degree Hours \_120\_\_** | | | | | | | | |
| **Graduation Requirements:** | | | | | | | | |