

Bachelor of Science.....Major Code EH02 or EH04 (Distance Learning Track)

Environmental Health and Safety Major

Total minimum credit hours 120

The following four (4) requirements (General Education, EHAC Basic Science & Math, EHS Semester Block Courses, and Electives must be met for either the on campus track or the distance learning track to earn the BS degree in EHS:

1) General Education Requirements (GER) of MSSU must be met for either track:

On campus students, GE CORE 42 Requirements total hours:.....42

On campus GE CORE 42 Requirements, not including the 10 hours of the basic science & math courses 32*

UE 100 First Year Experience..... 1**

Distance students must earn the equivalent of MSSU on campus GER courses. Most GER courses are available from MSSU by distance learning with the exception of chemistry or physics

2) EHAC Basic Science & Math Requirements must be met for either track, the minimum hours include:

- Biology with laboratory - at least 3 semester hours, 5 quarter hours.
- Microbiology with laboratory at least 3 semester hours, 5 quarter hours
- General Chemistry with laboratories – at least a total of 6 semester hours or 10 quarter hours
- Organic Chemistry with laboratory – at least a total of 3 semester hours or 5 quarter hours.
- Physics – at least 3 semester hours or 5 quarter hours.
- Additional Basic Science – (at least 6 semester hours or 10 quarter hours), basic sciences must total at least 24 hours
- College Algebra (at least 3 hours or 5 quarter hours) or higher level

Note this list of basic science and math courses is subject to periodic change by EHAC.

EHAC Basic Science & Math may be met by taking courses off campus: 27 hours minimum

The EHAC requirements may be met with lower division 100 or 200 level courses. The EHAC science and math courses may be transferred from other colleges or universities offered on campus or online. The student should email the MSSU EHS Director prior to enrollment for EHAC science and math at other colleges or universities to affirm that the course meets EHAC requirements. Currently, MSSU only offers BIO 101 General Biology and MATH 130 College Algebra for the above list by distance learning meaning online students will have to obtain the other course requirements from other institutions.

How the above EHAC Basic Science & Math may be met by taking courses on MSSU's campus hours: 32-34 hours

BIO/~~EH~~ 101 General Biology*4 EH 101 is gone, EH 107 is 3 hrs no lab

OR

BIO 108 Principles of Biology I *3 was BIO 110

BIO 109 Principles of Biology I Lab*1

OR

BIO 121 Human Anatomy & Physiology I*4

BIO 231 General & Medical Microbiology5

CHEM 140 General Chemistry I*3 was CHEM 151 5 cr hrs

CHEM 141 General Chemistry I Lab*1

CHEM 142 General Chemistry II5 was CHEM 152

CHEM 301 Organic Chemistry I5

OR

CHEM 310 Environmental Chemistry (5)

PHYS 150 Environmental Physics (5)4-5

OR

PHYS 160 Elementary College Physics I (4) (was PHYS 151)

MATH 140 Algebra and Trigonometry (5)5-6

OR

MATH 130/135 College Algebra (3) AND Trigonometry*(3)6

* BIO 101 or BIO 108/109 or BIO 121 and CHEM 140 satisfy CORE 42 area 3A&B (7 hours), required math satisfies CORE 42 area 4 (3 hours)

**Degree Requirement H, may also be met by HNRS 101 (2 credit hours)

EHAC Basic Science & Math for the distance student may be met by, minimum hours: 24+

EHAC required science and math courses may be taken at a nearby college / university campus or by distance learning. The student should email the MSSU EHS Director prior to enrollment to determine if the course meets EHAC requirements. MSSU currently offers the following basic science and math courses by distance learning: BIO/EH 101 General Biology, MATH 130 College Algebra and MATH 135 Trigonometry.

3) Environmental Health & Safety Semester Block Course Requirements are met by either on campus or distance track hours: 44

On Campus Track, hours:.....44

EH Semester Block 1 (Fall Even) 10 cr. hrs. total

EH 373 Solid & Hazardous Waste Mgmt.....3

EH 374 Industrial Hygiene Sampling & Management3

EH 375 Disease Vector Control.....1

EH 376 Water Quality Management.....3

EH Semester Block 2 (Spring Odd)..... 11 cr. hours total

EH 370 Environmental Health and Safety3

EH 379 Career Planning for EHS1

EH 380 Epidemiology3

EH 410 Hazardous Incident Management1

EH 481 Environmental Risk and Safety Management3

EH Semester Block 3 (Fall Odd)..... 12 cr. hours total

EH 311 Soil Morphology & Sewage Systems3

EH 377 Food Safety3

EH 378 Occupational Health & Safety.....3

EH 382 Epidemiological Statistics1

EH 411 Hazardous Material Safety2

EH Semester Block 4 (Spring Even)9 cr. hrs. total

EH 312 Environmental Biology.....3

EH 371 Environmental Toxicology3

EH 372 Environmental Regulations.....3

EH 495 Field Experience in EH & Safety, any semester2

Distance Track, hours:.....44

EH Semester Block 1 (Fall, Even) 12 cr. hrs. total

EH 370 Environmental Health & Safety**3

EH 377 Food Safety3

EH 378 Occupational Health & Safety.....3

EH 380 Epidemiology**3

EH Semester Block 2 (Spring, Odd)..... 11 cr. hrs. total

EH 371 Environmental Toxicology3

EH 373 Solid & Hazardous Waste Management3

EH 375 Disease Vector Control.....1

EH 376 Water Quality Management3

EH 382 Epidemiology Statistics.....1

EH Semester Block 3 (Fall, Odd).....9 cr. hours total

EH 312 Environmental Biology.....3

EH 372 Environmental Regulations.....3

EH 374 Industrial Hygiene Sampling & Management 3

EH Semester Block 4 (Spring, Even) 10 cr. hours total

EH 311 Soil Morphology & Sewage Systems3

EH 379 Career Planning for EHS1

EH 410 Hazardous Incident Management1

EH 411 Hazardous Material Safety2

EH 481 Environmental Risk and Safety Management3

EH 495 Field Experience in EH & Safety, any semester2

4) Elective Courses (additional hours to attain the total of 120 credit hours for the degree)

Elective courses should complement the needs of an EHS professional or graduate school. See your EHS advisor for suggestions on elective courses.

On Campus student elective hours 10-12 was7-8

Distance student elective hours will vary depending upon the number of hours needed to obtain the GER and EHAC basic science & math requirements.

*Required to get into MSSU CHEM 140/141 ~~151~~ & PHYS 150(no longer gen ed) or PHYS 160 ~~151~~.

**EH 370 and EH 380 are taught each fall and spring semester, either on campus and/or by distance; EH 370 is taught each summer semester by distance

Updated 4/5/18 to include CORE 42 and course changes. Includes Mike Fletcher's changes 4/6/18.