BIOMEDICAL HEALTH SCIENCES
PRE-MEDICINE CONCENTRATION
College of Health and Human Sciences
BMHS-BS
BMHS – PMED
120 credits

Student: ___________________________________________ PUID: ________________________________ Catalog Term: Fall 2024

Additional Majors: __________________________________________________ Minors: __________________________________________________

Major Requirements (67 credits)

___ (3) BCHM 30700 Biochemistry or CHM 33900 Biochemistry: A Molecular Approach
___ (4) BIOL 11000 Fundamentals of Biology I [Satisfies 1 Science Core Course]
___ (4) BIOL 11100 Fundamentals of Biology II [Satisfies 1 Science Core Course]
___ (4) BIOL 20300 Human Anatomy & Physiology
___ (4) BIOL 20400 Human Anatomy & Physiology
___ (4) CHM 11500 General Chemistry
___ (4) CHM 11600 General Chemistry
___ (3) CHM 25500 Organic Chemistry
___ (1) CHM 25501 Organic Chemistry Lab
___ (3) CHM 25600 Organic Chemistry
___ (1) CHM 25601 Organic Chemistry Lab
___ (2) HSCI 10100 Introduction to the Health Sciences Professions
___ (3) HSCI 13100 Introduction to Medical Terminology
___ (3) HSCI 20100 Principles of Public Health Science [Satisfies Science, Technology & Society Core]
___ (3) HSCI 20200 Essentials of Environmental, Occupational, and Radiological Health Sciences
___ (3) HSCI 22500 Healthcare Leadership and Safety
___ (3) MA 16010 Applied Calculus I [Satisfies Quantitative Reasoning Core]
___ (3) STAT 30100 Elementary Statistical Methods or STAT 50300 Statistical Methods for Biology

HSCI Selective – select a total of 12 credits from HSCI list

___ ( ) ____________________________  ___ ( ) ____________________________
___ ( ) ____________________________  ___ ( ) ____________________________

Pre-Medicine Concentration (25 credits)

___ (4) BIOL 22100 Introduction to Microbiology
___ (3) BIOL 23100 Biology III: Cell Structure & Function
___ (2) BIOL 23200 Laboratory in Biology III: Cell Structure & Function
___ (3) BIOL 24100 Biology IV: Genetics & Molecular Biology
___ (2) BIOL 24200 Laboratory in Biology IV: Genetics & Molecular Biology
___ (4) PHYS 22000 General Physics or PHYS 23300 Physics for Life Sciences I
___ (4) PHYS 22100 General Physics or PHYS 23400 Physics for Life Sciences II
___ (3) SOC 10000 Introductory Sociology

Other Departmental / Program Course Requirements (15-16 credits)

___ (3) COM 11400 Fundamental of Speech Communication [Satisfies Oral Communication Core]
___ (4-3) ENGL 10600 First Year Composition or ENGL 10800 Accelerated First-Year Composition [Satisfies Written Communication Core] and [Information Literacy]
___ (3) PSY 12000 Elementary Psychology [Satisfies Behavioral/Social Science Core]
___ (3) ___________________________ English Selective – select any 20000 level or above ENGL course
___ (3) ___________________________ [Humanities Core] – select from University list

Electives* (12-13 credits)

___ ( ) ____________________________  ___ ( ) ____________________________  ___ ( ) ____________________________  ___ ( ) ____________________________
___ ( ) ____________________________  ___ ( ) ____________________________  ___ ( ) ____________________________  ___ ( ) ____________________________

*An Ethics course (such as PHIL 11100 Ethics or PHIL 27000 Biomedical Ethics) is highly recommended.

All students must complete 32 credits of 30000 level or higher courses at Purdue for graduation. 120 credits required for Bachelor of Science degree

Revised 5/2024
HSCI Selective List – select 12 credits

HSCI 30500 Basics of Oncology
HSCI 31000 Imaging in Medicine
HSCI 31200 Radiation Science Fundamentals
HSCI 31300 Principles of Radiation Detection and Measurement
HSCI 33300 Introduction to Immunology
HSCI 33400 Lung Physiology and Medicine
HSCI 33500 Heart Physiology and Medicine
HSCI 33600 Eye Physiology & Disease
HSCI 34500 Introduction to Occupational and Environmental Health Sciences
HSCI 34600 Industrial Hygiene Engineering Control
HSCI 34800 Industrial Hygiene Instrumentation Techniques
HSCI 35300 Occupational Safety Management and Culture or HSCI 55300 Advanced Occupational Safety Management and Culture
HSCI 36000 Everyday Toxicology: Poisonings from Clinics to Courtrooms
HSCI 41500 Introduction to Nuclear and Radiological Source Security
HSCI 42000 Applied Anatomy for Medicine
HSCI 44700 Global Workplace Health
HSCI 54600 Advance Industrial Hygiene Control Technology
HSCI 54800 Advanced Industrial Hygiene Instrumentation Techniques
HSCI 56000 Toxicology
HSCI 56200 Analytical Toxicology and Pathology
HSCI 58000 Occupational Biomechanics and Ergonomics
HSCI 58001 Occupational Biomechanics and Ergonomics Laboratory

University Foundational Learning Outcomes List:
https://www.purdue.edu/provost/students/s-initiatives/curriculum/courses.html

A student may elect the Pass / Not-Pass (P/NP) grading option for elective courses only, unless an academic unit requires that a specific departmental course/s be taken P/NP. Students may elect to take University Core Curriculum courses P/NP; however, some major Plans of Study require courses that also fulfill UCC foundational outcomes. In such cases, students may not elect the P/NP option. A maximum of 24 credits of elective courses under the P/NP grading option can be used toward graduation requirements. For further information, students should refer to the College of Health and Human Sciences P/NP Policy.

Students are encouraged to use this advising worksheet as a resource when planning progress toward completion of degree requirements. An Academic Advisor may be contacted for assistance in interpreting this worksheet. This worksheet is not an academic transcript, and it is not official notification of completion of degree or certificate requirements. The University Catalog is the authoritative source for displaying plans of study. The student is ultimately responsible for knowing and completing all degree requirements.

PMED 5/2024
### Suggested Arrangement of Courses:

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<tr>
<th>Credits</th>
<th>Fall 1st Year</th>
<th>Prerequisite</th>
<th>Credits</th>
<th>Spring 1st Year</th>
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<td>*CHM 11600&lt;sup&gt;cc&lt;/sup&gt;</td>
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<td>* COM 11400&lt;sup&gt;cc&lt;/sup&gt;</td>
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<td>HSCI 10100</td>
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<td>HSCI 13100</td>
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<td>* MA 16010&lt;sup&gt;cc&lt;/sup&gt;</td>
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<td>CHM 25600 or may be taken concurrently</td>
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<th>Spring 4th Year</th>
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*<sup>cc</sup>* Satisfies a University Core Requirement.

Critical Course – a course that a student must be able to pass to persist and succeed in a particular major.

An Ethics course (such as PHIL 11100 Ethics or PHIL 27000 Biomedical Ethics) is highly recommended.

120 semester credits required for Bachelor of Science degree.

2.0 Graduation GPA required for Bachelor of Science degree.

The student is ultimately responsible for knowing and completing all degree requirements.

Degree Works is the knowledge source for specific requirements and completion.

Fall 2024