BIOMEDICAL HEALTH SCIENCES *or* HEALTH SCIENCES PREPROFESSIONAL
PRE-OPTOMETRY CONCENTRATION
College of Health and Human Sciences

BMHS-BS *or* HLTH-BS
BMHS – PROP *or* HSPP-PROP
120 credits

Student: _____ PUID: _____ Catalog Term: Fall 2021

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-Optometry Concentration (24 credits)

____ (4) BIOL 22100 Introduction to Microbiology
____ (3) _____**HSCI Humanities, Behavioral/Social Sciences Selective –** select from HSCI list
____ (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

Science and Health Selective – select a total of 9 credits from list

____ ( ) _____ ____ ( ) _____
____ ( ) _____ ____ ( ) _____

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 Core]**
____ (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 (13-14 credits)

____ ( )_____ ____ ( ) _____ ____ ( ) _____ ____ ( ) _____
____ ( )_____ ____ ( ) _____ ____ ( ) _____ ____ ( ) _____
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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 5/2021

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

HSCI Selective List

HSCI 30500 Basics of Oncology
HSCI 31000 Imaging in Medicine
HSCI 33300 Introduction to Immunology
HSCI 34500 Introduction to Occupational and Environmental Health Sciences
HSCI 34600 Industrial Hygiene Engineering Control
HSCI 34800 Industrial Hygiene Instrumentation Techniques
HSCI 41500 Introduction to Nuclear and Radiological Source Security
HSCI 42000 Applied Anatomy for Medicine
HSCI 56000 Toxicology
HSCI 56200 Analytical Toxicology and Pathology
HSCI 58000 Occupational Safety and Ergonomics
HSCI 58001 Occupational Biomechanics and Ergonomics Laboratory

HSCI Humanities, Behavioral/Social Sciences Selectives List - select any course(s) from the following subjects:

American Sign Language (ASL)
Anthropology (ANTH)
Arabic (ARAB)
Art & Design (AD)
Chinese (CHNS)
Classics (CLCS)
Communication (COM)
Dance (DANC)
Economics (ECON)
English (ENGL)
French (FR)
German (GER)
Greek (GREK)
Hebrew (HEBR)
History (HIST)
Italian (ITAL)
Interdisciplinary Studies (IDIS)
Japanese (JPNS)
Korean (KOR)
Latin (LTN)
Music (MUS)
Philosophy (PHIL)
Political Science (POL)
Portuguese (PTGS)
Psychology (PSY)
Russian (RUS)
Sociology (SOC)
Spanish (SPAN)
Theatre (THTR)

Science and Health Selective

Any 30000 or above offering in the following areas:

BCHM
CHM
NUTR

or

Any 20000 or above offering in the following areas:

ANSC
BIOL
ENTM
HDFS
HK
MA
PHYS
PSY
PUBH

or

Select offerings:

AGRY 32000 Genetics
AGRY 32100 Genetics Laboratory
ANTH 20400 Human Origins
ANTH 21200 Culture, Food & Health
ANTH 53400 Human Osteology
MA 16020 Applied Calculus II
MA 16200 Plane Analytic Geometry & Calculus II
MA 16600 Analytical Geometry & Calculus II
PHYS 17200 Modern Mechanics
VM 10200 Career in Veterinary Medicine

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

PURDUE UNIVERSITY

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120 credits

Suggested Arrangement of Courses: Fall 2021

Credits	Fall 1st Year	Prerequisite	Credits	Spring 1st Year	Prerequisite
4	*BIOL 11000[CC]		4	*BIOL 11100[CC]	BIOL 11000
4	*CHM 11500[CC]	MA 15400 or MA 15800 or ALEKS = 75	4	*CHM 11600[CC]	CHM 11500
4-3	*ENGL 10600 [CC] OR 10800[CC]		3	*COM 11400[CC]	
2	HSCI 10100	Fall only	3	HSCI 13100	
3	*MA16010[CC]	ALEKS = 75 or MA 15400 = C- or 15800 = C			
16-17			**14**		

Credits	Fall 2nd Year	Prerequisite	Credits	Spring 2nd Year	Prerequisite
4	*BIOL 20300 [CC]	Fall only	4	*BIOL 20400 [CC]	BIOL 20300
3	CHM 25500[CC]	CHM 11200 or CHM 11600	3	CHM 25600[CC]	CHM 25500
1	CHM 25501[CC]	CHM 25500 or may be taken concurrently	1	CHM 25601[CC]	CHM 25600 or may be taken concurrently
3	*HSCI 20200	Fall only 3 cr. of BIOL & CHM	3	*HSCI 20100	Spring only Classification of 03
3	*STAT 30100 or STAT 50300		3	HSCI 22500	
			2	Elective	
14			**16**		

Credits	Fall 3rd Year	Prerequisite	Credits	Spring 3rd Year	Prerequisite
3	BCHM 30700 or CHM 33900	CHM 25600	4	BIOL 22100	BIOL 11000 & CHM 11600
4	PHYS 22000 or PHYS 23300		4	PHYS 22100 or PHYS 23400	
3	HSCI Selective		3	HSCI Selective	
3	Humanities Selective	Select from University list	3	*PSY 12000	Select from HSCI list
3	Elective				
16			**14**		

Credits	Fall 4th Year	Prerequisite	Credits	Spring 4th Year	Prerequisite
3	Science & Health Selective		3	Science & Health Selective	
3	Science & Health Selective		3	HSCI HBSS Selective	Select from HSCI list
3	HSCI Selective		3	HSCI Selective	
3	English Selective	Select any 20000 or above ENGL course	3	Elective	
3	Elective		2-3	Elective	
15			**14-15**		

*Satisfies a University Core Requirement.

[CC] 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