

# BSHS - PRE-PHYSICAL THERAPY TRACK

Students enrolled in the Pre-Physical Therapy Track must complete the coursework listed under curriculum requirements to earn the BSHS degree through the School of Nursing and Health Studies (SONHS). Students should meet with an academic advisor in the Office of Student Services (OSS) ([http://www.miami.edu/sonhs/index.php/sonhs/office\\_of\\_student\\_services/](http://www.miami.edu/sonhs/index.php/sonhs/office_of_student_services/)) to discuss any questions related to their degree requirements.

## Curriculum Requirements

Code	Title	Credit Hours
<b>Areas of Proficiency</b>		
English Composition		
ENG 105	English Composition I	3
ENG 106	English Composition II	3
Mathematics & Computer Science		
Calculus: MTH 141, MTH 161, or MTH 171		4
Computer Science: 1 CSC or BTE course		3
Statistics: HCS 202 or other approved statistics course		3
<b>Areas of Knowledge</b>		
Arts & Humanities		9
People & Society		9
Science, Technology, Engineering, and Mathematics (STEM)*		0
<b>Major</b>		
BIL 150 & BIL 151	General Biology and General Biology Laboratory	5
BIL 160 & BIL 161	Evolution and Biodiversity and Evolution and Biodiversity Laboratory	5
BIL 250	Genetics	3
BIL 255	Cellular and Molecular Biology	3
BPH 306	Principles of Nutrition	3
HCS 212 & HCS 213	Human Anatomy and Human Anatomy Laboratory	4
HCS 215 & HCS 216	Principles of Systemic Physiology and Principles of Systemic Physiology Laboratory (**)	4
PSY 230 or PSY 240	Child and Adolescent Development Psychopathology	3
Elective***		3
Choose one physics option below:		10-11
College Physics:		
PHY 101 & PHY 106	College Physics I and College Physics Laboratory I	
PHY 102 & PHY 108	College Physics II and College Physics Laboratory II	
University Physics for the Life Sciences:		
PHY 201 & PHY 106	University Physics I for the Sciences and College Physics Laboratory I	
PHY 202 & PHY 108	University Physics II for the Sciences and College Physics Laboratory II	
University Physics:		
PHY 221	University Physics I	
PHY 222 & PHY 224	University Physics II and University Physics II Lab	
PHY 223 & PHY 225	University Physics III and University Physics III Lab	
Choose one chemistry option below:		8-16
Chemistry for Life Sciences:		

CHM 103 & CHM 105	Chemistry for the Health Sciences I and Chemistry for the Health Sciences I (Laboratory)	
CHM 104 & CHM 106	Chemistry for the Health Sciences II and Chemistry for the Health Sciences II (Laboratory)	
Chemistry for the Biosciences:****		
CHM 121 & CHM 113	Principles of Chemistry and Chemistry Laboratory I	
CHM 221 & CHM 205	Introduction to Structure and Dynamics and Chemical Dynamics Laboratory	
CHM 222 & CHM 206	Organic Reactions and Synthesis and Organic Reactions and Synthesis Laboratory	
<b>Minor</b>		<b>12-19</b>
<b>Advanced Writing and Communication Skills*****</b>		<b>0</b>
<b>Electives*****</b>		<b>23-7</b>
<b>Total Credit Hours</b>		<b>120</b>

- \* The health science major may be used to fulfill this cognate area.
- \*\* HCS 216 is not required but it is highly recommended.
- \*\*\* Students may fulfill this requirement by taking BMB 401 or any BIL, BPH, or HCS course for at least 3 credits at the 200 level or above (except for BPH 202, HCS 202, and NUR 202).
- \*\*\*\* CHM 222 and CHM 206 are recommended but not required for this track.
- \*\*\*\*\* Students must take at least five designated writing-intensive courses to complete this requirement; unless students choose to take additional credits to complete this requirement, it is highly recommended students select courses that are designated as writing-intensive and will double count toward this area and their other requirements.
- \*\*\*\*\* The number of electives students take may vary due to differences in placement scores, transfer credits, course and cognate selections, etc.

**This is only a sample.** There are numerous ways students can create plans of study for the Pre-Physical Therapy Track. Students should feel empowered to use the information listed in the Academic Bulletin and the Student Handbook ([http://www.miami.edu/sonhs/index.php/sonhs/current\\_students/student\\_handbooks/](http://www.miami.edu/sonhs/index.php/sonhs/current_students/student_handbooks/)) to take charge of their education, pursue their own academic interests, and create their own, unique plans of study.

The School of Nursing and Health Studies (SONHS) **recommends students create their own plan of study** that accounts for their ENG and MTH placement scores and incorporates their major, minor, and cognate interests. Once students draft their initial plan of study, they are encouraged to meet with an academic advisor in the Office of Student Services (OSS) ([http://www.miami.edu/sonhs/index.php/sonhs/office\\_of\\_student\\_services/](http://www.miami.edu/sonhs/index.php/sonhs/office_of_student_services/)) to review their plan, address any questions or concerns, discuss areas for improvement, and brainstorm ways to integrate research experiences, study abroad opportunities, global initiatives, graduate school requirements, and career preparation experiences.

The sample plan of study listed below is based on the following ENG and MTH placement information and major, minor, and cognate selections:

- **ENG placement:** ENG 105
- **MTH placement:** MTH 107
- **Major(s):** Health Science, Pre-Physical Therapy Track
- **Minor(s):** Chemistry
- **Cognates**
  - Art & Humanities: American Literature (RAU = English)
  - People & Society: Foundations of Behavior for Prehealth Professions (RAU = Anthropology)
  - Science, Technology, Engineering, and Mathematics (STEM): Health Science major (RAU = Nursing & Health Studies)

## Sample Plan of Study

Course	Title	Credit Hours
<b>Freshman Year</b>		
<b>Fall</b>		
BIL 150 & BIL 151	General Biology and General Biology Laboratory	5
ENG 105	English Composition I	3
MTH 107	Precalculus Mathematics I	3
UMX 100	The University of Miami Experience	0

Elective		3
Elective		3
	<b>Credit Hours</b>	<b>17</b>
<b>Spring</b>		
BIL 160 & BIL 161	Evolution and Biodiversity and Evolution and Biodiversity Laboratory	5
ENG 106	English Composition II	3
MTH 108	Precalculus Mathematics II	3
PSY 110	Introduction to Psychology	3
Elective		3
	<b>Credit Hours</b>	<b>17</b>
<b>Sophomore Year</b>		
<b>Fall</b>		
BIL 250	Genetics	3
CHM 121 & CHM 113	Principles of Chemistry and Chemistry Laboratory I	5
MTH 161	Calculus I	4
PSY 240	Psychopathology	3
	<b>Credit Hours</b>	<b>15</b>
<b>Spring</b>		
BIL 255	Cellular and Molecular Biology	3
CHM 221 & CHM 205	Introduction to Structure and Dynamics and Chemical Dynamics Laboratory	5
ENG 214	American Literature II (W; counts for Arts & Humanities cognate)	3
HCS 202	Introductory Statistics in Health Care	3
	<b>Credit Hours</b>	<b>14</b>
<b>Junior Year</b>		
<b>Fall</b>		
BPH 306	Principles of Nutrition	3
CHM 222 & CHM 206	Organic Reactions and Synthesis and Organic Reactions and Synthesis Laboratory	6
ENG 389	The Sixties: Literature, History, and Culture of the 1960s (W; counts for Arts & Humanities cognate)	3
PHY 101 & PHY 106	College Physics I and College Physics Laboratory I	5
	<b>Credit Hours</b>	<b>17</b>
<b>Spring</b>		
APY 202	Principles of Cultural Anthropology (counts for People & Society cognate)	3
PHY 102 & PHY 108	College Physics II and College Physics Laboratory II	5
Major Elective (*)		3
Elective		3
	<b>Credit Hours</b>	<b>14</b>
<b>Senior Year</b>		
<b>Fall</b>		
APY 413	Medical Anthropology (counts for People & Society cognate)	3
ENG 260	African-American Literature (W; counts for Arts & Humanities cognate)	3
HCS 212 & HCS 213	Human Anatomy and Human Anatomy Laboratory	4
Elective (W)		3
	<b>Credit Hours</b>	<b>13</b>
<b>Spring</b>		
CSC 115	Python Programming for Everyone	3

HCS 215 & HCS 216	Principles of Systemic Physiology and Principles of Systemic Physiology Laboratory (**)	4
PSY 250	Cognitive Psychology (counts for People & Society cognate)	3
Elective (W)		3
	<b>Credit Hours</b>	<b>13</b>
	<b>Total Credit Hours</b>	<b>120</b>

W Course is designated as writing-intensive

\* Students may fulfill this requirement by taking BMB 401 or any BIL, BPH, or HCS course for at least 3 credits at the 200 level or above (except for BPH 202, HCS 202, and NUR 202).

\*\* HCS 216 is not required but it is highly recommended.

## Mission

The Mission of the School of Nursing and Health Studies is to educate students and support faculty committed to excellence in the art and science of nursing and health studies through creating and disseminating health knowledge and developing culturally competent leaders to provide safe service to our community, the nation and the world. The University of Miami School of Nursing and Health Studies offers courses leading to the degree of Bachelor of Science in Health Science. Baccalaureate education provides the foundation for further education in specialized health professional fields. Pre-professional tracks include Pre- physical therapy, Pre-pharmacy, Pre-medicine, Pre-occupational therapy, Health Science/Health Management and Policy, and Health Science General.

## Goals

### Student Learning Outcomes

- Students will be able to demonstrate advanced knowledge in human anatomy.
- Students will be able to demonstrate knowledge of statistical analyses.
- Students will demonstrate knowledge related to the importance of nutrition in human health and well-being.