

# BACHELOR OF SCIENCE IN HEALTH SCIENCE

## Overview

Students must complete the coursework listed on the **Curriculum** tab 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) (<https://www.sonhs.miami.edu/admissions-and-student-services/office-of-student-services/>) to discuss any questions related to their degree requirements.

## Curriculum Requirements - General Track

Code	Title	Credit Hours
<b>General Education Requirements</b>		
Written Communication Skills:		
WRS 105	First-Year Writing I	3
WRS 106 or WRS 107 or ENG 106	First-Year Writing II First-Year Writing II: STEM Writing About Literature and Culture	3
Quantitative Skills:		
Calculus: MTH 141, MTH 161, or MTH 171		4
Areas of Knowledge:		
Arts & Humanities Cognate		9
People & Society Cognate		9
STEM Cognate (9 credits) (fulfilled through the major)*		
<b>Computer Science</b>		
1 CSC or BTE course		3
<b>Statistics</b>		
HCS 202 or other approved statistics course		3
<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	Principles of Systemic Physiology	3
Major 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>Electives*****</b>		<b>27-11</b>
<b>Total Credit Hours</b>		<b>120</b>

\* The health science major may be used to fulfill this cognate area.

\*\* 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 (<https://bulletin.miami.edu/search/?P=CHM%20222>) and CHM 206 (<https://bulletin.miami.edu/search/?P=CHM%20206>) are recommended but not required for this track.

\*\*\*\* Students must take at least five designated writing-intensive courses to complete this requirement.

\*\*\*\*\*The number of electives students take may vary due to differences in placement scores, transfer credits, course and cognate selections, etc.

## Curriculum Requirements - Health Management and Policy Track

Code	Title	Credit Hours
<b>General Education Requirements</b>		
Written Communication Skills:		
WRS 105	First-Year Writing I	3
WRS 106 or WRS 107 or ENG 106	First-Year Writing II First-Year Writing II: STEM Writing About Literature and Culture	3
Quantitative Skills:		
Calculus: MTH 141, MTH 161, or MTH 171		4
Areas of Knowledge:		
Arts & Humanities Cognate		9
People & Society Cognate		9
STEM Cognate (9 credits) (fulfilled through the major)*		0
<b>Computer Science</b>		
1 CSC or BTE course		3
<b>Statistics</b>		
HCS 202	Introductory Statistics in Health Care (or other approved statistics course)	3
<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	Principles of Systemic Physiology	3
HMP 270	Introduction to Health Management and Policy	3
HMP 320 or HMP 350	Health Care Demand and Supply Production and Consumption of Health and Health Care	3
HMP 460	Health Care Law and Ethics	3
HMP Elective**		3
Major Elective***		3
Major Elective***		3
Major Elective***		3
Major 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>0</b>
<b>Advanced Writing and Communication Skills*****</b>		<b>0</b>
<b>Electives*****</b>		<b>18-9</b>
<b>Total Credit Hours</b>		<b>120</b>

\* The health science major may be used to fulfill this cognate area.

\*\* Students may fulfill this requirement by taking  
HMP 310, HMP 388, HMP 498, HMP 499, INS 570, INS 571, INS 572, INS 573, SOC 321

\*\*\* Students may fulfill this requirement by taking BMB 401, or any 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 who complete the Health Management and Policy Track automatically complete a minor in Health Management and Policy; no additional coursework is required to complete this requirement.

\*\*\*\*Students must take at least five designated writing-intensive courses to complete this requirement.

\*\*\*\*The number of electives students take may vary due to differences in placement scores, transfer credits, course and cognate selections, etc.

## Curriculum Requirements - Pre-Med Track

Code	Title	Credit Hours
<b>General Education Requirements</b>		
Written Communication Skills:		
WRS 105	First-Year Writing I	3
WRS 106 or WRS 107 or ENG 106	First-Year Writing II First-Year Writing II: STEM Writing About Literature and Culture	3
Quantitative Skills:		
Calculus: MTH 141, MTH 161, or MTH 171		4
Areas of Knowledge:		
Arts & Humanities Cognate		9
People & Society Cognate		9
STEM Cognate (9 credits) (fulfilled through the major)*		
<b>Computer Science</b>		
1 CSC or BTE course		3
<b>Statistics</b>		
HCS 202 or other approved statistics course		3
<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
BMB 401	Biochemistry for the Biomedical Sciences	4
BPH 206	Introduction to Public Health	3
BPH 208	Introductory Epidemiology	3
BPH 306	Principles of Nutrition	3
HCS 212 & HCS 213	Human Anatomy and Human Anatomy Laboratory	4
HCS 215	Principles of Systemic Physiology	3
Complete 6 graded credits of ENG/WRS coursework**		0
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	
Chemistry for the Biosciences:		16
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>0</b>
<b>Advanced Writing and Communication Skills***</b>		<b>0</b>
<b>Electives****</b>		<b>25-24</b>
<b>Total Credit Hours</b>		<b>121</b>

\* The health science major may be used to fulfill this cognate area.

\*\* Six graded credits of WRS/ENG courses (6 credits). Creative writing courses cannot count. WRS 105 and WRS 106/WRS 107/ENG 106 may count if a grade was received.

\*\*\* Students must take at least five designated writing-intensive courses to complete this requirement.

\*\*\*\* The number of electives students take may vary due to differences in placement scores, transfer credits, course and cognate selections, etc.

## Curriculum Requirements - Pre-Occupational Therapy Track

Code	Title	Credit Hours
<b>General Education Requirements</b>		
Written Communication Skills:		
WRS 105	First-Year Writing I	3
WRS 106 or WRS 107 or ENG 106	First-Year Writing II First-Year Writing II: STEM Writing About Literature and Culture	3
Quantitative Skills:		
Calculus: MTH 141, MTH 161, or MTH 171		4
Areas of Knowledge:		
Arts & Humanities		9
People & Society		9
STEM Cognate (9 credits) (fulfilled through the major)*		
<b>Additional Requirements</b>		
Computer Science: 1 CSC or BTE course		3
Statistics: HCS 202 or other approved statistics course		3
<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 206	Introduction to Public Health	3
BPH 208	Introductory Epidemiology	3
BPH 306	Principles of Nutrition	3
BPH 317 or PSY 230	Theories in Growth and Development Child and Adolescent Development	3
PSY 110	Introduction to Psychology	3
PSY 240	Psychopathology	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
KIN 230 or HCS 217	Medical Terminology and Documentation Medical Terminology	1
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>13-0</b>
<b>Total Credit Hours</b>		<b>120-123</b>

\* The health science major may be used to fulfill this cognate area.

\*\* 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.

\*\*\*\* The number of electives students take may vary due to differences in placement scores, transfer credits, course and cognate selections, etc.

## Curriculum Requirements - Pre-Pharmacy Track

Code	Title	Credit Hours
<b>General Education Requirements</b>		
Written Communication Skills:		
WRS 105	First-Year Writing I	3
WRS 106 or WRS 107 or ENG 106	First-Year Writing II First-Year Writing II: STEM Writing About Literature and Culture	3
Quantitative Skills:		
Calculus: MTH 141, MTH 161, or MTH 171		4

<b>Areas of Knowledge</b>		
Arts & Humanities Cognate		9
People & Society Cognate		9
STEM Cognate (9 credits) (fulfilled through the major)*		
<b>Additional Requirements</b>		
Computer Science: 1 CSC or BTE course		3
Statistics: HCS 202 or other approved statistics course		3
<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
BMB 401	Biochemistry for the Biomedical Sciences	4
BPH 306	Principles of Nutrition	3
COS 211	Public Speaking	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
ECO 211	Principles of Microeconomics	3
ECO 212	Principles of Macroeconomics	3
Major Elective**		3
Microbiology:		5
MIC 301 & MIC 304	Introduction to Microbes and the Immune System and Introduction to Microbes and the Immune System (Lab)	
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	
Chemistry for the Biosciences:		16
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>		0
<b>Advanced Writing and Communication Skills***</b>		0

<b>Electives****</b>	<b>12-11</b>
<b>Total Credit Hours</b>	<b>120</b>

\* The health science major may be used to fulfill this cognate area.

\*\* Students may fulfill this requirement by taking 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).

\*\*\* Students must take at least five designated writing-intensive courses to complete this requirement.

\*\*\*\* The number of electives students take may vary due to differences in placement scores, transfer credits, course and cognate selections, etc.

## Curriculum Requirements - Pre-Physical Therapy Track

Code	Title	Credit Hours
<b>General Education Requirements</b>		
Written Communication Skills:		
WRS 105	First-Year Writing I	3
WRS 106 or WRS 107 or ENG 106	First-Year Writing II First-Year Writing II: STEM Writing About Literature and Culture	3
Quantitative Skills:		
Calculus: MTH 141, MTH 161, or MTH 171		4
<b>Areas of Knowledge</b>		
Arts & Humanities Cognate		9
People & Society Cognate		9
STEM Cognate (9 credits) (fulfilled through the major)*		
<b>Additional Requirements</b>		
Computer Science: 1 CSC or BTE course		3
Statistics: HCS 202 or other approved statistics course		3
<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
Major 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.

\*\*\*\*\* The number of electives students take may vary due to differences in placement scores, transfer credits, course and cognate selections, etc.

**These are only samples.** There are numerous ways students can create plans of study for the Bachelor of Science in Health Studies. Students should feel empowered to use the information listed in the Academic Bulletin and the Student Handbook (<https://www.sonhs.miami.edu/academics/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 WRS 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) (<https://www.sonhs.miami.edu/admissions-and-student-services/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 WRS and MTH placement information and major, minor, and cognate selections:

- **Written Communication placement:** WRS 105
- **MTH placement:** MTH 107
- **Major(s):** Health Science, General Track
- **Minor(s):** Chemistry
- **Cognates**
  - Art & Humanities: American Literature (RAU = English)
  - People & Society: Abnormal Psychology (RAU = Psychology)
  - Science, Technology, Engineering, and Mathematics (STEM): Health Science major (RAU = Nursing & Health Studies)

## Sample Plan of Study - General Track

Freshman Year		Credit Hours
<b>Fall</b>		
BIL 150 & BIL 151	General Biology and General Biology Laboratory	5
WRS 105	First-Year Writing 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
WRS 106, 107, or ENG 106	First-Year Writing II or First-Year Writing II: STEM or Writing About Literature and Culture	3
MTH 108	Precalculus Mathematics II	3
PSY 110	Introduction to Psychology (counts for People & Society cognate)	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 (counts for People & Society cognate)	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>		
PHY 102 & PHY 108	College Physics II and College Physics Laboratory II	5
PSY 260	Personality Psychology (counts for People & Society cognate)	3
Major Elective (*)		3
Elective		3
<b>Credit Hours</b>		<b>14</b>
<b>Senior Year</b>		
<b>Fall</b>		
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

Elective		3
Elective		3
	<b>Credit Hours</b>	<b>16</b>
<b>Spring</b>		
PHI 115	Social and Ethical Issues in Computing	3
HCS 215	Principles of Systemic Physiology	3
Elective (W)		3
Elective		3
	<b>Credit Hours</b>	<b>12</b>
	<b>Total Credit Hours</b>	<b>122</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)

## Sample Plan of Study - Health Management and Policy Track

Freshman Year		Credit Hours
<b>Fall</b>		
BIL 150 & BIL 151	General Biology and General Biology Laboratory	5
ECO 211	Principles of Microeconomics	3
HMP 270	Introduction to Health Management and Policy	3
WRS 105	First-Year Writing I	3
MTH 107	Precalculus Mathematics I	3
UMX 100	The University of Miami Experience	0
	<b>Credit Hours</b>	<b>17</b>
<b>Spring</b>		
BIL 160 & BIL 161	Evolution and Biodiversity and Evolution and Biodiversity Laboratory	5
ECO 212	Principles of Macroeconomics	3
WRS 106, 107, or ENG 106	First-Year Writing II or First-Year Writing II: STEM or Writing About Literature and Culture	3
MTH 108	Precalculus Mathematics II	3
PSY 110	Introduction to Psychology (counts for People & Society cognate)	3
	<b>Credit Hours</b>	<b>17</b>
<b>Sophomore Year</b>		
<b>Fall</b>		
BIL 250	Genetics	3
CHM 103 & CHM 105	Chemistry for the Health Sciences I and Chemistry for the Health Sciences I (Laboratory)	4
MTH 161	Calculus I	4
PSY 240	Psychopathology (counts for People & Society cognate)	3
Major Elective (*)		3
	<b>Credit Hours</b>	<b>17</b>
<b>Spring</b>		
BIL 255	Cellular and Molecular Biology	3
CHM 104 & CHM 106	Chemistry for the Health Sciences II and Chemistry for the Health Sciences II (Laboratory)	4
ENG 214	American Literature II (W; counts for Arts & Humanities cognate)	3
HCS 202	Introductory Statistics in Health Care	3
Major Elective (*)		3
	<b>Credit Hours</b>	<b>16</b>

<b>Junior Year</b>		
<b>Fall</b>		
BPH 306	Principles of Nutrition	3
ENG 389	The Sixties: Literature, History, and Culture of the 1960s (W; counts for Arts & Humanities cognate)	3
INS 570		3
PHY 101 & PHY 106	College Physics I and College Physics Laboratory I	5
<b>Credit Hours</b>		<b>14</b>
<b>Spring</b>		
PHY 102 & PHY 108	College Physics II and College Physics Laboratory II	5
PSY 260	Personality Psychology (counts for People & Society cognate)	3
Major Elective (*)		3
Elective (W)		3
<b>Credit Hours</b>		<b>14</b>
<b>Senior Year</b>		
<b>Fall</b>		
BSL 212	Introduction to Business Law and Ethics	3
ENG 260	African-American Literature (W; counts for Arts & Humanities cognate)	3
HCS 212 & HCS 213	Human Anatomy and Human Anatomy Laboratory	4
HMP 320	Health Care Demand and Supply	3
Elective (W)		3
<b>Credit Hours</b>		<b>16</b>
<b>Spring</b>		
CSC 115	Python Programming for Everyone	3
HCS 215	Principles of Systemic Physiology	3
HMP 460	Health Care Law and Ethics	3
Major Elective (*)		3
<b>Credit Hours</b>		<b>12</b>
<b>Total Credit Hours</b>		<b>123</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)

## Sample Plan of Study - Pre-Med Track

<b>Freshman Year</b>		
<b>Fall</b>		
BIL 150 & BIL 151	General Biology and General Biology Laboratory	5
BPH 206	Introduction to Public Health	3
MTH 107	Precalculus Mathematics I	3
WRS 105	First-Year Writing I	3
UMX 100	The University of Miami Experience	0
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

WRS 106, 107, or ENG 106	First-Year Writing II or First-Year Writing II: STEM or Writing About Literature and Culture	3
MTH 108	Precalculus Mathematics II	3
PSY 110	Introduction to Psychology (counts for People & Society cognate)	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 (counts for People & Society cognate)	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>		
BMB 401	Biochemistry for the Biomedical Sciences	4
PHY 102 & PHY 108	College Physics II and College Physics Laboratory II	5
PSY 260	Personality Psychology (counts for People & Society cognate)	3
Elective		3
<b>Credit Hours</b>		<b>15</b>
<b>Senior Year</b>		
<b>Fall</b>		
BPH 208	Introductory Epidemiology	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	Principles of Systemic Physiology	3
Elective (W)		3

Elective	3
<b>Credit Hours</b>	<b>12</b>
<b>Total Credit Hours</b>	<b>120</b>

(W) = Course is designated as writing-intensive

## Sample Plan of Study - Pre-Occupational Therapy Track

Freshman Year		Credit Hours
<b>Fall</b>		
BIL 150 & BIL 151	General Biology and General Biology Laboratory	5
BPH 206	Introduction to Public Health	3
WRS 105	First-Year Writing I	3
MTH 107	Precalculus Mathematics I	3
UMX 100	The University of Miami Experience	0
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
BPH 208	Introductory Epidemiology	3
MTH 108	Precalculus Mathematics II	3
PSY 110	Introduction to Psychology	3
WRS 106, 107, or ENG 106	First-Year Writing II or First-Year Writing II: STEM or Writing About Literature and Culture	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

BPH 317	Theories in Growth and Development	3
KIN 230	Medical Terminology and Documentation	1
PHY 102 & PHY 108	College Physics II and College Physics Laboratory II	5
<b>Credit Hours</b>		<b>12</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
Elective		3
<b>Credit Hours</b>		<b>16</b>
<b>Spring</b>		
CSC 115	Python Programming for Everyone	3
HCS 215	Principles of Systemic Physiology	3
PSY 250	Cognitive Psychology (counts for People & Society cognate)	3
Elective (W)		3
<b>Credit Hours</b>		<b>12</b>
<b>Total Credit Hours</b>		<b>120</b>

## Sample Plan of Study - Pre-Pharmacy Track

<b>Freshman Year</b>		
<b>Fall</b>		<b>Credit Hours</b>
BIL 150 & BIL 151	General Biology and General Biology Laboratory	5
MTH 107	Precalculus Mathematics I	3
WRS 105	First-Year Writing 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
WRS 106, 107, or ENG 106	First-Year Writing II or First-Year Writing II: STEM or Writing About Literature and Culture	3
MTH 108	Precalculus Mathematics II	3
PSY 110	Introduction to Psychology (counts for People & Society cognate)	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 (counts for People & Society cognate)	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>		
PHY 102 & PHY 108	College Physics II and College Physics Laboratory II	5
PSY 260	Personality Psychology (counts for People & Society cognate)	3
Major Elective (*)		3
Elective		3
<b>Credit Hours</b>		<b>14</b>
<b>Senior Year</b>		
<b>Fall</b>		
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
Elective		3
Elective		3
<b>Credit Hours</b>		<b>16</b>
<b>Spring</b>		
PHI 115	Social and Ethical Issues in Computing	3
HCS 215	Principles of Systemic Physiology	3
Elective (W)		3
Elective		3
<b>Credit Hours</b>		<b>12</b>
<b>Total Credit Hours</b>		<b>122</b>

## Plan of Study - Pre-Physical Therapy Track

<b>Freshman Year</b>		
<b>Fall</b>		<b>Credit Hours</b>
BIL 150 & BIL 151	General Biology and General Biology Laboratory	5
WRS 105	First-Year Writing 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
WRS 106, 107, or ENG 106	First-Year Writing II or First-Year Writing II: STEM or Writing About Literature and Culture	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 highly recommended but not required.

## 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 Management and Policy, and Health Science General.

## Student Learning Outcomes

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