

## BACHELOR OF SCIENCE IN HEALTH SCIENCES (BSHS) IN PHYSIOLOGY AND MEDICAL SCIENCES

**Sample** four-year plan for College Algebra as your first semester math course – this tool can help you generally understand the recommended flow of classes; however, it's always best to consult with your Academic Advisor to create a plan that is best for you!

### FIRST YEAR

FALL SEMESTER	Units	SPRING SEMESTER	Units
ENGL 101 First-Year Composition I	3	ENGL 102 First-Year Composition II	3
MATH 112 College Algebra	3	MATH 120R Pre-Calculus	4
MCB 181R Introductory Biology I	3	CHEM 151 General Chemistry I	4
MCB 181L Introductory Biology I Lab	1	T1 Gen Ed (150 or 160), or second language course	3-4
PSIO 101 Tackling Physiological Topics, or T1 Gen Ed (150 or 160),	3-4		
T1 Gen Ed (150 or 160), or second language course	3		
<b>Total Units</b>	<b>16-17</b>	<b>Total Units</b>	<b>14-15</b>

### SECOND YEAR

FALL SEMESTER	Units	SPRING SEMESTER	Units
MATH 122A + B Calculus I	5	MATH 263, BIOS 376, or ECOL 379 Biostatistics	3
CHEM 152 General Chemistry II	4	CHEM 241a Organic Chemistry Lecture	3
PSIO 201 Human Anatomy & Physiology I	4	CHEM 243a Organic Chemistry Lab	1
T1 Gen Ed (150 or 160)	3	PSIO 202 Human Anatomy & Physiology II	4
		T2 Gen Ed (300/400 level)	3
		T2 Gen Ed (300/400 level)	3
<b>Total Units</b>	<b>16</b>	<b>Total Units</b>	<b>17</b>

**\*A second language is required through second semester proficiency or higher.**

## Physiology Emphasis

### THIRD YEAR

<b>FALL SEMESTER</b>	<b>Units</b>	<b>SPRING SEMESTER</b>	<b>Units</b>
PSIO 303 Integrative Cellular Physiology	3	PSIO 305 Integrative Systems Physiology	3
PSIO 4XX lecture	3	PSIO 4XX lecture	3
CHEM 241b Organic Chemistry Lecture	3	ECOL 182R Introductory Biology II	3
CHEM 243b Organic Chemistry Lab	1	ECOL 182L Introductory Biology II Lab	1
PHYS 102 Introductory Physics I	3	PHYS 103 Introductory Physics II	3
PHYS 181 Introductory Physics I Lab	1	PHYS 182 Introductory Physics II Lab	1
<b>Total Units</b>	<b>14</b>	<b>Total Units</b>	<b>14</b>

### FOURTH YEAR

<b>FALL SEMESTER</b>	<b>Units</b>	<b>SPRING SEMESTER</b>	<b>Units</b>
PSIO 4XX lecture	3	PSIO 4XX lecture	3
PSIOM Major Elective	3	PSIOM Major Elective	3
PSIOM Major Elective	3	PSIOM Major Elective	3
BIOC 384 Foundations in Biochemistry or BIOC 385 Metabolic Biochemistry	3	UD general elective (any 300/400-level course)	3
T2 Gen Ed (300/400 level)	3	UD general elective (any 300/400-level course)	3
<b>Total Units</b>	<b>15</b>	<b>Total Units</b>	<b>15</b>

**\*120 total units required for graduation, 42 of which must be upper-division (300/400-level). Your major requirements do NOT provide you with enough upper-division unit requirements for graduation, so it's important for you to incorporate other upper-division courses into your plan.**

## Medical Sciences Emphasis

### THIRD YEAR

FALL SEMESTER	Units	SPRING SEMESTER	Units
PSIO 303 Integrative Cellular Physiology	3	PSIO 305 Integrative Systems Physiology	3
PSIO 4XX lecture	3	PSIO 4XX lecture	3
CHEM 241b Organic Chemistry Lecture	3	ECOL 182R Introductory Biology II	3
CHEM 243b Organic Chemistry Lab	1	ECOL 182L Introductory Biology II Lab	1
PHYS 102 Introductory Physics I	3	PHYS 103 Introductory Physics II	3
PHYS 181 Introductory Physics I Lab	1	PHYS 182 Introductory Physics II Lab	1
<b>Total Units</b>	<b>14</b>	<b>Total Units</b>	<b>14</b>

### FOURTH YEAR

FALL SEMESTER	Units	SPRING SEMESTER	Units
BIOC 384 Foundations in Biochemistry or BIOC 385 Metabolic Biochemistry	3	Medical Science course	3
Medical Science course	3	PSIOM Major Elective	3
PSIOM Major Elective	3	PSIOM Major Elective	3
T2 Gen Ed (300/400 level)	3	PSIOM Major Elective	3
UD general elective (any 300/400-level course)	3	UD general elective (any 300/400-level course)	3
<b>Total Units</b>	<b>15</b>	<b>Total Units</b>	<b>15</b>

**\*120 total units required for graduation, 42 of which must be upper-division (300/400-level). Your major requirements do NOT provide you with enough upper-division unit requirements for graduation, so it's important for you to incorporate other upper-division courses into your plan.**

## Exercise and Extreme Physiology Emphasis

### THIRD YEAR

FALL SEMESTER	Units	SPRING SEMESTER	Units
PSIO 303 Integrative Cellular Physiology	3	PSIO 305 Integrative Systems Physiology	3
PSIO 420 Exercise + Environmental PSIO	3	Emphasis Course	3
CHEM 241b Organic Chemistry Lecture	3	ECOL 182R Introductory Biology II	3
CHEM 243b Organic Chemistry Lab	1	ECOL 182L Introductory Biology II Lab	1
PHYS 102 Introductory Physics I	3	PHYS 103 Introductory Physics II	3
PHYS 181 Introductory Physics I Lab	1	PHYS 182 Introductory Physics II Lab	1
<b>Total Units</b>	<b>14</b>	<b>Total Units</b>	<b>14</b>

### FOURTH YEAR

FALL SEMESTER	Units	SPRING SEMESTER	Units
BIOC 384 Foundations in Biochemistry or BIOC 385 Metabolic Biochemistry	3	Emphasis course	3
Emphasis course	3	PSIOM Major Elective	3
PSIOM Major Elective	3	PSIOM Major Elective	3
PSIOM Major Elective	3	UD general elective (any 300/400-level course)	3
T2 Gen Ed (300/400 level)	3	UD general elective (any 300/400-level course)	3
<b>Total Units</b>	<b>15</b>	<b>Total Units</b>	<b>15</b>

**\*120 total units required for graduation, 42 of which must be upper-division (300/400-level). Your major requirements do NOT provide you with enough upper-division unit requirements for graduation, so it's important for you to incorporate other upper-division courses into your plan.**

## Physiological Research and Innovation Emphasis

### THIRD YEAR

FALL SEMESTER	Units	SPRING SEMESTER	Units
PSIO 303 Integrative Cellular Physiology	3	PSIO 305 Integrative Systems Physiology	3
Emphasis Core course	3	Emphasis Core course	3
CHEM 241b Organic Chemistry Lecture	3	ECOL 182R Introductory Biology II	3
CHEM 241b Organic Chemistry Lecture	1	ECOL 182L Introductory Biology II Lab	1
PHYS 102 Introductory Physics I	3	PHYS 103 Introductory Physics II	3
PHYS 181 Introductory Physics I Lab	1	PHYS 182 Introductory Physics II Lab	1
<b>Total Units</b>	<b>14</b>	<b>Total Units</b>	<b>14</b>

### FOURTH YEAR

FALL SEMESTER	Units	SPRING SEMESTER	Units
BIOC 384 Foundations in Biochemistry or BIOC 385 Metabolic Biochemistry	3	Emphasis course	3
Emphasis Core course	3	PSIOM Major Elective	3
PSIOM Major Elective	3	PSIOM Major Elective	3
PSIOM Major Elective	3	UD general elective (any 300/400-level course)	3
UD general elective (any 300/400-level course)	3	UD general elective (any 300/400-level course)	3
<b>Total Units</b>	<b>15</b>	<b>Total Units</b>	<b>15</b>

**\*120 total units required for graduation, 42 of which must be upper-division (300/400-level). Your major requirements do NOT provide you with enough upper-division unit requirements for graduation, so it's important for you to incorporate other upper-division courses into your plan.**