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
ECOL 182R Introductory Biology II	3	MCB 181R Introductory Biology I	3
ECOL 182L Introductory Biology II Lab	1	MCB 181L Introductory Biology I Lab	1
PSIO 101 Tackling Physiological Topics, or T1 Gen Ed (150 or 160), or second language course	3-4	T1 Gen Ed (150 or 160), or second language course	3-4
T1 Gen Ed (150 or 160)	3		
Total Units	**16-17**	**Total Units**	**14-15**

SECOND YEAR

FALL SEMESTER	Units	SPRING SEMESTER	Units
MATH 122 A + B Calculus I	5	MATH 263, BIOS 376, or ECOL 379 Biostatistics	3
CHEM 151 General Chemistry I	4	CHEM 152 General Chemistry II	4
PSIO 201 Human Anatomy & Physiology I	4	PSIO 202 Human Anatomy & Physiology II	4
T1 Gen Ed (150 or 160)	3	T2 Gen Ed (300/400 level)	3
		T2 Gen Ed (300/400 level)	3
Total Units	**16**	**Total Units**	**17**

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

Physiology 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 241a Organic Chemistry Lecture	3	CHEM 241b Organic Chemistry Lecture	3
CHEM 243a Organic Chemistry Lab	1	CHEM 243b Organic Chemistry 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
Total Units	**14**	**Total Units**	**14**

FOURTH YEAR

FALL SEMESTER	Units	SPRING SEMESTER	Units
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
Total Units	**15**	**Total Units**	**15**

***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 241a Organic Chemistry Lecture	3	CHEM 241b Organic Chemistry Lecture	3
CHEM 243a Organic Chemistry Lab	1	CHEM 243b Organic Chemistry 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
Total Units	**14**	**Total Units**	**14**

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
Total Units	**15**	**Total Units**	**15**

***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 241a Organic Chemistry Lecture	3	CHEM 241b Organic Chemistry Lecture	3
CHEM 243a Organic Chemistry Lab	1	CHEM 243b Organic Chemistry 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
Total Units	**14**	**Total Units**	**14**

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
Total Units	**15**	**Total Units**	**15**

***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 241a Organic Chemistry Lecture	3	CHEM 241b Organic Chemistry Lecture	3
CHEM 243a Organic Chemistry Lab	1	CHEM 243b Organic Chemistry 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
Total Units	**14**	**Total Units**	**14**

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
T2 Gen Ed (300/400 level)	3	UD general elective (any 300/400-level course)	3
Total Units	**15**	**Total Units**	**15**

***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.**