

# BIOMEDICAL SCIENCES (B.S.) - RESIDENT

**Important:** This degree plan is effective for those starting this degree program in fall 2022 through summer 2023. This degree plan will remain in effect for students who do not break enrollment or who do not change degree programs, concentrations, or cognates.

## General Education/Foundational Skills Requirements

Code	Title	Hours
<b>Communication &amp; Information Literacy</b> <sup>1</sup>		
ENGL 101	Composition and Rhetoric	3
INQR 101	Inquiry	1
	Communications Elective	3
	Information Literacy Elective	3
	Information Literacy Elective	3
<b>Technological Solutions &amp; Quantitative Reasoning</b> <sup>1</sup>		
UNIV 101	Foundational Skills	1
	Math Elective MATH 114 or higher	3
	Technology Competency <sup>2</sup>	0-3
<b>Critical Thinking</b> <sup>1</sup>		
RLGN 105	Introduction to Biblical Worldview <sup>3</sup>	2
RSCH 201	Research	3
	Critical Thinking Elective	3
<b>Civic &amp; Global Engagement</b> <sup>1</sup>		
EVAN 101	Evangelism and the Christian Life <sup>3</sup>	2
	Cultural Studies Elective	3
<b>Social &amp; Scientific Inquiry</b> <sup>1</sup>		
	Natural Science Elective	3
	Social Science Elective <sup>4</sup>	3
<b>Christianity &amp; Contexts</b> <sup>1</sup>		
BIBL 105	Old Testament Survey	2
BIBL 110	New Testament Survey	2
THEO 201	Theology Survey I <sup>3</sup>	2
THEO 202	Theology Survey II <sup>3</sup>	2
<b>Total Hours</b>		<b>44-47</b>

<sup>1</sup> Refer to the list of approved general education electives before enrolling in foundational skill requirements

<sup>2</sup> All students must pass the Computer Assessment OR complete applicable INFT course

<sup>3</sup> Students transferring in 45 or more UG credit hours will have the requirements of RLGN 105 Introduction to Biblical Worldview (2 c.h.) and EVAN 101 Evangelism and the Christian Life (2 c.h.) waived; Students transferring in 60 or more UG credit hours will also have the requirements of THEO 201 Theology Survey I (2 c.h.) and THEO 202 Theology Survey II (2 c.h.) waived

<sup>4</sup> PSYC 101 General Psychology (3 c.h.) is strongly recommended

## Major Requirements

Code	Title	Hours
<b>Major Foundational Courses</b>		
BIOL 224	General Biology I <sup>1</sup>	4
CHEM 121	General Chemistry I <sup>1</sup>	4
	or CHEM 131 & CHEM 135 Advanced General Chemistry I and Advanced General Chemistry Lab	
CHEM 122	General Chemistry II <sup>1</sup>	4
	or CHEM 132 & CHEM 136 Advanced General Chemistry II and Advanced General Chemistry II Lab	
MATH 201	Introduction to Probability and Statistics <sup>1</sup>	3
	or MATH 211 Introduction to Statistical Analysis	
MATH 126	Elementary Calculus for Business and Science <sup>1</sup>	3-4
	or MATH 131 Calculus and Analytic Geometry I	
PHYS 201	General Physics I <sup>1</sup>	4
	or PHYS 231 University Physics I	
PHYS 202	General Physics II <sup>1</sup>	4
	or PHYS 232 University Physics II	
<b>Total Hours</b>		<b>26-27</b>

<sup>1</sup> Course may fulfill select general education requirements

Code	Title	Hours
<b>Major Core</b>		
BCHM 450	Medical Biochemistry	3-4
	or BCHM 451 Biochemistry I	
BIOL 225	General Biology II	4
BIOL 301	Genetics	4
BIOL 313	Clinical Human Anatomy	3
	or BIOL 385 Advanced Human Physiology	
BIOL 400	Biology Seminar	1
BIOL 415	Cell Biology	4
CHEM 301	Organic Chemistry I	4
CHEM 302	Organic Chemistry II	4
CRST 290	History of Life	3
	or CRST 390 Origins	
Choose 12-16 credit hours from the following:		12-16
BCHM 452	Biochemistry II	
BIOL 303	Microbiology	
BIOL 305	Parasitology	
BIOL 313	Clinical Human Anatomy	
BIOL 316	Human Biological Variation	
BIOL 321	Comparative Anatomy of the Vertebrates	
BIOL 330	Histology	
BIOL 385	Advanced Human Physiology	
BIOL 403	Embryology	
BIOL 416	Comparative Animal Physiology	
BIOL 420	Immunology	
BIOL 435	Neurobiology	
<b>Total Hours</b>		<b>42-47</b>

Code	Title	Hours
<b>Free Electives</b>		
Choose 0-15 credit hours of Free Electives		0-15
<b>Total Hours</b>		<b>0-15</b>

*All applicable prerequisites must be met*

## Graduation Requirements

- **120** total hours
- **2.0** Overall grade point average
- **30** Hours must be upper-level courses (300-400 level)
- **Grade of 'C'** Minimum required for all upper-level courses in the major
- **25%** Of major taken through Liberty University
- **30** Hours must be completed through Liberty University
- **Grad App** Submission of Degree Completion Application must be completed within the last semester of a student's anticipated graduation date
- **CSER** All Requirements must be satisfied before a degree will be awarded