LIBERTY UNIVERSITY

Bachelor of Science in Biochemistry and Molecular Biology

2020-2021 Degree Completion Plan

Important: This degree plan is effective for those starting this degree program in fall 2020 through summer 2021. 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 (44-47 hours)

Course		Hrs	Sem	Grade
Communication & Information Literacy (13 hours)[1]				
ENGL 101	Composition & Rhetoric	3		
INQR 101	Inquiry 101	1		
_____	Communications Elective	3		
_____	Information Literacy Elective	3		
_____	Information Literacy Elective	3		
Technological Solutions & Quantitative Reasoning (4-7 hours)[1]				
UNIV 101	Foundational Skills	1		
MATH ____	Math Elective (MATH 114 or higher)	3		
_____	Technology Competency[2]	0-3		
Critical Thinking (8 hours)[1]				
RLGN 105	Intr Bwvw/Contemp Moral Issues[3]	2		
RSCH 201	Research 201	3		
_____	Critical Thinking Elective	3		
Civic & Global Engagement (5 hours)[1]				
EVAN 101	Evangelism & Christian Life[3]	2		
_____	Cultural Studies Elective	3		
Social & Scientific Inquiry (6 hours)[1]				
_____	Natural Science Elective	3		
_____	Social Science Elective	3		
Christianity & Contexts (8 hours)[1]				
BIBL 105	Old Testament Survey	2		
BIBL 110	New Testament Survey	2		
THEO 201	Theology Survey I[3]	2		
THEO 202	Theology Survey II[3]	2		

Course		Hrs	Sem	Grade
Major Foundational Courses (19-27 hours)				
BIOL 224	General Biology I[4,5]	4		
CHEM ____	_____[4,5,6]	4		
CHEM ____	_____[4,5,7]	4		
MATH 126	Elementary Calculus for Business & Sci[4,5]			
or MATH 131	Calculus & Analytic Geometry I[4,5]	3-4		
MATH 201	Introduction to Probability & Statistics[4,5]			
or MATH 211	Introduction to Statistical Analysis[4,5]	3		
PHYS 201	General Physics I[4,5]			
or PHYS 231	University Physics I[4,5]	4		
PHYS 202	General Physics II[4,5]			
or PHYS 232	University Physics II[4,5]	4		
MAJOR				
	Core (55 hours)			
BCHM 451	Biochemistry I	4		
BCHM 452	Biochemistry II	4		
BIOL 225	General Biology II			
or BIOL 317	Botany	4		
BIOL 301	Genetics	4		
BIOL 303	Microbiology	4		
BIOL 400	Biology Seminar	1		
BIOL 415	Cell Biology	4		
BIOL 455	Molecular Techniques	3		
CHEM 301	Organic Chemistry I	4		
CHEM 302	Organic Chemistry II	4		
CHEM 321	Analytical Chemistry	4		
CHEM 461	Physical Chemistry I	3		
CHEM 462	Physical Chemistry II	3		
CHEM 465	Physical Chemistry I Lab	1		
CHEM 466	Physical Chemistry II Lab	1		
CRST 290	History of Life			
or CRST 390	Origins	3		
MATH 132	Calculus & Analytic Geometry II	4		
FREE ELECTIVES (0-2 hours)				
_____	_____	_		

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

Notes

All applicable prerequisites must be met

[1]Refer to the list of approved general education electives at www.liberty.edu/gened before enrolling in foundational skills requirements

[2]All students must pass the Computer Assessment OR complete applicable INFT course; refer to www.liberty.edu/computerassessment for more information

[3]Students transferring in 45 or more UG credit hours will have the requirements of RLGN 105 and EVAN 101 waived; Students transferring in 60 or more UG credit hours will also have the requirements of THEO 201 and THEO 202 waived

[4]MATH 131, 211, PHYS 231 and 232 are strongly recommended

[5]Courses may also fulfill select General Education Requirements. Please refer to the list of approved general education electives at www.liberty.edu/gened

[6]Choose CHEM 121 *OR* CHEM 131 and 135

[7]Choose CHEM 122 *OR* CHEM 132 and 136

Suggested Course Sequence on second page

SUGGESTED COURSE SEQUENCE

FRESHMAN YEAR

First Semester		Second Semester	
ENGL 101	3	RLGN 105	2
INQR 101	1	CHEM Elective(s)[4]	4
UNIV 101	1	Information Literacy Elective[1]	3
Natural Science Elective[1] [BIOL 224]	4	BIOL 225 or 317	4
CHEM Elective(s)[2]	4	MATH 132	4
MATH 126 or 131[3]	3-4	CSER	0
CSER	0	Total	17
Total	16-17		

SOPHOMORE YEAR

EVAN 101	2	Communications Elective[1]	3
RSCH 201	3	Critical Thinking Elective[1]	3
MATH Elective[1] [MATH 201 or 211[3]]	3	Technology Competency[5]	0-3
BIOL 301	4	BIOL 415	4
CHEM 301	4	CHEM 302	4
CSER	0	CSER	0
Total	16	Total	14-17

JUNIOR YEAR

Information Literacy Elective[1]	3	THEO 201	2
PHYS 201 or 231[3]	4	PHYS 202 or 232[3]	4
BCHM 451	4	BCHM 452	4
CHEM 321	4	BIOL 400	1
CSER	0	BIOL 455	3
Total	15	CSER	0
		Total	14

SENIOR YEAR

BIBL 110	2	BIBL 105	2
THEO 202	2	Cultural Studies Elective[1]	3
Social Sciences Elective[1]	3	BIOL 303	4
CHEM 461	3	CHEM 462	3
CHEM 465	3	CHEM 466	1
CRST 290 or CRST 390	3	CSER	0
CSER	0	Total	13
Total	16		

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[2]Choose CHEM 121 *OR* CHEM 131 and 135

[3]MATH 131, 211, PHYS 231 and 232 are strongly recommended

[4]Choose CHEM 122 *OR* CHEM 132 and 136

[5]All students must pass the Computer Assessment OR complete applicable INFT course; refer to www.liberty.edu/computerassessment for more information