

Bachelor of Education in Physics Education 6-12

Earth Science Concentration

2022-2023 Degree Completion Plan

ONLINE

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. After completion of the required program coursework (including student teaching) and the passing of licensure tests, the graduate of this program would be eligible for a VA state teaching license.

GENERAL EDUCATION/

	ONAL SKILLS REQUIREMENTS (39-42 Hrs	hours) Sem Grade	Course		U.c.	Sem	Gra
			Selli Grade		G - (721 -)4	<u>Hrs</u>	Sem	Gia
Communication & Information Literacy (12 hours) ¹				MAJOR	Core (73 hours) ⁴			
COMS 101	Speech Communication	3		Education Cou		_		
ENGL 101	Composition & Rhetoric	3		EDSC 419	Teach Sci Content Meth Mid & Sec School			
	Information Literature Elective	3		EDUC 201	Intro. to Education & Classroom Tech.	3		_
HIUS 221	Survey of American History I	3		EDUC 221	Content Area Read & Diff Teach & Learn	3		
				EDUC 235	Content Instructional Design	3		
Technologica	al Solutions & Quantitative Reasonin	g (3-6	hours) ¹	EDUC 350	Behavior & Individual Differences	3		
	MATH Elective	3		EDUC 360	Foundations of Education	3		
UNIV 104	Instructional Tech. for Online Learning	0-3		EDUC 425	Content Measurement & Evaluation	3		
				EDUC 435	Content Curriculum Fundamentals	3		
Critical Thinking (7 hours)				Practicum and	Gate Courses			
ENGL 201	American Literature I	3		EDGT 175	School of Ed Gate 1 – UG Initial Lic – Dist	0		
RLGN 104	Christian Life & Biblical Worldview ²	4		EDGT 275	School of Ed Gate 2 – UG Initial Lic – Dist	0		
				EDGT 375	School of Ed Gate 3 – UG Initial Lic – Dist	0		
Civic & Glob	pal Engagement (3 hours)			EDUC 188	Practicum in Education I: Distance ⁵	0		
CSTU 101	Western Culture	3		EDUC 388	Practicum in Education III: Distance ⁵	0		
				EDSC 488	Science Lab Practicum in Schools ^{5,6}	0		
Social & Scie	entific Inquiry (6 hours) ¹	Secondary Courses						
Social & Scie	Natural Science Elective	3		BIOL 101	Principles of Biology	3		
PSYC 210	Developmental Psychology	3		CHEM 108	Chemistry for Health Science Professionals	4		
	The state of the s			MATH 132	Calculus & Analytic Geometry I	4		
Christianity & Contexts (8 hours)				MATH 410	Matrix & Linear Algebra	3		
BIBL 104	Survey of Old & New Testament	4		PHYS 232	University Physics II	4		
THEO 104	Introduction to Theology Survey ²	4		PHYS 305	Introduction to Modern Physics	3		
11120 10.	introduction to Theorogy Survey	•		PHYS 310	Numerical Methods in Physics	3		
M-: E	lational Courses (0-11 hours)			PHYS 321	Mechanics	3		_
ENGL 102	Composition & Literature ³	3		PHYS 331	Electricity & Magnetism	3		
MATH 131	Calculus & Analytic Geometry I ³	4		PHYS 432	Thermodynamics & Statistical Mechanics	3		_
PHYS 231	University Physics I ³	4		PHYS 440	Wave Optics	<i>3</i>		
PH 13 231	University Physics I	4	— —	Student Teachi		4		
				EDST 475	The Reflective Educator: Resource Sem.	2		
						3		
				EDST 480	Student Teaching: Distance ⁵	0		
				<u>or</u> EDST 481	Student Teaching: Local ⁵	9		_
				D110 C 101	Concentration (18 hours)	_		
				PHSC 121	Introduction to Astronomy	3		
				PHSC 122	Elements of Astronomy Lab	1		

Graduation Requirements

130 Total Hours

3.0 Overall grade point average

32.5 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

32.5 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

Notes All applicable prerequisites must be met

PHSC 210

PHSC 211

PHSC 311

PHSC 312

PHSC 313

All practicum courses should be completed before student teaching, and candidates should not plan to take practicum courses in summer terms.

3

Elements of Earth Science

Mineralogy & Petrology

Oceanography

Meteorology

Elements of Earth Science Lab

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

²Students transferring in 45 or more UG credit hours will have the requirement of RLGN 104 waived; Students transferring in 60 or more UG credit hours will also have the requirement of THEO 104 waived

³Courses may also fulfill select General Education Requirements. Please refer to the list of approved general education electives at www.liberty.edu/gened

⁴Relevant 300-400 level PHYS courses require successful completion of MATH 430.

⁵Liberty University School of Education Background check is required for all practicums and student teaching

⁶EDSC 488 is a required practicum course that requires a back ground check; candidates should not plan to take this course in summer sessions.

Suggested Course Sequence on second page

Revised: 04 27.2022 Effective: Catalog Term 2022-40

SUGGESTED COURSE SEQUENCE***

FRESHMAN YEAR

First Semester		Second Semester										
BIBL 104	4	COMS 101		3								
ENGL 101	3	THEO 104		4								
RLGN 104	4	Info. Literacy Elective ¹ [ENGL 102]		3								
UNIV 104	0-3	MATH Elective ¹ [MATH 131]	02]	4								
EDGT 175	0	EDGT 275		0								
EDUC 201	<u>3</u>	PSYC 210		3								
Total	_		Total	17								
SOPHOMORE YEAR												
HIUS 221	3	ENGL 201		3								
EDUC 221	3	EDUC 188 ²		0								
Natural Science Elective ¹ [PHYS 231]	4	EDUC 235		3								
MATH 132	4	EDUC 350		3								
PHSC 121	3	PHSC 210		3								
PHSC 122	<u>1</u>	PHSC 211		1								
Total	18	PHYS 232		4								
			Total	17								
JUNIOR YEAR												
EDSC 419	3	BIOL 101		3								
EDSC 488 ^{2,3}	0	EDUC 388 ²		0								
EDUC 360	3	EDUC 425		3								
PHSC 311	3	EDUC 435		3								
PHSC 312	3	PHYS 321		3								
PHYS 305	3	PHYS 331		3								
PHYS 310	<u>3</u>	MATH 410		3								
Total	18		Total	18								
	OFFILED AT	SA D										
	SENIOR YI	EAR										
CTSU 101	3	EDST 475		3								
CHEM 108	4	EDST 480 or 481 ²		<u>9</u>								
EDGT 375	0		Total	12								
PHSC 313	4											
PHYS 432	3											
PHYS 440	<u>4</u>											
Total	18											

Revised: 04 27.2022 Effective: Catalog Term 2022-40

Notes
All applicable prerequisites must be met
***Relevant 300-400 level PHYS courses require successful completion of MATH 430.

¹Refer to the list of approved general education electives at www.liberty.edu/gened before enrolling in foundational skills requirements ² Liberty University School of Education Background check is required for all practicums and student teaching ³ EDSC 488 is a required practicum course that requires a background check; candidates should not plan to take this course in summer sessions.