

# BS in Physical Science Education (690128) MAP Sheet

Physical and Mathematical Sciences, Physical Science Program

For students entering the degree program during the 2021-2022 curricular year.

This major is designed to prepare students to teach in public schools. In order to graduate with this major, students are required to complete Utah State Office of Education licensing requirements. To view these requirements go to <http://education.byu.edu/ess/licensing.html> or contact the Education Advisement Center, 350 MCKB, (801) 422-3426.



University Core and Graduation Requirements				Suggested Sequence of Courses			
<b>University Core Requirements:</b>				<b>FRESHMAN YEAR</b>			
<b>Requirements</b>	<b>#Classes</b>	<b>Hours</b>	<b>Classes</b>	<b>1st Semester</b>		<b>JUNIOR YEAR</b>	
<b>Religion Cornerstones</b>				First Year Writing	3.0	<b>5th Semester</b>	
Teachings and Doctrine of The Book of Mormon	1	2.0	REL A 275	Quantitative Reasoning	3.0	CHEM 223 (FSp)	4.0
Jesus Christ and the Everlasting Gospel	1	2.0	REL A 250	PHSCS 105	3.0	CHEM 201 (FSp)	0.5
Foundations of the Restoration	1	2.0	REL C 225	PHSCS 107	1.0	GEOL 210 (F)	3.0
The Eternal Family	1	2.0	REL C 200	Religion Cornerstone course	2.0	CPSE 402	2.0
<b>The Individual and Society</b>				Social Science	3.0	PHSCS 137	3.0
American Heritage	1-2	3-6.0	from approved list	<b>Total Hours</b>	<b>15.0</b>	Religion Cornerstone course	2.0
Global and Cultural Awareness	1	3.0	SC ED 353*	<b>2nd Semester</b>		SC ED 353	3.0
<b>Skills</b>				American Heritage	3.0	<b>Total Hours</b>	<b>17.5</b>
First Year Writing	1	3.0	from approved list	Biological Science	3.0	Geol 210 Begins meeting before the start of fall semester	
Advanced Written and Oral Communications	1	3.0	from approved list	PHSCS 106 (FWSu)	3.0	<b>6th Semester</b>	
Quantitative Reasoning	0-1	0-3.0	from approved list	PHSCS 108 (FWSu)	1.0	PHSCS 310	3.0
Languages of Learning (Math or Language)	1-4	3-20.0	from approved list	Religion Cornerstone course	2.0	CHEM 331	3.0
<b>Arts, Letters, and Sciences</b>				Languages of Learning	3-4.0	PHSCS 167	3.0
Civilization 1	1	3.0	from approved list	<b>Total Hours</b>	<b>15-16.0</b>	Adv. Written & Oral Communication	3.0
Civilization 2	1	3.0	from approved list	<b>SOPHOMORE YEAR</b>		Religion elective (FWSpSu)	2.0
Arts	1	3.0	from approved list	<b>3rd Semester</b>		IP & T 371	1.0
Letters	1	3.0	PHIL 423*	CHEM 105 (FWSpSu)	4.0	IP & T 372	1.0
Biological Science	1	3-4.0	from approved list	GEOL 111 (FW)	4.0	IP & T 373	1.0
Physical Science	2	7.0	CHEM 105* & PHSCS 105*	PHSCS 127 (FWSpSu)	3.0	<b>Total Hours</b>	<b>17.0</b>
Social Science	1	3.0	from approved list	Civilization 1	3.0	<b>SENIOR YEAR</b>	
<b>Core Enrichment: Electives</b>				Religion Cornerstone course	2.0	<b>7th Semester</b>	
Religion Electives	3-4	6.0	from approved list	<b>Total Hours</b>	<b>16.0</b>	Letters	3.0
Open Electives	Variable	Variable	personal choice	<b>4th Semester</b>		PHY S 377 (FW)	3.0
<b>Graduation Requirements:</b>				CHEM 106 (FWSpSu)	3.0	PHY S 378	1.0
Minimum residence hours required		30.0		CHEM 107 (FWSpSu)	1.0	SC ED 375	3.0
Minimum hours needed to graduate		120.0		GEOL 112 (W)	4.0	Requirement 2 elective	3-4.0
				Civilization 2 & Arts	3.0	Religion elective (FWSpSu)	2.0
				PHY S 276	4.0	<b>Total Hours</b>	<b>15-16.0</b>
				Religion elective (FWSpSu)	2.0	<b>8th Semester</b>	
				<b>Total Hours</b>	<b>17.0</b>	PHY S 476 or 496 (FW)	12.0
				<b>Note:</b> The sequence of courses suggested may not fit the circumstances of every student. Students should contact their college advisement center for help in outlining an efficient schedule.			
				<b>Note:</b> Students are encouraged to complete an average of 15 credit hours each semester or 30 credit hours each year, which could include spring and/or summer terms. Taking fewer credits substantially increases the cost and the number of semesters to graduate.			

**BS in Physical Science Education (690128)**  
**2021-2022 Program Requirements (80.5 - 81.5 Credit Hours)**

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*For students accepted into the major after December 16, 2019, grades below C in any required coursework in a teaching major or teaching minor will not be accepted. Teacher candidates must maintain a cumulative GPA of 2.7 or higher once admitted into the program and to qualify for student teaching. For additional details on admission and retention requirements for teaching majors and teaching minors, see Educator Preparation Program Requirements in the Undergraduate Catalog.*

**REQUIREMENT 1** Complete 17 courses

**NOTE FOR GEOL 210: CONTACT GEOLOGICAL SCIENCES DEPARTMENT (S-389 ESC) BEFORE APRIL 15TH FOR DATES OF UPCOMING AUGUST FIELD TRIP.**

CHEM 105 - General College Chemistry 1 with Lab (Integrated)	4.0
CHEM 106 - General College Chemistry 2	3.0
CHEM 107 - General College Chemistry Laboratory	1.0
CHEM 201 - Chemical Handling and Safe Laboratory Practices	0.5
CHEM 223 - Quantitative and Qualitative Analysis	4.0
CHEM 331 - Guided Learning for Chemistry Instruction	3.0
GEOL 111 - Physical Geology	4.0
GEOL 112 - Historical Geology	4.0
GEOL 210 - Field Studies	3.0
PHSCS 105 - General Physics 1	3.0
PHSCS 106 - General Physics 2	3.0
PHSCS 107 - General Physics Lab 1	1.0
PHSCS 108 - General Physics Lab 2	1.0
PHSCS 127 - Descriptive Astronomy	3.0
PHSCS 137 - Energy, Climate, and the Environment	3.0
PHSCS 167 - Descriptive Acoustics of Music and Speech	3.0
PHSCS 310 - Physics By Inquiry: Mechanics	3.0

**REQUIREMENT 2** Complete 1 course

GEOL 100 - Dinosaurs	3.0
GEOL 351 - Mineralogy	4.0
GEOL 370 - Sedimentology and Stratigraphy	3.0
GEOL 480 - Paleontology	3.0

\*PHIL 423R - History and Philosophy of Science 3.0

**REQUIREMENT 3** Complete 2 options

**PROFESSIONAL EDUCATION COMPONENT:**

*Licensure requirements: Contact the Education Advisement Center, 350 MCKB, 801-422-3426, to schedule the exit interview to clear your application for the secondary teaching license. You should be registered for your last semester at BYU prior to the scheduled appointment.*

**OPTION 3.1** Complete 9 courses

CPSE 402 - Educating Students with Disabilities in Secondary Classroom	2.0
IP&T 371 - Integrating K-12 Educational Technology 1	1.0
IP&T 372 - Integrating K-12 Educational Technology 2	1.0
IP&T 373 - Teaching in K-12 Online and Blended Learning Contexts	1.0
PHY S 276 - Exploration of Teaching	4.0
PHY S 377 - Teaching Methods and Instruction	3.0
PHY S 378 - Practicum in Secondary Education	1.0
*SC ED 353 - Multicultural Education for Secondary Education	3.0
SC ED 375 - Adolescent Development and Classroom Management	3.0

**Note: FBI fingerprint and background clearance must be completed prior to enrollment in Phy S 276.**

**OPTION 3.2** Complete 12.0 hours from the following course(s)

**APPLY FOR STUDENT TEACHING/INTERNSHIP ONE SEMESTER IN ADVANCE BY SEPTEMBER 30 OR JANUARY 31ST. APPLICATIONS ARE ONLINE AT [WWW.BYU.EDU/FIELDSERVICES.HTML](http://WWW.BYU.EDU/FIELDSERVICES.HTML).**

PHY S 476 - Secondary Student Teaching	12.0v
PHY S 496 - Academic Internship: Secondary Education	12.0v

**Student teachers/interns must complete all required EPP assessments and paperwork in the Educator system.**

**THE DISCIPLINE:**

The Department of Teacher Education provides a program that licenses secondary teachers for public schools. In addition to content courses in the field(s) in which they plan to teach, students complete professional education courses and practicum experiences that prepare them to teach in a secondary school setting.

**CAREER OPPORTUNITIES:**

Secondary education teacher.

**MAP DISCLAIMER**

While every reasonable effort is made to ensure accuracy, there are some student populations that could have exceptions to listed requirements. Please refer to the university catalog and your college advisement center/department for complete guidelines.

**ADVISEMENT CENTER INFORMATION**

**Physical and Mathematical Sciences College Advisement Center**

Brigham Young University  
 N-181 ESC  
 Provo, UT 84602  
 Telephone: (801) 422-2674