

BS in Physical Science Education (690128) MAP Sheet

Physical and Mathematical Sciences, Physical Science Program

For students entering the degree program during the 2024-2025 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/licensing.html> or contact the Education Advisement Center, 175 MCKB, (801) 422-3426

University Core and Graduation Requirements				Suggested Sequence of Courses			
University Core Requirements:				FRESHMAN YEAR		JUNIOR YEAR	
Requirements	# Classes	Hours	Classes	<u>1st Semester</u>		<u>5th Semester</u>	
Religion Cornerstones				First Year Writing	3.00	CHEM 223 (see advisor)	4.00
Teachings and Doctrines of the Book of Mormon	1	2.00	REL A 275	GE Arts, Letters, Sciences	3.00	CHEM 201	0.50
Jesus Christ and the Everlasting Gospel	1	2.00	REL A 250	PHSCS 105	3.00	GEOL 210	3.00
Foundations of the Restoration	1	2.00	REL C 225	PHSCS 107	1.00	CPSE 402	2.00
The Eternal Family	1	2.00	REL C 200	Religion Cornerstone Class	2.00	PHSCS 137	3.00
BYU Foundations for Student Success				UNIV 101	2.00	GE Religion	2.00
Foundations for Student Success	1	2.00	UNIV 101	Total Hours:	14.00	SC ED 353	2.00
The Individual and Society				<u>2nd Semester</u>		Total Hours:	16.50
American Heritage	1 to 2	3.00-6.00	from approved list	American Heritage	3.00	<u>6th Semester</u>	
Global and Cultural Awareness	1	3.00	SC ED 353*	GE Arts, Letters, Sciences	3.00	PHSCS 310	3.00
Skills				PHSCS 106	3.00	CHEM 331	3.00
First Year Writing	1	3.00	from approved list	PHSCS 108	1.00	PHSCS 167	3.00
Advanced Written and Oral Communications	1	3.00	from approved list	Religion Cornerstone Class	2.00	Adv Written & Oral Communication	3.00
Quantitative Reasoning	0 to 1	0.00-3.00	from approved list**	Quantitative Reason/Languages of Learn	3.00	GE Religion	2.00
Languages of Learning (Math of Language)	1 to 4	3.00-20.00	from approved list**	Total Hours:	15.00	IP&T 371	1.00
Arts, Letters and Sciences (Complete 6 of 7)				SOPHMORE YEAR		IP&T 372	1.00
Civilization 1	1	3.00	from approved list	<u>3rd Semester</u>		IP&T 373	1.00
Civilization 2	1	3.00	from approved list	CHEM 105	4.00	Total Hours:	17.00
Arts	1	3.00	from approved list	GEOL 111	4.00	SENIOR YEAR	
Letters	1	3.00	from approved list	PHSCS 127	3.00	<u>7th Semester</u>	
Biological Science	1	3.00-4.00	from approved list	GE Arts, Letters, Sciences	3.00	GE Arts, Letters, Sciences	3.00
Physical Science	2	7.00	CHEM 105* & PHSCS 105*	Religion Cornerstone Class	2.00	PHS S 377	3.00
Social Science	1	3.00	from approved list	Total Hours:	16.00	PHY S 378	1.00
Core Enrichment: Electives				<u>4th Semester</u>		SC ED 375	3.00
Religion Electives	3 to 4	6.00	from approved list	CHEM 106	3.00	Requirement 2 Elective	3.00
Open Electives	Variable	Variable	personal choice	CHEM 107	1.00	GE Religion	2.00
Graduation Requirements:				GEOL 112	4.00	Total Hours:	15.00
Minimum residence hours required		30.00		GE Arts, Letters, Sciences	3.00	<u>8th Semester</u>	
Minimum hours needed to graduate		120.00		PHY S 276	4.00	PHY S 476R or 496R	12.00
				Religion Cornerstone Class	2.00	Total Hours:	12.00
				Total Hours:	17.00		

*These classes fill both university core and program requirements

**Select a course that will satisfy both of these GE requirements

Program Requirements

Licensure: This program meets the educational requirements designed to lead to an occupationally required professional license or certificate in the state of Utah. Students pursuing occupations requiring a license or certificate in a state other than Utah should contact the appropriate BYU academic advisement center as well as the licensing agency in the state where they intend to work to seek information and guidance regarding licensure and certification requirements.

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 <https://www.schools.utah.gov/curr/licensing> or contact the Education Advisement Center, 350 MCKB, 801-422-3426.

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 - Gen College Chem 1+Lab Integr 4.0

CHEM 106 - General College Chemistry 2 3.0

CHEM 107 - Gen Coll Chem Lab 1.0

CHEM 201 - Chem Handling & Safe Lab Prac 0.5

CHEM 223 - Quant & Qual Analy 4.0

CHEM 331 - Guided Learn Chem 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, Environment 3.0

PHSCS 167 - Desc Acoustics of Music & Spch 3.0

PHSCS 310 - Physics By Inquiry: Mechanics 3.0

Requirement 2 —Complete 1 of 5 Courses

GEOL 100 - Dinosaurs 3.0

GEOL 351 - Mineralogy 4.0

GEOL 370 - Sedimentology & Stratigraphy 3.0

GEOL 480 - Paleontology 3.0

PHIL 423R - History&Philosophy of Science - *You may take once* 3.0

Requirement 3 —Complete 2 Requirements

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.

Requirement 3.1 —Complete 9 Courses

CPSE 402 - Educ Stdnts w/Disablt in ScEd 2.0

IP&T 371 - Integrating K-12 Ed Tec 1 1.0

IP&T 372 - Integrating K-12 in El. Ed. 1.0

IP&T 373 - Tchng K-12 Online/Blended Lrn 1.0

PHY S 276 - Exploration of Teaching 4.0

PHY S 377 - Teaching Methods & Instruction 3.0

PHY S 378 - Practicum in Secondary Educ 1.0

SC ED 353 - Multicultural Educ 2.0

SC ED 375 - Ad Dev & Class Mgmt 3.0

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

Requirement 3.2 —Complete 12 hours

Apply for student teaching/internship one semester in advance by September 30 or January 31st. Applications are online at www.byu.edu/fieldservices.html.

PHY S 476 - Secondary Student Teaching 0.0v

PHY S 496 - Acad Intern: Secondary Ed 0.0v

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

Computational, Mathematical, & Physical Sciences College

Advisement Center Brigham Young University

N-181 ESC

Provo, UT 84602

Telephone: (801) 422-2674