BS in Physical Science Education (690128) MAP Sheet
Physical and Mathematical Sciences, Physical Science Program
For students entering the degree program during the 2022-2023 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
University Core Requirements:
Requirements#ClassesHoursClasses
Religion Cornerstones
Teachings and Doctrine of The Book of Mormon12.REL A 275
Jesus Christ and the Everlasting Gospel12.REL A 250
Foundations of the Restoration12.REL C 225
The Eternal Family12.REL C 200
The Individual and Society
American Heritage1-23-6.0from approved list
Global and Cultural Awareness13.0SC ED 353*
Skills
First Year Writing13.0from approved list
Advanced Written and Oral Communications13.0from approved list
Quantitative Reasoning0-10-3.0from approved list
Languages of Learning (Math or Language)1-43-20.0from approved list
Arts, Letters, and Sciences
Civilization 1113.0from approved list
Civilization 2113.0from approved list
Arts13.0from approved list
Letters13.0PHIL 423*
Biological Science13-4.0from approved list
Physical Science27.0CHEM 105* & PHSCS 105*
Social Science13.0from approved list
Core Enrichment: Electives
Religion Electives3-4.0from approved list
Open ElectivesVariableVariableVariablepersonal choice
Graduation Requirements:
Minimum residence hours required30.0
Minimum hours needed to graduate120.0
Suggested Sequence of Courses
Freshman Year
1st Semester
First Year Writing3.0
Quantitative Reasoning3.0
PHSCS 105.0
PHSCS 1071.0
Religion Cornerstone course2.0
Social Science3.0
Total Hours15.0
2nd Semester
American Heritage3.0
Biological Science 3.0
PHSCS 106 (FWSu) 3.0
PHSCS 108 (FWSu) 1.0
Religion Cornerstone course 2.0
Languages of Learning 3-4.0
Total Hours 15-16.0

Sophomore Year
3rd Semester
CHEM 105 (FWSpSu) 4.0
GEOL 111 (FW) 4.0
PHSCS 127 (FWSpSu) 3.0
Civilization 13.0
Religion Cornerstone course 2.0
Total Hours 16.0

4th Semester
CHEM 106 (FWSpSu) 3.0
CHEM 107 (FWSpSu) 1.0
GEOL 112 (W) 4.0
Civilization 2 & Arts 3.0
PHY S 2764.0
Religion elective (FWSpSu) 2.0
Total Hours 17.0

Junior Year
5th Semester
CHEM 223 (FSp) 4.0
CHEM 201 (FSp) 0.5
GEOL 210 (F) 3.0
CPSE 4022.0
PHSCS 1373.0
Religion Cornerstone course 2.0
SC ED 353.0
Total Hours 17.5

Geol 210 Begins meeting before the start of fall semester

6th Semester
PHSCS 3103.0
CHEM 3313.0
PHSCS 1673.0
Adv. Written & Oral Communication 3.0
Religion elective (FWSpSu) 2.0
IP & T 3711.0
IP & T 3721.0
IP & T 3731.0
Total Hours 17.0

Senior Year
7th Semester
Letters 3.0
PHY S 377 (FW) 3.0
PHY S 3781.0
SC ED 3753.0
Requirement 2 elective 3-4.0
Religion elective (FWSpSu) 2.0
Total Hours 15-16.0
8th Semester
PHY S 476 or 496 (FW) 12.0
Total Hours 12.0
Note: 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.

Note: 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) 2022-2023 Program Requirements (80.5 - 81.5 Credit Hours)

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 - 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 - (Not currently offered)
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 Classrooms 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.
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