Welcome to the

Physical Science Education Major

in the College of Physical and Mathematical Sciences

College Advisement Center
Website: https://science.byu.edu/advisement
Email: science.math.advisement@byu.edu
Phone: 801-422-2674
Office: N-181 ESC

Physics & Astronomy Department
Website: physics.byu.edu
Email: physics_office@byu.edu
Phone: 801-422-4361
Office: N284 ESC

Faculty Advisor – Adam Bennion
Email: adam_bennion@byu.edu
Phone: 801-422-3095
Office: N-319 ESC

Education Advisement Center
Website: education.byu.edu
Email: eac.frontdesk@byu.edu
Phone: 801-422-3426
Office: 350 MCKB

Educator: Apply to the program at educator.byu.edu. If you have any technical issues, contact the EPP Help Center at 801-422-1190, https://epp.byu.edu/. You should plan to have the application completely done by the time you finish the PHYS 276 class.

STEM Alliance--Connect with STEM employers, mentors, and clubs: stemalliance.byu.edu

Clubs
Acoustical Society of America – Contact: Micah Shepherd (shep@physics.byu.edu)
BYU Astronomical Society – Contact: Benjamin Boizelle (boizellb@byu.edu) & Jeannette Lawler (jeannette_lawler@byu.edu)
Society for Physics Students – Contact: Benjamin Frandsen (benfrandsen@byu.edu)
YChem-Contact: Walter Paxton, E111 BNSN, paxton@chem.byu.edu, 422-4917
Geology Club-Contact: Sam Hudson, S-337 ESC, sam.hudson@byu.edu, 801-422-4657

Learning outcomes can be found here: https://learningoutcomes.byu.edu/Courses/program-courses/690128/Teaching+Physical+Science+BS/1017
Things to Know

Resources for Graduation Planning

- Flow Charts and Major Academic Plans (MAPs) can be found here: [https://science.byu.edu/ advisement/flowcharts](https://science.byu.edu/advisement/flowcharts).
- Academic advisors in N-181 ESC will help you understand course sequencing and help you plan classes to efficiently fill requirements. They can also help you with study skills and initial career exploration as well as connecting you with correct resources.
- Plan and register from your plan on MyMAP. Your academic advisor can help you understand how to best utilize this resource.
- Evaluate your current program. Periodically major programs are updated. An academic advisor would be happy to review the differences between the programs with you to help you determine what would be best for you.
- Consider meeting with a faculty advisor in your department. Contact info is found on first page of this packet.

Tutoring Resources and Research

- Volunteer peer tutors are available through Y Serve if you need help with a class. Also, if you excel in a subject, consider serving your fellow students by becoming a tutor. Find out more here: [https://tutoring.byu.edu/](https://tutoring.byu.edu/).
- Many departments provide TA Tutorial Labs and research opportunities. Check your department for details:
  - Chemistry and Biochemistry: C-100 BNSN, 801-422-3667, [https://www.chem.byu.edu/](https://www.chem.byu.edu/)
  - Computer Science: 3361 TMCB, 801-422-3027, csoffice@cs.byu.edu
  - Geological Sciences: S-389 ESC, 801-422-3918, geology@byu.edu
  - Mathematics: 275 TMCB, 801-422-3061, office@mathematics.byu.edu
  - Mathematics Education: 167 TMCB, 801-422-1735, office@mathed.byu.edu
  - Physics and Astronomy: 167 TMCB, 801-422-1735, office@mathed.byu.edu
  - Statistics: 2152 WVB, 801-422-4505, statsec@stat.byu.edu

Prepare Early for a Career

- Check out University Career Services in 2590 WSC and at [https://ucs.byu.edu/](https://ucs.byu.edu/).
- Consider doing an internship.
  - Attend the STEM and Career Fairs held in fall and winter semesters.
  - Talk to your department about internship opportunities.
  - Use LinkedIn and Handshake (see flyer in this packet) to connect with alumni and apply for jobs/internships. BYU Connect is another great resource for networking ([connect.byu.edu](http://connect.byu.edu)).
  - Talk with the college Career Director who can help you search for internships as well as assist you with many other career related strategies (see first page of this packet).
- Consider taking StDev 317 (Career Strategies) your junior year.
- Consider taking either Chem 502, CS 502, Geol 502, Math 502, PHSCS 502, or STAT 502 (1-credit Job Search Class). Class is held for 1 hour per week for eight non-consecutive weeks throughout the semester.
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

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<th>University Core Requirements</th>
<th>Suggested Sequence of Courses</th>
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<tr>
<td><strong>Religion Cornerstones</strong></td>
<td><strong>FRESHMAN YEAR</strong></td>
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<tr>
<td>Teachings and Doctrine of The Book of Mormon</td>
<td>1st Semester</td>
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<tr>
<td>Jesus Christ and the Everlasting Gospel</td>
<td>1st Semester</td>
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<tr>
<td>Foundations of the Restoration</td>
<td>1st Semester</td>
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<tr>
<td>The Eternal Family</td>
<td>1st Semester</td>
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<tr>
<td><strong>Global and Cultural Awareness</strong></td>
<td><strong>JUNIOR YEAR</strong></td>
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<tr>
<td>American Heritage</td>
<td>2nd Semester</td>
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<tr>
<td><strong>Skills</strong></td>
<td><strong>Sophomore Year</strong></td>
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<tr>
<td>First Year Writing</td>
<td>2nd Semester</td>
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<tr>
<td>Advanced Written and Oral Communications</td>
<td>3rd Semester</td>
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<tr>
<td>Quantitative Reasoning</td>
<td>3rd Semester</td>
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<tr>
<td>Languages of Learning (Math or Language)</td>
<td>3rd Semester</td>
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<tr>
<td><strong>Arts, Letters, and Sciences</strong></td>
<td><strong>Junior Year</strong></td>
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<td>Civilization 1</td>
<td>5th Semester</td>
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<tr>
<td>Civilization 2</td>
<td>5th Semester</td>
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<tr>
<td>Arts</td>
<td>5th Semester</td>
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<td>Letters</td>
<td>5th Semester</td>
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<tr>
<td>Biological Science</td>
<td>5th Semester</td>
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<tr>
<td>Physical Science</td>
<td>5th Semester</td>
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<tr>
<td>Social Science</td>
<td>5th Semester</td>
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<tr>
<td><strong>Core Enrichment: Electives</strong></td>
<td><strong>Senior Year</strong></td>
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<tr>
<td>Religion Electives</td>
<td>7th Semester</td>
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<tr>
<td>Open Electives</td>
<td>7th Semester</td>
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<td><strong>Graduation Requirements:</strong></td>
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<td>Minimum residence hours required</td>
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<td>Minimum hours needed to graduate</td>
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### 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.
- 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)

**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

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**ADVISEMENT CENTER INFORMATION**
Physical and Mathematical Sciences College Advisement Center
Brigham Young University
N-181 ESC
Provo, UT 84602
Telephone: (801) 422-2674
BYU
Physical Science Education BS
Requirements / Prerequisites
2022-2023 Academic Year

Major (80.5-81.5 Hours)
1. Admission into the Physical Science Education major or minor requires the following: 1) 2.7 minimum high school/college GPA (be in the average of 3.0 for cohort), 2) fingerprint background check, 3) a cohort average ACT score of 21.25 (17 minimum) in English, average cohort score of 21.25 (17 minimum) in math, and an average cohort writing score of 543.33, average cohort math score of 532.5, and an average cohort essay score of 5.30. Anyone who has not taken the writing portion will need to take the Praxis Core Writing test and receive a 165.
2. Grades below C in professional education courses or content courses will not be accepted in the teaching major or teaching minor. Maintain minimum 2.7 (3.0 for cohort) GPA to qualify for student teaching.
4. Take one of the following: Geol 100, Geol 351, Geol 370, Geol 480, Phil 423R.
5. Complete Teacher Licensure requirements (Contact Education Advisement Center)
7. Complete 12 credits of either Phy S 476 or Phy S 496.

Complete one course from the following electives
- Geol 100 FWSp
- Geol 351 Pre-req: Math 112 & Chem 105/Chem 111 or concurrent
- Geol 370 Pre-req: Geol 112 & Geol 210 & Geol 230 W
- Geol 480 Pre-req: Geol 112 F Odd years W Even Years
- Phil 423 Pre-req: Phy S 100, or instructor’s consent; Phil 300 When Taught: See Dept

Please Note: When Taught is subject to change.
Guide only—please consult MyMAP for full requirements.

Updated 08/08/2022
Handshake: BYU’s Online Job Board

BYU’s own job board. Employers who want to hire BYU graduates or offer internships to current students post job openings to this website and students apply. Just like LinkedIn, employers can view student profiles and students can network as they apply for jobs and internships.

Login to handshake.byu.edu >>> BYU Net ID
*you do not need to create an account, just sign in with you BYU information

HOW TO MAKE THE MOST OUT OF HANDSHAKE:

1. COMPLETE YOUR PROFILE
   • Upload your resume and it will auto-fill in your profile
   • Completed profiles tailor your Handshake experience
   • Information from your transcript is already uploaded
   • Fill in the Summary/Bio section
   • Fill in your past jobs and experiences, including all the bullet points you use on your resume
   • Add a professional headshot and background photo
   Remember: every word in your profile will be searchable by students and employers

2. APPLY FOR JOBS
   • Search for job titles, employers, or skills
   • Apply for interesting jobs that meet your skill set

3. RESEARCH COMPANIES
   • Under the “Jobs” Tab there is an “Employers” Tab
   • Search for keywords or locations to find companies that are the right fit for you
   • Plan to attend their info sessions on BYU Campus, connect with them at Career Fairs, or set up informational interviews to learn more
   Remember: when looking at companies or jobs, Handshake will tell you what other BYU students have worked there. Use this resource to network and discover more information!

4. EXPLORE FELLOW STUDENTS
   • “Students” tab
   • Search for fellow BYU students to view their profiles and job positions (Facebook stalking... “networking”)

5. ATTEND EVENTS
   • The “Events” tab will be your key to attending info sessions, interviews, and Career Fairs
   • The “Calendar” tab under “Events” will show you what events are coming soon
   • Make sure to save events you are interested in or RSVP so you do not forget to attend
   • Spread the word to your friends on social media

6. DOWNLOAD HANDSHAKE APP
   • Search: “Handshake” not “Handshake Career Services”
   • Input your BYU e-mail address: netId@byu.edu (it will forward emails to the e-mail you have on file with BYU)
   • Handshake will send you a link via e-mail to enable your account in the app
   • Navigate the app to perform all the functions of the website that have been previously mentioned

7. VISIT THE CAREER STUDIO
   • Freshen up your resume, cover letter, or LinkedIn
   • Receive networking help
   • Practice interviewing with a mock interview
   • Meet with a full-time Career Counselor in your field

8. GET A JOB, RING THE BELL
   • Once you’re hired, stop by the Career Studio to ring our Victory Bell and get a picture for the Victory Board