Welcome to the **Physics 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: adambennion@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

Admission into the Physics 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 6.60 (5 minimum) or a SAT average cohort verbal 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.

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 PHY S 276 class.

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

**Clubs**
Acoustical Society of America – Contact: Micah Shepherd (shep@physics.byu.edu), visit www.acoustics.byu.edu/asa-student-chapter for more information
BYU Astronomical Society – Contact: Benjamin Boizelle (boizellb@byu.edu), visit www.physics.byu.edu/clubs/astrosoc/home for more information
Society of Physics Students – Contact: Benjamin Frandsen (benfrandsen@byu.edu), visit www.sps.byu.edu/sps-home for more information
Learning Outcomes can be found here: https://learningoutcomes.byu.edu/Courses/program-courses/694828/Physics+Teaching+BS+/1328
Things to Know

Resources for Graduation Planning

- Flow Charts and Major Academic Plans (MAPs) can be found here: https://science.byu.edu/advisement/explore-majors-and-minors.
- 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 the 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/.
- 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/
  - 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, 801-422-2061, office@mathematics.byu.edu
  - Mathematics Education: 167 TMCB, 801-422-1735, office@mathed.byu.edu
  - Physics and Astronomy: N-283 ESC, 801-422-4361, physics_office@byu.edu
  - Statistics: 2152 WVB, 801-422-4505, statsec@stat.byu.edu

Prepare Early for a Career

- Check out Careers & Experiential Learning in 1134 WSC and at 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).
  - 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 each week.
# BS in Physics Education (694828) MAP Sheet

**Physical and Mathematical Sciences, Physics and Astronomy**

For students entering the degree program during the 2023-2024 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/ews/licensing.html or contact the Education Advisement Center, 350 MCKB, (801) 422-3426.

## University Core and Graduation Requirements

### University Core Requirements:

<table>
<thead>
<tr>
<th>Requirements</th>
<th>#Classes</th>
<th>Hours</th>
<th>Classes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Religion Cornerstones</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Teachings and Doctrine of The Book of</td>
<td>1</td>
<td>2.0</td>
<td>REL A 275</td>
</tr>
<tr>
<td>Mormon</td>
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<td>REL C 225</td>
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<tr>
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<td>REL C 200</td>
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<td>The Individual and Society</td>
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<tr>
<td>American Heritage</td>
<td>1-2</td>
<td>3.0-6.0</td>
<td>from approved list</td>
</tr>
<tr>
<td>Global and Cultural Awareness</td>
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<td>3.0</td>
<td>SC ED 353*</td>
</tr>
<tr>
<td>Skills</td>
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<tr>
<td>First Year Writing</td>
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<tr>
<td>Advanced Written and Oral Communications</td>
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<td>3.0</td>
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<tr>
<td>Quantitative Reasoning</td>
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<td>4.0</td>
<td>MATH 112*</td>
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<tr>
<td>Languages of Learning (Math or Language)</td>
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<td>4.0</td>
<td>MATH 112*</td>
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<tr>
<td>Arts, Letters, and Sciences</td>
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<tr>
<td>Civilization 1</td>
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<td>3.0</td>
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<tr>
<td>Letters</td>
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<td>3.0</td>
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<td>from approved list</td>
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<tr>
<td>Physical Science</td>
<td>1</td>
<td>3.0</td>
<td>PHCS 222*</td>
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<tr>
<td>Social Science</td>
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<td>3.0</td>
<td>from approved list</td>
</tr>
<tr>
<td>Core Enrichment: Electives</td>
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<td>Religion Electives</td>
<td>3-4</td>
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<tr>
<td>Open Electives</td>
<td>Variable</td>
<td>Variable</td>
<td>personal choice</td>
</tr>
</tbody>
</table>

*THESE CLASSES FILL BOTH UNIVERSITY CORE AND PROGRAM REQUIREMENTS (13 hours overlap)

## Graduation Requirements:

| Minimum residence hours required       | 30.0     |
| Minimum hours needed to graduate       | 120.0    |

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## Suggested Sequence of Courses

### Freshman Year

<table>
<thead>
<tr>
<th>1st Semester</th>
<th>2nd Semester</th>
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</thead>
<tbody>
<tr>
<td>PHCS 121 (FWSp)</td>
<td>3.0</td>
</tr>
<tr>
<td>PHCS 191 (R)</td>
<td>0.5</td>
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<tr>
<td>MATH 112 (FWSp)</td>
<td>4.0</td>
</tr>
<tr>
<td>First-year Writing</td>
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</tr>
<tr>
<td>Arts</td>
<td>3.0</td>
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<tr>
<td>Religion Cornerstone course</td>
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<tr>
<td><strong>Total Hours</strong></td>
<td><strong>15.5</strong></td>
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</table>

### Sophomore Year

<table>
<thead>
<tr>
<th>3rd Semester</th>
<th>4th Semester</th>
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</thead>
<tbody>
<tr>
<td>PHCS 220 (FWSp)</td>
<td>3.0</td>
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<tr>
<td>PHCS 225 (FW)</td>
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<tr>
<td>MATH 202 (FW)**</td>
<td>4.0</td>
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<tr>
<td>PHY S 276 (FW)</td>
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<tr>
<td>Religion Cornerstone course</td>
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<tr>
<td><strong>Total Hours</strong></td>
<td><strong>15.0</strong></td>
</tr>
</tbody>
</table>

*It's highly recommended to take PHCS 220 and PHCS 225 at the same time. **The MATH 213/215/314/334 (9 cr) sequence can be taken in place of the MATH 302/303 (8 cr) sequence.

### Juniors Year

<table>
<thead>
<tr>
<th>5th Semester</th>
<th>6th Semester</th>
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<tbody>
<tr>
<td>PHCS 133 (FWSp)</td>
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<tr>
<td>MATH 113 (FWSp)</td>
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<tr>
<td>American Heritage</td>
<td>3.0</td>
</tr>
<tr>
<td>Biological Science</td>
<td>3.0</td>
</tr>
<tr>
<td>Religion Cornerstone course</td>
<td>2.0</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td><strong>15.0</strong></td>
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</tbody>
</table>

### Senior Year

<table>
<thead>
<tr>
<th>7th Semester</th>
<th>8th Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHCS 222 (FW)</td>
<td>3.0</td>
</tr>
<tr>
<td>PHCS 240 (FW)</td>
<td>2.0</td>
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<tr>
<td>MATH 303 (FW)</td>
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<td>PT 371</td>
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<tr>
<td>PT 372</td>
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<tr>
<td>Social Science</td>
<td>3.0</td>
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<tr>
<td>Religion Cornerstone course</td>
<td>2.0</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td><strong>16.0</strong></td>
</tr>
</tbody>
</table>

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.

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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.

A teaching minor is not required for licensure. However, it is strongly recommended.

Requirement 1 — Complete 10 Courses
Note: Phys 191 should be taken the first semester.
MATH 112 - Calculus 1 4.0
MATH 113 - Calculus 2 4.0
PHSCS 121 - Intro to Newtonian Mechanics 3.0
PHSCS 123 - Intro to Waves, Optics, Therm 3.0
PHSCS 127 - Descriptive Astronomy 3.0
PHSCS 191 - Intro Phscs Careers & Rch 1 0.5
PHSCS 220 - Intro Electricity & Magnetism 3.0
PHSCS 222 - Modern Physics 3.0
PHSCS 225 - Intro to Experimental Physics 2.0
PHSCS 240 - Dnng, Fabricatn, Sc Apparatus 2.0

Requirement 2 — Complete 1 of 2 Options
Option 2.1 — Complete 2 Courses
MATH 302 - Math for Engr 1 4.0
MATH 303 - Math for Engineers 2 4.0

Option 2.2 — Complete 4 Courses
MATH 213 - Elementary Linear Algebra 2.0
MATH 215 - Computational Linear Algebra 1.0
MATH 314 - Calculus of Several Variables 3.0
MATH 334 - Ordinary Differential Equation 3.0

Requirement 3 — Complete 1 of 2 Courses
PHSCS 310 - Physics By Inquiry: Mechanics 3.0
PHSCS 311 - Physics By Inquiry: Electricity 3.0

Physics electives: Complete an additional 9 hours from the following (any physics course already taken will not double count).

Option 4.1 — Complete up to 9 hours
Complete UP TO 9.0 hours from the following. Courses from requirement 3 can’t be double counted as electives.
PHIL 423R - History&Philosophy of Science - You may take once 3.0
PHYS 137 - Energy, Climate, Environment 3.0
PHYS 167 - Descri Acoustics of Music & Spch 3.0
PHYS 310 - Physics By Inquiry: Mechanics 3.0
PHYS 311 - Physics By Inquiry:Electricity 3.0
PHYS 313R - Special Topics in Physics: You may take once 0.5v

Option 4.2 — Complete up to 9 hours
Complete AT LEAST 6 hours from 300-, 400-, or 500-level physics courses, not including 310 or 311 or 399R (Phscs 321, 461, and 471 are highly recommended).
PHYS 313R - Special Topics in Physics: You may take once 0.5v
PHYS 318 - Intro Math Physics 3.0
PHYS 321 - Mechanics 3.0
PHYS 329 - Observational Astronomy 3.0
PHYS 330 - Computational Physics Lab 2 1.0
PHYS 360 - Statistical & Thermal Physics 3.0
PHYS 391R - Seminar in Current Physics - You may take once 1.0
PHYS 416 - Writing in Physics 3.0
PHYS 427 - Stellar Astrophysics 3.0
PHYS 428 - Galaxies and Cosmology 3.0
PHYS 430 - Computational Physics Lab 3 1.0
PHYS 441 - Electricity & Magnetism 3.0
PHYS 442 - Electrodynamics 3.0
PHYS 451 - Quantum Mechanics 3.0
PHYS 452 - Appl Quantum Mechanics 3.0
PHYS 461 - Introduction to Acoustics 3.0
PHYS 471 - Principles of Optics 3.0
PHYS 477R - Sec Minor Student Teaching - You may take once 4.0
PHYS 492R - Capstone in Applied Phscs - You may take once 0.5v
PHYS 497R - Research in Physics - You may take once 1.0v
PHYS 498R - Senior Thesis - You may take once 0.5v
PHYS 540 - Elect Eng Princips & Practice 2.0
PHYS 560 - Acoustical Measurement Methods 3.0
PHYS 561 - Fundamentals of Acoustics 3.0
PHYS 571 - Lasers & Atoms 3.0
PHYS 581 - Solid State Physics 3.0
PHYS 583 - Nano and Surface Phscs 3.0
PHYS 585 - Thin-Film Physics 3.0
PHYS 586 - Trans Electron Microscopy 3.0
PHYS 587 - Semiconductor Devices Phscs 3.0
PHYS 588 - Scanning Electron Microscopy 3.0
PHYS 599R - Academic Internship - You may take once 0.5v

Requirement 5 — Complete 2 Requirements
Professional Education Component:
Licensure requirements: Contact the Education Advisement Center, 350 MCKB, 801-422-3426, to schedule the final interview to clear your student populations that could have exceptions to listed requirements.

6. Physics fundamentals required by the biological science, medical, dental, and veterinary professions for graduate study.
5. Fundamental background for other physical sciences and engineering, in preparation for graduate study in new technologies.
4. Education for those who intend to pursue graduate work in physics or astronomy.
3. Preparation for those who intend to enter industrial or governmental service as physicists or astronomers.
2. Preparation for those who intend to enter industrial or governmental service as physicists or astronomers.
1. Preparation for those who intend to enter industrial or governmental service as physicists or astronomers.

The DISCIPLINE:
Over the centuries physicists and astronomers have studied the fundamental principles that govern the structure and dynamics of matter and energy in the physical world, from subatomic particles to the cosmos. Physicists and astronomers apply this understanding to the development of new technologies. For example, physicists invented the first lasers and semiconductor electronic devices.

Physics and astronomy students learn to approach complex problems in science and technology from a broad background in mechanics, electricity and magnetism, statistical and thermal physics, quantum mechanics, relativity, and optics. The tools they develop at BYU include problem solving by mathematical and computational modeling, as well as experimental discovery and analysis. All students gain professional experience in research, capstone, or internship projects, usually in close association with faculty. Together these experiences can provide excellent preparation for employment or for graduate studies in physics, other sciences, engineering, medicine, law, or business.

Most physicists and astronomers work in research and development in industrial, government, or university labs to solve new problems in technology and science. They also share the beauty discovered in our physical universe by teaching in high schools, colleges, and universities.

CAREER OPPORTUNITIES:
A degree in physics or physics-astonomy can provide:
1. Preparation for those who intend to enter industrial or governmental service as physicists or astronomers.
2. Preparation for those who intend to pursue graduate work in physics or astronomy.
3. Preparation for those who intend to enter industrial or governmental service as physicists or astronomers.
4. Preparation for those who intend to pursue graduate work in physics or astronomy.
5. Preparation for those who intend to enter industrial or governmental service as physicists or astronomers.

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

Requirement 5.2 — Complete 12 hours
PHY S 476 - Secondary Student Teaching 0.0v
PHY S 496 - Acad Intern: Secondary Ed 0.0v
Student teachers/interns must complete three forms in their Educator accounts (PIBS, CDS, FED) and attach their TWS to the Educator account for their program. All four must be completed to be cleared for graduation.

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.
DEPARTMENT INFORMATION
Department of Physics and Astronomy
Brigham Young University
N-283 ESC
Provo, UT 84602
Telephone: (801) 422-4361
physics_office@byu.edu

ADVISEMENT CENTER INFORMATION
Physical and Mathematical Sciences College Advisement Center
Brigham Young University
N-181 ESC
Provo, UT 84602
Telephone: (801) 422-2674
Physics Education BS
Requirements / Prerequisites
2023-2024 Academic Year

Major (78.5-79.5 Hours)

1. Admission into the 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 6.60 (5 minimum) or a SAT average cohort verbal 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. Teacher candidates must have minimum of a cumulative 2.7 GPA.
3. Complete the following: Math 112, Math 113, PHSCS 121, PHSCS 123, PHSCS 127, PHSCS 191, PHSCS 220, PHSCS 222, PHSCS 225, PHSCS 240.
5. Complete one of the following: PHSCS 310 or PHSCS 311.
6. Complete 9 hours from the following. Three hours may come from list A. and up to 9 credits may come from list B (at least 6 credits must come from list B).
   A. Phil 423R, PHSCS 137, PHSCS 167, PHSCS 310, PHSCS 311, PHSCS 313R.
8. Take either PHY S 476 or Phy S 496

Physics Education Minor (27 Credits)

1. Take the following 7 courses: Math 113, PHSCS 121, PHSCS 123, PHSCS 220, PHSCS 222, PHSCS 225, PHSCS 240.
2. Take Phy S 377
3. Take PHSCS 477R

Guide only—please consult MyMAP for full requirements.
Updated 02/14/2024
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

   employers are
   5X MORE LIKELY
to view a profile that has
at least one job/skill/organization

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
## Research Groups

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<tr>
<th>Group</th>
<th>Day</th>
<th>Time</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Acoustics</strong></td>
<td>Thursday</td>
<td>4:00PM</td>
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</tr>
<tr>
<td><strong>Astronomy</strong></td>
<td>Every other</td>
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<td>ESC N485</td>
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<td><strong>Astronomy</strong></td>
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<tr>
<td><strong>Atomic, Molecular, Optical</strong></td>
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<tr>
<td><strong>Computational X-ray Imaging</strong></td>
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<td><strong>Materials for Space Observatories</strong></td>
<td>Thursday</td>
<td>2:00PM</td>
<td>ESC N309</td>
</tr>
<tr>
<td><strong>Quantum</strong></td>
<td>Thursday</td>
<td>10:00AM</td>
<td>ESC N209</td>
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<tr>
<td><strong>Science Education</strong></td>
<td>Tuesday</td>
<td>3:00PM</td>
<td>ESC N209</td>
</tr>
<tr>
<td><strong>Theoretical and Mathematical</strong></td>
<td></td>
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*For most updated information on times and locations of research groups, please visit: https://www.physics.byu.edu/undergraduate/research Be sure to scroll down to the professors for additional information.