### Welcome to the

# Chemistry Major (BS)

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-181ESC

# Chemistry and Biochemistry Department

Website: chem.byu.edu Phone: 801-422-3667 Office: C-100 BNSN

# Department Advisement- Sue Mortensen\*

Email: suemort@chem.byu.edu

Phone: 801-422-6269 Office: C-104 BNSN

# Internship Coordinator – Richard Watt

Email: rwatt@chem.byu.edu

Phone: 801-422-1923 Office: C-210 BNSN

# University Career Services – Anna Kennington

Website: careers.byu.edu (Handshake--see flyer in packet)

Email: anna.kennington@byu.edu

Phone: 801-422-5944, or 801-422-2674 (schedule appointment)

Office: C-106 BNSN

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

## Clubs

YChem: Walter Paxton, E111 BNSN, paxton@chem.byu.edu; 422-4917

Women in Chemistry: Kara Stowers, C309 BNSN, kstowers@chem.byu.edu, 801-422-0835

Cougs v Cancer: Cristy Welsh, E-181 BNSN, sccr@chem.byu.edu. 801-422-3913

\*Please visit Sue Mortensen in the Chemistry and Biochemistry Department as soon as possible if you have not already done so.

Learning outcomes can be found here: <a href="https://learningoutcomes.byu.edu/Courses/program-courses/692821/Chemistry+BS+/1322">https://learningoutcomes.byu.edu/Courses/program-courses/692821/Chemistry+BS+/1322</a>



# Things to Know

# **Resources for Graduation Planning**

- Flow Charts and Major Academic Plans (MAPs) can be found here:
   <a href="https://science.byu.edu/advisement/flowcharts">https://science.byu.edu/advisement/flowcharts</a>.
- 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.
- o 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/.
- 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**

- o Check out University Career Services in 2590 WSC and at <a href="https://ucs.byu.edu/">https://ucs.byu.edu/</a>.
- 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).
- o Consider taking StDev 317 (Career Strategies) your junior year.
- O 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 Chemistry (692821) MAP Sheet

Physical and Mathematical Sciences, Chemistry and Biochemistry For students entering the degree program during the 2022-2023 curricular year.



University Core and Graduation Requirements				Suggested Sequence of Courses			
University Core Requirements:				FRESHMAN YEAR		JUNIOR YEAR	
Requirements	#Classes	Hours	Classes	1st Semester		5th Semester	
•	" Clubbeb	110413	Ciusses	A HTG 100 (FWSpSu) or First-year Writing	3.0	Civilization 1	3.0
Religion Cornerstones				CHEM 111* (F)	4.0	CHEM 514 (F)	3.0
Teachings and Doctrine of The Book of	1	2.0	REL A 275	CELL 120, BIO 130 or other Biology G.E.**	3.0-4.0	CHEM 460 (F)	1.0
Mormon				MATH 112 (FWSPSu) Religion Cornerstone course	4.0 2.0	CHEM 462 (F) PHSCS 220 (FWSp)	3.0 3.0
Jesus Christ and the Everlasting Gospel	1	2.0	REL A 250	Total Hours	16-17	CHEM 518 (F)	2.0
Foundations of the Restoration	1	2.0	REL C 225			Total Hours	15
The Eternal Family	1	2.0	REL C 200	*With department approval, CHEM 105 may be subst 111. **There is no major-specific biology course requ		6th Semester	
The Individual and Society				G.E. Biological Requirement. CELL 120 or BIO 130 are		CHEM 391 (FW)	3.0
American Heritage	1-2	260	from approved list	options.	recommended	CHEM 463 (W)	3.0
9				·		CHEM 464 (W)	1.0
Global and Cultural Awareness	1	3.0	from approved list	2nd Semester		CHEM 465 (W)	1.0
Skills				A HTG 100 (FWSpSu) or First-year Writing	3.0	CHEM 497R or other Requirement 4	1.0
First Year Writing	1	3.0	from approved list	CHEM 112* (W) CHEM 113* (FW)	3.0 2.0	Global and Cultural Awareness	3.0
Advanced Written and Oral Communications	1	3.0	CHEM 391*	CHEM 113* (FW) CHEM 201 (FW)	2.0 0.5	Religion Elective	2.0
Quantitative Reasoning	1	4.0	MATH 112* or 113*	MATH 113 (FWSpSu)	4.0	Open Elective Total Hours	1.0 <b>15</b>
Languages of Learning (Math or Language)	1		MATH 112* or 113*	Religion Cornerstone course	2.0		15
Arts, Letters, and Sciences	-	1.0	111/11/11/11/11/11/11/11/11/11	Total Hours	14.5	SENIOR YEAR 7th Semester	
, ,				*With department approval, CHEM 106 may be subst		<u>rtn Semester</u> CHEM 521(F) or 455 (F)*	2.0
Civilization 1	1		from approved list	112; CHEM 107 for CHEM 113.	atatea for Criewi	CHEM 594R (FW)	0.5
Civilization 2	1	3.0	from approved list	112, 011211 101 101 011211 1101		Social Science	3.0
Arts	1	3.0	from approved list	SOPHOMORE YEAR		Arts or Letters	3.0
Letters	1	3.0	from approved list	3rd Semester		CHEM 497R (FWSpSu) or other Requirement 4	1.0
Biological Science	1	3.0/4.0	CELL 120 or BIO 130	CHEM 227 (FSp)	4.0	Religion Elective	2.0
Physical Science	2	7.0	CHEM 111* and PHSCS	CHEM 351M* (F)	3.0	Elective or Requirement 4	3.0
. Hydreat defence	-		121*	MATH 213 (FWSpSu) MATH 215 (FWSpSu)	2.0 1.0	Total Hours	14.5
Social Science	1	3.0	from approved list	PHSCS 121 (FWSp)	3.0	*Either CHEM 455 or CHEM 521 and 523 is required (see	Requirement #3,
	1	3.0	iroiii approved list	Religion Cornerstone course	2.0	options 3.1, 3.2). Taking both options can also fulfill Re	ղ. #4 .
Core Enrichment: Electives				Total Hours	15	Oth Compator	
Religion Electives	3-4	6.0	from approved list	*CHEM 351 may be substituted for CHEM 351M.		8th Semester CHEM 495 (FW)	1.0
Open Electives	Variable	Variable	personal choice	CITEM 331 May be substituted for CITEM 331M.		CHEM 453 (FW) CHEM 523* (W) or other Requirement 4	2.0
				4th Semester		CHEM 498R** or other Requirement 4	3.0
*THESE CLASSES FILL BOTH UNIVERSITY CORE AND PROGRAM REQUIREMENTS (18 hours overlap)		CHEM 352M* (W)	3.0	Arts or Letters	3.0		
			CHEM 354* (FWSp)	2.0	Civilization 2	2.0	
				CHEM 381M** (W)	3.0	Religion elective	2.0
Graduation Requirements:				PHSCS 123 (FWSp) CHEM 497R*** (FWSpSu) or other elective	3.0 1.0	Total Hours	14.0
•				Religion Cornerstone course	2.0	*Complete Requirement #3, option 3.2, by taking CHEM	523 **CHEM
Minimum residence hours required		30.0		Open elective	1.0	498R is a research capstone experience. Enrollment in 0	HEM 498R
Minimum hours needed to graduate		120.0		Total Hours	15	follows successive semesters of enrollment in CHEM 49	
				*CHEM 352 may substitute for CHEM 352M; CHEM 35. **With department approval, CHEM 481 may substit *** CHEM 497R requires acceptance by faculty for a rexperience in their research lab	ute for CHEM 381M	permission required. Contact department office for spe	cific details.

## BS in Chemistry (692821)

#### 2022-2023 Program Requirements (76 Credit Hours)

#### **REQUIREMENT 1** Complete 19 courses NOTE: WITH DEPARTMENT APPROVAL, CHEM 105 MAY SUBSTITUTE FOR CHEM 111; AND CHEM 106 FOR CHEM 112; AND CHEM 107 FOR CHEM 113. MATH 314 MAY SUBSTITUTE FOR CHEM 460. NOTE: 2 CREDIT HOURS OF CHEM 354 ARE REQUIRED. CHEM 111 - Principles of Chemistry 1 CHEM 112 - Principles of Chemistry 2 3.0 CHEM 113 - Introductory General Chemistry Laboratory 2.0 CHEM 201 - Chemical Handling and Safe Laboratory Practices 0.5 CHEM 227 - Principles of Chemical Analysis 4.0 CHEM 351M - Organic Chemistry 1 - Majors 3.0 CHEM 352M - Organic Chemistry 2 - Majors 3.0 CHEM 354 - Organic Chemistry Laboratory--Majors 2.0v CHEM 381M - Fundamentals of Biochemistry 3.0 \*CHEM 391 - Technical Writing Using Chemical Literature CHEM 460 - Mathematics for Physical Chemistry 1.0 CHEM 462 - Physical Chemistry 1 3.0 CHEM 463 - Physical Chemistry 2 3.0 CHEM 464 - Physical Chemistry Laboratory 1 1.0 CHEM 465 - Physical Chemistry Laboratory 2 1.0 CHEM 495 - Senior Seminar 1.0 CHEM 514 - Inorganic Chemistry 3.0 CHEM 518 - Advanced Inorganic Laboratory 2.0 CHEM 594R - General Seminar 0.5 You may take this course up to 1 time. REQUIREMENT 2 Complete 7 courses MATH 112 - Calculus 1 4.0 MATH 113 - Calculus 2 4.0 MATH 213 - Elementary Linear Algebra 2.0 MATH 215 - Computational Linear Algebra 1.0 PHSCS 121 - Introduction to Newtonian Mechanics 3.0 PHSCS 123 - Introduction to Waves, Optics, and Thermodynamics 3.0 PHSCS 220 - Introduction to Electricity and Magnetism 3.0 REQUIREMENT 3 Complete 1 option COMPLETE ONE OF THE FOLLOWING ADVANCED OPTIONS: OPTION 3.1 Complete 1 course CHEM 455 - Synthesis and Qualitative Organic Analysis 4 0 OPTION 3.2 Complete 2 courses CHEM 521 - Instrumental Analysis Lecture 2.0 CHEM 523 - Instrumental Analysis Laboratory 2.0

REQUIREMENT 4 Complete 9.0 hours from the following course(s)

AFTER CONSULTING WITH AN ADVISOR, COMPLETE 9 HOURS FROM THE FOLLOWING. NOTE: ONLY ONE OF BIO 130 OR CELL 120 CAN BE APPLIED TO THIS REQUIREMENT. NOTE: WITH APPROVAL, CERTAIN OTHER 300-LEVEL AND ABOVE COURSES IN THE ALLIED FIELDS OF PHYSICS, STATISTICS, ENGINEERING, AND BIOLOGY MAY BE TAKEN TO SATISFY THIS REQUIREMENT. NOTE: ANY COURSE NOT TAKEN TO SATISFY REQUIREMENT 3 CAN BE TAKEN TO SATISFY REQUIREMENT 4.

BIO 130 - Biology 4.0
CELL 120 - Science of Biology 3.0
CHEM 384 - Biochemistry Methods 1.0

BIO 130 - Biology		4.0			
CELL 120 - Science of Biology					
CHEM 384 - Biochemistry Methods					
CHEM 397R - Mentored Outreach and Service Learning					
You may take up to 3 credit hours.					
CHEM 455 - Synthesis and Qualitative	Organic Analysis	4.0			
CHEM 482 - Mechanisms of Molecular Biology					
CHEM 496R - Academic Internship: Ch	emistry and Biochemistry	6.0v			
You may take up to 3 credit hours.					
CHEM 498R - Capstone Experience in	Chemistry/Biochemistry	4.0v			
You may take up to 3 credit hours.					
CHEM 521 - Instrumental Analysis Lec	ture	2.0			
CHEM 523 - Instrumental Analysis Lab	2.0				
CHEM 552 - Advanced Organic Chemis	stry	3.0			
CHEM 553 - Advanced Organic Chemi	stry	3.0			
CHEM 555 - Organic Spectroscopic Ide	entification	2.0			
CHEM 563 - Reaction Kinetics		3.0			
CHEM 565 - Introduction to Quantum	Chemistry	3.0			
CHEM 567 - Statistical Mechanics		3.0			
CHEM 569 - Fundamentals of Spectros		3.0			
CHEM 581 - Adv Biochemical Methodo	ology 1				
CHEM 584 - Advanced Biochemistry M	lethods 1	3.0			
CHEM 586 - Advanced Biochemistry M	lethods 2	3.0			
CHEM 596R - Special Topics in Chemis	stry	3.0v			
You may take up to 3 credit hours.					
HONRS 499R - Honors Thesis		6.0v			
You may take up to 3 credit hours.					

#### Recommended Courses: Phscs 225; Stat 201.

Note: Elective courses, beyond the requirements above, should be selected in consultation with an advisor. The following should be given consideration: advanced chemistry, foreign languages (especially French, German, Japanese, and Russian), biological sciences, computer science, engineering, mathematics, physics, statistics.

#### REGISTRATION ADVISEMENT

We want to assist students in their academic pursuit toward an undergraduate degree. 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 number of semesters to graduate.

New students should attend the chemistry and biochemistry session during New Student Orientation, where they can meet with a faculty advisor and review their planned registration. Transfer or mid-year incoming students should meet with an advisor prior to the add/drop deadline of their first semester, which usually follows the first week of class.

The department recommends a review of progress and planned registration with a faculty advisor in the semester when 30, 60, and 90 hours are completed. However, academic advisement is available to all majors at *any* point in their academic career. Contact the department advisement office to schedule an appointment with a faculty advisor: in person C104 BNSN; by phone 801- 422-6269; by email suemort@chem.byu.edu

#### MENTORED RESEARCH/EXPERIENTIAL LEARNING

We strongly encourage our majors to participate in mentored learning and receive credit toward completing their major requirements. Approximately 80% of our faculty conduct independent, externally funded research and invite undergraduates to participate in on-campus mentored learning opportunities. Students initiate contact with a faculty whose research interests them. Upon acceptance to participate in a research lab, students enroll in a series of mentored research courses (CHEM 297R, 497R) throughout their academic career, culminating in a capstone research experience (CHEM 498R). Contact the department advisement center for additional information: 801-422-6269; C104 BNSN; suemort@chem.byu.edu or coffice@chem.byu.edu.

#### THE DISCIPLINE

The Chemistry Bachelor of Science degree is the preferred degree for chemistry majors (approved by the American Chemical Society), especially those who desire an advanced degree (MS or PhD) in chemistry. It also provides excellent preparation for individuals in preprofessional programs (e.g.,

## BS in Chemistry (692821) 2022-2023

Chemists and biochemists study the fundamental processes that govern the natural world, including atomic structure and how atoms interact to form molecules and materials. They study the mechanisms of chemical processes, including those that underpin living systems such as the transfer of information from DNA to RNA to proteins. They work to develop simplifying models (theories) that permit the correlation and explanation of observations about the behavior of life to the structure of rocks and minerals.

Chemistry and biochemistry provide an essential foundation for the medical sciences, engineering (especially chemical engineering), electronics, energy, environmental sciences, materials science, pharmacy, and virtually all manufacturing processes.

Chemistry and biochemistry are active branches of science that are vital to human existence. Inasmuch as the field embraces all aspects of the material world, it is subdivided into five areas of interest. Examples of these diverse areas include the regulation of protein synthesis, cellular signal transduction at the molecular level and proteomics (biochemistry), design and synthesis of medicinal compounds, catalysts and polymers (organic chemistry), design and synthesis of new molecular structures and materials (inorganic chemistry), spectroscopic study of energy transfer and molecular structures (physical chemistry), and analysis of medicinal compounds, biological materials, and contaminants or trace elements found in the environment (analytical chemistry).

Chemistry and biochemistry involve far more than test tubes and beakers. They include sophisticated methodologies such as recombinant DNA technology, working with a variety of instruments such as mass spectrometers, calorimeters, chromatographs, ultracentrifuges, lasers, X-ray diffractometers, electron microscopes and nuclear magnetic resonance spectrometers, all of which are used by undergraduate chemistry and biochemistry students at BYU. Computers also play an important role in these disciplines, with applications ranging from simulation of molecules and their interactions to the collection and analysis of data. The chemistry and biochemistry curricula are both rigorous and intellectually rewarding.

#### **CAREER OPPORTUNITIES**

Graduates in chemistry and biochemistry obtain positions in education and many different industries, performing analysis, synthesis, characterization, observation, and modeling. Those who work hard, are creative, and have intellectual curiosity are in particular demand. The discipline also provides an excellent preprofessional course of study for those interested in medicine, dentistry, law, and business.

#### 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 Chemistry and Biochemistry Advisement**

Brigham Young University C-104 BNSN Provo, UT 84602 Telephone: (801) 422-6269

#### 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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# **BYU Chemistry BS**

Requirements / Prerequisites 2022-2023 Academic Year

#### Major (76 Hours)

- Complete the following: Chem 111, Chem 112, Chem 113, Chem 201, Chem 227, Chem 351M, Chem 352M, Chem 354, Chem 381M, Chem 391, Chem 460, Chem 462, Chem 463, Chem 464, Chem 465, Chem 495, Chem 514, Chem 518, Chem
- Complete the following: Math 112, Math 113, Math 213, Math 215, Phscs 121, Phscs 123, Phscs 220
- Complete either Chem 455 or Chem 521 & 523.
- After consulting with an advisor, complete 9 hours from the following: Bio, 130, Cell 120, Chem 384, Chem 397R, Chem 455, Chem 482, Chem 496R, Chem 498R, Chem 521, Chem 523, Chem 552, Chem 553, Chem 555, Chem 563, Chem 565, Chem 567, Chem 569, Chem 581, Chem 584, Chem 586, Chem 596R. HONRS 499R

#### Minor (20.5-21.5 Hours)

- Complete one of the following options: a. Chem 111, Chem 112, Chem
  - 113. b. Chem 105. Chem 106. Chem
- 2. Complete two courses from the following: Chem 351, Chem 352, Chem 357, Chem 462. Chem 463. Chem 467. Chem 468. Chem 481.
- 3. Complete Chem 201.

\*Bio 130 or

**CELL 120** 

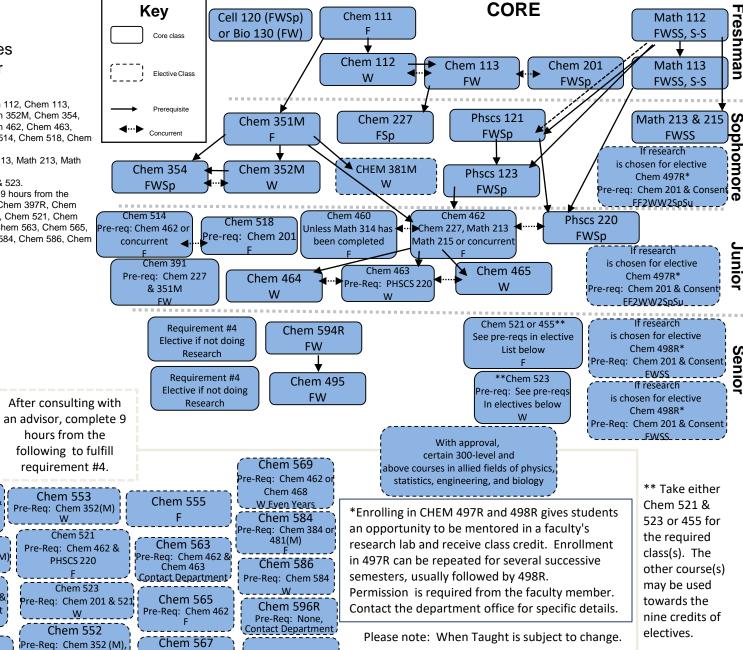
FWSS (depending on class)

**CHEM 384** 

Chem 227

W2

- Complete two hours from the following: Chem 353, Chem 354, Chem 355, Chem 464. Chem 465.
- Complete 1 of the following courses: Chem 227 or Chem 455.



Chem 397R

Pre-req: Chem 111, Chem 112, & Chem 113

Dept

Pre-Req: Chem 201 When taught: Contact & Consent

Chem 455

Pre-Req: Chem 354 8

Chem 201

Chem 482

Pre-Reg: Chem 481(M)

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Chem 496R

Pre-reg: Chem 201 &

Instructor's consent

\_FWSpSu \_

Chem 498R\*

**FWSS** 

Chem 521 Pre-Reg: Chem 462 & PHSCS 220

Chem 523 Pre-Req: Chem 201 & 521

Chem 552 Pre-Reg: Chem 352 (M),

> Pre-Req: Chem 462 & Chem 462 & Chem 463 (or 468) 463

> > Contact Department

Honrs 499R **FWSpSu** 

Only Bio 130 or Cell 120 may be used, not both. Guide only—please consult MyMAP for full requirements.

523 or 455 for the required class(s). The other course(s) may be used towards the nine credits of

> Updated 07/29/2022

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Junior

# ii handshake

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 yor 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



BYU CAREER SERVICES careers.byu.edu 1134 WSC (801) 422-3000

# Possible Careers with a Chemistry major

(Not a comprehensive list)

Agricultural engineer Agricultural research

Agronomist\* Biotechnologist

Chemical safety engineer

Chemist

Forensic scientist
Histopathologist\*
Histotechnologist
Immunologist\*

Internist\*

Independent consultant

Microbiologist\*

Neurological surgeon\*

Neurologist\* Nuclear physicist\*

Nurse anesthetist\* Nurse assistant Nurse practitioner\*

Obstetrician-Gynecologist\*
Occupational health nurse
Occupational physician\*

Optometrist\*

Oral pathologist\* Oral surgeon\* Orthodontist\*

Orthopedic surgeon\*
Osteopathic physician\*
Otolaryngologist\*

Paleontologist\*
Lab Researcher

Pathologist\*
Pediatric dentist\*
Pediatrician\*

Perfusionist Phlebotomist Physiatrist\*

Physical therapist\*

Physician\*

Physician assistant\* Physician executive\* Physician scientist\* Physiologist\* Plastic surgeon\*

Podiatrist\*

Preventive medicine physician\*

Prosthetist and orthotist\* Public health physician\*

Radiologist\*
Registered nurse
Respiratory therapist
Sanitation engineer

Sports medicine physician\*

Surgeon\*

Surgical technologist Thoracic surgeon\* Toxicologist\* Urologist\* Veterinarian\*

Veterinary technician

Zoologist\*

Companies that have hired our graduates

Neutraceutical, International Schlumberger IBC Advanced Technologies MoxTek NuSkin Millenniata

Intel ThermoFisher Scientific

NIH Beyond Labz

<sup>\*</sup>Usually requires a graduate degree