

Welcome to the

Biochemistry Major

in the College of Computational, Mathematical, and Physical Sciences

College Advisement Center

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

Chemistry and Biochemistry Department

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

Department Advisement – Sue Mortensen*

Email: suemort@byu.edu
Phone: 801-422-6261
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
Office: C-106 BNSN

Clubs

YChem: Walter Paxton, E111 BNSN, paxton@chem.byu.edu; 801-422-4917

Women in Chemistry: Pam Van Ry, C209 BNSN, pam_vanry@byu.edu, 801-422-1540

Cougs v Cancer: Cristy Welsh, MCDB 261, cancer_research@byu.edu, 801-422-3913

*Please visit Sue Mortensen in the Chemistry and Biochemistry Department (C104 BNSN) as soon as possible if you have not already done so.

Learning outcomes can be found here: <https://learningoutcomes.byu.edu/Courses/program-courses/692826/Biochemistry+BS+/1322>



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-104 BNSN, 801-422-6261, <https://chem.byu.edu/department/faculty/>
 - 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 Networking Class). Class is held for 1 hour each week.

BS in Biochemistry (692821) MAP Sheet

Physical and Mathematical Sciences, Chemistry and Biochemistry

For students entering the degree program during the 2024-2025 curricular year

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				CHEM 111	4.00	CHEM 391	3.00
Teachings and Doctrines of the Book of Mormon	1	2.00	REL A 275	MATH 112	4.00	CHEM 482	3.00
Jesus Christ and the Everlasting Gospel	1	2.00	REL A 250	UNIV 101	2.00	CHEM 584	3.00
Foundations of the Restoration	1	2.00	REL C 225	Religion Cornerstone Class	2.00	CHEM 497R (Opt U/G Resesarch)	1.00
The Eternal Family	1	2.00	REL C 200	American Heritage	3.00	PHSCS 220	3.00
BYU Foundations for Student Success				Total Hours:	15.00	GE Religion	2.00
Foundations for Student Success	1	2.00	UNIV 101			Total Hours:	15.00
The Individual and Society				<u>2nd Semester</u>		<u>6th Semester</u>	
American Heritage	1 to 2	3.00-6.00	from approved list	CHEM 112	3.00	CHEM 468	3.00
Global and Cultural Awareness	1	3.00	from approved list	CHEM 113	2.00	CHEM 586	3.00
Skills				CHEM 201	0.50	CHEM 586	3.00
First Year Writing	1	3.00	from approved list	MATH 113	4.00	PWS 340	3.00
Advanced Written and Oral Communications	1	3.00	CHEM 391*	Religion Cornerstone Class	2.00	Religion Elective	2.00
Quantitative Reasoning	1	4.00	MATH 112*	First Year Writing	3.00	CHEM 497R (Opt U/G Resesarch)	1.00
Languages of Learning (Math of Language)	1	4.00	MATH 113*	Total Hours:	14.50	GE Arts, Letters, Sciences	3.00
Arts, Letters and Sciences (Complete 6 of 7)						Total Hours:	15.00
Civilization 1	1	3.00	from approved list	SOPHMORE YEAR		<u>7th Semester</u>	
Civilization 2	1	3.00	from approved list	<u>3rd Semester</u>		CHEM 489	3.00
Arts	1	3.00	from approved list	CHEM 227	4.00	CHEM 594R	0.50
Letters	1	3.00	from approved list	CHEM 351M	3.00	Requirement 5 Option	3.00
Biological Science	1	3.00-4.00	CHEM 381M*	CHEM 297 (opt U/G research)	0.50	Chem 498R or Requirement 6 Option	3.00
Physical Science	2	7.00	CHEM 111* & PHSCS 121*	MATH 213 +215/STAT 201	3.00	Arts, Letters, Sciences GE	3.00
Social Science	1	3.00	from approved list	PHSCS 121	3.00	Global and Cultural Awareness	3.00
Core Enrichment: Electives				Religion Cornerstone Class	2.00	Total Hours:	15.50
Religion Electives	3 to 4	6.00	from approved list	Total Hours:	15.50	<u>8th Semester</u>	
Open Electives	Variable	Variable	personal choice	4th Semester		CHEM 495	1.00
Graduation Requirements:				CHEM 352M	3.00	Requirement 6 Option	3.00
Minimum residence hours requiried		30.00		CHEM 354	2.00	GE Religion	2.00
Minimum hours needed to graduate		120.00		CHEM 381M	3.00	Arts, Letters, Sciences GE	3.00
				GE Arts, Letters, Sciences	3.00	Requirement 6 Option	1.00
				CHEM 384	1.00	Requirement 6 Option	3.00
				CHEM 497R (opt U/G Research)	1.00	University Elective	1.50
				Religion Cornerstone Class	2.00	Total Hours:	14.50
				Total Hours:	15.00		

*These classes fill both university core and program requirements

Program Requirements

Requirement 1 — Complete 17 Courses

Note: With department approval Chem 105 may substitute for Chem 111; and Chem 106 for Chem 112; and Chem 107 for Chem 113. Note: Only 1 credit hour of Chem 354 is required; completion of 2 credit hours will satisfy the requirement for Chem 354 and 1 credit hour of electives under Requirement 4.

CHEM 111 - Principles of Chemistry 1 4.0
CHEM 112- Principles of Chemistry 2 3.0
CHEM 113 - Intro General Chemistry Lab 2.0
CHEM 201- Chem Handling & Safe Lab Prac 0.5
CHEM 227 - Principles of Chem Analysis 4.0
CHEM 351M - Organic Chemistry 1 - Majors 3.0
CHEM 352M - Organic Chemistry 2 - Majors 3.0
CHEM 381M - Biochem Fundamentals 3.0
CHEM 384 - Biochem Methods 1.0
CHEM 391 - Tech Writing Using Chem Lit 3.0
CHEM 468 - Biophysical Chemistry 3.0
CHEM 482 - Mechanisms of Molecular Biol 3.0
CHEM 489 - Structural Biochemistry 3.0
CHEM 495 - Senior Seminar 1.0
CHEM 584 - Adv Biochemistry Methods 1 3.0
CHEM 586 - Adv Biochemistry Methods 2 3.0
CHEM 594R - General Seminar - *You may take up to 0.5 credit hours 0.5*

Requirement 2 — Complete 1 hour

CHEM 354 - Organic Chem Lab-Major 1.0

Requirement 3 — Complete 5 Courses

MATH 112 - Calculus 1 4.0
MATH 113 - Calculus 2 4.0
PHSCS 121 - Intro to Newtonian Mechanics 3.0
PHSCS 220- Intro Electricity & Magnetism 3.0
PWS 340 - Genetics 3.0

Requirement 4 — Complete 1 of 2 Options

Option 4.1 — Complete 1 Course
STAT 201 - Stat for Engineers & Scientist 3.0
Option 4.2 — Complete 2 Courses
MATH 213 - Elementary Linear Algebra 2.0
MATH 215 - Computational Linear Algebra 1.0

Requirement 5 — Complete 1 of 5 Courses

CELL 360- Cell Biology 3.0
CELL 362 - Advanced Physiology 3.0
MMBIO 463- Immunology 3.0
MMBIO 465 - Virology 3.0
MMBIO 368 - Genomics 3.0

Requirement 6 — Complete 10 hours

After consulting with an advisor, complete 10 hours from the following. NOTE: Only one of Bio 130 or CELL 120 can be applied to this requirement. NOTE: Chem 355 cannot be taken if Chem 354 was taken for 2 credit hours. NOTE: With prior approval, many 300-level and above courses in biology, integrative biology, microbiology and molecular biology, and physiology and developmental biology will fill this requirement.

BIO 130 - Biology 4.0
CELL 120 - Science of Biology 3.0
CHEM 355 - Organic Lab 2 - Nonmajors 1.0
CHEM 397R - Mentored Outreach Svc Learning - *You may take once 0.5v*
CHEM 455 - Synthesis & Qual Organic Analy - *You may take up to 4.0 credit hours 4.0*
CHEM 460- Math for Physical Chemistry 1.0
CHEM 496R - Academic Internship - *You may take up to 3.0 credit hours 0.5v*
CHEM 498R - Capstone Experience - *You may take up to 3.0 credit hours 0.5v*
CHEM 514 - Inorganic Chemistry - *You may take up to 4.0 credit hours 3.0*
CHEM 518 - Advanced Inorganic Laboratory - *You may take up to 4.0 credit hours 2.0*

CHEM 521 - Instrumental Analysis Lecture - *You may take up to 4.0 credit hours 2.0*
CHEM 523- Instrumental Analysis Lab - *You may take up to 4.0 credit hours 2.0*
CHEM 552- Advanced Organic Chemistry - *You may take up to 4.0 credit hours 3.0*
CHEM 553 - Advanced Organic Chemistry - *You may take up to 4.0 credit hours 3.0*
CHEM 563 - Reaction Kinetics - *You may take up to 4.0 credit hours 3.0*
CHEM 565 - Intro to Quantum Chemistry - *You may take up to 4.0 credit hours 3.0*
CHEM 567 - Statistical Mechanics - *You may take up to 4.0 credit hours 3.0*
CHEM 569 - Fundamentals of Spectroscopy - *You may take up to 4.0 credit hours 3.0*
CHEM 581 - Adv Biochemical Methodology 1 - *You may take up to 4.0 credit hours 3.0*
CHEM 583 - Adv Biochemical Methodology 2 - *You may take up to 4.0 credit hours 3.0*
CHEM 596R - Special Topics in Chemistry - *You may take up to 3.0 credit hours 0.5v*
HONRS 499R - Honors Thesis - *You may take up to 3.0 credit hours 0.5v*
PHSCS 123- Intro to Waves, Optics, Thermo 3.0

Recommended Courses are not required to complete the program

Recommended Courses: Chem 460.

Note: Supporting courses suggested by most medical and dental schools are found by visiting the Preprofessional Advisement Office. The more rigorous chemistry, mathematics, and physics courses required for the chemistry majors will satisfy the minimum requirements listed there. Elective courses in biochemistry and in biological science are especially pertinent to these preprofessional programs.

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, usually after 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

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.

THE DISCIPLINE

The Biochemistry Bachelor of Science degree provides excellent preparation for students preparing for health-related fields (medicine, dentistry, veterinary medicine) or for those who desire an advanced degree (MS or PhD) in biochemistry, molecular biology, or the health sciences. 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

Computational, Mathematical & Physical Sciences

Brigham Young University

N-181 ESC

Provo, UT 84602

Telephone: (801) 422-2674

BYU

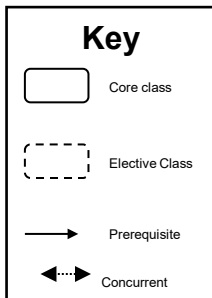
Biochemistry BS

Requirements / Prerequisites 2024-2025 Academic Year

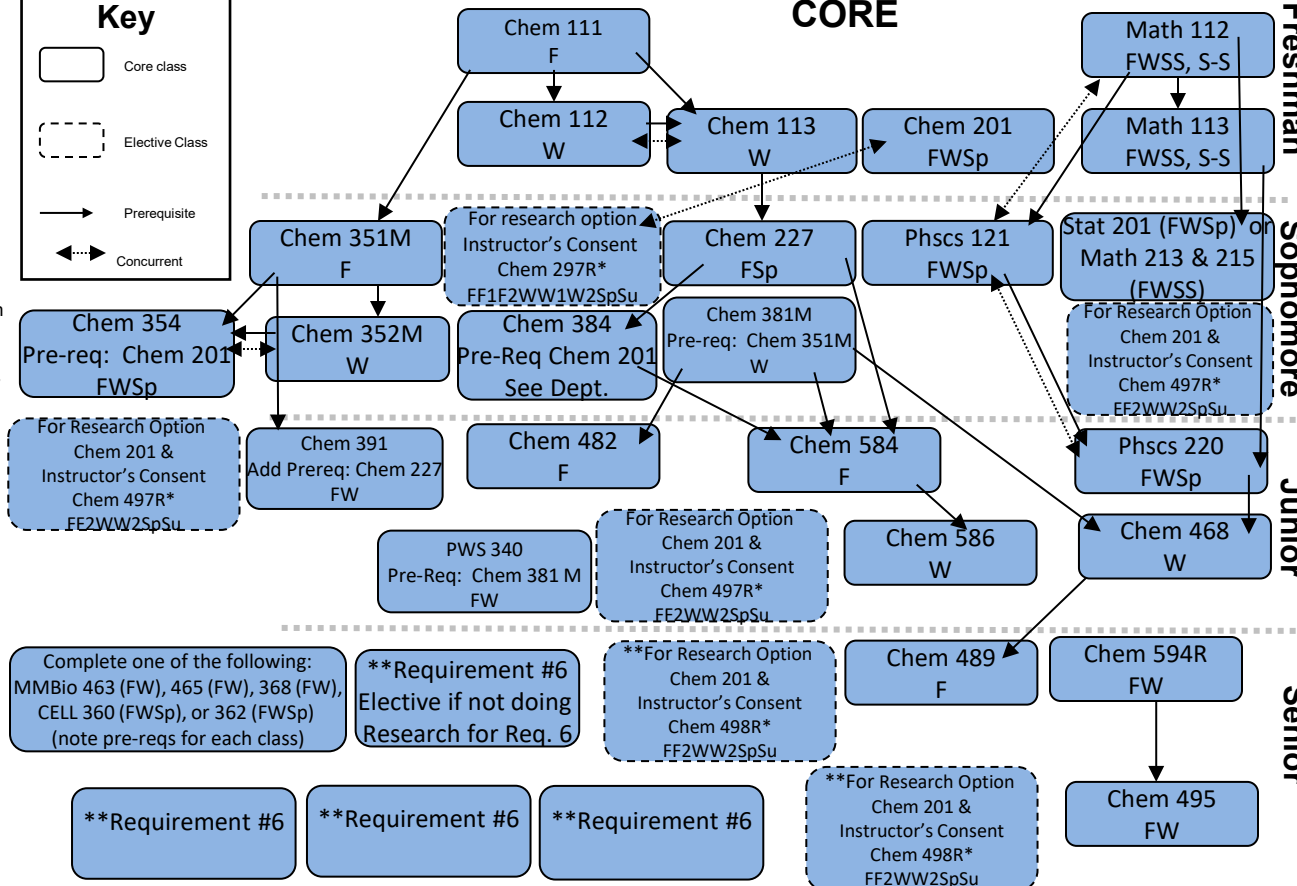
Major (77 Hours)

- Complete the following: Chem 111, Chem 112, Chem 113, Chem 201, Chem 227, Chem 351M, Chem 352M, Chem 381M, Chem 384, Chem 391, Chem 468, Chem 482, Chem 489, Chem 495, Chem 584, Chem 586, Chem 594R
- Complete 1 hour: Chem 354
- Complete the following: Math 112, Math 113, Phscs 121, Phscs 220, PWS 340.
- Complete either Stat 201 or Math 213 and 215.
- Complete one course from the following: CELL 360, CELL 362, MMBIO 463, MMBIO 465, MMBIO 368.
- After consulting with an advisor, complete 10 hours from the following: Biol 130, Cell 120, Chem 355, Chem 397R, Chem 455, Chem 460, Chem 496R, Chem 498R, Chem 514, Chem 518, Chem 521, Chem 523, Chem 552, Chem 553, Chem 563, Chem 565, Chem 567, Chem 569, Chem 581, Chem 583, Chem 596R, Honrs 499R, PHSCS 123.
- Note: Only one of Bio 130 or Cell 120 may be used towards requirement 5. If Chem 354 was taken for 2 credits, Chem 355 cannot be taken to fill requirement 4. For Biochemistry majors Chem 354 should be taken for one credit.

**After consulting with an advisor, complete 10 hours from the following to fulfill requirement #6.



CORE



Biol 130
Pre-Req: None
FW
Or
CELL 120
Pre-Req: None
FWSp

Chem 355
Pre-Req: Chem 353
FWSS

Chem 455
Pre-Req: Chem 354
Or Chem 353; Chem 201
F

Chem 397R
Pre-req: Chem 111,
Chem 112, & Chem 113
When taught: Contact
Dept

Chem 460
Pre-Req: Math 113 & 213
Concurrent
with Chem 462
F

Chem 496R
Pre-req: Chem 201 &
Instructor's consent
FWSS

Chem 498R*
Pre-Req: Chem 201 and
Instructor's consent
FWSpSu
Up to 3 hours

Chem 514
Pre-Req: Chem 462 or
Chem 468
F

Chem 518
Pre-Req: Chem 514 &
Chem 201 or 601
F

Chem 521
Pre-Req: Chem 462, or
467, or 468
& Phscs 220
E

Chem 523
Pre-Req: Chem 521 &
Chem 201 or 601
W

Chem 552
Pre-Req: Chem 352 (M),
Chem 462 &
Chem 463 (or 468)
F

Chem 553
Pre-Req: Chem 352 (M)
W

Chem 563
Pre-Req: Chem 462 &
Chem 463
Contact Dept.

Chem 565
Pre-Req: Chem 462
Or Chem 467
W

Chem 567
Pre-Req: Chem 462 &
463
W Contact Dept.

Chem 569
Pre-Req: Chem 462 or
Chem 468 or 467
E

Chem 581
Pre-Req: Chem 482
F

Chem 583
Pre-Req: Chem 482
W

Chem 596R
Pre-Req: Contact
Department and for
When Taught

Honrs 499R
FWSS

PHSCS 123
Pre-req: PHSCS 121
FWSp

With approval,
many 300-level and above courses in
biology, integrative biology,
microbiology and molecular biology,
and physiology and developmental biology
will fill this requirement.

*Enrolling in CHEM 497R and 498R (up to 3 hours) gives students an opportunity to be mentored in a faculty's research lab and receive class credit. Enrollment in 497R can be repeated for several successive semesters, usually followed by 498R. Chem 497R requires instructor consent and Chem 201 as a pre-req. Chem 201 may be taken concurrently. Permission is required from the faculty member. Contact the department office for specific details.

Updated 09/18/2024

Note: When Taught is subject to change.

Guide only—please consult MyMAP for full requirements.

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 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

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



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!

Possible Careers with a Biochemistry major

(Not a comprehensive list)

*Usually requires a graduate degree

Agricultural engineer	Lab safety manager	Physiologist*
Agricultural research	Medical Doctor*	Process chemist
Agronomist*	Medical Physician*	Professor*
Biotechnologist	Microbiologist*	Prosthetist and orthotist*
Chemical hygiene officer	Neurologist*	Quality assurance & control manager
Chemical safety engineer	Nuclear physicist*	Regulatory compliance officer
Chemist	Nurse/Nurse Practitioner*	Respiratory therapist
Dentist*	Orthodontics*	Sanitation engineer
Environmental chemist	Paleontologist*	Surgeon*
Environmental health & safety technician	Patent examiner	Surgical technologist
Forensic scientist	Patent lawyer*	Technical sales & marketing rep
Health physicist*	Peptide chemist*	Toxicologist*
Independent consultant	Perfusionist	Urologist*
Industrial chemist	Pharmacist*	Veterinarian*
Industrial manager	Phlebotomist	Veterinary technician
Internist*	Physiatrist*	Zoologist*
Junior high or high school teacher	Physical therapist*	
Lab Researcher	Physician assistant*	
	Physician executive*	
	Physician scientist*	

For a more comprehensive list, scan here:



Companies that have hired our graduates

Neutraceutical, International	ThermoFisher Scientific	Northrop Grumman
Schlumberger	NIH	Jacobs
IBC Advanced Technologies	Beyond Labz	Clorox Company
MoxTek	Pfizer	Edwards Life Sciences
NuSkin	Eli Lilly	Octant
Millenniata	Intel	Huntsman Cancer Institute
Intel	Recursion	DOE National Labs