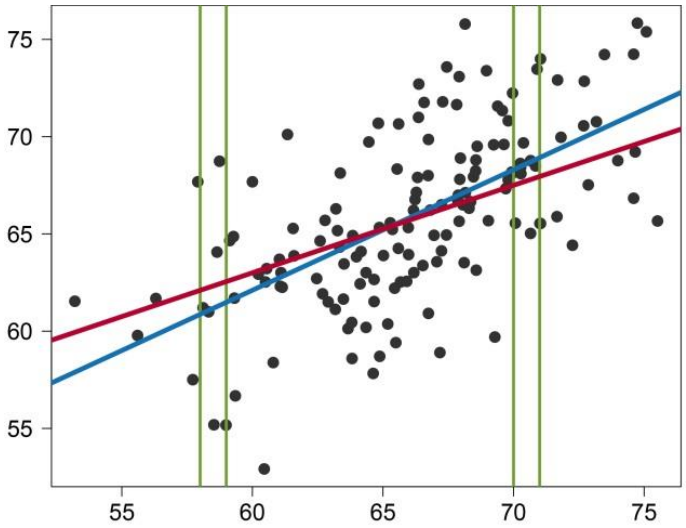
Welcome to the

Actuarial Science Major

in the College of Computational, Mathematical, and Physical Sciences

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

Statistics Department
- Website: statistics.byu.edu
- Email: statsec@stat.byu.edu
- Phone: 801-422-4505
- Office: WVB 2152



Undergraduate Department Advisor – Kimri Mansfield
- Email: kmansfield@stat.byu.edu
- Phone: 801-422-4506
- Office: WVB 2152D

Actuarial Advisor-- Brian Hartman
- Email: hartman@stat.byu.edu
- Phone: 801-422-5647
- Office: WVB 2193

Internship Coordinator –Kimri Mansfield
- Email: kmansfield@stat.byu.edu
- Phone: 801-422-4506
- Office: WVB 2152D

Career Services – Sara Larson
- Website: careers.byu.edu
- Email: sara_larson@byu.edu
- Schedule: https://science.byu.edu/careers
- Office: 2173 WVB

Department Student Hiring – Renea Scott
- Website: statistics.byu.edu/teaching-assistant
- Email: rscott@stat.byu.edu
- Phone: 801-442-4527
- Office: WVB 2152A

Club - Mu Sigma Rho Club, Analytics Club
- Contact: Kimri Mansfield
- Contact Information: WVB 2152D, 801-422-4506, kmansfield@stat.byu.edu

Club- BYU Statistics Association
- Contact: Jamie Perrett
- Contact Information: perrett@stat.byu.edu, 801-422-6053, https://statistics.byu.edu/byu-statistics-association

Learning outcomes can be found here: https://learningoutcomes.byu.edu/Courses/program-courses/695224/Actuarial+Science+BS+/1329

Things to Know

Resources for Graduation Planning

- Flow Charts and Packets can be found here: https://science.byu.edu/advisement/explore-majors-and-minors.
- MAPs can be found in the university catalog.
- 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/department/faculty/
  - Computer Science: 3361 TMCB, 801-422-3027, cs-office@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: A180 ESC, 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 careers.byu.edu.
- Visit BYU's Career Studio to work on your resume, cover letter, or other professional documents; learn to navigate LinkedIn, Handshake, and CareerShift; receive networking help; practice interview skills.
- 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 or department 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.

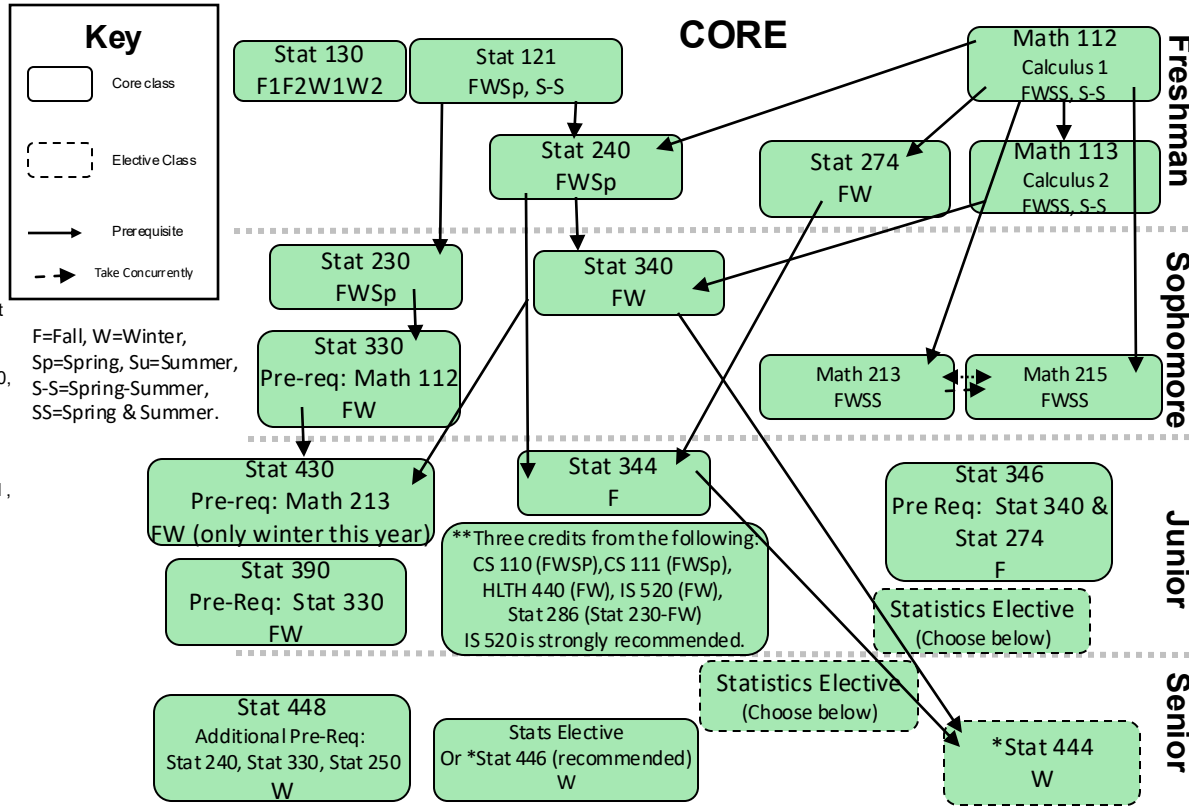
BYU Actuarial Science

Requirements / Prerequisites
2026-2027
Academic Year

Major (58 Hours)

1. **For more information about additional exams and Validation by Educational Experience (VEE), check the MAP and the department.
2. Complete the following courses: Stat 121, Stat 130, and Stat 274
3. Complete the following courses: Stat 230, Stat 240, Stat 330, Stat 340, Stat 390, Stat 430.
4. Complete the following courses: Math 112, Math 113, Math 213, Math 215
5. Complete 3.0 hours from the following courses: CS 110, CS 111, HLTH 440, IS 520, or Stat 286.
6. Complete the following three courses: Stat 344, Stat 346, and Stat 448.
7. Complete three hours from the following: Stat 444 or Stat 446.
8. Complete an additional 9 hours from the following list (courses in requirement 4 and 6 do not double count here): Acc 200, Econ 110, Fin 201, IS 515, IS 520, Stat 234, Stat 251, Stat 281, Stat 286, Stat 381, Stat 386, Stat 395R, Stat 435 (not taught this year), Stat 437, Stat 444, Stat 446, Stat 451, Stat 466, Stat 469, Stat 482, Stat 483, Stat 486, Stat 487, Stat 495R (up to three hours), Stat 496R, Stat 497R (up to three hours total between Stat 496R and 497R), Stat 531.

* Note it is recommended that students take Econ 110, Acc 200, Fin 201 to complete the SOA VEEs. Additionally, IS 515 and IS 520 are exceptionally valuable in the daily work of an actuary.



9 Hours Electives

- Acc 200 — FWSS
- Econ 110 — FWSS — Contact department
- Fin 201 — FWSp
- IS 515 — Pre-Req: IS 201 or equivalent — FW
- IS 520 — Pre-Req: IS 201 or equivalent — FW
- Stat 234 — Pre-Req: Stat 121 or 201 — F
- Stat 251 — Pre-Req: Stat 250, Stat 240 & Math 113 — FW
- Stat 281 — Pre-Req: Stat 121 or 201 — W
- Stat 286 — Pre-req: Stat 230 — FW
- Stat 381 — Pre-req: Stat 223, Stat 224 & Stat 330 — W
- Stat 386 — Pre-req: Stat 121 & CS 111 — FW
- Stat 395R — FW
- Stat 435 — Pre-Req: Stat 330 & Stat340 — Contact Department
- Stat 437 — Pre-Req: Stat 330 & Stat 340 — W
- Stat 444 — Pre-Req: Stat 340 & Stat 344 — W
- Stat 446 — Pre-Req: Stat 346 — W
- Stat 451 — Pre-Req: Stat 251 & 330 & 340 — W
- Stat 466 — Pre-Req: Stat 251, Stat 330, & Stat 340 — (not taught this year)
- Stat 469 — Pre-Req: Stat 330 & Stat 340 — F
- Stat 482 — Pre-Req: Stat 286, Stat 330, Stat 340 — Contact Department
- Stat 483 — Pre-Req: Stat 482 — Contact Department
- Stat 486 — Pre-Req: Stat 330 & 340 & 386 — FW
- Stat 487 — Pre-Req: Stat 330 & 340 & 386 — F (not this year)
- Stat 495R — Pre-Req: None — When Taught: Contact Dept.
- Stat 496R — Pre-Req: Dept. Consent (up to 3 credits) — When Taught: Contact Dept.
- Stat 497R — Pre-Req: Dept. Consent (Variable) — When Taught: Contact Dept.
- Stat 531 — Pre-req: Stat 330 & Stat 340 & Math 213 — F

*Take Stat 444 (W) or 446 (W). Both may be taken and the second may be used as an elective. Taking Stat 444 is preferred as it could complete an exam.

**Actuaries are strongly encouraged to take IS 520

Guide only—please consult MyMAP for full requirements.

Please Note: When Taught is subject to change

Updated 8/11/2026

Handshake

At A Glance

Handshake is BYU's own job board. Employers who want to hire BYU graduates or offer internships to current students post their job openings to this website and students can 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 with your netid@byu.edu

1. Download Handshake App

- Select Continue with School
- Type in "Brigham Young University"
- Select School Login
- 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 funcions of the website that have been previoiusly mentioned

2. Complete Your Profile

- 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
- Information from your transcript is already uploaded
- Make your profile discoverable to employers

Remember: Every word in your profile will be searchable by students and employers

3. Apply For Jobs

- Search collections related to your major
- Search for job titles, employers, or skills
- Apply for interesting jobs that meet your skill set

4. Research Companies

- Under the Jobs tab there is an Employers tab
- Use keywords or locations to search for companies that are the right fit for you
- Plan to attend employer info sessions on BYU Campus, connect with employers at Career Fairs or set up informational interviews with them.

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!

5. Explore Fellow Students

- Use the People tab to find peers
- Search for fellow BYU students to view their profiles and job positions
- Attend events

Employers are
5x more likely
to view a profile that has at least one job, skill, and organization.

6. Attend Events

- The Events tab will be your key to finding info sessions interviews, and Career Fairs
- Make sure to save events you are interested in and RSVP so you do not forget to attend
- Spread the word to your friends on social media
- Use Collections to filter results in your major

BYU Career Services
1134 WSC
(801) 422-3000
careers.byu.edu

Career Services studio!

Handshake Profile Rubric

Name: Reviewer: Date:

Meets and/or Exceeds Expectations	Partially Meets Expectations	Does Not Meet Expectations
Profile includes a photo that is professionally appropriate for the student's intended industry.	Profile includes a photo but it is not professionally appropriate.	Profile does not include a photo.
My Journey section includes specific information about the student's skills, experience, and goals. The section is free from grammatical and spelling errors.	My Journey section is vague. Summary contains one or more grammatical/spelling errors.	Student has not written anything in the My Journey section.
Expected graduation date has been added to Education section.		Expected graduation date has not been added to Education section.
Experience section includes at least 2 entries. Each entry includes title, employer, dates, location and a description of the work done.	Experience section includes 2 entries but no description of work is provided.	Experience section contains less than 2 entries.
The Job Hunt, Cities, and Industries fields of the Your Career Interests section are complete.	Fill out entire Career Interests section on profile (especially types of jobs) and where you are interested in living sections (partially).	The Job Hunt, Cities, and Industries fields of the Your Interests section are not complete.
Profile includes at least 3 skills.	Profile includes 1-2 skills.	Profile does not include any skills.
A resume is uploaded to profile and is viewable by employers (public).	A resume is uploaded to the profile but not viewable by employers.	A resume is not uploaded to the profile.

All other fields/categories make your profile more robust, which makes it more likely to be viewed by employers and promote your brand.

BE AN ACTUARY.

If you like math, are skilled with numbers, and are interested in a fulfilling and rewarding career, then a career as an Actuary might be for you!



"I enjoy the actuarial profession for its complex math challenges, competitive compensation, and well-respected brand!"

Carlo Lahura, FCAS,
Actuarial Consultant,
Ernst & Young

WHAT IS AN ACTUARY?

Actuaries manage risk by designing creative ways to reduce the likelihood and impact of undesired events that occur. They also help people and organizations plan for the future and protect themselves from loss and hardships.

For example, actuaries:

- Assess various characteristics to determine how much an insurance company should charge for auto insurance.
- Develop life insurance products so people can feel secure that their families will be cared for in the event of an accident.
- Create companies' retirement plans so their employees can retire comfortably.

Actuaries are leading professionals who manage today's complex risks using a combination of strong analytical skills, business knowledge, and understanding of human behavior.

An entry level actuary with 1-2 exams passed will draw a starting salary of $60K–$80K (USD) depending on region and industry. Experienced Fellows have the potential to earn upwards of $250K annually.

A TOP-RANKED JOB

A career as an Actuary is hard to beat in almost every category: work environment, employment outlook, job security, growth opportunity, salary, and much more.

We have the satisfaction of solving relevant problems that have an impact on society. Actuaries are well-compensated and earn while they learn. We enjoy a great work/life balance, low stress, and our work is intellectually stimulating.

It only makes sense that Actuary is consistently rated as one of the best jobs in the U.S.



"As actuaries, our work helps society better face foreseen and unforeseen risks – we develop and maintain financial structures that allow people to navigate an uncertain future."

Kezia Charles, FSA,
Director, Retirement,
Willis Towers Watson

WHERE DO ACTUARIES WORK?

Insurance companies can't function without actuaries, but you can also find actuaries in:

- Consulting
- Government
- Technology companies
- Colleges and universities
- Banks and investment firms
- Accounting firms

Fun fact: actuaries work in key analytical roles at technology companies like Uber, Google, and Expedia, to name a few!



"I enjoy explaining complex things in a clear manner through the ecosystem we call the insurance industry – to me, an actuary is an engineer of financial wellness."

Carlos Orozco, FSA,
Director and Actuary,
Prudential Financial

ACTUARIAL EXAMINATIONS

Actuaries in the U.S. and Canada achieve professional status by passing a set of examinations and completing other requirements prescribed by the Casualty Actuarial Society (CAS) or the Society of Actuaries (SOA). Most employers prefer to hire candidates who have already passed at least one or two exams.

Actuarial candidates receive on-the-job training while completing the examination process. Employers invest in your success by providing study time during working hours, paying exam fees, and awarding raises for each exam passed.

PREPARING TO BE AN ACTUARY

If you want to be an actuary, start preparing now!

High School

- Choose classes that prepare you for college.
- Take math classes every year.
- Make the most of Advanced Placement (AP) and advanced courses such as statistics and calculus.
- Enroll in computer science courses to develop your computer skills.



College

- Aim for a broad-based education concentrating on mathematics and business (with a finance emphasis).
- Don't rule out a major in subjects like economics, business, liberal arts, or finance. A degree in math, statistics or actuarial science is helpful, but not mandatory, and a double major might be a plus.
- Build a strong mathematical background whatever your major. Your curriculum should include calculus, probability and statistics, and any courses your school offers in actuarial science.
- Increase your career options. Take business courses, such as finance, accounting, management, economics and computer science.
- Develop the communication skills that Actuaries need with English, speech and business courses.
- Round out your capabilities with courses in the social sciences and humanities because actuaries are involved in a growing variety of social and political issues .
- Plan to take 1-2 actuarial exams in college (highly recommended).

Want to learn more?
Visit **BeAnActuary.org today!**

BE AN ACTUARY. Follow us: