

# MATHEMATICS: ACTUARIAL EMPHASIS

## MAJOR MAP 2024



### GETTING STARTED

#### YOUR COURSE JOURNEY

- Take Calculus Courses and Introductory Computing courses
- Consider which type of mathematics major is most interesting to you
- Apply for SMCPA scholarships each year
- Begin taking Economics (110 and 111) and Accounting (210) courses

#### KNOWLEDGE AND SKILLS

- Develop skills in mathematical modeling, in problem solving, and in using mathematical language
- Visit the STEM Tutoring Center or utilize other tutoring options from the Tutoring-Learning Center (TLC) for support in multiple classes

#### ACT LOCALLY AND GLOBALLY

- Join the Math Club or other student organizations of interest
- Look into a study abroad program

#### CAREER READINESS

- Look for a job on campus using Quest
- Create a college resume
- Complete your Handshake profile
- Learn about and practice networking by attending a Networking Workshop or the All-Major Career and Internship Fair

### MAKING PROGRESS

- Complete Foundation Courses in the major and take MATH 356/357: Probability and Statistics as soon as you are eligible
- Take Math 358 soon after you complete Math 356. Then study more for Actuarial Exam P. Register in advance and then take that exam
- Talk to your faculty adviser or one of your math professors about when Math 362 will be offered next

- Continue to develop a variety of mathematical techniques
- Study for Actuarial Exam P once you have completed Math 356. Register in advance and then take that exam
- Consider tutoring in the MathPad or the TLC as a great way to solidify your own mathematical knowledge and communication skills while supporting others

- Consider taking the Putnam Seminar (Math 395) and the national Putnam Mathematical Competition in any fall semester
- Consider studying abroad

- Explore requirements for full-time jobs which use actuarial science
- Conduct an informational interview or job shadow with someone who works in a field of interest
- Further develop application materials, including a cover letter, more curated Handshake profile, and/or creating a LinkedIn profile
- Conduct a Gap Analysis

### MAKING PROGRESS

- Continue taking Core Courses in the major
- Determine your major elective courses with your faculty adviser
- Consider taking Actuarial Exam FM once you complete Math 362

- Develop advanced skills in modeling and using mathematical language
- Study for Actuarial Exam FM once you start taking Math 362

- Explore internship opportunities with local and regional companies
- Contribute to volunteer efforts in the community
- Consider attending MACC (Milwaukee Actuarial Collegiate Conference) or other regional actuarial conferences

- Attend an Interviewing Workshop; seek additional preparation tools
- Gain internship or similar work experience in your field. A position using analytical thinking is productive
- If considering graduate school, research your options and understand testing requirements and application timelines
- Pursue opportunities at the All-Major Career and Internship Fair

### PREPARING FOR WHAT'S NEXT

- Complete the remaining courses in the major
- Apply for graduation

- Recognize interconnected ideas in mathematics and discover connections between mathematics, economics, computing, and other disciplines
- Consider additional business, computing, or economics courses to deepen your understanding of your future profession

- Apply your experiences to your job or grad program application materials
- Network with UWSP Alumni on LinkedIn
- Join relevant professional associations. Take advantage of virtual and in-person networking opportunities

- Start job searching or apply to graduate programs. Solidify primary targets and refine your materials
- Confirm references and invite them to review your application materials
- Meet with your major's Career Coach to work through stuck points
- Complete the Graduation Exit Survey when you receive it via email; we want to celebrate your accomplishments!

### CAREERS

- Actuarial Analyst
- Predictive Modeler
- Data Engineer
- Budget Analyst
- Project Engineer
- Production Manager
- Statistical Analyst
- Estimator

and many more!

## AVAILABLE ONLINE

Major Map documents are available online with additional information!

The staff and faculty at the University of Wisconsin Stevens Point want to help you craft your personal journey. Use this map as a jumping off point for conversations about your goals.

