

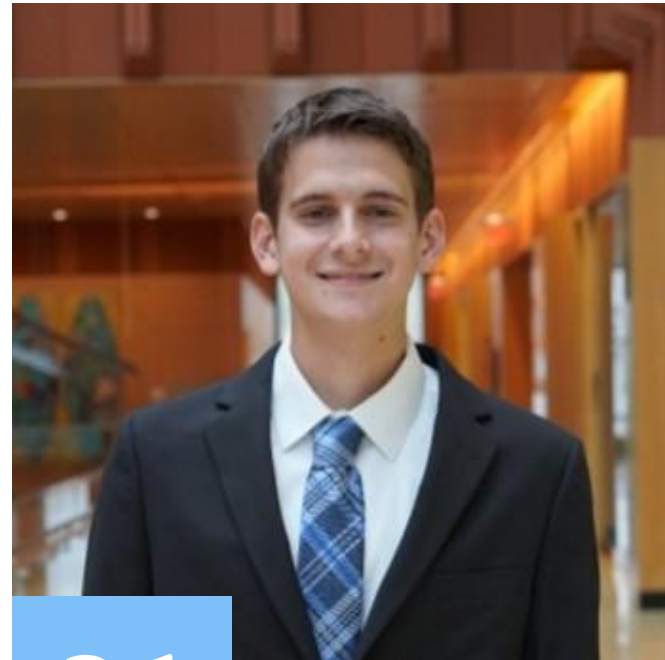
# SAM New Member Orientation



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Wednesday, September 6, 2023

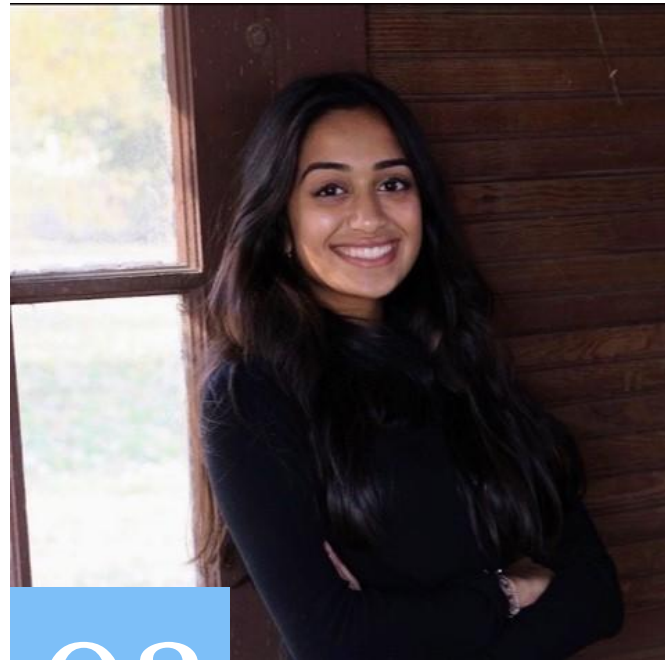
# Meet the Team!



01

**Trent Cappaert**

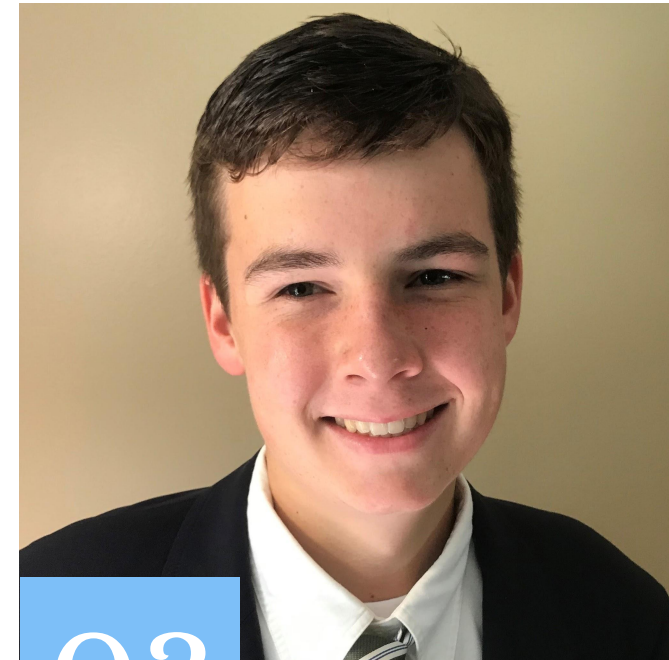
Treasurer



02

**Sajni Patel**

Underclassmen  
Ambassador



03

**Scott Rolf**

IM Sports Chair



*Sign In!*

# Agenda

01

Actuarial Profession

02

About SAM

03

Actuarial Curriculum

04

Scholarship Information

05

Advice from SAM

06

Important Info. &  
Questions!

# Actuarial Profession

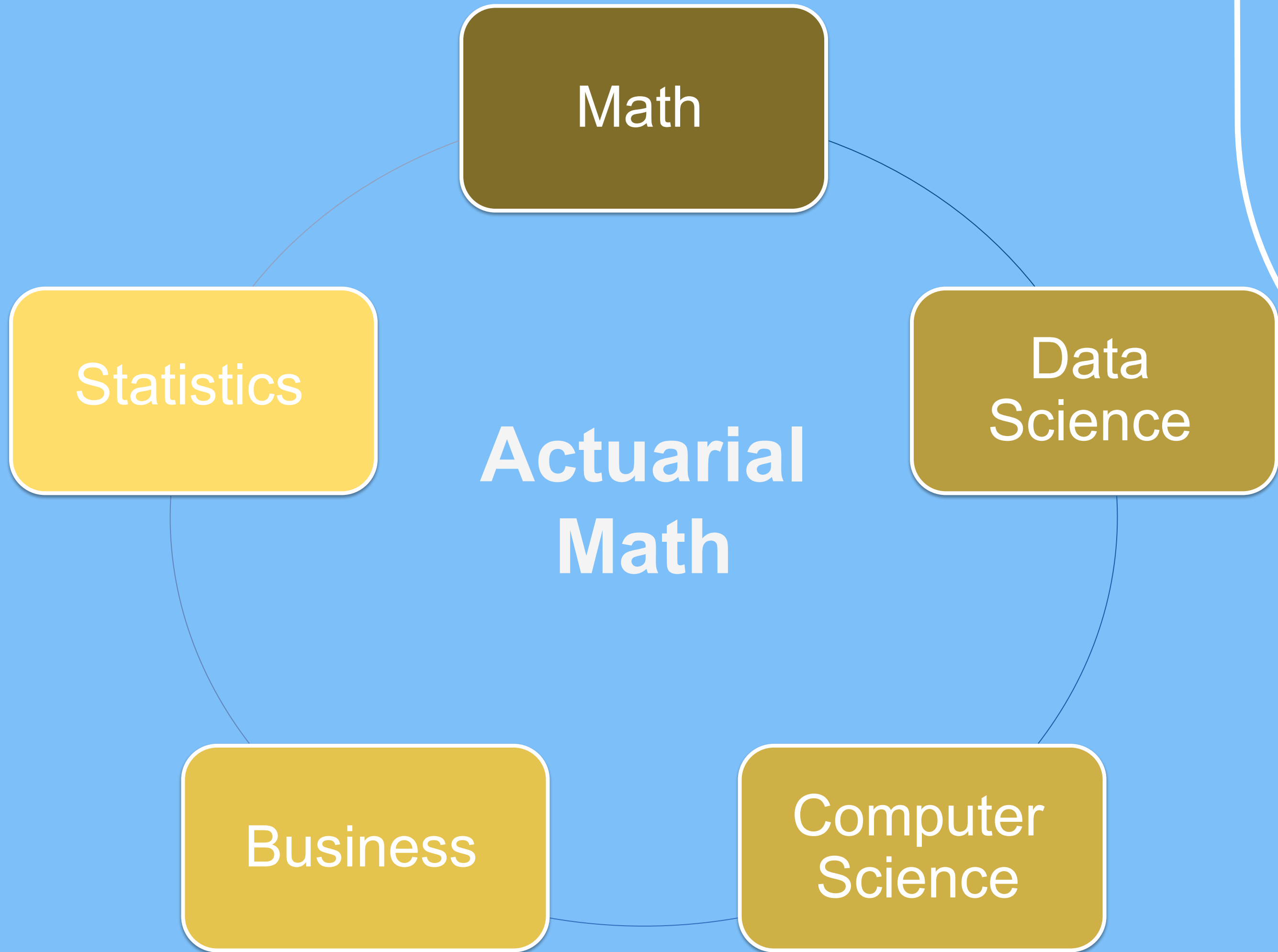
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01

# What is an actuary?

- ▶ **Actuary:** A business professional who analyzes the consequence of **risk**





Math

Data  
Science

**Actuarial  
Math**

Statistics

Computer  
Science

Business

# Why Should I Become an Actuary?



## Top Ranked Job

#1 Job by Forbes



## Work Life Balance

Flexible hours, low stress, hybrid work



## High Demand & Growth

Growing industry with advancement opportunities



## No Graduate School

Work immediately after Undergrad



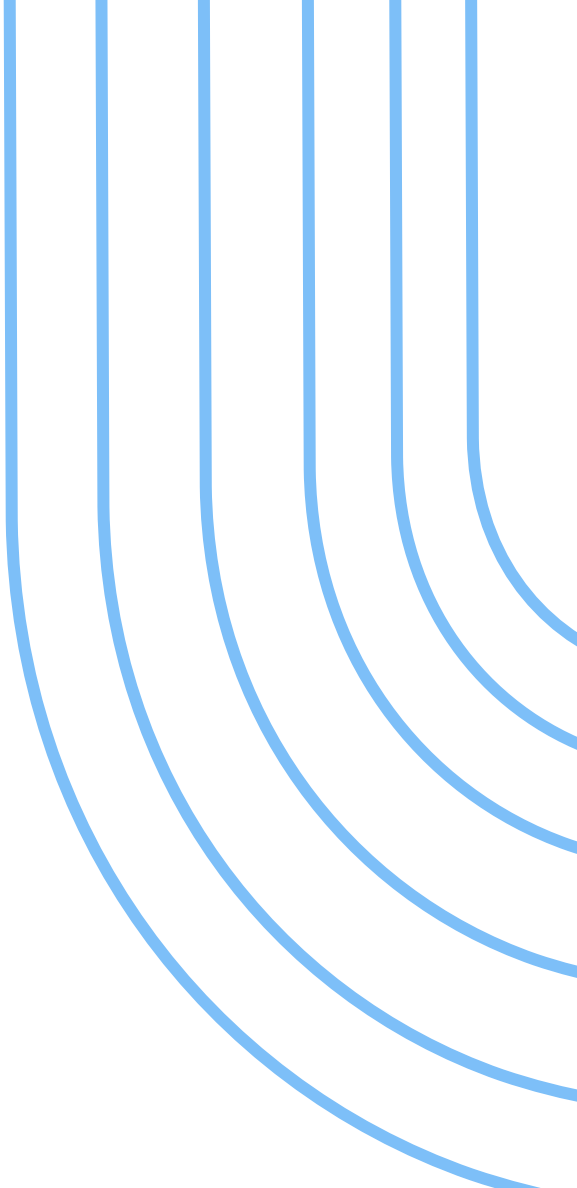
## High Salary

Top paying job



## Make a Difference

Interesting and rewarding work





# What is an actuarial exam?

Actuaries must pass a series of exams in order to become certified by either the Society of Actuaries (SOA) or the Casualty Actuary Society (CAS)



Actuarial  
Math  
Degree



Actuarial  
Exams

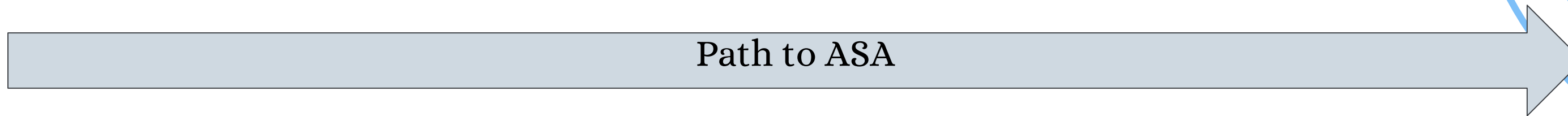
















Internships  
and Jobs



Get  
Money!

# SOA Exam Pathway



FOUNDATIONS	ACTUARIAL I	ACTUARIAL II	ADVANCED	PROFESSIONALISM
<b>EXAM</b> FINANCIAL MATHEMATICS 	<b>EXAM</b> FUNDAMENTALS OF ACTUARIAL MATHEMATICS 	<b>EXAM</b> ADVANCED LONG-TERM ACTUARIAL MATHEMATICS OR ADVANCED SHORT-TERM ACTUARIAL MATHEMATICS 	<b>e-LEARNING</b> FUNDAMENTALS OF ACTUARIAL PRACTICE 	<b>SEMINAR</b> ASSOCIATESHIP PROFESSIONALISM COURSE
<b>EXAM</b> PROBABILITY 	<b>VEE</b> MATHEMATICAL STATISTICS 	<b>EXAM</b> PREDICTIVE ANALYTICS 	<b>e-LEARNING</b> ADVANCED TOPICS IN PREDICTIVE ANALYTICS	
<b>VEE</b> ECONOMICS 				
<b>VEE</b> ACCOUNTING AND FINANCE 	<b>EXAM</b> STATISTICS FOR RISK MODELING 			
<b>e-LEARNING</b> PRE-ACTUARIAL FOUNDATIONS 	<b>e-LEARNING</b> ACTUARIAL SCIENCE FOUNDATIONS 			



Content is covered in Michigan Actuarial Math courses and fees reimbursed by SAM

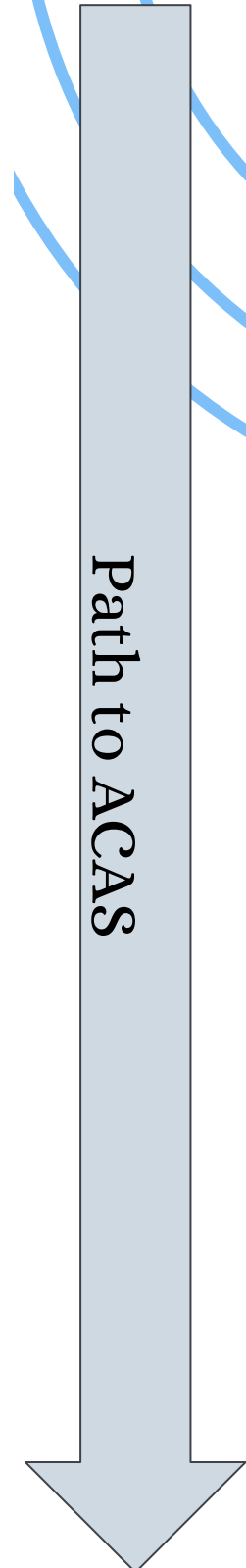


Fees reimbursed by SAM

# CAS Exam Pathway

2022 CAS Education Requirements to ACAS
Accounting and Corporate Finance
Economics
Exam 1* – Probability
Exam 2* – Financial Mathematics
Exam 3F* – Models for Financial Economics
Modern Actuarial Statistics I
Modern Actuarial Statistics II
Exam 5 – Basic Techniques for Ratemaking and Estimating Claim Liabilities
Exam 6 – Regulation and Financial Reporting (Nation-Specific)- US, Canada, Taipei
Online Course 1 – Risk Management and Insurance Operations
Online Course 2 – Insurance Accounting, Coverage Analysis, Insurance Law, and Insurance Regulation

2023 CAS Education Requirements to ACAS	
Accounting and Corporate Finance	✓
Economics	✓
Exam 1* – Probability	✓
Exam 2* – Financial Mathematics	✓
Online Course 1 – Risk Management and Insurance Operations	💰
Online Course 2 – Insurance Accounting, Coverage Analysis, Insurance Law, and Insurance Regulation	💰
<b>NEW!</b> Online Course 3 – Data Concepts	💰
Modern Actuarial Statistics I	✓
Modern Actuarial Statistics II	✓
Exam 5 – Basic Techniques for Ratemaking and Estimating Claim Liabilities	
Exam 6 – Regulation and Financial Reporting (Nation-Specific)- US, Canada, Taipei	



Content is covered in Michigan Actuarial Math courses and fees reimbursed by SAM



Fees reimbursed by SAM

# Student Actuaries at Michigan (SAM)

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02

# Yearly Cycle

## Student Actuaries at Michigan



# Be an Active Member

- **Mentorship Program**

- connect with an experienced upperclassmen

- **Speaker Series**

- build connections with Employers

- **Workshops**

- build your technical skills, resume, interview skills, etc.

- **Career Expo**

- familiarize yourself with Employers

# 8th Annual Actuarial Career Expo

## **Who?**

25+ Employers

## **Where?**

Michigan Union

## **When?**

September 21,  
12-3 PM

## **Interview Day**

Up to Employer

## **Dress Code**

Business  
Professional

## **Resume Book**

Submit by: 9/13

# Actuarial Curriculum

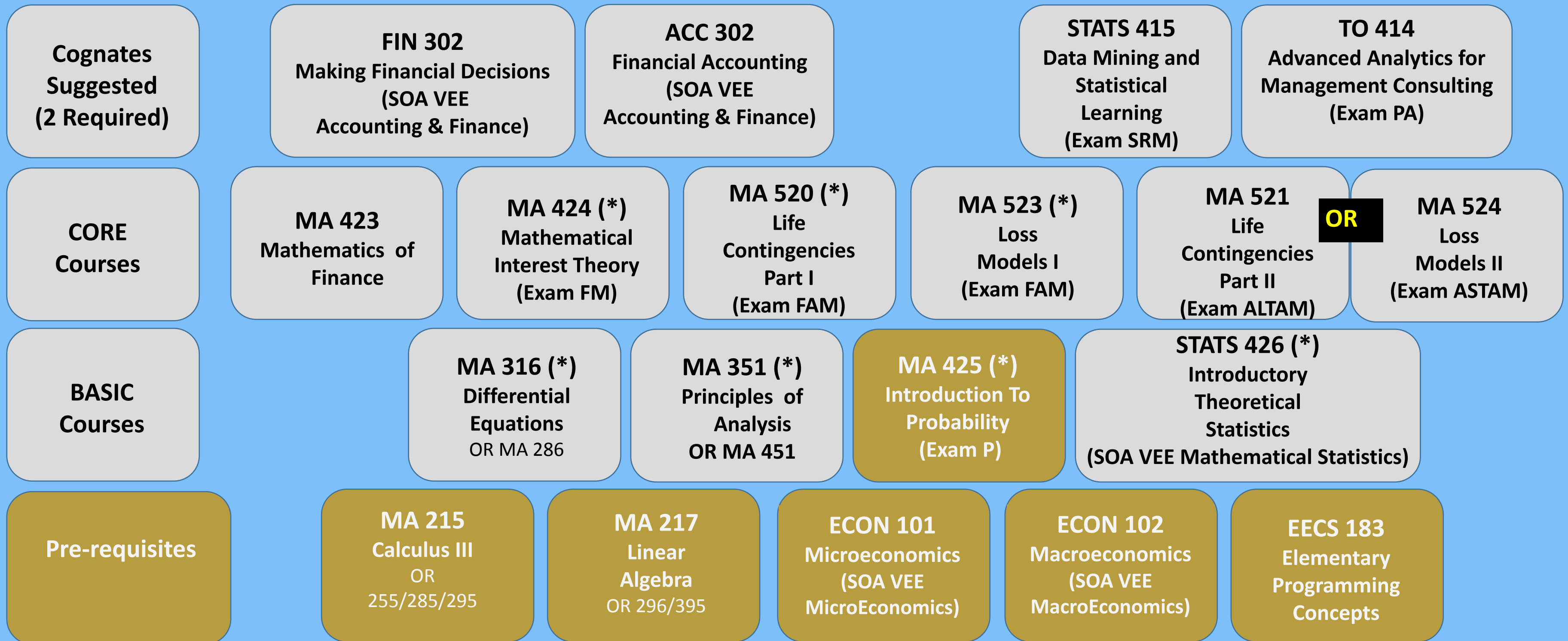
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03



# Actuarial Course Requirements

(\*) min grade of “C minus” required



# Sample Curriculum of a student **without** calculus I or II

FALL	WINTER	EXAM / INTERNSHIP
MA 115	MA 116	
ECON 101	ECON 102	
MA 215 →	MA 425 →	Exam P – May/Jul
EECS 183	MA 217	

# Sample Curriculum of a student **with** calculus I or II

FALL	WINTER	EXAM / INTERNSHIP
MA 215	MA 425	Exam P – May/Jul
ECON 101	ECON 102	
	EECS 183	
MA 424	MA 423	Exam FM – Jun/Aug
MA 217	STATS 426	Internship

# Course-Planning Workshop

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**COMING SOON!** October/November 2023  
Course and Exam Planning Excel Templates!

PLAN

# Additional Majors/Minors

## Majors

Business

Data Science

Statistics

Economics

## Minors

Business

Computer Science

Statistics

Economics

# Scholarship Information

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04

# Website Page

Check out the SAM Website for updates on deadlines and application links



## University of Michigan Scholarships

M.S. Keeler Department of Mathematics Merit Scholarships

Deadline:

Apply here!

Margaret S Huntington Prize in Actuarial Outreach

Deadline:

Apply here!

Virginia McCulloh Scholarship

Deadline:

Apply here!

Mathematics Emergency Scholarship

Deadline:

Apply here!

## Additional Scholarships



# Advice from SAM Board

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05



# Advice!

- Seek guidance from upperclassmen
- Attend the Actuarial Career Fair, even if you're a freshman
- Take as many pre-reqs as you can, focusing on your GPA
- It is unnecessary to take honors classes instead of regular
- Get involved in SAM! Attend events, join mentorship program

***Questions? Ask any Board Member or Professor Natarajan***



# Website

*Bookmark the link!* [SAM Website](#)

Add the Google  
Calendar to  
your own!

The screenshot shows the SAM Student Actuaries at Michigan website. The header includes the SAM logo and the text "Student Actuaries at Michigan". Below the header is a navigation menu with links for "Calendar", "New Members", "Resources", "Scholarships", "Mentorship", "Companies", and "Contact". The main content area displays a calendar for "Student Actuaries at Michigan 2023". The calendar is set to "August 2023" and shows a grid of dates from Sunday, August 30, to Saturday, September 2. The date August 4 is highlighted in yellow. At the bottom right of the calendar interface, there is a red circle around the "+ Google Calendar" button. A red arrow points from the text "Add the Google Calendar to your own!" to this button.

Sun	Mon	Tue	Wed	Thu	Fri	Sat
30	31	Aug 1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31	Sep 1	2

Events shown in time zone: Eastern Time - New York

+ Google Calendar

# Important Information

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06

# Official GroupMe



[Click here to join](#)

# International Students GroupMe



[Click here to join](#)



Questions?

# Contact Us & Upcoming Events

## Contact Information

- ★ **Program Director:** Professor Natarajan
  - [rogernat@umich.edu](mailto:rogernat@umich.edu)
- ★ **Treasurer:** Trent Cappaert
  - [trentcap@umich.edu](mailto:trentcap@umich.edu)
- ★ **UC Ambassador:** Sajni Patel
  - [sajni@umich.edu](mailto:sajni@umich.edu)
- ★ **IM Sports Chair:** Scott Rolf
  - [serolf@umich.edu](mailto:serolf@umich.edu)

## Upcoming Events

- ★ **Resume Workshop**
  - 8/29, 9/7
- ★ **Resume Office Hours**
  - 9/6 - 9/12
- ★ **Interview Workshop**
  - 9/7
- ★ **International Student Workshop**
  - 9/11
- ★ **Case Study Workshop**
  - 9/14
- ★ **Mock Interviews**
  - 9/14 - 9/20