

## BACHELOR OF ARTS (HONORS)

# MATHEMATICS

A Bachelor of Arts in Math combines scientific principles with liberal-arts concepts and produces well-rounded and versatile graduates. Studying mathematics develops your problem-solving skills, trains you to think logically, and helps your decision-making abilities, all of which are valued by employers in many industries.

### OFFERS COURSES IN...

- Arithmetic
- Foundations
- Algebra
- Combinatorics
- Geometry
- Elementary topology
- Calculus
- Economics
- Statistics

## COURSE REQUIREMENTS FOR YOUR MAJOR

Complete your major requirements and test out different classes. *Design your academic plan — you're in control!*

### MAJOR COURSE REQUIREMENTS:

In the Honors program, we teach students a particularly designed sequence of courses that emphasizes rigour and the theoretical underpinnings of the subject:

- MATH 117/118 – Honors Calculus I/II, instead of MATH 154/155
- MATH 217/317 – Honors Advanced Calculus I/II, instead of MATH 214/215
- MATH 411 – Honors Complex Variables, instead of MATH 311
- Moreover, there are MATH 417/418 – Honors Real Variables, I/II

*The BA Honors in Mathematics is a flexible program. Students can design the degree for a general liberal education, or for a specific career.*

## WHAT CAN I DO WITH A MATHEMATICS HONORS DEGREE?

**I COULD BE A...** mathematician, risk manager, chartered accountant, data analyst, investment analyst, research scientist, secondary school teacher, statistician, systems developer, software tester. Any field that uses mathematics is a potential area of employment.

## TOP 5 REASONS TO STUDY MATHEMATICS

- 1 Mathematics is inseparable from life as we know it, with many of civilization's most prized and proud achievements reliant on it.
- 2 Mathematics is considered the "universal language," allowing people to communicate across cultures and languages.
- 3 Mathematics is easily combined with other subjects, such as philosophy, linguistics, and economics.
- 4 Studying mathematics develops problem-solving and logical reasoning, skills that are easily transferable to other areas and situations.
- 5 Potential job prospects for math graduates are wide-ranging and often lead to permanent careers.

### WE ARE ALL TREATY PEOPLE

The University of Alberta respectfully acknowledges that we are situated on Treaty 6 territory, traditional lands of First Nations and Métis people.

### STUDENT SUPPORTS

These are services that enable you to pursue academic and personal success.

- Academic advising
- Student Ombuds
- Indigenous Student supports
- Academic support
- Health & Wellness
- Campus Food Bank
- Libraries
- International Student supports
- Accessibility resources
- Financial aid & awards
- Professional & career development
- Mental health supports

### DEPARTMENT CONTACT INFO:

OFFICE: Undergraduate Student Services  
 PHONE: 780-492-4295  
 EMAIL: arts.undergrad@ualberta.ca  
 WEBSITE: ualberta.ca/mathematicaland-statistical-sciences

### FOLLOW US

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## ENHANCE YOUR HONORS DEGREE

### ADD A CERTIFICATE IN:





- Community Engagement and Service-Learning
- Engaged Leadership and Citizenship in Arts and Science
- Economics and Management of Natural Resources, Energy and the Environment (EMNREE)

# BA HONORS MATHEMATICS

# DEGREE GUIDE

Your University experience is about what happens inside and outside of the classroom. This map is a tool to help you complement your academics with hands-on learning outside of the classroom and take advantage of student activities. Each new step will help you explore your options, take measured risks, and inform your next step. Being informed and engaged leads to a richer journey throughout your degree and beyond!

## LEGEND

-  GLOBAL PERSPECTIVE
-  GAIN EXPERIENCE
-  SEEK OUT CONNECTIONS
-  NAVIGATE COURSES

## EARLY DEGREE

Expand your career options, be proactive and get involved in campus life.

Plan your degree path. Set up an appointment with the Honors advisor.

Get involved with the Mathematical Sciences Society at the math department.

Learn about the services offered by the university's Career Centre.

Get in touch with U of A International about opportunities to study abroad.

Learn more about Indigenous peoples, perspectives, and worldviews.

## MID-DEGREE

Take risks, try new things, ask for and offer help to people you know and people you meet.

Connect with those that share your passion for analysis, geometry, or coding theory or the many other program options.

Get in touch with professors in the math department and inquire about summer research opportunities.

Math in Moscow program allows Canadian students to study at a small, elite university for a semester or a year.

Spend a term — or an entire year — abroad!

## LATE DEGREE

Develop and revise your career story based on your values, interests, and what you learn.

Ask some professors if they are willing to write letters of reference for you.

Make use of the Career Centre's services.

Check that you satisfy your program's requirements. If in doubt, contact your advisor.

