



# FACULTY OF MATHEMATICS AND SCIENCE

## Overview

With programs ranging from biochemistry and computer science, to oenology and viticulture and beyond, students of the **Faculty of Mathematics and Science (FMS)** are able to choose from a wide variety of programs, taught by industry experts. Through research, discovery and community engagement, our students enhance their own scientific awareness, become responsible citizens, and learn to apply their knowledge to solve problems toward a better world.



## Faculty Highlights

- Committed to the success of incoming students and in preparation for university courses, the Faculty launched a **Science Start program** in summer 2021. The five-week preparation course is designed for first-year students entering a Brock degree program with a biology component and was successfully delivered to 94 students in its inaugural year. The program will continue to boost foundational skills for incoming students each upcoming summer.
- Paving the way for increased inclusivity in the FMS community, over the past year the Faculty established several new scholarships aimed at attracting and retaining Indigenous students at both the undergraduate and graduate level.
- To align academic offerings with industry needs and student demand, the FMS is in early-stage program development for cannabis science, data analytics and applied ecology this 2021-22 academic year.
- Prioritizing engagement and connection for FMS students, the Faculty is home to a **Faculty of Mathematics and Science (FMS) Student Council** that supports events and activities for students. Included in their activities is a unique mentorship program which collaborates with Lab Links, Brock Biological Society and Brock Computer Science Club, to pair new and upper-year math and science students in related programs.



**2,247**

**UNDERGRADUATE STUDENTS**



**166**

**GRADUATE STUDENTS**



**72**

**FACULTY MEMBERS**



**8**

**DEPARTMENTS AND CENTRES**



**HOME TO**

**2**

**TIER 1 CANADA RESEARCH CHAIRS**

*\* 2021-22 calendar year*



“ We see our students as an investment in the future. By fostering dynamic experiential learning and research opportunities, our dedicated faculty and staff aim to inspire and develop a new generation of enlightened scientists, mathematicians and scientific leaders .”

**S. Ejaz Ahmed**  
Dean of the Faculty of Mathematics and Science

## Research Extending Beyond Brock

- Brock chemist partnered with Niagara pharma company and supported by a grant from the Natural Sciences and Engineering Research Council of Canada (NSERC), researched the flavonoid, quercetin and its uses for preventing and/or treating COVID-19.
- Associate Professor of Brock’s **Earth Sciences** was chosen from 119 applicants, as one of 13 Participating Scientists with the NASA Mars 2020 Mission. Completing her third Mars Mission, her research has broadened Brock’s reach beyond the national stage and far into the cosmos.
- Brock research team recently received funding from the Canadian Statistical Sciences Institute for a three-year data science research project with a focus on sport analytics. The funding will allow for the advancement of the data science program, as well as attract new graduate students.
- Brock **Biological Sciences PhD Candidate** received the Cleveland Ohio Chapter American Wine Society Educational Foundation (AWSEF) 2021 Scholarship for her research, which examines the chemical reactions that drive flavour development in sparkling wine.

## Emerging Priorities

**Endowed Chairs:** Endowed chairs create multiple wide-reaching benefits across the University including helping us recruit and retain the highest-quality faculty and research talent, which in turn attracts the brightest student minds to Brock University. Having endowed faculty in Brock’s FMS allow students to learn from and work with leading scholars in their field, providing unique and transformational educational experiences. Supporting the creation of additional endowed chairs allows the faculty appointed to pursue research and make discoveries that otherwise may not be possible.

Brock is currently looking to support endowed chairs for the FMS in the fields of:

- I. Data Sciences
- II. Oenology and Viticulture (OEVI)
- III. Engineering

For more information, please visit [brocku.ca/mathematics-science](https://brocku.ca/mathematics-science) or contact Kam Bhangu at [kbhangu@brocku.ca](mailto:kbhangu@brocku.ca)

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