

The background of the slide is composed of several overlapping, semi-transparent geometric shapes in various shades of green and yellow. On the left, there is a solid dark green rectangular area. To its right, there are larger, more complex shapes in bright yellow, light green, and medium green, some of which have rounded or pointed edges, creating a layered, abstract effect.

# Department of Mathematics and Statistics

UNIVERSITY OF VERMONT

## MAJORS

*Mathematics*

*Statistics*

*Data Science*

## MINORS

Mathematics

Statistics

# OUR PROGRAMS





## Courses

### MATH courses:

Calculus sequence: MATH 1234, 1248, & 2248

Linear Algebra: MATH 2522 & 2544

Differential equations: MATH 3230

Abstract algebras: MATH 2551, 3551, & 3555

Combinatorics: MATH 2678

Complex analysis: MATH 3456

Cryptography: MATH 3559

Financial Mathematics: MATH 2700

Numerical analysis: MATH 3737

Real Analysis: MATH 2468, 3468, & 3472

### STAT courses

Statistics sequence: STAT 1110, 1410, 2430, 2830, 3210, 3880, & 5610

Probability: STAT 2510 & 5510

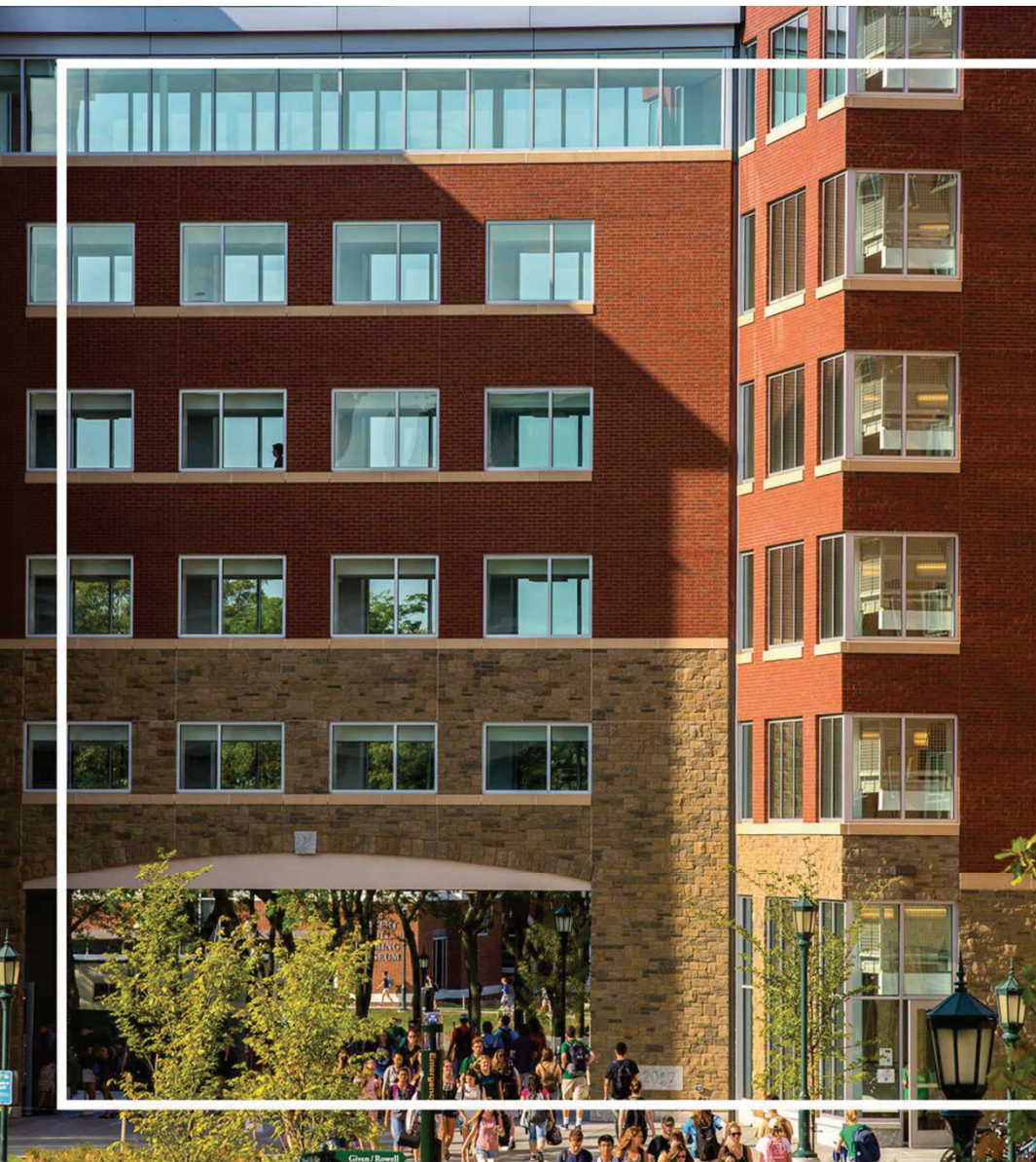
Biostatistics: STAT 3000

### DATA SCIENCE courses

STAT 1870, 2870, 3010, & 3870







# Community

- Math Club
- Statistics & Data Science Journal Club
- Peer Advising
- Hudson River Undergraduate Math Conference
- StatFest



## Math Club

Every student interested in Mathematics is welcome to attend Math Club Meetings.

Math Club activities include:

- A yearly trip to the Hudson River Undergraduate Mathematics Conference.
- A meeting each semester to advise students on classes to take.
- A friendly math competition each semester against the faculty (Math Bee).
- Faculty talks throughout the year.
- And much more!





## REUs, Honors Thesis, Internships

There are ample opportunities beyond the degree requirements

- Research Experience for Undergraduates (REU):

**You get paid** to pursue research projects with our faculty in regular semesters or during summer.

This experience can strengthen your resume.

We have plenty of REU slots. **So just apply!**

- Honors Thesis: for ambitious students.
- Internship examples:  
Equitas Health, Kronos, Keurig Green Mountain





Our graduates are employed in a wide variety of occupations

- Keurig Green Mountain
- Walt Disney (Market Research)
- Boston Red Sox (Sabermetrics)
- Google
- The Mayo Clinic
- BMW
- Citi



## EMPLOYMENT





# Faculty

- 40 full-time faculty members in the department.
- 38% of full-time faculty members are women.
- Faculty in our department have been awarded many of the highest honors on campus:
  - Kroepsch Maurice Excellence in Teaching Award
  - George V. Kidder Outstanding Faculty Award
  - University Scholars
  - University Distinguished Professors





## Research

Department faculty are very actively involved in basic and applied research in many academic areas

- Algebra, Number Theory, Combinatorics and Cryptography
- Applied and Physical Mathematics
- Statistical Methodology and applications in Medicine
- Making sense of Social Media Data





## Outreach

Department faculty are involved in several outreach projects

- MATHCOUNTS
- High School Math Contest
- Governor's Institute in Mathematical Sciences
- Putnam Exam