Welcome Weekend
August 21, 2021
Who we are

Mike Hildreth
Interim Dean
105 Jordan

Dan Gezelter
Associate Dean for Undergraduate Studies
101 Jordan
Highlights of the College of Science

- Outstanding Education
- Excellent Faculty
- Extensive Research Opportunities
- Caring Advisors
- Impressive Career Placement
Innovation

- 33 different options to major in Science
- Leaders in creating and adopting new teaching ideas
- Multi-disciplinary approaches to learning

Facilities

*Physics department ranked 11th nationally in quality of undergraduate experience*
College of Science Majors

Current FY, Sophomores, Juniors, and Seniors

- Biology: 435
- Neuroscience: 387
- Science-Preprofessional: 242
- Science-Business: 219
- Biochemistry: 185
- ACMS: 170
- Physics: 107
- Mathematics: 93
- Environmental Sciences: 58
- Chemistry: 51
Double Majors

Nearly 65% of ND science majors are carrying a second major or minor!

Within the College of Science
- Physics and mathematics
- Physics and chemistry

Between Two Colleges
- Psychology
- Spanish
- Anthropology
- Theology
- Philosophy

Popular Minors
- **Science, Technology & Values**
- Anthropology
- Poverty Studies
- Latino Studies
- Catholic Social Tradition
- **Sustainability**
- Actuarial Science
- Data Science
- **Compassionate Care in Medicine**
Student Leaders

Madeline Owen and Alexis Waldschmidt, the 2021 valedictorian and salutatorian were both college of science students. Owen was a NSBH / pre-med major with a minor in poverty studies who did research in Donny Hanjaya-Putra’s lab.

Waldschmidt was a BIOS / Chinese double major who did research in the O’Tousa lab.

Brady Stiller and Love Osunnuga, the 2020 valedictorian and salutatorian were also both college of science students. Stiller was a biology / theology double major who did research in Jason McLachlan’s lab.

Osunnuga was a biology / honors mathematics double major who did research in Crislyn D’Souza-Schorey’s lab.
Faculty

Faculty serve on advisory committees for national agencies such as the National Science Foundation, Department of Energy, National Institutes of Health.

This year, faculty at ND brought in $222 million in research funding, approximately $80 million was awarded to the college of science.

Professor Nora Besansky

*Biological Sciences*

National Academy of Sciences
Undergraduate Research

600 students in the college are engaged in research every year

• Student research is presented at Fall and Spring Undergraduate Research Symposia
• COS-SURF

Dr. Sheryl Lu
Undergraduate Research

This spring’s issue of Scientia is a fantastic overview of research at Notre Dame. Scientia is a student run publication that publishes high quality undergraduate research.

It can be found online here: scientia.nd.edu/publication
Research Opportunities - Health

Warren Center for Drug Discovery

BOLER-PARSEGHIAN Center for Rare & Neglected Diseases

HARPER Cancer Research Institute

Center for Stem Cells and Regenerative Medicine

DEPARTMENT OF BIOLOGY

DEPARTMENT OF CHEMISTRY AND BIOCHEMISTRY

DEPARTMENT OF APPLIED AND COMPUTATIONAL MATHEMATICS AND STATISTICS

COLLEGE OF SCIENCE

UNIVERSITY OF NOTRE DAME
Research Highlights - Energy and Environment

Materials for solar energy

Impact of wind power on the electric grid

Agricultural conservation practices to prevent nutrient runoff

Nuclear accelerators to screen for toxic chemicals and lead
“Small Science”

Metamaterials

Semiconductor nanowires

2D Nanomaterials for energy storage and electronics

Bioinorganic Chemistry

Protein Folding
“Big Science”

Particle Physics at the Large Hadron Collider

Dynamical systems Metrological modeling

Astrophysics with the Large Binocular Telescope

UNDERC
Research opportunities outside ND

MD Anderson Cancer Center (6)

“Irish Intern” at Amicus Therapeutics (5)

Cold Spring Harbor Laboratory (2)
Science First Year Advising

Assistant Deans for First Year Advising: David Veselik & Laura Flynn

James Creech
CHEM, MATH, PHYS

Kelly Harrington
BIOS, BCHM, ACMS, STAT

Madeline Infantine
SCPP, SCBU, SCED, SCCO

Kristian Lax-Walker
NSBH, BIOS
Major Advising

Professor Jennifer Robichaud
Biological Sciences

Professor Dominic Chaloner
Environmental Sciences

Professor Alan Huebner
Applied & Computational Mathematics & Statistics
Major Advising

Professor DeeAnne Goodenough-Lashua
Chemistry, Biochemistry

Professor Rachel Branco
Neuroscience & Behavior
Last Names A-L

Professor Nancy Michael
Neuroscience & Behavior
Last Names M-Z
Major Advising

Professor Sonja Mapes-Szekelyhidi
Mathematics

Professor Philippe Collon
Physics
Major Advising

Professor Arielle Phillips
Science / Business
(Sophomores)

Sister Kathleen Cannon, OP, DMin
Science / Computing
Science / Education
Science / Business (Juniors – Seniors)
Science Preprofessional Advising

Dr. Susan Gursky
Sophomores

Assistant Dean Kathleen Kolberg
Current Students & Alumni

Father James Foster, C.S.C, M.D.
Associate Dean and Chair
Career Placement

College of Science Graduates:

- 40% employed, with a median self-reported starting salary of $60,000
- 40% go on to graduate or professional schools:
  - 54% of these to further medical training
  - 41% of these to graduate school (PhD, MS)
- 12% to service activities
- 2% to the military
- 5% to other activities
Graduate Schools and Honors

Scholarships/Honors:

**Fulbright**: 5 from College of Science in 2021  
**Boren Scholars**: Olivia Lanchoney (senior) and Luke Reifenberg (Junior)  
**Knight-Hennessy Scholar**: Caroline Murtagh (BIOS, 2019)  
**Goldwater Scholars**: Andrew Burke (Math) & Andrew Langford (Physics)  
**Truman Scholar**: Gregory Miller (Junior, ACMS)  
**NSF Graduate Research Fellowship**: 13 Undergrad + 11 Grad in 2021  
**Rhodes Scholarship**: Alexis Doyle, Biology  
**Gates Cambridge Scholarship**: John Huber (ACMS)

**PhD Programs:**  
Princeton, Harvard, University of Chicago, MIT, Columbia, University of Michigan, Northwestern University, Duke, Yale, Caltech, Stanford, UC Berkeley
Places worth visiting

**Prestigious Fellowships:**
- Churchill Scholarship
- Goldwater Scholarship
- Fulbright Scholarship
- NSF Graduate Research Fellowship
- Truman Scholarship
- Rhodes Scholarship

Help with finding funding for research and attending conferences

Notre Dame is among top producers of Fulbright students for the fourth straight year

Visit cuse.nd.edu

Visit socialconcerns.nd.edu

International and Summer Service Learning Programs
Thank you!