NYU Abu Dhabi is home to a diverse, growing and thriving community of world-class faculty, researchers, undergraduate and graduate students from around the world. It is committed to excellent teaching; advancing our understanding of nature and the universe; and harnessing multidisciplinary research to respond to vital local and global challenges.

In addition to our disciplinary research programs, NYUAD has identified and established areas of excellence in the form of conceptual multidisciplinary research clusters. Within these clusters, collaborating faculty with relevant expertise from a range of disciplines engage with one another, and with our state-of-the-art core technology platforms and facilities, to ask questions and tackle problems from a multidisciplinary perspective. The clusters also infuse and engage with our Research Institute Centers and graduate programs.

Building on the strength and excellence of our individual programs, we offer exceptional interdisciplinary research opportunities that advance knowledge and positively impact our society.

-- Marta Losada, Dean of Science
TEACHING

UNDERGRADUATE
Though the program structure differs slightly for each of the undergraduate majors in Science, there are consistent elements:

GLOBAL EDUCATION
A careful sequence of interrelated academic and intercultural experiences over four years, including the opportunity to spend one semester abroad. It encourages greater intercultural understanding towards social responsibility, both globally and locally.

CAPSTONE PROJECT
A demanding, year-long endeavor that every science student completes in their fourth year at NYU Abu Dhabi. Students work closely with one of our many research labs or groups to produce a significant piece of research that is presented at the annual Science Capstone Festival.

GRADUATE
The Division of Science offers Global PhD Fellowships across many of its programs. Though the program structures differ, there are some consistent elements:

4-5 YEARS IN TOTAL
Students carry out their research within the cutting-edge labs and research groups at NYU Abu Dhabi.

1-2 YEARS IN NEW YORK
The programs generally involve classwork in New York. Our students have access to the extraordinary resources within NYU's network of prestigious Graduate Schools.

NYU DEGREE
Students are awarded an NYU Degree.

DIVISIONAL PROGRAMS
There are six divisional programs within Science, each offering undergraduate majors, some offering graduate degrees, and all housing disciplinary labs and projects.

BIOLOGY

CHEMISTRY

COMPUTER SCIENCE

MATHEMATICS

PHYSICS

PSYCHOLOGY
DIVISIONAL RESEARCH

The six divisional programs in science are home to a plethora of disciplinary labs and projects. Some of our divisional research strengths include:

**BIOLOGY**
- Biomedical Research
- Environmental Biology
- Genome Science
- Regenerative Biology

**CHEMISTRY**
- Chemical Biology
- Materials Science
- Soft Matter
- Structural Biology

**COMPUTER SCIENCE**
- Artificial Intelligence
- Cyber Security
- Human Data Interaction
- Technology for Social Good

**MATHEMATICS**
- Analysis, PDEs and Applications
- Geometry, Topology and Algebra
- Probability Theory and Statistical Mechanics

**PSYCHOLOGY**
- Cognition
- Developmental
- Perception
- Social

**PHYSICS**
- Astrophysics and Cosmology
- Biophysics and Soft Matter
- Cultural Heritage
- Particle Physics

MULTIDISCIPLINARY RESEARCH

The NYUAD Research Institute is a world-class center of cutting-edge and innovative research, scholarship, and cultural activity. It supports centers that address questions of global significance and local relevance and allows leading faculty members from across the disciplines to carry out creative scholarship and high-level research on a range of complex issues.

**SOME OF THE RESEARCH INSTITUTE CENTERS INVOLVING FACULTY FROM THE DIVISION OF SCIENCE INCLUDE:**

- Arabian Center for Climate and Environmental Sciences (ACCESS)
- Center for Artificial Intelligence and Robotics
- Center for Astro, Particle, and Planetary Physics
- Center for Artificial Intelligence and Robotics
- Center for Cyber Security
- Center for Genomics and Systems Biology
- Center for Global Sea Level Change
- Center for Interacting Urban Networks (CITIES)
- Center for Quantum and Topological Systems
- Center for Space Science
- Center for Stability, Instability, and Turbulence
- Global TIES for Children
- Neuroscience of Language Lab
- Public Health Research Center
- Center for Prototype Climate Modeling

Find a full list of Research Institute Centers here.
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FACILITIES AND INFRASTRUCTURE

NYUAD is home to more than 80 faculty labs and designated multidisciplinary Research Institute Centers.

EXPERIMENTAL RESEARCH BUILDING (ERB)

The ERB is home to many faculty labs and research groups, each one equipped with state-of-the-art technology and equipment. It also houses many Core Technology Platforms, including:

- Analytical and Materials Characterization
- High-Throughput Screening
- Kinesis
- Light Microscopy
- Micro-Fabrication
- Molecular and Cell Biology
- Spectrometry and Spectroscopy
- Sequencing

COMPUTATIONAL RESEARCH BUILDING (CRB)

The CRB also houses many faculty labs and research groups, in addition to:

- The Brain Imaging Core Technology Platform that is equipped with a state-of-the-art 3T Siemens MAGNETOM Prisma MRI scanner.
- The Center for Research Computing that serves our faculty, researchers, and students with High Performance Computing (HPC) and research computing services.