

NATURAL SCIENCES (MINOR)

Program Description

Science in the 21st century is no longer easily compartmentalized: the physical sciences of chemistry and physics and the life sciences of biology and ecology have merged. Foundations of Science at NYU Abu Dhabi provides a fundamental yet rigorous overview of science, focusing on the interrelationships among physics, chemistry, and biology. Students in any majors that do not require Foundations of Science (FoS) can minor in the Natural Sciences which introduces students to energy, forces, and matter, the essentials of atomic structure and basic chemical reactions, and the applications of these concepts to cell biology and biodiversity.

Students will complete Foundations of Science 1-4, plus Calculus with Applications and Multivariable Calculus.

Program Requirements

Course	Title	Credits
Foundations of Science 1-2: Energy & Matter / Forces & Interactions		
SCIEN-UH 1121EQ	Foundations of Science 1-2: Physics	1.5
SCIEN-UH 1122EQ	Foundations of Science 1-2: Chemistry	3
SCIEN-UH 1123EQ	Foundations of Science 1-2: Biology	1.5
SCIEN-UH 1124C	Foundations of Science 2 Lab: Chemistry	1
SCIEN-UH 1124P	Foundations of Science 1 Lab: Physics	1
Foundations of Science 3-4: Systems in Flux / Form and Function		
SCIEN-UH 1341Q	Foundations of Science 3-4: Physics	3
SCIEN-UH 1342Q	Foundations of Science 3-4: Chemistry	3
SCIEN-UH 1343	Foundations of Science 3-4: Biology	2
SCIEN-UH 1344CE	Foundations of Science 3 Lab: Chemistry	1
SCIEN-UH 1344BE	Foundations of Science 4 Lab: Biology	1
Math Requirement		
MATH-UH 1012Q	Calculus with Applications to Science and Engineering (see note)	4
MATH-UH 1020Q	Multivariable Calculus with Applications to Science and Engineering	4
Total Credits		26

Note: Students who place out of Calculus with Applications do not need to make up those math credits for the Natural Sciences minor (but students need a minimum of 22 credits for the minor if they do not need to complete Calculus with Applications).

Policies

Program Policies

Foundations of Science Grading Policy

While each level of Foundations of Science is an integrated course, separate grades are provided for various components as a means to allow students to document their completion of the specific disciplinary and laboratory content that makes up these courses. Consistent with this integrated approach, students must earn an average grade of C for the components of each level of Foundations of Science to continue

into the next level or to use the course to satisfy the prerequisites for other courses outside of Foundations of Science. Additionally, students majoring in biology, chemistry, or physics, must have grades of at least C in all Foundations of Science components in their specific, respective major fields. Finally, although continuation into other courses is based on the average performance in each level of Foundations of Science, students earn academic credits only for those graded components they pass or, for students subject to the transcript policy (see Academic Policies), only for those components with grades of at least C-. The number of earned credits for Foundations of Science components is particularly important for all engineering majors who must earn at least 16 credits in science.

NYU Abu Dhabi Policies

A full list of relevant policies can be found on NYU Abu Dhabi's undergraduate academic policies page (<https://bulletins.nyu.edu/undergraduate/abu-dhabi/academic-policies/>).

NYU Policies

University-wide policies can be found on the New York University Policy pages (<https://bulletins.nyu.edu/nyu/policies/>).