2021-2022

NYU ENGINEERING AROUND THE WORLD

Study abroad opportunities for NYU Tandon students

▶ Abu Dhabi
▶ London
▶ Paris
▶ Shanghai

The above locations offer courses targeted for students in the science, technology, engineering, and mathematics (STEM) fields, but many Tandon students may also be able to take courses for elective credit at these and other NYU global locations.
Gain a global perspective and stay on track with your STEM major by taking courses around the world. As a Tandon student, you have the opportunity to take courses that count toward your Tandon degree at NYU’s degree-granting campuses in Abu Dhabi and Shanghai or NYU’s academic centers in London and Paris. Many students also have options to complete additional coursework at other NYU locations, but it largely depends upon their major, whether they are completing a cross-school minor or double major, and other independent degree factors.

At NYU Abu Dhabi, you can work with faculty at research centers dedicated to examining the future of urban systems, environmental sustainability, cybersecurity, and more—while earning major credits. At NYU Shanghai, you’ll enjoy small classes that immerse you in a city that continues to establish itself as an epicenter of cutting-edge engineering and tech innovation—while fulfilling course requirements. At NYU London, you’ll be one step closer to successfully completing your engineering or science degree by taking classes in thermodynamics, general physics, linear algebra, and organic chemistry as well as a full range of humanities and social science electives and an experiential learning seminar. NYU Paris offers humanities and social science electives in addition to free elective courses and qualified computer science electives.

PLAN YOUR STUDY ABROAD EXPERIENCE

Get a better understanding of what your four years at NYU Tandon might be like when you study abroad in NYU’s global network by visiting engineering.nyu.edu/study-abroad/4-year-plans. Here, you’ll find four-year plans detailing what you can do while abroad to ensure you graduate on time.

Course offerings at all global locations are subject to change and can vary by semester. Not all course options are available to all students. Refer to nyu.edu/global-programs for the most up-to-date information. Some locations have language course requirements, which count as free elective credit only at NYU Tandon. Please take this into consideration when planning your schedule. Some locations offer for-credit internships, but not all departments may accept these or credit them equally. In most cases, internships are considered free elective credit, but in others, they may count as departmental electives (if the internships are within the field). Consult your department to see how internships are credited.
The following pages list global courses available to Tandon students by major. Please note that Computer Science, Integrated Design and Media, Mathematics, Science and Technology Studies, and Sustainable Urban Environments majors have flexible schedules with many elective courses. As such, students in these programs can take elective-only courses at most global locations. Meet with your academic adviser to determine which location best fits your academic goals.
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<th>COURSE CATEGORY</th>
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<th>LONDON</th>
<th>SHANGHAI</th>
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<td>Advanced Physics Laboratory</td>
<td>Experiential Learning Seminar</td>
<td>Electricity and Magnetism</td>
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<td>Multivariable Calculus with Applications to Science and Engineering</td>
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<td>Organic Chemistry I or II (lecture and lab)</td>
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ELECTRICAL ENGINEERING AND COMPUTER ENGINEERING

NYU ABU DHABI
- Computer Organization and Architecture
- Electromagnetics
- Foundations of Chemistry
- Functions of Computer Variables
- Operating Systems
- Probability and Statistics for Engineers
- Signals and Systems

NYU LONDON
- General Physics Lab II
- Linear Algebra and Differential Equations
- Waves, Optics, and Thermodynamics

NYU PARIS
- Introduction to Computer Security
- Introduction to Machine Learning
- Introduction to Operating Systems

NYU SHANGHAI
- Digital Logic
- Discrete Mathematics
- Multivariable Calculus
- Operating Systems

MATHEMATICS

NYU ABU DHABI
- Analysis I
- Functions of a Complex Variable
- Numerical Analysis
- Ordinary Differential Equations
- Partial Differential Equations

NYU LONDON
- General Physics Lab II
- Linear Algebra
- Linear Algebra and Differential Equations
- Waves, Optics, and Thermodynamics

NYU SHANGHAI
- Electives

NYU LONDON
- General Physics Lab II
- Linear Algebra and Differential Equations
- Waves, Optics, and Thermodynamics

NYU BERLIN
- Electives

NYU LONDON
- Electives

NYU PARIS
- Analysis I
- Functions of a Complex Variable
- Partial Differential Equations
- Probability and Statistics
- Theory of Probability
- Special Topics II: Linear and Nonlinear Optimization

MECHANICAL ENGINEERING

NYU ABU DHABI
- Multivariable Calculus
- Probability and Statistics

NYU LONDON
- General Physics Lab II
- Linear Algebra and Differential Equations
- Waves, Optics, and Thermodynamics

NYU SHANGHAI
- Electives

PHYSICS AND MATHEMATICS

NYU ABU DHABI
- Advanced Physics Lab
- Electricity and Magnetism
- Probability and Statistics

NYU LONDON
- Electives

SCIENCE AND TECHNOLOGY STUDIES

NYU ABU DHABI
- Electives

NYU BERLIN
- Electives

NYU LONDON
- Electives

NYU SHANGHAI
- Electives

NYU WASHINGTON, DC
- Electives

INTEGRATED DESIGN AND MEDIA

NYU ABU DHABI
- Electives

NYU BERLIN
- Augmenting the Gallery
- Experiments in the Future of Performing and Producing

NYU LONDON
- Electives

NYU LOS ANGELES
- Copyright, Commerce, and Culture
- Interactive Narrative
- Realtime

SUSTAINABLE URBAN ENVIRONMENTS

NYU ABU DHABI
- Electives

NYU BERLIN
- Electives

NYU LONDON
- Electives

NYU SHANGHAI
- Electives

NYU WASHINGTON, DC
- Electives
“Spending my sophomore spring semester studying abroad at NYU London opened up new avenues for me, particularly in architecture and urban design. Part of my internship the following summer involved viewing site plans for construction and sketching some drawings that were incorporated into them. My experience in London was one of the best I’ve had as an undergrad.”

—JA’SHON TYSON, CIVIL ENGINEERING, 2021

“I studied at NYU Shanghai because it gave me the chance to take technical courses that applied to my major while also exploring an amazing city. I took courses on urban typography, 3-D sculpting for facial animation, and UX/UI design, each of which fulfilled major elective requirements. I feel so lucky that I was able to study abroad and not get behind in my major. I learned so much in my field while reaping the benefits of studying and living in another country.”

—RACHEL BUIGAS-LOPEZ, INTEGRATED DIGITAL MEDIA, 2020*

*The Integrated Digital Media program was renamed Integrated Design and Media in 2021.

STUDENT LIFE
On-site staff provide support for students and are available to answer any questions that may arise. Orientation, trips, student clubs, and language exchanges throughout the semester help students connect with one another and their host culture. Housing varies by location and is guaranteed to all students.

HOW TO APPLY
For more detailed information, including a complete list of current course offerings and application guidelines, visit the NYU Office of Global Programs website at nyu.edu/global-programs. Information about Summer Session and January Term programs abroad can be found at nyu.edu/summer and nyu.edu/january. Financial aid and scholarships are available.

FOR MORE INFORMATION
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