1 Expectations

NU CS credit for classes taken abroad is not guaranteed.

Different institutions emphasize different aspects of computer science in their curricula, and many have different standards for their courses. You will receive CS credit only for classes that:

1. we consider to be as rigorous and thorough as our own courses, and
2. emphasize the aspects of each subject that our faculty consider important in our own courses (e.g., implementation for systems courses, proofs for theory courses, etc.).

You are welcome to take CS classes abroad that do not satisfy the above conditions, but you will not receive computer science credit for them when you return to Northwestern.

As a corollary of the above, we recommend against making graduation plans that rely on getting significant—say, 3 or more—CS credits abroad.

We instead recommend that you take a mix of theme/distribution classes and at most one or two CS classes. Taking all theme/distribution classes while abroad is fine.
2 Timeline

The following timeline applies to students interested in studying abroad in Summer 2020, Fall 2020, or for the whole 2020-2021 academic year. (For students interested in the less common options of studying abroad in Winter 2021 or Spring 2021, please get in touch.)

Fall 2019: Think about where you would like to study, start thinking about the classes you would want to take.

January 17th 2020, 5pm: Internal CS Deadline: If you would like to have classes you take abroad count for CS credit, submit the list of classes you are planning to take to: study-abroad@cs.northwestern.edu

Classes submitted after this deadline will not count for CS credit.

Late January 2020: The CS study abroad advisors, in consultation with course coordinators, approve or reject the courses on your list. We will work with you during this process if need be.

February 10th 2020: NU Study Abroad Deadline: Submit your application via the NU Study Abroad web site: www.northwestern.edu/abroad/study-abroad/apply

Any courses that you are not planning to use for CS credit do not need to be approved by the CS study abroad advisors. If you are not planning to take any CS credit while abroad, you can jump straight to the NU Study Abroad Office application.

3 Guidelines for Transferring CS Credit

• If a course is equivalent to a course we teach, and the course coordinator signs off on it, it transfers as our equivalent course.

For example, an intro databases course with a significant implementation component (B trees, query optimization, transactions, etc.) and which Prof. Rogers approves, would transfer as 339 and count as a systems breadth class.

• If a course satisfies our criteria, but is not equivalent to any course we teach, it transfers as Comp Sci 3XX. These courses may count as technical electives, but do not count towards any breadth areas.

For example, a sufficiently rigorous formal methods class (which, as of Fall 2019, Northwestern does not offer) would could as Comp Sci 3XX.
Avoid courses that:

- are really IT courses: e.g., how to configure a CISCO router, how to be a Linux sysadmin, etc.;
- are really about some narrow, proprietary API: e.g., how to use some JavaScript API;
- are focused on teaching you to pass a technical certification exam: e.g., how to be a certified Amazon AWS Specialist;
- are about using software rather than writing it: e.g., how to use PowerPoint, Photoshop, audio composition software, video editing software, or a game course that’s largely about how to use the Unity editor;
- have a substantial component that would be considered 200-level CS: e.g., a data mining course that starts off by teaching students basic Python or R; or
- are purely online, with very rare exceptions.

4 Frequently Asked Questions

When is the best time in my degree to study abroad?

If you are intending to take CS courses abroad, we recommend you complete our intro sequence (111, 211, 212, 213, 214) before going abroad. That will open up a wide variety of courses at most institutions, and give you the most courses to choose from while abroad.

We also recommend against going abroad your senior year if you have a lot of degree requirements left to fulfill. Trying to cram all of them into your last two quarters at Northwestern is risky. This is especially true for breadth requirements, which may be difficult to satisfy abroad.

What are the best kinds of CS classes to take abroad?

Based on our observations, theory and human-computer interaction (HCI) classes tend to be fairly uniform worldwide. So sufficiently rigorous classes in these areas are likely to be close to our own, which means they are more likely to be worth NU CS credit.

In contrast, there are wide variations in systems and AI classes across the globe. Different institutions teach systems/AI very differently, and we do not give NU CS credit for classes that differ too drastically from our own.

What are the best places to study CS abroad?

We are happy to advise you in person based on your areas of interest and preferred destinations.
5 Further Information

The NU Study Abroad web site has tons of useful information: www.northwestern.edu/abroad/study-abroad/get-started

To help pick your destination and/or classes, this page lists the CS courses our students have taken abroad in the past, whether they transfer, and what they transfer as if they do: users.cs.northwestern.edu/~stamourv/transfer-credit.html

For any questions, please email: study-abroad@cs.northwestern.edu

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