



NOTRE DAME  
DE NAMUR UNIVERSITY

ESTABLISHED 1851

## Computer and Information Science (B.S.C.I.S.) Transfer Pathway for Foothill College Software Engineering Emphasis Track

**Transferring Made Simple.** The Transfer Pathways program eliminates the obstacles with the transition from the Community College to the Bachelor of Science (BS) in STEM (Science, Technology, Engineering and Mathematics) programs at Notre Dame de Namur University (NDNU).

NDNU accepts transfer students for both spring and fall terms with any number of units. Our counselors and advisors will work with you to determine an individualized academic plan to map out and get you into the classes you need to graduate on time. Students seeking a 2 + 2 transfer agreement can use this pathway document as a guide. Please keep in mind that not every course at Foothill College needs to be completed prior to coming to NDNU. We will assist you to determine your individual needs.

### Articulation Pathway toward a B.S.C.I.S., Software Engineering Track

The following courses are recommended to streamline the path through prerequisite courses taken at Foothill College, and specific upper division courses that must be taken at NDNU for the CIS major. The pathway is a guide to students who enter NDNU during the 2014-15 year. If you will be starting at a later date, please remain in contact with the NDNU CIS department and your advisor, to be aware of any potential changes in the major requirements over time.

### General Education Requirements

You should plan to complete at least 28 units from the online Articulation Agreement between Foothill College and NDNU, including both required Core Cultural Diversity courses. The total number of units needed to fulfill all Core Curriculum and institutional requirements will vary depending on how requirements for foreign language and US History are met. Please contact us to confirm your intended transfer pathway.

(Over for courses to be taken at NDNU)

### Contact Information

NDNU Admissions  
(650) 508-3600  
[admiss@ndnu.edu](mailto:admiss@ndnu.edu)  
[ndnu.edu/STEMpathways](http://ndnu.edu/STEMpathways)

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**Prerequisites for Courses in the NDNU Major: (Recommended taking at Foothill College)**

		Quarter Units
CS 1B	Intermediate Software Design in JAVA	(5) <b>OR</b>
CS 2B	Intermediate Software Design in C++	(5)
CS 1C	Adv. Data Structures & Algorithms in JAVA	(5) <b>OR</b>
CS 2C	Adv. Data Structures & Algorithms in C++	(5)
MATH 1A	Calculus	(5)
MATH 1B	Calculus	(5)
CS 10 or ENGR 12	Computer Architecture & Organization	(5)

**Courses Remaining at NDNU:  
CIS Major Courses: 48 Units Total**

		Semester Units
MTH 2522	Probability & Statistics	(4)
MTH 2419	Discrete Mathematics	(4)
CIS 2233	Database Management Systems	(3)
CIS 2235	Computer Operating Systems	(4)
CIS 2243	Computer Network & Network Programming	(4)
CIS 2245	Software Engineering	(3)
CIS 2277	Web Programming I: Client Side	(3)
CIS 2278	Web Programming II: Server Side	(3)
CIS 2341	Quality Assurance & Testing	(3)
CIS 2885	Senior Project	(3)
<b>Select two from the following courses: (8 units total)</b>		
CIS 1150	Computer Organization	(4)*
CIS 2211	Algorithms & Complexity	(4)
CIS 2221	Programming Languages & Compiler	(4)
MTH 2450	Linear Algebra	(4)
<b>Select two from the following courses: (6 units total)</b>		
CIS 2255	Computer Graphics	(3)
CIS 2261	Object-Oriented Design & Programming	(3)
CIS 2355	Mobile Device Programming	(3)
CIS 2886	Special Topics in Computer Science	(3)

\* Students who transfer CS 10 or ENGR 12-Computer Architecture and Organization from Foothill College will receive content credit for CIS 1150 at NDNU.

**Additional GE Courses: (9 units minimum)**

Upper Division Writing	(3)*
Upper Division Religion	(3)
Community Engagement	(3)*
Cultural Diversity	(6) if not completed at Foothill College

Any remaining GE or institutional courses as needed to fulfill all NDNU Requirements.

\* The Upper Division Writing requirement and the Community Engagement requirement generally do not add units to a student's program. Rather, they are intended to be fulfilled by choosing courses from the approved list that also satisfy requirements in other areas of the student's program.