

Lower Division Major Preparation: Transfer Credit Agreement 2016-2017 Catalog

S.T.E.M. MAJORS (Science, Technology, Engineering, and Mathematics)

Notre Dame de Namur University agrees to accept the Foothill College courses listed below in satisfaction of Lower Division Preparation in the following majors. Please note: You do not need to complete all of these requirements before transferring to Notre Dame de Namur University.

Lower-division Preparation for the Major. The undergraduate degree program requires 124 semester units of course credit. The courses shown below constitute all lower-division coursework required for the following majors for this catalog year. For a complete description of lower- and upper-division requirements for the major, please refer to the Notre Dame de Namur University Catalog.

For further information or to make an appointment with a transfer counselor:	650.508.3600 NDNU Admissions Office
Course Descriptions and Major Prerequisites:	http://www.ndnu.edu/catalog
More information on Foothill College:	http://www.foothill.edu

Conversion of Quarter Units to Semester Units. Quarter units are based on 30 hours of instruction; semester units on 40 hours. 3 qtr units = 2 sem units; 4 qtr units = 2.67 sem units; 4.5 qtr units = 3.0 sem units; 5 qtr units = 3.33 sem units; 6 qtr units = 4 sem units

KEY:	C = Completed Course	<input type="checkbox"/>	= A requirement that may be satisfied by a course taught at the transfer institution
	IP = In Progress Course	<input checked="" type="checkbox"/>	= A requirement for which there is no equivalent course at the transfer institution; or, a course that must be taken at NDNU

BIOLOGICAL SCIENCES

NDNU LOWER-DIVISION MAJOR PREPARATION				FOOTHILL COLLEGE EQUIVALENT COURSES				
Course Code	Course Title	SEM		Course Code	Course Title	QTR	C	IP
BIO 1000	Science Success Seminar	2		N/A	Requirement waived for transfer students		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
BIO 1101/L plus	General Biology I/Lab plus	3 + 1		BIOL 1A plus	Principles of Cell Biology plus	6	<input type="checkbox"/>	<input type="checkbox"/>
BIO 1103/L	General Biology II/Lab	3 + 1		BIOL 1B plus	Form and Function in Plants and Animals plus	6	<input type="checkbox"/>	<input type="checkbox"/>
				BIOL 1C	Evolution, Systematics, and Ecology	6	<input type="checkbox"/>	<input type="checkbox"/>
CHE 1204/L	General Chemistry II/Lab	3 + 1		CHEM 1C	General Chemistry/ Qualitative Analysis	5	<input type="checkbox"/>	<input type="checkbox"/>
MTH 1216	Precalculus with Trigonometry	4		MATH 48C	Precalculus III	5	<input type="checkbox"/>	<input type="checkbox"/>
MTH 2502/L	Statistics			MATH 10	Elementary Statistics	5	<input type="checkbox"/>	<input type="checkbox"/>
<i>One of the following courses with lab:</i>				<i>One of the following courses with lab:</i>				
CHE 1200/ L	General, Organic, and Bio Chem	3 + 1		N/A	No equivalent course		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
CHE 1202/L	General Chemistry I/Lab	3 + 1		CHEM 1A plus	General Chemistry plus	5	<input type="checkbox"/>	<input type="checkbox"/>
				CHEM 1B	General Chemistry	5	<input type="checkbox"/>	<input type="checkbox"/>
<i>Additional coursework highly recommended for future medical, dental, veterinary medicine, or future graduate students</i>				<i>Additional coursework highly recommended for future medical, dental, veterinary medicine, or future graduate students</i>				
PHY 1203/L plus	College Physics I/Lab plus	3 + 1		PHYS 2A plus	General Physics plus	5	<input type="checkbox"/>	<input type="checkbox"/>
PHY 1205/L	College Physics II/Lab	3 + 1		PHYS 2B plus	General Physics	5	<input type="checkbox"/>	<input type="checkbox"/>
				PHYS 2C	General Physics	5	<input type="checkbox"/>	<input type="checkbox"/>
MTH 1320	Calculus I	4		MATH 1A plus	Calculus 1A plus	5	<input type="checkbox"/>	<input type="checkbox"/>
				MATH 1B	Calculus 1B	5	<input type="checkbox"/>	<input type="checkbox"/>

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COMPUTER AND INFORMATION SCIENCE, B.S.

Emphasis in Software Engineering

NDNU LOWER-DIVISION MAJOR PREPARATION			FOOTHILL COLLEGE EQUIVALENT COURSES				
Course Code	Course Title	SEM	Course Code	Course Title	QTR	C	IP
CIS 1130	Foundations / Computer Science	4	CS 1B or CS 2B	Intermediate Software Design JAVA (5) or Intermediate Software Design C++ (5)	5	<input type="checkbox"/>	<input type="checkbox"/>
CIS 1130/L	Programming Laboratory	1	N/A	No equivalent course		<input type="checkbox"/>	<input type="checkbox"/>
CIS 1140	Data Structure and Abstraction	4	CS 1C or CS 2C	Adv Data Struct/Algorithms JAVA (5) or Adv Data Struct/Algorithms C++ (5)	5	<input type="checkbox"/>	<input type="checkbox"/>
MTH1320	Calculus I	4	MATH 1A	Calculus 1A	5	<input type="checkbox"/>	<input type="checkbox"/>
MTH1321	Calculus II	4	MATH 1B	Calculus 1B	5	<input type="checkbox"/>	<input type="checkbox"/>
MTH2522	Probability and Statistics	4	N/A	No equivalent course		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
CIS1150*	Computer Organization (4)*		CS 10**	Computer Architecture and Organization	5	<input type="checkbox"/>	<input type="checkbox"/>

* Select four additional courses from the list of approved Computer and Information Science courses in the NDNU catalog; among these courses, one option is the lower-division CIS 1150. ** ENGR 12 is crosslisted with CS 10

Emphasis in Management Information Systems

NDNU LOWER-DIVISION MAJOR PREPARATION			FOOTHILL COLLEGE EQUIVALENT COURSES				
Course Code	Course Title	SEM	Course Code	Course Title	QTR	C	IP
CIS 1130	Foundations / Computer Science	4	CS 1B or CS 2B	Intermediate Software Design JAVA (5) or Intermediate Software Design C++ (5)	5	<input type="checkbox"/>	<input type="checkbox"/>
CIS 1130/L	Programming Laboratory	1	N/A	No equivalent course		<input type="checkbox"/>	<input type="checkbox"/>
CIS 1140	Data Structure and Abstraction	4	CS 1C or CS 2C	Adv Data Struct/Algorithms JAVA (5) or Adv Data Struct/Algorithms C++ (5)	5	<input type="checkbox"/>	<input type="checkbox"/>
BUS 1000	Foundations of Business	3	BUSI 22	Principles of Business	5	<input type="checkbox"/>	<input type="checkbox"/>
MTH1322	Applied Calculus	4	MATH 12	Calculus for Business and Economics	5	<input type="checkbox"/>	<input type="checkbox"/>
MTH2502	Statistics	3	MATH 10	Elementary Statistics	5	<input type="checkbox"/>	<input type="checkbox"/>
MTH2502/L	Excel for Statistics	1	N/A	No equivalent course		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

HEALTH SCIENCES, B.S.

NDNU LOWER-DIVISION MAJOR PREPARATION			FOOTHILL COLLEGE EQUIVALENT COURSES				
Course Code	Course Title	SEM	Course Code	Course Title	QTR	C	IP
BIO 1000	Science Success Seminar	2	AHS 50A	Introduction to Allied Health Programs	1.5	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
CHE 1200/L	General, Organic, and Biological Chemistry / Lab (3 + 1)	4	CHEM 30A plus CHEM 30B	Introduction to Chemistry (4) plus Survey of Organic and Biochemistry (5)	4 5	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
HSC 1000	Introduction to Health Sciences	3	KINS 33	Introduction to Kinesiology and Physical Education	3	<input type="checkbox"/>	<input type="checkbox"/>
HSC 1002	Microbes and Diseases	3	BIOL 41	Microbiology	6	<input type="checkbox"/>	<input type="checkbox"/>
HSC 1005/L	Anatomy and Physiology I / Lab (3 + 1)	4	BIOL 40A plus BIOL 40B	Human Anatomy and Physiology I plus Human Anatomy and Physiology II	5 5	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
HSC 1006/L	Anatomy and Physiology II / Lab (3 + 1)	4	BIOL 40C	Human Anatomy and Physiology III	5	<input type="checkbox"/>	<input type="checkbox"/>
PSY 1001	Introduction to Psychology	3	PSYC 1	General Psychology	5	<input type="checkbox"/>	<input type="checkbox"/>
MTH 2502	Statistics	3	MATH 10	Elementary Statistics	5	<input type="checkbox"/>	<input type="checkbox"/>
MTH 2502L or MTH 2503L	Excel for Statistics (1), or SPSS for Statistics (1)	1	N/A	No equivalent course		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

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KINESIOLOGY, B.S.

NDNU LOWER-DIVISION MAJOR PREPARATION			FOOTHILL COLLEGE EQUIVALENT COURSES				
Course Code	Course Title	SEM	Course Code	Course Title	QTR	C	IP
BIO 1101/L plus	General Biology I/Lab plus	3 + 1	BIOL 1A plus	Principles of Cell Biology plus	6	<input type="checkbox"/>	<input type="checkbox"/>
BIO 1103/L	General Biology II/Lab	3 + 1	BIOL 1B plus	Form and Function Plants/Animals plus	6	<input type="checkbox"/>	<input type="checkbox"/>
			BIOL 1C	Evolution, Systematics, and Ecology	6	<input type="checkbox"/>	<input type="checkbox"/>
MTH 2502	Statistics	3	MATH 10	Elementary Statistics	5	<input type="checkbox"/>	<input type="checkbox"/>
PSY 1001	Introduction to Psychology	3	PSYC 1	General Psychology	5	<input type="checkbox"/>	<input type="checkbox"/>
<i>One Chemistry course from the following. In the case that a lecture course has a separate lab, the lab course is optional.</i>			<i>One Chemistry course from the following. In the case that a lecture course has a separate lab, the lab course is optional.</i>				
CHE 1101	Introductory Chemistry (3)	3	CHEM 25	Fundamentals of Chemistry	5	<input type="checkbox"/>	<input type="checkbox"/>
CHE 1202	General Chemistry I (3)	3-4	CHEM 1A or	General Chemistry (5) or	5	<input type="checkbox"/>	<input type="checkbox"/>
			CHEM 1B or	General Chemistry (5) or			
			CHEM 1C	General Chemistry and Qualitative Analysis (5)			
CHE 1202 L	General Chemistry I Lab (1) (optional)						
CHE 1204	General Chemistry II	3-4	CHEM 30A or	Survey of Inorganic and Organic Chemistry (5) or	5	<input type="checkbox"/>	<input type="checkbox"/>
			CHEM 30B	Survey of Organic and Biochemistry (5)			
CHE 1204 L	General Chemistry II Lab (1) (optional)						

Careers in S.T.E.M. Fields

The Natural Sciences Department offers Bachelor of Science degrees in Biological Sciences, Health Sciences, and Kinesiology; and minors in Biology, Biochemistry, and Chemistry, as well as an interdisciplinary minor in Environmental Justice. A Postbaccalaureate Premedical Program is also offered. Degrees in the Department lead directly to employment, graduate study, or entrance into professional schools in medicine, pharmacy, dentistry, veterinary medicine, allied health, or education.

The Computer and Information Science Department provides sound preparation for a career as a computer professional or for graduate study. It combines a comprehensive theoretical foundation with the pragmatic aspect of designing and implementing computer-based solutions to practical problems.

650.508.3600 NDNU Admissions Office

<http://www.ndnu.edu> <http://www.foothill.edu>

Articulation Agreement Updated: November 1, 2016
 Approved by: Galen Anne Corson, Articulation Officer, gcorsan@ndnu.edu