

General Education Transfer Credit Agreement 2016-2017 Catalog

This articulation agreement describes how courses taken at City College of San Francisco will transfer to meet Notre Dame de Namur University requirements for General Education and lower division major preparation. Please note: you do not need to complete all of these requirements before transferring to NDNU.

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 City College of San Francisco:	http://www.ccsf.edu

Policy for Awarding Transfer Credit. With the exception of remedial or vocational courses, NDNU accepts credit for courses completed with grade "C" (2.0) or higher at any degree-granting regionally-accredited two-year college or four-year college or university. Courses from California Community Colleges are generally accepted according to the published recommendations for transfer of courses to the California State University system.

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

NDNU GENERAL EDUCATION REQUIREMENTS

1 Freshman Seminar (3) *Freshmen take the course at NDNU. Waived for students transferring in more than 12 units.*

	C	IP
AT NDNU; OR WAIVED	<input type="checkbox"/>	<input checked="" type="checkbox"/>

A. FOUNDATION COURSES

18 units

1 Lower-division Writing (3)

ENGL 1A, 1C

	C	IP
LD WRIT	<input type="checkbox"/>	<input type="checkbox"/>

2 World History (6)

Section A: World History (3)

No equivalent course

Section B: A second course in World History (above) is required for entering freshmen, and preferred for transfer students. Transfer students may also satisfy the Section B requirement through one of the following General History courses.

HIST 1, 3A, 3B, 5, 9, 12A, 12B, 15A, 15B, 17A, 17B, 18A, 18B, 20, 21, 31, 33, 34, 35A, 35B, 36, 37, 38, 41A, 41B, 44, 45, 48, 49, 50;
AFAM 40, 42, 55, 60; **AM C** 11A, 11B; **ASAM** 20; **LBCS** 70A, 70B, 88

WORLD HISTORY. *Entering Freshman* may fulfill the World History requirement by taking HST 1000 and HST 1010; or by transferring two Section A World History courses. **Transfer students** may fulfill the History requirement by satisfying Section A and Section B History requirements as described in the NDNU catalog. At least (3) of the (6) units required must be in World History. Starting in Fall 2015, Western Civilization courses will not satisfy the Section A or Section B requirement, unless the course appears on a prior articulation agreement with City College of San Francisco, corresponding to the year and term in which the course was taken.

	C	IP
HST: A	<input type="checkbox"/>	<input type="checkbox"/>
	C	IP
HST: B	<input type="checkbox"/>	<input type="checkbox"/>

3 Mathematics (3)

MATH 70, 75, 80, 90, 95, 97, 100A, 100B, 110A, 110B, 110C, 115, 120, 125, 130

	C	IP
MTH	<input type="checkbox"/>	<input type="checkbox"/>

4 Modern Language/Culture and Language (6 units and completion of Level 2)

Student must demonstrate language proficiency equivalent to a minimum of one year of study at NDNU by successfully completing Level 2 or higher. All courses used to satisfy the requirement must be in the same language.

LEVEL 1

Complete one course from Group A, or two courses from Group B.

Group A: CHIN 1; FREN 1; GERM 1; ITAL 1; JAPA 1; PIL 1; RUSS 1; SPAN 1

Group B: AMSL 1A*, 1B*; CHIN 1A, 1B; FREN 1A, 1B; GERM 1A, 1B; ITAL 1A, 1B; JAPA 1A, 1B; RUSS 1A, 1B; SPAN 1A, 1B

**AMSL Courses: A student may take AMSL 1A, 1B, and 2A at CCSF, but AMSL 2B is not currently offered. The equivalent of AMSL 2B must be completed at another institution.*

	C	IP
LANG: LEVEL 1	<input type="checkbox"/>	<input type="checkbox"/>

LEVEL 2

Complete one course from Group A, or two courses from Group B.

Group A: CHIN 2; FREN 2; GERM 2; ITAL 2; JAPA 2; PIL 2; RUSS 2; SPAN 2

Group B: AMSL 2A, (AMSL 2B is not offered, see note on AMSL courses above); CHIN 2A, 2B; FREN 2A, 2B; GERM 2A, 2B; ITAL 2A, 2B; JAPA 2A, 2B; RUSS 2A, 2B; SPAN 2A, 2B

	C	IP
LANG: LEVEL 2	<input type="checkbox"/>	<input type="checkbox"/>

You do not need to complete all of these GE or Major Requirements before transferring to Notre Dame de Namur University.

LEVEL 3

Complete at least one course from the following:

	C	IP
LANG: LEVEL 3	<input type="checkbox"/>	<input type="checkbox"/>

CHIN 3, 3A, 3B, 4, 4A, 4B, 30A, 30B; FREN 3, 3A, 3B, 4, 5; GERM 3, 3A, 3B, 4, 4A, 4B; ITAL 3A, 3B, 4A, 4B; JAPA 3, 3A, 3B, 4, 4A, 4B; RUSS 3A, 3B; SPAN 3, 3A, 3B, 5, 5S, 6, 6A, 6B

MODERN LANGUAGE/CULTURE AND LANGUAGE. Students who have completed the third-year level of one foreign language in high school with a grade of C (2.0) or higher in each term of the third year are exempt from the foreign language requirement. All B.A. and B.F.A. students must satisfy the Modern Language requirement by completing Level 2 as described above, unless eligible for exemption. For majors leading to a B.S. degree, Foreign Culture and Language courses may be substituted for Foreign Language.

B. SOCIAL AND PERSONAL RESPONSIBILITY**9 units****1 Philosophy (3)**

PHIL 2, 4, 25A, 25C; BIO 55; HUM 8

	C	IP
PHL	<input type="checkbox"/>	<input type="checkbox"/>

2 Religious Studies (6)

ANTH 8; ENGL 48K; HUM 7; IDST 4, 29

RELIGIOUS STUDIES. Students in day undergraduate programs must take at least three of these units at the upper-division level, and at least one course must be taken at NDNU.

	C	IP
REL:AT NDNU	<input type="checkbox"/>	<input checked="" type="checkbox"/>
REL	<input type="checkbox"/>	<input type="checkbox"/>

C. THE INDIVIDUAL, SOCIETY, AND THE ENVIRONMENT**9 units****1 Natural and Physical Sciences (3)**

ANAT 14, 25; ANTH 1; ASTR 1, 4, 17, 18, 19; BIO 9, 11, 12, 14, 15, 30, 31, 32, 32L*, 33, 40, 55, 61, 100A, 100B; BTEC 115, 120; CHEM 17, 32, 33, 40, 101A, 101B, 103A, 110, 208A, 212A, 212B, 212L*; DMI 51A; ECHO 301; EMT 100, 101A, 102, 104; EMT-P 120, 123, 126, 127, 128; ENRG 3; F SC 64; GEN 10, 11*; GEOG 1, 1L*; GEOL 10, 10L*, 11, 11L*; HLTH 53; IDST 9; MB 10, 12; NURS 50, 50A + 50B, 51, 51L, 53, 54, 55, 56; NUTR 12, 52; OCAN 1, 1L*; PALE 1; PHTC 101, 103; PHYC 2A, 2AC*, 2AL*, 2B, 2BC*, 2BL*, 4A, 4AL*, 4B, 4BL*, 4C, 4CL*, 4D, 4DL*, 10, 10L*, 20, 40, 41; PHYS 1, 12, 67; PSC 11, 11L*; VOCN 42E; ZOOL 10

**NATURAL AND PHYSICAL SCIENCE/SOCIAL AND BEHAVIORAL SCIENCES. Courses with variable units must meet the 3-unit requirement. Laboratory courses with fewer than 3 units must be combined with the appropriate lecture courses to meet the 3-unit requirement.*

	C	IP
NSC	<input type="checkbox"/>	<input type="checkbox"/>

2 Social and Behavioral Sciences (3)

ADMJ 51, 57, 59; AFAM 30, 40, 70; AMC 5; ANTH 3, 3AC, 4, 8, 11, 12, 15, 20, 25; ASAM 8, 10, 20, 22, 27, 30, 35, 40, 42; CDEV 53, 61, 67, 76, 92, 93; ECON 1, 3, 6, 10, 15, 25, 30; FASH 28; GEOG 3, 4, 7; HLTH 5, 30, 52, 53, 54, 221, 231; IDST 7, 17, 29, 30, 37; LABR 15, 70, 70A, 70B, 88, 100; LGBT 5, 9, 10, 21, 24, 50, 70; LALS 1, 9, 10, 11, 14, 15; MRKT 150; PHST 20, 30; POLS 1, 2, 3, 4, 5, 12, 18, 22, 25, 43, 45; PSYC 1, 10, 11, 21, 23, 25, 26, 40; SPCH 5; SOC 1, 2, 3, 25, 30, 35, 50; WOMN 25

	C	IP
SOC	<input type="checkbox"/>	<input type="checkbox"/>

3 One Additional Course (3) From Natural/Physical Sciences; Social/Behavioral Sciences; or from Computational Science, below.

CS 111A plus 111B (preferred); 110A plus 110B; 110C, 111C, 211E, 270, 280; MATH 15, 20

	C	IP
NSC, SOC, or COMPL	<input type="checkbox"/>	<input type="checkbox"/>

D. CREATIVE ARTS**9 units****1 Literature (3)**

ASAM 6; CLAS 35; IDST 14, 23, 27A, 27B, 36, 38, 44; ENGL 1B, 30A, 30B, 43, 44A, 44B, 46A, 46B, 46C, 51, 52, 53, 57, 58

	C	IP
LIT	<input type="checkbox"/>	<input type="checkbox"/>

2 Visual and Performing Arts (3)

A) Visual Arts: ART 101, 102, 103, 104, 105, 106, 107, 108, 109, 118, 125A-B, 126, 130A-C, 132A-C, 136A-B, 140A-C, 145A-D, 146A-D, 150A-C, 151A-C, 156, 170A-D, 180A-C; BCST 100, 101, 103, 104, 105, 110; CINE 18, 19, 20A, 20B, 21, 22, 23A, 23B, 24, 25, 30, 40, 54, 56, 57, 60, 61, 72, 74, 75, 76, 85, 90, 124A, 124B, 126, 131, 136; DSGN 101, 150; FASH 112; HUM 11, 12, 20, 25, 35, 41, 41A-B, 43, 44A, 44B, 46A-C, 48, 48 A-O, 49 A-O, 50, 52, 53, 55, 56A-C, 57, 58A, 59; GRPH 40, 67; IDST 38; LALS 14; LGBT 20; PHOT 50A-B, 51, 52, 57, 60A-B*, 67, 80, 81A-B*, 82, 83*, 85A-B, 86, 90, 93*, 100, 101 B-D*, 102A-B*; VMD 101, 103, 105, 114A*, 116A-C*, 120, 122, 124, 130, 131, 134*, 136*, 150, 151, 152, 153, 154, 155, 170, 172

B) Music: MUS 1A-B, 3A-B, 4, 5A-B, 6A-D, 7C 1-4, 7P 1-4, 7T 1-4, 7V 1-4, 7W 1-4, 8 A-B, 9 A-C, 10A-D, 11, 12, 13A-B, 14, 15, 16, 17, 18, 19, 20, 22A-C, 23, 24, 25, 26, 27B-C, 27R, 28, 29, 30, 41, 42, 44, 46, 47, 48 A-C, 200A-B*, 200C

C) Theatre and Dance: CLAS 35; DANC 30, 32, 33*, 100A-B, 101A-B*, 102A-B*, 107A *, 110A*, 111A*, 119B*, 120A-C*, 121B*, 122*, 124B*, 125A-C*, 126B*, 127*, 127B*, 128*, 129A-B*, 130B-C*, 132A-C*, 133B*, 134B*, 135A-B*, 136*, 137A-B*, 138B*, 138D*, 140A-B*, 141A-B*, 145A-B*, 146A-D*, 146C-D*, 147A-B*, 148A-B*, 150A-C*, 151A-C*, 152, 152A*, 153 A-C, 154 A-C, 155A-C*, 160A-D*, 161*, 175*; TH A 30, 31, 32, 60, 61*, 62, 63, 71, 72, 73, 107A-C, 150 A-C, 151 A-C, 152A-C, 153 A-C, 154 A-C, 160 A-D, 162A-C, 166A-C, 170A-D, 171A-D, 201 A-C, 202A-C, 203 A-C, 204 A-C

	C	IP
VPA	<input type="checkbox"/>	<input type="checkbox"/>

3 One Additional Course (3) From the above Creative Arts disciplines

	C	IP
LIT or VPA	<input type="checkbox"/>	<input type="checkbox"/>

**VISUAL AND PERFORMING ARTS. Students may transfer in one 3-unit course, or a combination of 1- or 2- unit courses to meet the 3-unit VPA requirement. Courses combined to meet the requirement must be in the same genre and must have been completed within a 4-semester period.*

E. COMMUNITY ENGAGEMENT AND CULTURAL DIVERSITY**9 units****1 Community Engagement (3)** *Usually satisfied through the Major requirements*

	C	IP
CE	<input type="checkbox"/>	<input type="checkbox"/>

No equivalent course

COMMUNITY ENGAGEMENT. Additional courses may transfer upon review of the syllabus and other requested documentation. Freshman Year Seminar courses include a community engagement component; in addition, all students must take a 3-unit lower or upper division course designated as a Community Engagement Course. Such a course engages faculty, students, and community in mutually beneficial and respectful collaboration, and requires students to complete at least 15 hours of community work. These interactions address community-identified needs, deepen students' civic and academic learning, enhance community well-being, and enrich the scholarship of the institution.

2 Cultural Diversity (6) *Generally does not add units; may double-count with a course in the General Education or Major requirements, except Culture and Language.*

	C	IP
CDIV	<input type="checkbox"/>	<input type="checkbox"/>
	C	IP
CDIV	<input type="checkbox"/>	<input type="checkbox"/>

ADMJ 59; **AFAM** 30, 40, 42, 55, 60, 70; **ANTH** 3, 3AC, 4, 5, 8, 11, 12, 15, 20, 25; **ART** 104, 105, 106, 107, 108; **ASAM** 6, 8, 10, 20, 22, 27, 30, 35, 40, 42; **ASIA** 1, 12, 176; **BCST** 104, 105, 106; **CDEV** 76, 93; **CHIN** 29A, 29B, 39, 49; **DSPS** 1; **ECON** 15, 25, 30; **ENGL** 36, 55, 57, 58A; **FASH** 23; **GEOG** 4; **HLTH** 52; **HIST** 9, 12A, 12B, 15A, 15B, 18A, 18B, 20, 21, 34, 35A, 35B, 36, 37, 41A, 41B, 45, 48; **HUM** 7, 8, 25, 48; **IDST** 4, 14, 27A, 27B, 29, 30, 31, 36, 37, 40, 42, 45; **JAPA** 39, 49; **LBCS** 15, 70A, 70B, 81, 88; **LALS** 1, 9, 10, 11, 14, 15; **LGBT** 5, 9, 10, 11, 12, 15, 20, 21, 24, 50, 55, 70, 75; **MUS** 21, 23, 24, 25, 26, 27C, 27T; **PHST** 20, 30; **POLS** 7, 8, 12, 18, 45, 48; **PSYC** 23; **SOC** 25; **SPCH** 5; **THA** 163; **WOMN** 10, 25, 54

CULTURAL DIVERSITY. The Cultural Diversity Requirement generally does not add units to a student's program. Rather, it is intended to be fulfilled by choosing courses from the approved list that also satisfy requirements in other areas of the student's program; the exception is that Cultural Diversity courses may not satisfy Culture and Language Requirements for B.S. students. For example, ANTH 25 – Culture, Gender and Sexuality, can fulfill (3) units of the Behavioral Science requirement and (3) units of the Cultural Diversity requirement. This double counting of a class may only be done with the Cultural Diversity requirement. Courses in Cultural Diversity may be taken at the lower-division or upper-division level.

U.S. HISTORY INSTITUTIONAL REQUIREMENT**3 units****1 HIST** 1, 9, 12A, 12B, 15A, 15B, 17A, 17B, 41A, 41B, 45

	C	IP
US HST	<input type="checkbox"/>	<input type="checkbox"/>

Students who have not completed a United States history course with grade "C" (2.0) or higher for each term in an American high school or an American international school are required to pass one 3-unit course in United States History. Please see catalog for more information.

650.508.3600 NDNU Admissions Office

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

Articulation Agreement Updated: September 29, 2016

Approved by: Galen Anne Corson, Articulation Officer, gcorson@ndnu.edu

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



Notre Dame de Namur University agrees to accept the City College of San Francisco 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 City College of San Francisco: <http://www.ccsf.edu>

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


ACCOUNTING, B.S.

NDNU LOWER DIVISION MAJOR PREPARATION			CITY COLLEGE OF SAN FRANCISCO EQUIVALENT COURSES			
Course Code	Course Title	Units	Course Code	Course Title	Units	C IP
ACC 1220	Introduction to Financial Accounting	3	ACCT 1	Financial Accounting	5	<input type="checkbox"/> <input type="checkbox"/>
ACC 1232	Managerial Accounting	3	ACCT 2	Managerial Accounting	5	<input type="checkbox"/> <input type="checkbox"/>
BUS 1000	Foundations of Business	3	GNBS 119	Introduction to Business	3	<input type="checkbox"/> <input type="checkbox"/>
BUS 1100	Macroeconomics	3	ECON 1	Principles of Macroeconomics	3	<input type="checkbox"/> <input type="checkbox"/>
BUS 1108	Microeconomics	3	ECON 3	Principles of Microeconomics	3	<input type="checkbox"/> <input type="checkbox"/>
BUS 1300	Community-Based Research and Statistical Analysis	3	N/A	No equivalent course		<input type="checkbox"/> 

ART, B.A. and ART, B.F.A.

NDNU LOWER DIVISION MAJOR PREPARATION			CITY COLLEGE OF SAN FRANCISCO EQUIVALENT COURSES			
Course Code	Course Title	Units	Course Code	Course Title	Units	C IP
ART 1001	Drawing I	3	ART 130A	Basic Drawing	3	<input type="checkbox"/> <input type="checkbox"/>
ART 1002	Drawing II	3	ART 130B	Intermediate Drawing	3	<input type="checkbox"/> <input type="checkbox"/>
ART 1018	Life Drawing I	3	ART 132A	Beginning Figure Drawing	3	<input type="checkbox"/> <input type="checkbox"/>
ART 1019	Life Drawing II	3	ART 132B	Intermediate Figure Drawing	3	<input type="checkbox"/> <input type="checkbox"/>
ART 1101	Two Dimensional Design	3	ART 125A	Basic Design	3	<input type="checkbox"/> <input type="checkbox"/>
ART 1109	Color and Design	3	ART 126	Color	3	<input type="checkbox"/> <input type="checkbox"/>
ART 1118	Three Dimensional Design	3	ART 125B	Advanced Design	3	<input type="checkbox"/> <input type="checkbox"/>
ART 1127	Advanced Design	3	N/A	No equivalent course		<input type="checkbox"/> 
ART 1201	Art History Survey	3	ART 101 or ART 102	Western Art History (to 500 A.D.) (3) or Western Art History (6 th -18 th C) (3)	3	<input type="checkbox"/> <input type="checkbox"/>

ART AND GRAPHIC DESIGN, B.A.

NDNU LOWER DIVISION MAJOR PREPARATION			CITY COLLEGE OF SAN FRANCISCO EQUIVALENT COURSES			
Course Code	Course Title	Units	Course Code	Course Title	Units	C IP
ART 1001	Drawing I	3	ART 130A	Basic Drawing	3	<input type="checkbox"/> <input type="checkbox"/>
ART 1010	Drawing with Illustrator	3	VMD 150	Illustrator I	3	<input type="checkbox"/> <input type="checkbox"/>
ART 1018	Life Drawing I	3	ART 132A	Beginning Figure Drawing	3	<input type="checkbox"/> <input type="checkbox"/>
ART 1101	Two Dimensional Design	3	ART 125A	Basic Design	3	<input type="checkbox"/> <input type="checkbox"/>
ART 1109	Color and Design	3	ART 126	Color	3	<input type="checkbox"/> <input type="checkbox"/>
ART 1118	Three Dimensional Design	3	ART 125B	Advanced Design	3	<input type="checkbox"/> <input type="checkbox"/>
ART 1127	Advanced Design	3	N/A	No equivalent course		<input type="checkbox"/> 
ART 1201	Art History Survey	3	ART 101 or ART 102	Western Art History (to 500 A.D.) (3) or Western Art History (6 th -18 th C) (3)	3	<input type="checkbox"/> <input type="checkbox"/>

You do not need to complete all of these GE or Major Requirements before transferring to Notre Dame de Namur University.

BIOLOGICAL SCIENCES

NDNU LOWER DIVISION MAJOR PREPARATION			CITY COLLEGE OF SAN FRANCISCO EQUIVALENT COURSES				
Course Code	Course Title	Units	Course Code	Course Title	Units	C	IP
BIO 1000	Science Success Seminar	2	N/A	Requirement waived for transfer students.			
BIO 1101/L	General Biology I/Lab	3 + 1	BIO 100B	General Biology	6		
BIO 1103/L	General Biology II/Lab	3 + 1	BIO 100A	General Biology	6		
CHE 1204/L	General Chemistry II/Lab	3 + 1	CHEM 101B	General College Chemistry	5		
MTH 1216	Precalculus with Trigonometry	4	MATH 97	Precalculus	5		
MTH 2502/L	Statistics	3	MATH 80	Probability and Statistics	4		
One of the following courses with lab:			One of the following courses with lab:				
CHE 1200/ L	General, Organic, and Bio Chemistry (3+1)	4	N/A	No equivalent course			
CHE 1202/L	General Chemistry I/Lab (3+1)	4	CHEM 101A	General College Chemistry	5		
Additional coursework highly recommended for future medical, dental, veterinary medicine, or future graduate students			Additional coursework highly recommended for future medical, dental, veterinary medicine, or future graduate students				
PHY 1203/L	College Physics I/Lab	3 + 1	PHYC 2A/L	Introductory Physics/Lab	3 + 1		
PHY 1205/L	College Physics II/Lab	3 + 1	PHYC 2B/L	Introductory Physics/Lab	3 + 1		
MTH 1320	Calculus I	4	MATH 110A	Calculus I	5		

BUSINESS ADMINISTRATION, B.S.

NDNU LOWER DIVISION MAJOR PREPARATION			CITY COLLEGE OF SAN FRANCISCO EQUIVALENT COURSES				
Course Code	Course Title	Units	Course Code	Course Title	Units	C	IP
BUS 1000	Foundations of Business	3	GNBS 119	Introduction to Business	3		
BUS 1008	Building Business Values	3	GNBS 120	Business Ethics	3		
BUS 1100	Macroeconomics	3	ECON 1	Principles of Macroeconomics	3		
BUS 1108	Microeconomics	3	ECON 3	Principles of Microeconomics	3		
BUS 1220	Introduction to Financial Accounting	3	ACCT 1	Financial Accounting	5		
BUS 1232	Managerial Accounting	3	ACCT 2	Managerial Accounting	5		
BUS 1300	Community Based Research/Statistics	3	N/A	No equivalent course			

COMMUNICATION, B.A.

NDNU LOWER DIVISION MAJOR PREPARATION			CITY COLLEGE OF SAN FRANCISCO EQUIVALENT COURSES				
Course Code	Course Title	Units	Course Code	Course Title	Units	C	IP
COM 1000	Introduction to Communication	3	BCST 103	Mass Media and Society	3		
COM 1008	Oral Communication	3	SPCH 1A	Elements of Public Speaking	3		
COM 1458L	Media Production Lab	3	JOUR 24	Newspaper Laboratory	4		

COMPUTER AND INFORMATION SCIENCE, B.S.

Emphasis in Software Engineering

NDNU LOWER DIVISION MAJOR PREPARATION			CITY COLLEGE OF SAN FRANCISCO EQUIVALENT COURSES				
Course Code	Course Title	Units	Course Code	Course Title	Units	C	IP
CIS 1130	Foundations / Computer Science (4) plus	5	CS 111A plus	Introduction to Programming: Java (4) plus	8		
CIS 1130/L	Programming Laboratory (1)		CS 111B; or	Programming Fundamentals (4); or			
			CS 110A plus	Introduction to Programming C++ (4) plus			
			CS 110B	Programming Fundamentals: C++ (4)			
CIS 1140	Data Structure and Abstraction	4	CS 111C or	Data Structure and Algorithms: Java (4) or	4		
			CS 110C	Data Structure and Algorithms: C++ (4)			
MTH1320	Calculus I	4	MATH 110A	Calculus I	5		
MTH1321	Calculus II	4	MATH 110B	Calculus II	5		
MTH2522	Probability and Statistics	4	N/A	No equivalent course			
CIS1150*	Computer Organization (4)*		CS 270	Computer Arch with Assembly Language	3		

* 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.

Emphasis in Management Information Systems

NDNU LOWER DIVISION MAJOR PREPARATION			CITY COLLEGE OF SAN FRANCISCO EQUIVALENT COURSES				
Course Code	Course Title	Units	Course Code	Course Title	Units	C	IP
CIS 1130	Foundations / Computer Science (4) plus	5	CS 111A plus	Introduction to Programming: Java (4) plus	8		
CIS 1130/L	Programming Laboratory (1)		CS 111B; or	Programming Fundamentals (4); or			
			CS 110A plus	Introduction to Programming C++ (4) plus			
			CS 110B	Programming Fundamentals: C++ (4)			
CIS 1140	Data Structure and Abstraction	4	CS 111C or	Data Structure and Algorithms: Java (4) or	4		
			CS 110C	Data Structure and Algorithms: C++ (4)			
BUS 1000	Foundations of Business	3	GNBS 119	Introduction to Business	3		
MTH1322	Applied Calculus	4	MATH 100A	Short Calculus I	3		
MTH2502	Statistics	3	MATH 80	Probability and Statistics	4		
MTH2502/L	Excel for Statistics	1	N/A	No equivalent course			

HEALTH SCIENCES, B.S.

NDNU LOWER DIVISION MAJOR PREPARATION			CITY COLLEGE OF SAN FRANCISCO EQUIVALENT COURSES				
Course Code	Course Title	Units	Course Code	Course Title	Units	C	IP
BIO 1000	Science Success Seminar	2	N/A	Requirement waived for transfer students.			
CHE 1200/L	General, Organic, and Biological Chemistry / Lab (3 + 1)	4	CHEM 32	Introduction to Medical Chemistry	4		
HSC 1000	Introduction to Health Sciences	3	N/A	No equivalent course			
HSC 1002	Microbes and Diseases	3	MB 10 or	Emerging Diseases (3) or	3-4		
			MB 12	Introduction to Microbiology (4)			
HSC 1005/L	Anatomy and Physiology I / Lab (3 + 1)	4	ANAT 25 plus	General Human Anatomy plus	4		
HSC 1006/L	Anatomy and Physiology II / Lab (3 + 1)	4	PHYS 12	Introduction to Human Physiology	4		
PSY 1001	Introduction to Psychology	3	PSYC 1	General Psychology	3		
MTH 2502	Statistics	3	MATH 80	Probability and Statistics	4		
MTH 2502L, or	Excel for Statistics (1), or	1	N/A	No equivalent course			
MTH 2503L	SPSS for Statistics (1)		N/A	No equivalent course			

HUMAN SERVICES, B.S.

NDNU LOWER DIVISION MAJOR PREPARATION			CITY COLLEGE OF SAN FRANCISCO EQUIVALENT COURSES				
Course Code	Course Title	Units	Course Code	Course Title	Units	C	IP
PSY 1001	Introduction to Psychology	3	PSYC 1	General Psychology	3		
SOC 1001	Introduction to Sociology	3	SOC 1	Introduction to Sociology	3		

KINESIOLOGY, B.S.

NDNU LOWER DIVISION MAJOR PREPARATION			CITY COLLEGE OF SAN FRANCISCO EQUIVALENT COURSES				
Course Code	Course Title	Units	Course Code	Course Title	Units	C	IP
BIO 1101/L	General Biology I/Lab	3 + 1	BIO 100B	General Biology	6		
BIO 1103/L	General Biology II/Lab	3 + 1	BIO 100A	General Biology	6		
MTH 2502	Statistics	3	MATH 80	Probability and Statistics	4		
PSY 1001	Introduction to Psychology	3	PSYC 1	General Psychology	3		
One Chemistry course from the following. In the case that a lecture course has a separate lab, the lab course is optional.			One Chemistry course from the following. In the case that a lecture course has a separate lab, the lab course is optional.				
CHE 1101	Introductory Chemistry (3)	3-4	CHEM 40	Introduction Chemical Principles	5		
CHE 1202	General Chemistry I (3)		CHEM 101A	General College Chemistry	5		
CHE 1202 L	General Chemistry I Lab (1) (optional)						
CHE 1204	General Chemistry II		CHEM 101B	General College Chemistry	5		
CHE 1204 L	General Chemistry II Lab (1) (optional)						

LIBERAL ARTS, B.A.

NDNU LOWER DIVISION MAJOR PREPARATION			CITY COLLEGE OF SAN FRANCISCO EQUIVALENT COURSES				
Course Code	Course Title	Units	Course Code	Course Title	Units	C	IP
BIO 1009	Introduction to Biology	3	BIO 11	The Science of Living Organisms	4	<input type="checkbox"/>	<input type="checkbox"/>
PHY 1109	Introduction to Physical Science	3	P SC 11	Physical Science	3	<input type="checkbox"/>	<input type="checkbox"/>
PSC 1000	Introduction American Government	3	POLS 1	American Government	3	<input type="checkbox"/>	<input type="checkbox"/>
PSY 1001	Introduction to Psychology	3	PSYC 1	General Psychology	3	<input type="checkbox"/>	<input type="checkbox"/>

LIBERAL STUDIES, B.A.

NDNU LOWER DIVISION MAJOR PREPARATION			CITY COLLEGE OF SAN FRANCISCO EQUIVALENT COURSES				
Course Code	Course Title	Units	Course Code	Course Title	Units	C	IP
BIO 1009/1109L	Introduction to Biology with Lab	3.5	BIO 11	Intro Science of Living Organisms	4	<input type="checkbox"/>	<input type="checkbox"/>
PSC 1000	Introduction American Government	3	POLS 1	American Government	3	<input type="checkbox"/>	<input type="checkbox"/>
For Credential students, one course from the following:		3	For Credential students, one course from the following:			<input type="checkbox"/>	<input checked="" type="checkbox"/>
ART 2605 or	Art Education Concepts (3) or		N/A	Must be taken at NDNU		<input type="checkbox"/>	<input checked="" type="checkbox"/>
THE 2151	Children's Theatre (3)		N/A	Must be taken at NDNU		<input type="checkbox"/>	<input checked="" type="checkbox"/>
For Non-Credential Students:		3	For Non-Credential Students:		3		
Three units within the Visual and Performing Arts meeting one of the following criteria: One 3-unit content course, or 3 units in studio/performance or concepts.			Three units within the Visual and Performing Arts meeting one of the following criteria: One 3-unit content course, or 3 units in studio/performance or concepts.				
REL 1250	World Religions	3	HUM 7	Comparative Religions	3	<input type="checkbox"/>	<input type="checkbox"/>
PSY 1001	Introduction to Psychology	3	PSYC 1	General Psychology	3	<input type="checkbox"/>	<input type="checkbox"/>

PSYCHOLOGY, B.A.

NDNU LOWER DIVISION MAJOR PREPARATION			CITY COLLEGE OF SAN FRANCISCO EQUIVALENT COURSES				
Course Code	Course Title	Units	Course Code	Course Title	Units	C	IP
PSY 1001	Introduction to Psychology	3	PSYC 1	General Psychology	3	<input type="checkbox"/>	<input type="checkbox"/>
MTH 2502	Statistics	3	MATH 80 or	Probability and Statistics (4) or	4	<input type="checkbox"/>	<input type="checkbox"/>
			PSYC 5*	Statistics for Behavioral Sciences* (4)			

* Note: PSYC 5 does not satisfy the Mathematics General Education requirement at NDNU.

SOCIOLOGY, B.A.

NDNU LOWER DIVISION MAJOR PREPARATION			CITY COLLEGE OF SAN FRANCISCO EQUIVALENT COURSES				
Course Code	Course Title	Units	Course Code	Course Title	Units	C	IP
SOC 1001	Introduction to Sociology	3	SOC 1	Introduction to Sociology	3	<input type="checkbox"/>	<input type="checkbox"/>
SOC 1009	Cultural Anthropology	3	ANTH 3	Intro Social/Cultural Anthropology	3	<input type="checkbox"/>	<input type="checkbox"/>

650.508.3600 NDNU Admissions Office

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

Articulation Agreement Updated: September 29, 2016

Approved by: Galen Anne Corson, Articulation Officer, gcorson@ndnu.edu