

**2+2 Agreement: AA Liberal Arts with concentration in Mathematics at Nashua Community College and
BS in Mathematics at Plymouth State University**

Years 1 and 2 at Nashua Community College		
Course ID	Course Title	Credits
<u>Year One</u> at Nashua Community college		
MTHN 106	Elementary Statistics	4
MTHN 210	Calculus I	4
MTHN 211	Calculus II	4
MTHN 215	Linear Algebra	4
ENGN 101	College Composition	4
	General Education: Group A Elective	3
	General Education: Group B Elective	4
	General Education: Group B Elective	4
	General Education: Group F Elective	<u>3</u>
	Sub-total Credits for Year One at NCC	34
<u>Year Two</u> at Nashua Community College		
MTHN 170	Discrete Mathematics	3
MTHN 212	Calculus III	4
MTHN 220	Elementary Differential Equations	4
MTHN 285	Individual Project in Mathematics	4
	General Elective: Group C Elective	3
	General Education: Group C or D Elective	3
	General Education: Group D Elective	3
	General Education: Group F or G Elective	3
	General Education: Group F or G Elective	3
	Open Elective	<u>3</u>
	Sub-total Credits for Year Two at NCC	<u>33</u>
	Total Credits at NCC for AA Liberal Arts/Math	67
Years 3 and 4 at PSU		
Course ID	Course Title	Credits
<u>Year Three</u> at PSU		
MA 2000	Introduction to Formal Math (MATH)	3
MA 3110	Logic, Proofs & Axiomatic Systems (WRCO)	3
MA 3500	Probability and Statistics for Scientists	3
CS	CS 2370 or CS 2400 or CS 2470	2-4
WECO	Wellness Connection	3
	Electives	<u>12-10</u>
	Sub-total Credits for Year Three at PSU	26
<u>Year Four</u> at PSU		
MA 4140	Abstract Algebra (WRCO)	3
MA 4430	Numerical Analysis (TECO)	3
MA 4510	Introduction to Analysis	3
MA	Mathematics Electives	12
INCO	Integration Connection	3
	Elective	<u>3</u>
	Sub-total Credits for Year Four at PSU	<u>27</u>
	Total Credits taken at PSU	53

BS MATHEMATICS 2013-2014
2+2 Program with Nashua Community College for AA Liberal Arts 2013-2014
With a concentration in Mathematics

NCC Requirements (2013-14 Catalog)	Credits	Satisfies PSU Requirement (2013-14 Catalog)	Credits
MTHN 106 Elementary Statistics	4	credits toward BS degree	4
MTHN 170 Discrete Mathematics	3	MA 3200 Discrete Mathematics	3
MTHN 210 Calculus I	4	MA 2550 Calculus I (QRCO)	4
MTHN 211 Calculus II	4	MA 2560 Calculus II (QRCO)	4
MTHN 212 Calculus III	4	MA 3540 Calculus III	4
MTHN 215 Linear Algebra	4	MA 3120 Linear Algebra	4
MTHN 220 Elementary Differential Equations	4	MA 3510 Differential Equations	4
MTHN 285 Individual Project in Mathematics	4	credits toward BS degree (substitute)	4
ENGN 101 College Composition	4	EN 1200 Composition	4
General Education: Group A Elective	3	CTDI Creative Thought Direction	3
General Education: Group B Elective*	4	SIDI Scientific Inquiry Direction	4
General Education: Group B Elective*	4	SIDI Scientific Inquiry Direction	4
General Elective: Group C Elective	3	SSDI Self and Society Direction	3
General Education: Group C or D Elective	3	PPDI Past and Present Direction	3
General Education: Group D Elective	3	PPDI Past and Present Direction	3
General Education: Group F Elective **	3	CTDI Creative Thought Direction	3
General Education: Group F or G Elective***	3	DICO Diversity Connection	3
General Education: Group F or G Elective***	3	GACO Global Awareness Connection	3
Open Elective	3	SSDI Self and Society Direction	3
Total required for AA Fine Arts	67	Sub-total	67

*Recommended Lab Science courses are calculus-based Physics I and calculus-based Physics II.

**Recommended Humanities electives are Introduction to Philosophy, Critical Thinking Skills or Music Composition.

***Two courses of the same foreign language are recommended.

MA 2000 Introduction to Formal Math (MATH)	3
MA 3110 Logic, Proofs, & Axiomatic Systems (WRCO)	3
MA 3500 Probability and Statistics for Scientists	3
MA 4140 Abstract Algebra (WRCO)	3
MA 4430 Numerical Analysis (TECO)	3
MA 4510 Introduction to Analysis	3
Mathematics electives-complete 12 credits from:	12
MA 3130 Directed Research in Mathematics	
MA 3230 Geometries (TECO) (WRCO)	
MA 3280 Regression Analysis	
MA 3460 History of Mathematics (GACO) (WRCO)	
MA 4220 Topics in Mathematics	
MA 4350 Probability Theory	
Computer Science elective-complete one:	2-4
CS 2370 Programming in Java	
CS 2400 Scientific Programming	
CS 2470 Systems Programming in C/C++	
INCO Integration Connection	3
WECO Wellness Connection	3
Electives	<u>*15-13</u>
Sub-total	53

Total required for the degree 120

*three credits for IS 1111 become electives for transfer students entering with 24 or more credits

The maximum number of transfer credits that can be applied to a PSU bachelor degree is 90.

If a NCC course on page 2 for transfer to PSU satisfies a Nashua General Education requirement, the Group that it satisfies is noted in brackets, e.g., [A].

Plymouth State University CURRICULUM PLANNING GUIDE with APPLICATION of TRANSFER CREDIT

NCC students coming to PSU must have grades of C or better in each of their courses and a minimum 2.0 cumulative GPA in order to transfer into the PSU BS Mathematics.

NCC students who have completed the AA degree in Liberal Arts: Mathematics with one course with a grade of C- or below, may retake that course during the summer preceding entrance to PSU and still be accepted at PSU under this 2+2 agreement, if she/he earns a grade of C or higher.

NCC students who complete the AA degree in Liberal Arts: Mathematics will need to take at least two more General Education classes (Integration Connection and Wellness Connection) and the third and fourth year coursework for the BS Mathematics.

Advisors at NCC will work with students to make sure that their General Education Electives will transfer in as a Direction course at PSU.

If a NCC student has not completed the AA degree in Liberal Arts: Mathematics, then courses will be transferred in on a course-by-course basis. See Transfer Agreement.

NCC Group F or G courses that satisfy PSU Diversity Connection (DICO)

HUMN 145 American Popular Culture [F]
HUMN 230 Ethics in the Workplace [F]
LNGN 101 French I [G]
LNGN 102 French II [G]
LNGN 105 Spanish I [G]
LNGN 106 Spanish II [G]
LNGN 120 Sign Language I [G]
LNGN 121 Sign Language II [G]
LNGN 205 Spanish III [G]

NCC Group F or G courses that satisfy PSU Global Awareness Connection

HUMN 107 World Religion [F]
HUMN 109 Introduction to Philosophy [F]
LNGN 101 French I [G]
LNGN 102 French II [G]
LNGN 105 Spanish I [G]
LNGN 106 Spanish II [G]
LNGN 109 Italian I [G]
LNGN 110 Italian II [G]
LNGN 113 Basic German [G]
LNGN 114 German I [G]
LNGN 115 German II [G]
LNGN 205 Spanish III [G]
LNGN 206 Spanish IV [G]
LNGN 214 German III [G]
SOCN 110 Cultural Anthropology [C]

NCC Group A or F courses that satisfy PSU Creative Thought Direction (CTDI)

ENGN 105 Introduction to Literature [A]
ENGN 206 Writing Short Stories [A]
ENGN 220 Contemporary Dramatic Literature [A]
ENGN 235 Poetry Workshop [A]
ENGN 240 American Literature I [A]
ENGN 241 American Literature II [A]
HUMN 102 Art Appreciation [F]
HUMN 120 Introduction to Theatre [F]
HUMN 220 Classic Myths in Western Civilization [F]

NCC Group C or D courses that satisfy PSU Past and Present Direction (PPDI)

GEON 110 World Regional Geography [D]
HISN 101 Western Civilization from Ancient Times to 1700 [D]
HISN 102 Western Civilization From 1600 to the Present [D]
HISN 110 Ancient Civilizations of the World [D]
HISN 140 US History from the Colonial Era to Reconstruction [D]
HISN 141 US History Since Reconstruction [D]
HISN 215 New Hampshire History [D]
HISN 241 American Constitutional History [D]
HISN 246 Modern America [D]

NCC Group B courses that satisfy PSU Scientific Inquiry Direction (SIDI)

SCIN 101 Basic Biology [B]
SCIN 102 Basic Biology [B]
SCIN 111 Basic Human Anatomy and Physiology [B]
SCIN 115 Astronomy [B]
SCIN 116 Meteorology [B]
SCIN 117 Environmental Science [B]
SCIN 141 Introduction to Chemistry [B]
SCIN 150 Physical Science I [B]
SCIN 151 Physical Science II [B]

NCC Group C courses that satisfy PSU Self and Society Direction (SSDI)

PSYN 130 Human Relations [C]
SOCN 201 Contemporary Social Problems [C]
SOCN 205 The Changing Family [C]