CSCU Pathway Transfer A. A. Degree: Mathematics Studies Justification for Designated General Education Courses Draft October 5, 2015

The Mathematics Transfer Articulation Pathway provides a common pathway for students graduating with an A. A. degree from the Connecticut Community Colleges and transferring to one of the five postsecondary institutions in the CSCU system. The TAP Mathematics Committee recommends that 2 specific general education courses and one discipline sequence be designated in the Framework 30. These designated courses are important to the success of our students transferring seamlessly and completing the A. A./B. A. degrees in a timely manner.

ENG* 101 Composition: This course is a standard required course for students to complete their Written Competencies in the Framework 30 as well as possible additional general education courses. It is recommended as the Written Communications I course.

MAT* 186 Precalculus/MAT* 185 Trigonometry: These courses are important as prerequisites to MAT* 254 Calculus I. In order for students to complete Calculus I, II and III prior to A. A. degree completion, students will need to begin with the designated courses. Due to the sequential nature of the Calculus courses, students need 3 separate semesters to complete them. By taking MAT* 186/MAT* 185 in the first semester, students can complete the calculus courses in the next 3 semesters for a four semester total. Since MAT* 185 and MAT* 186 each have a prerequisite of MAT* 137 or higher, they satisfy the Quantitative Reasoning competency in the Framework 30.

Recommended sequence in Scientific Reasoning/Scientific Knowledge: One of the CSUs requires completion of a sequence in their scientific competency. Since all CSUs require 2 courses in this area, the TAP Math Pathway Committee felt that requiring the 2 courses to be a sequence would be beneficial to a seamless transfer and to a simplified Framework 30.

PROPOSED PATHWAY CSCU Pathway Transfer A.A. Degree: Math Studies

1	FRAMEWORK30		
2	Section A: Common Designated		
-	Competencies		
3	Written Communication I	ENG 101 Composition	3 credits
4	Written Communication II	General Education Elective	3 credits
5	Scientific Reasoning	BIO, CHE or PHY sequence	4 credits
6	Scientific Knowledge & Understanding	BIO, CHE or PHY sequence	4 credits
7	Quantitative Reasoning	MAT 185 Trigonometry	4 credits
	0	MAT 186 Pre-Calculus	
8	Historical Knowledge & Understanding	General Education Elective	3 credits
9	Social Phenomena	General Education Elective	3 credits
10	Aesthetic Dimensions	General Education Elective	3 credits
11	Section B: Campus Designated		
	Competencies		
12	Competency 1	General Education Elective	3 credits
13	Competency 2	General Education Elective	3 credits
14	Framework30 Total		33 credits
15	PATHWAY30		
16	Additional General Education Courses		
17			
18			
19	Major Program Requirements		
20	MAT 254	Calculus I	4 credits
21	MAT 256	Calculus II	4 credits
22	MAT 268	Calculus III: Multivariable	4 credits
23	Select one: MAT 272 (3 credits: GCC, MXCC, NCC, QVCC, TRCC) MAT 274 (4 credits: MCC)	Linear Algebra	4 credits
	MAT 285 (3 credits: ACC, GCC, HCC, MXCC, NVCC, NCC, TRCC, TXCC) MAT 286 (4 credits: MCC, NCCC, QVCC)	Differential Equations	
	MAT 287 (4 credits: MCC)	Foundations of Mathematics	
24	ACC – CS 106	Structured Programming (3)	3-4 credits
	CCC – CSC 105	Programming Logic (3)	
	GCC – CSC 124	Programming Logic and Design with Python (3)	

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	HCC – CSC 105	Programming Logic (3);	
	CSC 106	Structured Programming (3)	
	MCC – CSC 124	Programming Logic and Design	
		with Python (3);	
	CSC 125	Programming Logic and Design	
		with C++ (3)	
	MXCC – CSC 105	Programming Logic (3)	
	NCC – CSC 108	Introduction to Programming (3)	
	Nee - ese 108		
	NVCC – CSC 205 or	Visual Basic I (3) or	
	CSU 113	Programming I	
	NWCC – CSC 104	Introduction to Logic and	
		Programming (4)	
	QVCC – CSC 106	Structured Programming (3)	
	TRCC – CSC 108	Introduction to Programming (4)	
	TXCC – CSC 126	Programming Logic and Design	
		with Visual Basic (3)	
25	Unrestricted Electives		
26	Students should consider beginning or		
	completing work on foreign language		
	requirements not already met in high		
	school and beginning work on minor		
	requirements of some CSUs. They may		
	also complete other General Education		
27	requirements.		0 ava dita
27	Dethurse 20 Total		9 credits
28	Pathway30 Total		28 credits
29	Math Pathway Total		60-61 credits

Template 1

Central Connecticut State University

Complete four-year degree with articulation of community college degree to four-year degree

Mathematics B.A.

There are no additional requirements for admission to this program.

1	C c	ommunity Colleges*:		CCSU	
2		Similarity coneges .	Credits	ccso	Credits
3		Гион		20**	creuits
			nework		
4		General Educ	cation R	Requirements	
5	Competency:				
6	Section A				
7	Written I	English 101	3	English 110	3
8	Written II	Gen Ed	3	Skill Area I – Communication	3
9	Scientific Reasoning	BIO, CHE or PHY Lab sequence	4	Study Area IV – Natural Sciences	4
10	Scientific Knowledge	BIO, CHE or PHY sequence	4	Study Area IV – Natural Sciences	4
11	Quantitative	MAT 185 Trigonometry MAT 186 Pre-Calculus ¹	4	Skill Area II – Mathematics	4
12	Historical Knowledge	Gen Ed*	3	Study Area II – History	3
13	Social Phenomena	Gen Ed	3	Study Area II – Social Science	3
14	Aesthetic Dimensions	Gen Ed	3	Study Area I – Arts and Humanities	3
15	Section B				
16	Competency:	Gen Ed	3	Skill Area IV – University Requirement	3
17	Competency:	Gen Ed	3	Study Area III – Behavioral Sciences	3
18	Framework30 Cr	edits (30-31):			
19			athway	30	
20		Additional Gen	eral Edu	ucation Courses	
21				Study Area I – Literature	3
22				Study Area I – Arts and Humanities	3
23	· · · · · ·			Study Area II – Social Sciences	3
24				Study Area III – Behavioral	3
				Sciences	
25	MAT 254 Calculu	s I	4	Skill Area II – Math/Stat/ Comp Sci: MATH 152 Calculus I	4
26				Skill Area III – Foreign Language Proficiency (Can be met with three years of the same foreign	6

			language in high school or the	
			completion of a second semester	
			at the college level. Credits will	
			adjust accordingly.)	
27	General Education Credits:	37		55
28	Maior P	rogram	Courses	
29	MAT 254 Calculus I	0	MATH 152 Calculus I – See Skill	0
		Ū.	Area II above, line 25	Ū
30			MATH 218 Discrete Mathematics	
31	MAT 256 Calculus II	4	MATH 221 Calculus II	4
32	MAT 268 Calculus III: Multivariable	4	MATH 222 Calculus III	4
33			MATH 228 Introduction to Linear	4
			Algebra	
34			MATH 366 Abstract Algebra	4
35			MATH 377 Real Analysis	4
36			MATH 450 Proof Seminar	4
37			Choose Six (6) credits from the	6
I			following:	
			MATH 300, 355, 383, 398, 400,	
			421, 440, 455, 465, 468, 469,	
			477, 491	
			STAT 315, 416, 425, 455, 456,	
			465, 476	
			ACTL 335, 465, 481, 482	
38	Select one:	4	Will count as:	
	MAT 272 (3 credits: GCC, MXCC, NCC,		MATH 228 line 33	
	QVCC, TRCC)—Linear Algebra			
	MAT 274 (4 credits: MCC)—Linear Algebra			
	MAT 285 (3 credits: ACC, GCC, HCC,		MATH 355 line 37	
	MXCC, NVCC, NCC, TRCC, TXCC)			
	Differential Equations			
	MAT 286 (4 credits: MCC, NCCC, QVCC)—			
	Differential Equations			
	MAT 287 (4 credits: MCC)—Foundations		MATH 218 line 30	
	of Mathematics		Credits will adjust accordingly	
39	of Mathematics			
40	Introduction to Programming	3	Strongly Recommended:	(3)
40	ACC – CS 106 Structured Programming (3)	5	CS 151 Computer Science I	(3)
			co isi computer science i	
	CCC – CSC 105 Programming Logic (3)			
	GCC – CSC 124 Programming Logic and			
	Design with Python (3)			

		1		i
	HCC – CSC 105 Programming Logic (3);			
	CSC 106 Structured Programming (3)			
	MCC – CSC 124 Programming Logic and			
	Design with Python (3); CSC 125			
	Programming Logic and Design with C++			
	(3)			
	MXCC – CSC 105 Programming Logic (3)			
	NCC – CSC 108 Introduction to			
	Programming (3)			
	NVCC – CSC 205 Visual Basic I (3) or			
	CSC 113 Programming I (3)			
	NWCC – CSC 104 Introduction to Logic and			
	Programming (4)			
	QVCC – CSC 106 Structured Programming			
	(3)			
	TRCC – CSC 108 Introduction to			
	Programming (4)			
	TXCC – CSC 126 Programming Logic and			
41	Design with Visual Basic (3)			
41				
42				
43				
44				
45 46				
40	Program Course Credits:	15		34
48	Minor Course Credits:	15		18-24
49		n Floct	ivec	10-24
50		en Elect	1762	
50	Students who have fulfilled foreign language requirements in high school or			
	who use open elective credits at the			
	community college to fulfill foreign			
	language and/or minor requirements will			
	end up with more open elective credits			
	at CCSU.			
51	Open Elective credits:	8-9		8-14
52	Total Credits at the Community College	60-61	Total Credits for the 4-Year	120
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		i		1

*Your work group may find itself listing several courses at places in this column due to differences in designations at the community colleges. In those cases, please list all courses and, next to each, the CC that offers it.

**There is no need to list community college courses in the Framework30 unless a specific course is designated in the pathway. Do list the competencies/courses that will be met at the four-year institution.

Template 1

Central Connecticut State University

Complete four-year degree with articulation of community college degree to four-year degree

Mathematics B.A. Actuarial Science Specialization

No minor is required for students selecting this major.

1	Co	ommunity Colleges*:		CCSU	
2			Credits		Credits
3		Fran	nework	30**	
4		General Edu	cation F	Requirements	
5	Competency:				
6	Section A				
7	Written I	English 101	3	English 110	3
8	Written II	Gen Ed	3	Skill Area I – Communication	3
9	Scientific Reasoning	BIO, CHE or PHY Lab sequence	4	Study Area IV – Natural Sciences	4
10	Scientific Knowledge	BIO, CHE or PHY sequence	4	Study Area IV – Natural Sciences	4
11	Quantitative	MAT 185 Trigonometry MAT 186 Pre-Calculus ¹	4	Skill Area II – Mathematics	4
12	Historical Knowledge	Gen Ed*	3	Study Area II – History	3
13	Social Phenomena	Gen Ed	3	Study Area II – Social Science	3
14	Aesthetic Dimensions	Gen Ed	3	Study Area I – Arts and Humanities	3
15	Section B				
16	Competency:	Gen Ed	3	Skill Area IV – University Requirement	3
17	Competency:	Gen Ed	3	Study Area III – Behavioral Sciences	3
18	Framework30 Cr	edits (30-31):	1		
19		Pa	athway	30	-
20		Additional Gen	eral Ed	ucation Courses	
21				Study Area I – Literature	3
22				Study Area I – Arts and Humanities	3
23				Study Area II – Social Sciences	3
24				Study Area III – Behavioral Sciences	3
25	MAT 254 Calculu	sl	4	Skill Area II – Math/Stat/ Comp Sci: MATH 152 Calculus I	4
26				Skill Area III – Foreign Language Proficiency (Can be met with three years of the same foreign language in high school or the	6

			completion of a second semester	
			at the college level. Credits will	
			adjust accordingly.)	
27	General Education Credits:	37		55
28		-	Courses	
29	MAT 254 Calculus I		MATH 152 Calculus I – See Skill	0
		, C	Area II above, line 25	Ū
30			MATH 218 Discrete Mathematics	4
31	MAT 256 Calculus II	4	MATH 221 Calculus	4
32	MAT 268 Calculus III: Multivariable	4	MATH 222 Calculus III	4
33			MATH 228 Introduction to Linear Algebra	4
34			STAT 315 Mathematical Statistics	3
54				5
35			STAT 416 Mathematical Statistics	3
36			STAT 425 Loss and Frequency	3
			Distributions and Credibility	
			Theory	
37			ACTL 335 Theory of Interest	3
38			ACTL 465 Actuarial Models I	4
39			ACTL 466 Actuarial Models II	4
40	Select one:	4	Will count as:	
	MAT 272 (3 credits: GCC, MXCC, NCC,		MATH 228 line 33	
	QVCC, TRCC)—Linear Algebra MAT 274 (4 credits: MCC)—Linear Algebra		MATH 355 line 41	
	MAT 285 (3 credits: ACC, GCC, HCC, MXCC, NVCC, NCC, TRCC, TXCC)— Differential Equations MAT 286 (4 credits: MCC, NCCC, QVCC)— Differential Equations		MATH 355 IME 41	
	MAT 287 (4 credits: MCC)—Foundations		MATH 218 line 30	
	of Mathematics		Credits will adjust accordingly	
41	Introduction to Programming	3	Major Electives (as approved by	18
	ACC – Structured Programming (3)		advisor): 18 credits from:	
			ACTL 480	
	CCC – CSC 105 Programming Logic (3)		ACTL 481 Review – SOA/CAS	
			Course I	
	GCC – CSC 124 Programming Logic and		ACTL 482 Review – SOA/CAS	
	Design with Python (3)		Course II MATH 300 Mathematics	
	HCC – CSC 105 Programming Logic (3);		Internship	
	CSC 106 Structured Programming (3)		MATH 355 Introduction to	
			Differential Equations with	
			Applications	

	their open electives.			
	Financial Accounting (ACC*115) as one of			
	interested this specialization select			
52	It is recommended that students			
51	Open Elective credits:	8-9		11
	at CCSU.			
	language and/or minor requirements will end up with more open elective credits			
	community college to fulfill foreign			
	who use open elective credits at the			
	language requirements in high school or			
50	Students who have fulfilled foreign			
49		en Elect	ives	
48	Program Course Credits:	15	-	54
47				
46				
45				
44				
43		-		
42				
			Behavior	
			Management and Organizational	
	Design with Visual Basic (3)		MGT 295 Fundamentals of	
	TXCC – CSC 126 Programming Logic and		Business	
			LAW 250 Legal Environment of	
	Programming (4)		FIN 321 Insurance	
	TRCC – CSC 108 Introduction to		Institutions	
	(3)		FIN 310 Principles of Investments FIN 320 Financial Markets and	
	QVCC – CSC 106 Structured Programming		Finance	
			FIN 301 Intermediate Managerial	
	Programming (4)		FIN 295 Managerial Finance	
	NWCC – CSC 104 Introduction to Logic and		ECON 460 Economic Forecasting	
			CS 473 Simulation Techniques	
	CSC 113 Programming I (3)		Computing I	
	NVCC – CSC 205 Visual Basic I (3) or		CS 213 Applications of	
			CS 152 Computer Science II	
	Programming (3)		CS 151 Computer Science I	
	NCC – CSC 108 Introduction to		Managerial Accounting	
			AC 212 Introduction to	
	MXCC – CSC 105 Programming Logic (3)		Accounting	
			AC 211 Introduction to Financial	
	Programming Logic and Design with C++ (3)		Analysis	
	Design with Python (3); CSC 125 Programming Logic and Design with C++		Abstract Algebra MATH 377 Introduction to Real	
	MCC – CSC 124 Programming Logic and		MATH 366 Introduction to	

55	Total creats at the community conege	00-01	Degree	120
53	Total Credits at the Community College	60-61	Total Credits for the 4-Year	120
	Phenomena course or as an open elective.			
	(ECN#101), either as their Social			
	select a course in Macroeconomics			
	students interested in this specialization			
	In addition, it is recommended that			

*Your work group may find itself listing several courses at places in this column due to differences in designations at the community colleges. In those cases, please list all courses and, next to each, the CC that offers it.

**There is no need to list community college courses in the Framework30 unless a specific course is designated in the pathway. Do list the competencies/courses that will be met at the four-year institution.

Template 1

Central Connecticut State University

Complete four-year degree with articulation of community college degree to four-year degree

Mathematics B.A. Statistics Specialization

No minor is required for students selecting this major.

1	Co	ommunity Colleges*:		CCSU	
2			Credits		Credits
3		Fran	nework	30**	
4		General Edu	cation F	Requirements	
5	Competency:				
6	Section A				
7	Written I	English 101	3	English 110	3
8	Written II	Gen Ed	3	Skill Area I – Communication	3
9	Scientific Reasoning	BIO, CHE or PHY Lab sequence	4	Study Area IV – Natural Sciences	4
10	Scientific Knowledge	BIO, CHE or PHY sequence	4	Study Area IV – Natural Sciences	4
11	Quantitative	MAT 185 Trigonometry MAT 186 Pre-Calculus ¹	4	Skill Area II – Mathematics	4
12	Historical Knowledge	Gen Ed*	3	Study Area II – History	3
13	Social Phenomena	Gen Ed	3	Study Area II – Social Science	3
14	Aesthetic Dimensions	Gen Ed	3	Study Area I – Arts and Humanities	3
15	Section B				
16	Competency:	Gen Ed	3	Skill Area IV – University Requirement	3
17	Competency:	Gen Ed	3	Study Area III – Behavioral Sciences	3
18	Framework30 Cr	edits (30-31):	1		
19		Pa	athway	30	•
20		Additional Gen	eral Ed	ucation Courses	
21				Study Area I – Literature	3
22				Study Area I – Arts and Humanities	3
23				Study Area II – Social Sciences	3
24				Study Area III – Behavioral Sciences	3
25	MAT 254 Calculu	sl	4	Skill Area II – Math/Stat/ Comp Sci: MATH 152 Calculus I	4
26				Skill Area III – Foreign Language Proficiency (Can be met with three years of the same foreign language in high school or the	6

			completion of a second semester	
			at the college level. Credits will	
			adjust accordingly.)	
27	General Education Credits:	37		55
28		rogram	Courses	
29	MAT 254 Calculus I	0	MATH 152 Calculus I – See Skill	0
			Area II above, line 25	
30			MATH 218 Discrete Mathematics	4
31	MAT 256 Calculus II	4	MATH 221 Calculus	4
32	MAT 268 Calculus III: Multivariable	4	MATH 222 Calculus III	4
33			MATH 228 Introduction to Linear Algebra	4
34			MATH 366 Abstract Algebra OR MATH 377 Real Analysis	4
35			STAT 215 Statistics for Behavioral Sciences	
36			STAT 315 Mathematical Statistics	3
37			STAT 416 Mathematical Statistics	3
38		C	STAT 216 Statistics for Behavioral Sciences II OR STAT 453 Applied Statistical Analysis	3
39			2 courses chosen from: STAT 425 Loss and Frequency Distributions and Credibility Theory STAT 455 Experimental Design STAT 456/MKT 444 Fundamentals of SAS STAT 465 Nonparametric Statistics STAT 476 Topics in Statistics	6
40	Introduction to Programming ACC – Structured Programming (3) CCC – CSC 105 Programming Logic (3) GCC – CSC 124 Programming Logic and	3	16 credits selected from the courses listed above or from the following: MATH 300 Mathematics Internship MATH 491 Advanced Vector Calculus	16
	Design with Python (3) HCC – CSC 105 Programming Logic (3); CSC 106 Structured Programming (3)		CS 151 Computer Science I CS 152 Computer Science II CS 253 Data and File Structures CS 473 Simulation Techniques	

MCC - CSC 124 Programming Logic and Design with Python (3); CSC 125 Programming Logic and Design with C++ (3)BIO 405 Ecology ECON 460 Economic Forecasting ECON 460 Economic Forecasting PSY 252 Research Methods in Psychology II PSY 251 Psychological Evaluation ACTL 335 Theory of Interest ACTL 465 Actuarial Models II ACTL 465 Actuarial Mode	
Programming Logic and Design with C++ (3)ECON 485 Econometrics GEOG 476 Advanced CartographyMXCC - CSC 105 Programming Logic (3)PSY 222 Research Methods in Psychology IINCC - CSC 108 Introduction to Programming (3)PSY 222 Research Methods in Psychological Evaluation ACTL 335 Theory of Interest ACTL 465 Actuarial Models I ACTL 466 Actuarial Models II ACTL 481 Review - SOA/CAS Course INWCC - CSC 104 Introduction to Logic and Programming (4)Strongly Recommended: CS 151 Computer Science IQVCC - CSC 108 Introduction to Programming (4)Strongly Recommended: CS 151 Computer Science ITXCC - CSC 108 Introduction to Programming (4)TXCC - CSC 108 Introduction to Programming (4)TXCC - CSC 108 Introduction to Programming (4)MAT 272 (3 credits: GCC, MIXCC, NCC, QVCC, TRCC)-Linear Algebra	
(3)GEOG 476 Advanced CartographyMXCC - CSC 105 Programming Logic (3)PSY 222 Research Methods in Psychology IINCC - CSC 108 Introduction to Programming (3)PSY 222 Research Methods in Psychology IINVCC - CSC 108 Introduction to Programming (3)PSY 451 Psychological Evaluation ACTL 355 Theory of Interest ACTL 465 Actuarial Models II ACTL 466 Actuarial Models II ACTL 466 Actuarial Models II ACTL 466 Actuarial Models II ACTL 466 Actuarial Models II ACTL 481 Review - SOA/CAS Course INWCC - CSC 104 Introduction to Logic and Programming (4)Strongly Recommended: CS 151 Computer Science IQVCC - CSC 106 Structured Programming (3)TRCC - CSC 108 Introduction to Programming (4)TXCC - CSC 126 Programming Logic and Design with Visual Basic (3)Image: Computer Science I41Image: Computer Science II42Image: Computer Science II43Image: Computer Science II44Select one: MAT 272 (3 credits: GCC, MXCC, NCC, QVCC, TRCC)—Linear Algebra4	
MXCC - CSC 105 Programming Logic (3)Cartography PSY 222 Research Methods in Psychological Evaluation ACTL 335 Theory of Interest ACTL 465 Actuarial Models I ACTL 466 Actuarial Models II ACTL 481 Review - SOA/CAS Course INVCC - CSC 104 Introduction to Logic and Programming (4)ACTL 481 Review - SOA/CAS Course IQVCC - CSC 106 Structured Programming (3)Strongly Recommended: CS 151 Computer Science IQVCC - CSC 108 Introduction to Programming (4)TXCC - CSC 108 Introduction to Programming (4)TXCC - CSC 108 Introduction to Programming (4)TXCC - CSC 126 Programming Logic and Design with Visual Basic (3)4142434444Select one: MAT 272 (3 credits: GCC, MXCC, NCC, QVCC, TRCC)—Linear Algebra	
MXCC - CSC 105 Programming Logic (3)PSY 222 Research Methods in Psychology IINCC - CSC 108 Introduction to Programming (3)PSY 451 Psychological Evaluation ACTL 335 Theory of Interest ACTL 455 Actuarial Models I ACTL 466 Actuarial Models II ACTL 481 Review - SOA/CAS Course INWCC - CSC 104 Introduction to Logic and Programming (4)ACTL 481 Review - SOA/CAS Course IQVCC - CSC 106 Structured Programming (3)Strongly Recommended: CS 151 Computer Science ITRCC - CSC 108 Introduction to Programming (4)TXCC - CSC 108 Introduction to Programming (4)TXCC - CSC 108 Introduction to Design with Visual Basic (3)A4142434444Select one: MAT 272 (3 credits: GCC, MXCC, NCC, QVCC, TRCC)—Linear Algebra4	
Number of the termPsychology IIProgramming (3)Psychological EvaluationNVCC - CSC 108 Introduction toPSY 451 Psychological EvaluationNVCC - CSC 205 Visual Basic I (3) orACTL 335 Theory of InterestCSC 113 Programming I (3)ACTL 466 Actuarial Models IINWCC - CSC 104 Introduction to Logic andACTL 481 Review - SOA/CASProgramming (4)Strongly Recommended:CSC 108 Introduction toProgramming (3)TRCC - CSC 108 Introduction toProgramming (4)TXCC - CSC 126 Programming Logic andDesign with Visual Basic (3)41424344Select one:AMAT 272 (3 credits: GCC, MXCC, NCC, QVCC, TRCC)—Linear AlgebraA	
NCC - CSC 108 Introduction to Programming (3)PSY 451 Psychological Evaluation ACTL 335 Theory of Interest ACTL 465 Actuarial Models I ACTL 466 Actuarial Models II ACTL 481 Review - SOA/CAS Course INWCC - CSC 104 Introduction to Logic and Programming (4)ACTL 481 Review - SOA/CAS Course IQVCC - CSC 106 Structured Programming (3)Strongly Recommended: CS 151 Computer Science ITRCC - CSC 108 Introduction to Programming (4)TXCC - CSC 108 Introduction to Programming (4)TXCC - CSC 126 Programming Logic and Design with Visual Basic (3)J4142434444Select one: MAT 272 (3 credits: GCC, MXCC, NCC, QVCC, TRCC)—Linear Algebra4	
Programming (3)ACTL 335 Theory of Interest ACTL 465 Actuarial Models I ACTL 466 Actuarial Models II ACTL 466 Actuarial Models II ACTL 466 Actuarial Models II ACTL 481 Review – SOA/CAS Course INWCC – CSC 104 Introduction to Logic and Programming (4)Strongly Recommended: CS 151 Computer Science IQVCC – CSC 108 Introduction to Programming (4)Strongly Recommended: CS 151 Computer Science ITRCC – CSC 108 Introduction to Programming (4)TXCC – CSC 126 Programming Logic and Design with Visual Basic (3)4142434444Select one: MAT 272 (3 credits: GCC, MXCC, NCC, QVCC, TRCC)—Linear Algebra4	
ACTL 465 Actuarial Models I ACTL 466 Actuarial Models II ACTL 466 Actuarial Models II ACTL 481 Review – SOA/CAS Course I Strongly Recommended: CS 151 Computer Science I QVCC – CSC 106 Structured Programming (3) TRCC – CSC 108 Introduction to Programming (4) TXCC – CSC 108 Introduction to Programming (4) TXCC – CSC 126 Programming Logic and Design with Visual Basic (3) 41 42 43 44 Select one: MAT 272 (3 credits: GCC, MXCC, NCC, QVCC, TRCC)—Linear Algebra	
NVCC - CSC 205 Visual Basic I (3) or CSC 113 Programming I (3)ACTL 466 Actuarial Models II ACTL 481 Review - SOA/CAS Course INWCC - CSC 104 Introduction to Logic and Programming (4)Strongly Recommended: CS 151 Computer Science IQVCC - CSC 106 Structured Programming (3)TRCC - CSC 108 Introduction to Programming (4)TXCC - CSC 126 Programming Logic and Design with Visual Basic (3)ACTL 466 Actuarial Models II ACTL 481 Review - SOA/CAS Course I41424344Select one: MAT 272 (3 credits: GCC, MXCC, NCC, QVCC, TRCC)-Linear Algebra4	
CSC 113 Programming I (3)ACTL 481 Review – SOA/CAS Course INWCC – CSC 104 Introduction to Logic and Programming (4)Strongly Recommended: CS 151 Computer Science IQVCC – CSC 106 Structured Programming (3)TRCC – CSC 108 Introduction to Programming (4)TXCC – CSC 126 Programming Logic and Design with Visual Basic (3)ACTL 481 Review – SOA/CAS Course I41Image: Computer Science I42Image: Computer Science I43Image: CSC 108 CC, MXCC, NCC, QVCC, TRCC)—Linear Algebra	
NWCC - CSC 104 Introduction to Logic and Programming (4) Course I QVCC - CSC 106 Structured Programming (3) Strongly Recommended: CS 151 Computer Science I TRCC - CSC 108 Introduction to Programming (4) TXCC - CSC 126 Programming Logic and Design with Visual Basic (3) 41 41 42 43 44 Select one: MAT 272 (3 credits: GCC, MXCC, NCC, QVCC, TRCC)-Linear Algebra 4	
NWCC - CSC 104 Introduction to Logic and Programming (4) Strongly Recommended: CS 151 Computer Science I QVCC - CSC 106 Structured Programming (3) TRCC - CSC 108 Introduction to Programming (4) TXCC - CSC 126 Programming Logic and Design with Visual Basic (3) Image: Computer Science I 41 Image: Computer Science I 42 Image: Computer Science I 43 Image: Computer Science I 44 Select one: MAT 272 (3 credits: GCC, MXCC, NCC, QVCC, TRCC)—Linear Algebra 4	
Programming (4) Strongly Recommended: CS 151 Computer Science I QVCC - CSC 106 Structured Programming (3) TRCC - CSC 108 Introduction to Programming (4) TXCC - CSC 126 Programming Logic and Design with Visual Basic (3) Image: Computer Science I 41 Image: Computer Science I 42 Image: Computer Science I 43 Image: Computer Science I 44 Select one: MAT 272 (3 credits: GCC, MIXCC, NCC, QVCC, TRCC)—Linear Algebra 4	
Programming (4) Strongly Recommended: CS 151 Computer Science I QVCC - CSC 106 Structured Programming (3) TRCC - CSC 108 Introduction to Programming (4) TXCC - CSC 126 Programming Logic and Design with Visual Basic (3) Image: Computer Science I 41 Image: Computer Science I 42 Image: Computer Science I 43 Image: Computer Science I 44 Select one: MAT 272 (3 credits: GCC, MIXCC, NCC, QVCC, TRCC)—Linear Algebra 4	
QVCC - CSC 106 Structured Programming CS 151 Computer Science I (3) TRCC - CSC 108 Introduction to Programming (4) TXCC - CSC 126 Programming Logic and Design with Visual Basic (3) 41 41 42 43 43 44 Select one: MAT 272 (3 credits: GCC, MXCC, NCC, QVCC, TRCC)—Linear Algebra 4	
QVCC - CSC 106 Structured Programming (3) TRCC - CSC 108 Introduction to Programming (4) TXCC - CSC 126 Programming Logic and Design with Visual Basic (3) 41 41 42 43 43 44 Select one: MAT 272 (3 credits: GCC, MXCC, NCC, QVCC, TRCC)—Linear Algebra 4	
(3) TRCC - CSC 108 Introduction to Programming (4) TXCC - CSC 126 Programming Logic and Design with Visual Basic (3) 41 42 43 44 Select one: MAT 272 (3 credits: GCC, MXCC, NCC, QVCC, TRCC)—Linear Algebra	
TRCC - CSC 108 Introduction to Programming (4) TXCC - CSC 126 Programming Logic and Design with Visual Basic (3) 41 42 43 44 Select one: MAT 272 (3 credits: GCC, MXCC, NCC, QVCC, TRCC)—Linear Algebra	
Programming (4) TXCC - CSC 126 Programming Logic and Design with Visual Basic (3) 41	
Programming (4) TXCC - CSC 126 Programming Logic and Design with Visual Basic (3) 41	
TXCC - CSC 126 Programming Logic and Design with Visual Basic (3) 41 42 43 44 Select one: MAT 272 (3 credits: GCC, MXCC, NCC, QVCC, TRCC)—Linear Algebra	
Design with Visual Basic (3) 41 42 43 44 Select one: MAT 272 (3 credits: GCC, MXCC, NCC, QVCC, TRCC)—Linear Algebra	
Design with Visual Basic (3) 41 42 43 44 Select one: MAT 272 (3 credits: GCC, MXCC, NCC, QVCC, TRCC)—Linear Algebra	
41 42 42 43 43 44 44 Select one: MAT 272 (3 credits: GCC, MXCC, NCC, QVCC, TRCC)—Linear Algebra 4	
42 43 44 Select one: MAT 272 (3 credits: GCC, MXCC, NCC, QVCC, TRCC)—Linear Algebra 4	
44Select one:4Will count as:MAT 272 (3 credits: GCC, MXCC, NCC, QVCC, TRCC)—Linear Algebra4Will count as:	
MAT 272 (3 credits: GCC, MXCC, NCC, MATH 228 line 33 QVCC, TRCC)—Linear Algebra	
QVCC, TRCC)—Linear Algebra	
QVCC, TRCC)—Linear Algebra	
MAT 285 (3 credits: ACC, GCC, HCC, MATH 355 line 40	
MXCC, NVCC, NCC, TRCC, TXCC)—	
Differential Equations	
MAT 286 (4 credits: MCC, NCCC, QVCC)—	
Differential Equations	
MAT 287 (4 credits: MCC)—Foundations MATH 218 line 30	
of Mathematics Credits will adjust accordingly	
45	
46	
47 Program course creatis: 15 48	
	54
Open Liceaves	j4
50 Students who have fulfilled foreign	54
language requirements in high school or	i4

	who use open elective credits at the community college to fulfill foreign language and/or minor requirements will end up with more open elective credits at CCSU.			
51	Open Elective credits:	8-9		11
52	It is recommended that students interested in this specialization select an introductory statistics course (MAT*165, 167, 168, or 201) as one of their open electives.			
5	Total Credits at the Community College	60-61	Total Credits for the 4-Year Degree	120

*Your work group may find itself listing several courses at places in this column due to differences in designations at the community colleges. In those cases, please list all courses and, next to each, the CC that offers it.

**There is no need to list community college courses in the Framework30 unless a specific course is designated in the pathway. Do list the competencies/courses that will be met at the four-year institution.

Template 1

Eastern Connecticut State University

Complete four-year degree with articulation of community college degree to four-year degree

Mathematics B.A.

For all Mathematics courses number 300 or higher used to satisfy the math major requirement, students must fulfill at least one of the following:

- 1. C in all these courses OR
- 2. C+ average in all these courses.

1	C	ommunity Colleges*:		CCSU	
2	C	ominumity coneges .	Credits		Credits
3				20**	Creuits
		Frai	nework	30**	
4		General Edu	cation F	Requirements	-
5	Competency:				
6	Section A				
7	Written I	English 101	3	T1 College Writing, Literature and Thought	3
8	Written II	Gen Ed	3	T1 College Writing, Literature and Thought	3
9	Scientific Reasoning	BIO, CHE or PHY Lab sequence	4	T1 Natural Sciences	4
10	Scientific Knowledge	BIO, CHE or PHY Lab sequence	4	T2 Natural Sciences	4
11	Quantitative	MAT 185 Trigonometry MAT 186 Pre-Calculus ¹	4	T1 Math	4
12	Historical Knowledge	Gen Ed	3	T1 Historical Perspectives	3
13	Social Phenomena	Gen Ed	3	T1 Social Sciences	3
14	Aesthetic Dimensions	Gen Ed	3	T1 Arts in Context	3
15	Section B				
16	Competency:	Gen Ed	3	T1 FYI 100	3
17	Competency:	Gen Ed	3	T1 Health and Wellness	3
18	Framework30 C	redits (30-31):			33
19		P	athway	30	
20		Additional Ger	neral Ed	ucation Courses	
21				T2 Cultural Perspectives	3
22				T2 Individuals and Societies	3
23				T2 Creative Expressions	3
24				MAT 315 Applied Probability and Statistics	4
25				Tier 3 Capstone (Must be taken at ECSU)	3

26			Foreign Language Proficiency	6
20			(Can be met by completing at	0
			least two years of a single	
			foreign language in high school	
			or two semesters of a single	
			foreign language at the college	
			level. Credits will adjust	
			accordingly.)	
27	General Education Credits:	33		52
28			Courses	52
29	iviajor i	logram	MAT 230 Discrete Structures	3
30	MAT 254 Calculus I	4	MAT 230 Discrete Structures	4
30	MAT 254 Calculus I	4		4
31	MAT 256 Calculus II	4	Technology MAT 244 Calculus II with	4
51	MAT 256 Calculus II	4		4
22			Technology	2
32 33			MAT 310 Applied Linear Algebra MAT 315 Applied Probability and	3
55			Statistics	0
			See line 24 above	
24	MAT 268 Calculus III: Multivariable	4		1
34	MAT 268 Calculus III: Multivariable	4	MAT 340 Calculus III	4
35			MAT 380 Geometry	
36			MAT 400 Abstract Algebra I	3
37			MAT 420 Real Analysis I	3
38		3	MAT 421 Real Analysis II	3
39	Introduction to Programming	3	CSC 210 Computer Programming	3
	ACC – Structured Programming (3)		1	
	CCC CSC 105 Drogramming Logic (2)			
	CCC – CSC 105 Programming Logic (3)	•		
	GCC – CSC 124 Programming Logic and			
	Design with Python (3)			
	Design with rython (5)			
	HCC – CSC 105 Programming Logic (3);			
	CSC 106 Structured Programming (3)			
	csc 100 structured i rogramming (s)			
	MCC – CSC 124 Programming Logic and			
	Design with Python (3); CSC 125			
	Programming Logic and Design with C++			
	(3)			
	MXCC – CSC 105 Programming Logic (3)			
	NCC – CSC 108 Introduction to			
	Programming (3)			
	NVCC – CSC 205 Visual Basic I (3) or			
	CSC 113 Programming I (3)			
	COC ITO FIORIGIIIIIIII (O)			

	NWCC – CSC 104 Introduction to Logic and Programming (4)			
	QVCC – CSC 106 Structured Programming (3)			
	TRCC – CSC 108 Introduction to Programming (4)			
	TXCC – CSC 126 Programming Logic and Design with Visual Basic (3)			
40			Two addition MATH courses numbered 300 or above but not MAT 303 or internships	6
41	Select one: MAT 272 (3 credits: GCC, MXCC, NCC, QVCC, TRCC)—Linear Algebra MAT 274 (4 credits: MCC)—Linear Algebra	4	Will count as: MATH 310 line 32	
	MAT 285 (3 credits: ACC, GCC, HCC, MXCC, NVCC, NCC, TRCC, TXCC)— Differential Equations MAT 286 (4 credits: MCC, NCCC, QVCC)— Differential Equations	C	One of the additional MATH courses line 40	
	MAT 287 (4 credits: MCC)—Foundations of Mathematics		MATH 230 line 29 Credits will adjust accordingly	
42				
43				
44				
45				
46				
47	Program Course Credits:	19		43
48	Ор	en Elect	ives	
49	Students who have fulfilled foreign			
	language requirements in high school or			
	who use open elective credits at the			
	community college to fulfill foreign			
	language requirements will end up with			
	more open elective credits at the ECSU.			
50	Open Elective credits:	8-9		25
51	Total Credits at the Community College	60-61	Total Credits for the 4-Year Degree	120

*Your work group may find itself listing several courses at places in this column due to differences in designations at the community colleges. In those cases, please list all courses and, next to each, the CC that offers it.

**There is no need to list community college courses in the Framework30 unless a specific course is designated in the pathway.

Template 1

Southern Connecticut State University

Complete four-year degree with articulation of community college degree to four-year degree

Mathematics B.A.

In those mathematics courses which the student applies toward the major in mathematics, he/she must have a GPA of 2.0 and, at most, one grade below C-.

1	C	ommunity Colleges*:		CCSU	
2			Credits		Credits
3		Fran	nework	30**	
4		General Educ	cation R	Requirements	
5	Competency:				
6	Section A				
7	Written I	English 101	3	FYE	3
8	Written II	Gen Ed	3	Written Communication	3
9	Scientific Reasoning	BIO, CHE or PHY sequence	4	Natural World 1 – Physical Realm	4
10	Scientific Knowledge	BIO, CHE or PHY sequence	4	Natural World II – Life and Environment	4
11	Quantitative	MAT 254 Calculus I ¹	4	Quantitative Reasoning	4
12	Historical Knowledge	Gen Ed*	3	Time and Place	3
13	Social Phenomena	Gen Ed	3	Social structure, Conflict, Consensus	3
14	Aesthetic Dimensions	Gen Ed	3	Cultural Expressions	3
15	Section B				
16	Competency:	Gen Ed	3	Critical Thinking	3
17	Competency:	Gen Ed	3	Tech Fluency	3
18	Framework30 C	redits (30-31):			33
19		Pa	athway	30	
20		Additional Gen	eral Edu	ucation Courses	
21				American Experience	3
22				Creative Drive	3
23				Global Awareness	3
24				Mind and Body	3
25	*			Multilingual Communication –	9
				level 3 (Can be met by	
				completing the third level of a	
				foreign language	
				or demonstrating knowledge via	
				a STAMP test (Standards-based	
				Measurement of Proficiency) or	

			an equivalent. Credits will adjust	
26			accordingly.)	
26			Must be taken at SCSU:	0
27	Concerned Educations Creditor	22	Tier 3 Connections Capstone	0
28	General Education Credits:	33		54
29		rogram	Courses	
30	See line 11		MAT 150 Calculus I (C- or better)	0
			See line 11 above	
31	MAT 256 Calculus II	4	MAT 151 Calculus II (C- or better)	4
32			MAT 250 Foundations of	3
			Mathematics: An Introduction	
			(C- or better)	
33	MAT 268 Calculus III: Multivariable	4	MAT 252 Calculus III (C- or	4
			better)	
34			MAT 320 Probability and	4
			Statistics I	
35			MAT 372 Linear Algebra (C- or	3
			better)	
36			MAT 375 Abstract Algebra I	3
37			MAT 450 Analysis	3
38			Select 1:	3
			MAT 488 Seminar in	
			Mathematical Modeling	
			MAT 498 Seminar in	
			Mathematics	
39			Select, with approval of a	9
			department advisor, three	
			courses from:	
			MAT 245 Differential Equations	
			MAT 300 History of Mathematics	
			MAT 321 Mathematical Statistics	
			MAT 322 Numerical Analysis I	
			MAT 325 Design of Experiments	
			MAT 326 Regression Analysis	
			MAT 360 Foundations of	
			Geometry	
			MAT 370 Number Theory	
			MAT 376 Abstract Algebra II	
			MAT 378 Discrete Mathematics	
	-		MAT 398 Special Topics in	
			Mathematics	
			MAT 405 Elementary	
			Mathematics from an Advanced	
			Standpoint	
			MAT 480 Topology	
			MAT 488 Seminar in	
			Mathematical Modeling	

			MAT 498 Seminar in	
			Mathematics	
40	Introduction to Programming	3	CSC 152 Computer Programming	3
	ACC – Structured Programming (3)		1	
	CCC – CSC 105 Programming Logic (3)			
	GCC – CSC 124 Programming Logic and Design with Python (3)			
	HCC – CSC 105 Programming Logic (3); CSC 106 Structured Programming (3)			
	MCC – CSC 124 Programming Logic and Design with Python (3); CSC 125 Programming Logic and Design with C++ (3)			
	MXCC – CSC 105 Programming Logic (3)			
	NCC – CSC 108 Introduction to Programming (3)			
	NVCC – CSC 205 Visual Basic I (3) or CSC 113 Programming I (3)			
	NWCC – CSC 104 Introduction to Logic and Programming (4)			
	QVCC – CSC 106 Structured Programming (3)			
	TRCC – CSC 108 Introduction to Programming (4)			
	TXCC – CSC 126 Programming Logic and Design with Visual Basic (3)			
41	Select one:	4	Will count as:	
	MAT 272 (3 credits: GCC, MXCC, NCC,		MATH 372 line 35	
	QVCC, TRCC)—Linear Algebra			
	MAT 274 (4 credits: MCC)—Linear Algebra			
	MAT 285 (3 credits: ACC, GCC, HCC, MXCC, NVCC, NCC, TRCC, TXCC)—		MATH 245 line 39	
	Differential Equations			
	MAT 286 (4 credits: MCC, NCCC, QVCC)—			
	Differential Equations			

	MAT 287 (4 credits: MCC)—Foundations			
	of Mathematics		MATH 250 line 32	
			Credits will adjust accordingly	
42				
43				
44				
45				
46				
47				
48	Program Course Credits:	15		39
49	Ope	en Elect	ives	
50	MAT 185 Trigonometry ¹	4		
	MAT 186 Pre-Calculus ¹			
51	Students who have fulfilled foreign			
	language requirements through			
	assessment (STAMP or equivalent), who			
	place beyond first semester, or who use			
	open elective credits at the community			
	college to fulfill foreign language			
	requirements will end up with more			
52	open elective credits at SCSU.	8-9		27
52	Open Elective credits:	8-9 60-61	Total Credits for the 4-Year	
55	Total Credits at the Community College	10-00	Degree	120
			Degree	

*Your work group may find itself listing several courses at places in this column due to differences in designations at the community colleges. In those cases, please list all courses and, next to each, the CC that offers it.

**There is no need to list community college courses in the Framework30 unless a specific course is designated in the pathway.

Template 1

Southern Connecticut State University

Complete four-year degree with articulation of community college degree to four-year degree

Mathematics B.S. – Concentration: Applied

In those mathematics courses which the student applies toward the major in mathematics, he/she must have a GPA of 2.0 and, at most, one grade below C-.

1	C	ommunity Colleges*:		CCSU		
2			Credits		Credits	
3		Fran	nework	30**		
4	General Education Requirements					
5	Competency:					
6	Section A					
7	Written I	English 101	3	FYE	3	
8	Written II	Gen Ed	3	Written Communication	3	
9	Scientific Reasoning	BIO, CHE or PHY	4	Natural World 1 – Physical Realm	4	
		sequence				
10	Scientific Knowledge	BIO, CHE or PHY	4	Natural World II – Life and	4	
		sequence		Environment		
11	Quantitative	MAT 254 Calcul <mark>us I¹</mark>	4	Quantitative Reasoning	4	
12	Historical Knowledge	Gen Ed*	3	Time and Place	3	
13	Social Phenomena	Gen Ed	3	Social structure, Conflict,	3	
				Consensus		
14	Aesthetic Dimensions	Gen Ed	3	Cultural Expressions	3	
15	Section B					
16	Competency:	Gen Ed	3	Critical Thinking	3	
17	Competency:	Gen Ed	3	Tech Fluency	3	
18	Framework30 C	redits (30-31):				
19		P	athway	30		
20		Additional Gen	neral Edu	ucation Courses		
21				American Experience	3	
22				Creative Drive	3	
23				Global Awareness	3	
24				Mind and Body	3	
25				Multilingual Communication –	9	
				level 3 (Can be met by		
				completing the third level of a		
				foreign language		
				or demonstrating knowledge via		
				a STAMP test (Standards-based		
				Measurement of Proficiency) or		

			an equivalent. Credits will adjust	
26			accordingly.) Must be taken at SCSU:	
20			Tier 3 Connections Capstone	0
27	General Education Credits:	33	The S connections capstone	54
28			Courses	54
		rogram	Courses	
30	See line 11		MAT 150 Calculus I (C- or better)	0
		_	See line 11 above	
31	MAT 256 Calculus II	4	MAT 151 Calculus II (C- or better)	4
32			MAT 245 Differential Equations	3
33			MAT 250 Foundations of	3
			Mathematics: An Introduction	
			(C- or better)	
34	MAT 268 Calculus III: Multivariable	4	MAT 252 Calculus III (C- or	4
			better)	
35			MAT 320 Probability and	4
			Statistics I	
36			MAT 322 Numerical Analysis I	4
37			MAT 372 Linear Algebra (C- or	3
			better)	
38			MAT 378 Discrete Mathematics	3
39			MAT 488 Seminar in	3
			Mathematical Modeling	
40			Select 1:	3
			MAT 321 Mathematical Statistics	
			MAT 325 Design of Experiments	
			MAT 326 Regression Analysis	
41			Select 2:	3
			MAT 375 Abstract Algebra	
			MAT 450 Analysis	
40		2	MAT 480 Topology	2
42	Introduction to Programming	3	CSC 152 Computer Programming	3
	ACC – Structured Programming (3)		1	
	CCC – CSC 105 Programming Logic (3)			
	GCC – CSC 124 Programming Logic and			
	Design with Python (3)			
	LICC CCC 105 Drogromming Logic (2):			
	HCC – CSC 105 Programming Logic (3);			
	CSC 106 Structured Programming (3)			
	MCC – CSC 124 Programming Logic and			
	Design with Python (3); CSC 125			
	Programming Logic and Design with C++			
	(3)			

	MXCC – CSC 105 Programming Logic (3)			
	NCC – CSC 108 Introduction to Programming (3)			
	NVCC – CSC 205 Visual Basic I (3) or CSC 113 Programming I (3)			
	NWCC – CSC 104 Introduction to Logic and Programming (4)			
	QVCC – CSC 106 Structured Programming (3)			
	TRCC – CSC 108 Introduction to Programming (4)			
	TXCC – CSC 126 Programming Logic and Design with Visual Basic (3)			
43			Select two cognate courses beyond those used to satisfy LEP requirements from any of the following areas of application. Selections must be approved through memo from the Mathematics department to the Registrar's Office Biology Chemistry Computer Science Earth Science Economics Physics Or other approved areas	6
44	Select one: MAT 272 (3 credits: GCC, MXCC, NCC, QVCC, TRCC)—Linear Algebra MAT 274 (4 credits: MCC)—Linear Algebra	4	Will count as: MATH 372 line 37	
	MAT 285 (3 credits: ACC, GCC, HCC, MXCC, NVCC, NCC, TRCC, TXCC)— Differential Equations MAT 286 (4 credits: MCC, NCCC, QVCC)— Differential Equations		MATH 245 line 32	
	MAT 287 (4 credits: MCC)—Foundations of Mathematics		MATH 250 line 33	
			Credits will adjust accordingly	

45				
46				
47				
48	Program Course Credits:	15		42
49	Op	en Elect	ives	
50	MAT 185 Trigonometry ¹ MAT 186 Pre-Calculus ¹	4		
51	Students who have fulfilled foreign language requirements through assessment (STAMP or equivalent), who place beyond first semester, or who use open elective credits at the community college to fulfill foreign language requirements will end up with more open elective credits at SCSU.			
52	Open Elective credits:	8-9		24
53	Total Credits at the Community College	60-61	Total Credits for the 4-Year Degree	120

*Your work group may find itself listing several courses at places in this column due to differences in designations at the community colleges. In those cases, please list all courses and, next to each, the CC that offers it.

**There is no need to list community college courses in the Framework30 unless a specific course is designated in the pathway.

Template 1

Western Connecticut State University

Complete four-year degree with articulation of community college degree to four-year degree

Mathematics B.A.

Math Majors must earn a C or better ²

Math Majors must earn a B of better ³

1	C	ommunity Colleges*:	1	CCSU			
2			Credits		Credits		
3		Fran	30**				
4		General Education Requirements					
5	Competency:						
6	Section A						
7	Written I	English 101	3	Written Communication I	3		
8	Written II	Gen Ed	3	Written Communication II	3		
9	Scientific Reasoning	BIO, CHE or PHY	4	Scientific Inquiry I	4		
		sequence					
10	Scientific Knowledge	BIO, CHE or PHY	4	Scientific Inquiry II	4		
		sequence					
11	Quantitative	MAT 254 Calcul <mark>us I^{1,3}</mark>	4	Quantitative Reasoning	4		
12	Historical Knowledge	Gen Ed	3	Critical Thinking	3		
13	Social Phenomena	Gen Ed	3	Information Literacy	3		
14	Aesthetic Dimensions	Gen Ed	3	Creative Process	3		
15	Section B	\frown					
16	Competency:	Gen Ed	3	Oral Communication	3		
17	Competency:	Gen Ed	3	General Education Elective	3		
18	Framework30 C	redits (30-31):			33		
19			athway	30			
20			-	ucation Courses			
21				General Education Elective	3		
22				General Education Elective	3		
23				Intercultural Competence	3		
24				Health and Wellness	3		
25	~			Students must complete a	6		
				foreign language requirement.			
				This may be done by completing			
				a language at the elementary II			
				level or above. Students who			
				have completed three years of			
				language in high school with at			

			least a C average have satisfied	
			this requirement.	
26			Must be taken at WCSU:	
27			First Year Navigation – fulfilled	0
21			by MAT 151/151 See lines 32 and	0
			33	
28			Written Communication III—	0
			embedded in MAT 450/451 See	Ũ
			lines 44 and 45	
29			Culminating Gen Ed Experience –	0
			satisfied by MAT 450/451 See	
			lines 44 and 45	
30	General Education Credits:			51
31	Major P	rogram	Courses	
32			MAT 150 Mathematics Seminar I	.5
33			MAT 151 Mathematics Seminar II	.5
34			MAT 141 Foundational Discrete	3
			Mathematics ²	
35	See line 11		MAT 181 Calculus I See line 11	0
			above	
36	MAT 256 Calculus II	4	MAT 182 Calculus II ³	4
37			MAT 185 Introduction to	3
			Symbolic Computations	
38			MAT 207 Proofs	3
39			MAT 222 Introductory Statistics	3
40			MAT 272 Introduction to Linear	3
41	MAT 200 Colordus III. Mathingrights	4	Algebra ² MAT 281 Calculus III ²	4
41 42	MAT 268 Calculus III: Multivariable	- 4		4
42 43			MAT 282 Differential Equations	3
45			MAT 332 Introduction to Applied Mathematics	5
44			MAT 375 Algebraic Structures ²	3
45			MAT 383 Introduction to	3
73			Mathematical Analysis	5
46			MAT 450 Senior Seminar I	1.5
47			MAT 451 Senior Seminar II	1.5
48			One course which completes a	3
-			sequence in Analysis, Algebra or	-
			Applied Math	
49			One elective from the	3
			Department's Approved List	
50			A year sequence from one of the	
			following: BIO, CHE, ECO, PHY,	
			met in the Framework30 above;	
			see lines 9 and 10	

51	Introduction to Programming ACC – Structured Programming (3)	3	CS 140 Introduction to Programming OR	3
	CCC – CSC 105 Programming Logic (3)		CS 143 Visual BASIC	
	GCC – CSC 124 Programming Logic and			
	Design with Python (3)			
	HCC – CSC 105 Programming Logic (3); CSC 106 Structured Programming (3)			
	MCC – CSC 124 Programming Logic and Design with Python (3); CSC 125 Programming Logic and Design with C++ (3)			
	MXCC – CSC 105 Programming Logic (3)			
	NCC – CSC 108 Introduction to Programming (3)			
	NVCC – CSC 205 Visual Basic I (3) or CSC 113 Programming I (3)			
	NWCC – CSC 104 Introduction to Logic and Programming (4)			
	QVCC – CSC 106 Structured Programming (3)			
	TRCC – CSC 108 Introduction to Programming (4)			
	TXCC – CSC 126 Programming Logic and Design with Visual Basic (3)			
52	Select one: MAT 272 (3 credits: GCC, MXCC, NCC, QVCC, TRCC)—Linear Algebra MAT 274 (4 credits: MCC)—Linear Algebra	4	Will count as: MATH 272 line 40	
	MAT 285 (3 credits: ACC, GCC, HCC,		MATH 282 line 42	
	MXCC, NVCC, NCC, TRCC, TXCC)— Differential Equations MAT 286 (4 credits: MCC, NCCC, QVCC)— Differential Equations			
	MAT 287 (4 credits: MCC)—Foundations of Mathematics		MATH 207 line 38	

			Credits will adjust accordingly	
53	Program Course Credits:	15		48
54	Оре	en Elect	ives	
55	MAT 185 Trigonometry ¹	4		
	MAT 186 Pre-Calculus ¹			
56	Students who have fulfilled foreign language requirements in high school or who use open elective credits at the community college to fulfill foreign language requirements will end up with more open elective credits at WCSU.			
57	Open Elective credits:	8-9		21
58	Total Credits at the Community College	60-61	Total Credits for the 4-Year Degree	120

*Your work group may find itself listing several courses at places in this column due to differences in designations at the community colleges. In those cases, please list all courses and, next to each, the CC that offers it.

**There is no need to list community college courses in the Framework30 unless a specific course is designated in the pathway.

Template 1

Western Connecticut State University

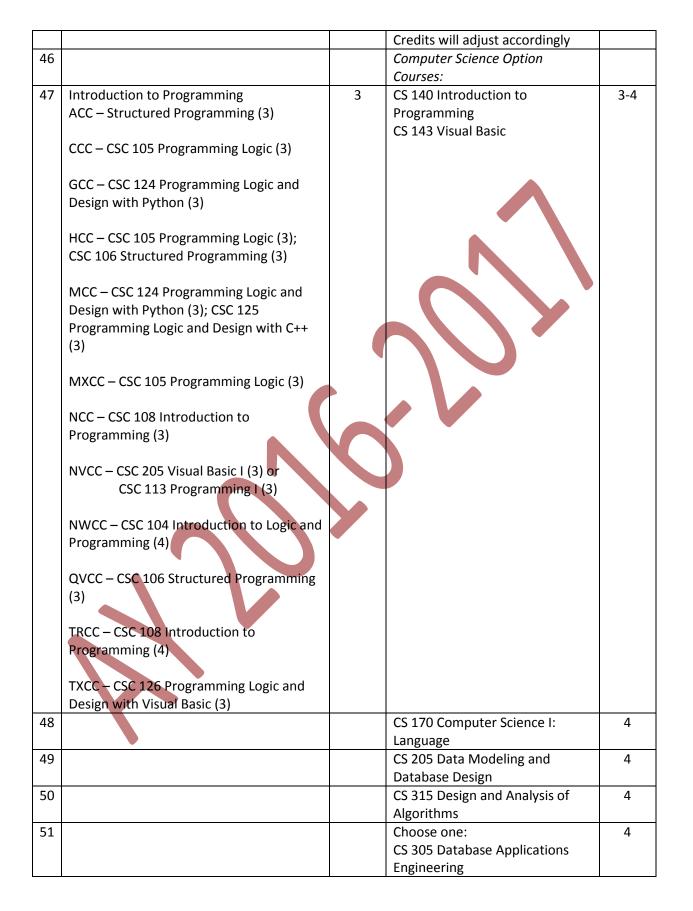
Complete four-year degree with articulation of community college degree to four-year degree

Mathematics B.A. – Computer Science Option

Math Majors must earn a C or better ²

1	Community Colleges*:			CCSU			
2		onintantey concepco 1	Credits		Credits		
3		Fran	nework	30**	0.00.00		
4		General Education Requirements					
5	Competency:						
6	Section A						
7	Written I	English 101	3	Written Communication I	3		
8	Written II	Gen Ed	3	Written Communication II	3		
9	Scientific Reasoning	BIO, CHE or PHY sequence	4	Scientific Inquiry I	4		
10	Scientific Knowledge	BIO, CHE or PHY sequence	4	Scientific Inquiry II	4		
11	Quantitative	MAT 254 Calculus I ^{1,2}	4	Quantitative Reasoning	4		
12	Historical Knowledge	Gen Ed*	3	Critical Thinking	3		
13	Social Phenomena	Gen Ed	3	Information Literacy	3		
14	Aesthetic Dimensions	Gen Ed	3	Creative Process	3		
15	Section B						
16	Competency:	Gen Ed	3	Oral Communication	3		
17	Competency:	Gen Ed	3	General Education Elective	3		
18	Framework30 C	redits (30-31):	I		33		
19		Pa	athway	30			
20		Additional Gen	eral Edu	ucation Courses			
21				General Education Elective	3		
22				General Education Elective	3		
23				Intercultural Competence	3		
24				Health and Wellness	3		
25				Students must complete a	6		
				foreign language requirement.			
				This may be done by completing			
				a language at the elementary II			
				level or above. Students who			
				have completed three years of			
				language in high school with at			

			least a Coverage have satisfied	
			least a C average have satisfied this requirement.	
26			Must be taken at WCSU:	
27			First Year Navigation – fulfilled	0
21			by MAT 151/151 See lines 32 and	U
			33	
28			Written Communication III—	0
			embedded in MAT 450/451 See	-
			lines 43 and 44	
29			Culminating Gen Ed Experience –	0
			satisfied by MAT 450/451 See	
			lines 43 and 44	
30	General Education Credits:			52-54
31	Major P	rogram	Courses	
32			MAT 150 Mathematics Seminar I	.5
33			MAT 151 Mathematics Seminar II	.5
34			MAT 165 Introductory Discrete	4
			Mathematics ²	
35	See line 11		MAT 181 Calculus I ² See line 11	0
			above	
36	MAT 256 Calculus II	4	MAT 182 Calculus II ²	4
37			MAT 207 Proofs ²	3
38			MAT 272 Introduction to Linear	3
			Algebra ²	
39	MAT 268 Calculus III: Multivariable	4	MAT 281 Calculus III ²	4
40			MAT 282 Differential Equations	3
			or MAT 222 Introductory	
4.1		•	Statistics	2
41			MAT 332 Introduction to Applied	3
			Mathematics or MAT 359 Theory of Computation	
42			MAT 375 Algebraic Structures ²	3
43			MAT 450 Senior Seminar I	1.5
44			MAT 451 Senior Seminar II	1.5
45	Select one:	4	Will count as:	1.5
	MAT 272 (3 credits: GCC, MXCC, NCC,		MATH 272 line 38	
	QVCC, TRCC)—Linear Algebra			
	MAT 274 (4 credits: MCC)—Linear Algebra			
	MAT 285 (3 credits: ACC, GCC, HCC,		MATH 282 line 40	
	MXCC, NVCC, NCC, TRCC, TXCC)—			
	Differential Equations			
	MAT 286 (4 credits: MCC, NCCC, QVCC)—			
	Differential Equations			
	MAT 287 (4 credits: MCC)—Foundations		MATH 207 line 37	
	of Mathematics			



			CS 350 Object Oriented Software	
			Engineering	
			CS 360 Distributed Applications	
			Engineering	
52			A year sequence from one of the	
			following: BIO, CHE, ECO, PHY,	
			met in the Framework30 above;	
			see lines 9 and 10	
53				
54				
55	Program Course Credits:			50-51
56	Ope	en Elect	ives	
57	MAT 185 Trigonometry ¹	4		
	MAT 186 Pre-Calculus ¹			
58	Students who have fulfilled foreign			
	language requirements in high school or			
	who use open elective credits at the			
	community college to fulfill foreign			
	language requirements will end up with			
	more open elective credits at WCSU.			
59	Open Elective credits:	8-9		15-18
60	Total Credits at the Community College	60-61	Total Credits for the 4-Year	120
			Degree	

¹If a student arrives ready with placement above Pre-calculus, the student will receive 4 additional credits of open electives for each level of Calculus he/she places out of.

*Your work group may find itself listing several courses at places in this column due to differences in designations at the community colleges. In those cases, please list all courses and, next to each, the CC that offers it.

**There is no need to list community college courses in the Framework30 unless a specific course is designated in the pathway.

 $\boldsymbol{\succ}$

Template 1

Charter Oak State College

Complete four-year degree with articulation of community college degree to four-year degree

General Studies: Mathematics Concentration B.A.

There are no additional requirements for admission to this program.

1	C	ommunity Colleges*:	1	CCSU		
2			Credits		Credits	
3	Framework30**					
4		General Education Requirements				
5	Competency:					
6	Section A					
7	Written I	English 101	3	Composition 101	3	
8	Written II	Gen Ed	3	Composition 102	3	
9	Scientific Reasoning	BIO, CHE or PHY	4	Natural Sciences	8	
		sequence				
10	Scientific Knowledge	BIO, CHE or PHY	4			
		sequence				
11	Quantitative	MAT 185 Trigonometry	4	Quantitative Reasoning	4	
		MAT 186 Pre-Calculus ¹				
12	Historical Knowledge	Gen Ed*	3	U.S History/Gov or Non-U.S Hist	3	
13	Social Phenomena	Gen Ed	3	Social/Behavioral Science	3	
14	Aesthetic Dimensions	Gen Ed	3	Literature and Fine Arts	3	
15	Section B					
16	Competency:	Gen Ed	3	Oral Communication	3	
17	Competency:	Gen Ed	3	Ethical Decision Making	3	
18	Framework30 C	redits (30-31):			33	
19		Pa	athway	30		
20		Additional Gen	eral Ed	ucation Courses		
21				U.S. History/Gov or Non-U.S Hist	3	
				(Must meet both requirements)		
22				Global Understanding	3	
23				General Education elective	3	
24						
25						
26						
27	General Educati	on Credits:	33		42	

28 Major Program Courses 29 MAT 254 Calculus I 4 Calculus 1 30 MAT 256 Calculus II 4 Calculus 2 31 MAT 268 Calculus III: Multivariable 4 Calculus 3 32 Linear Algebra 33 Abstract/Modern Algebra 34 Real Analysis, Complex or Variables or Advance Calculus 35 Upper level electives: of which two courses resequence (within the concentration), except algebras. 36 Select one: MAT 272 (3 credits: GCC, MXCC, NCC, QVCC, TRCC)—Linear Algebra MAT 274 (4 credits: MCC)—Linear Algebra Will count as: Linear Algebra line 32 Will count as Math ele 35 MAT 285 (3 credits: ACC, GCC, HCC, MXCC, NVCC, NCC, TRCC, TXCC)— Differential Equations MAT 286 (4 credits: MCC), NCCC, QVCC)— Differential Equations Will count as Math ele MAT 287 (4 credits: MCC)—Foundations Will count as Math ele	Analysis 3 ed 15 credits 15 nust be in
31 MAT 268 Calculus III: Multivariable 4 Calculus 3 32 Linear Algebra 33 Abstract/Modern Algebra 34 Real Analysis, Complex or Variables or Advance Calculus 35 Upper level electives: of which two courses r sequence (within the concentration), except algebras. 36 Select one: MAT 272 (3 credits: GCC, MXCC, NCC, QVCC, TRCC)—Linear Algebra MAT 274 (4 credits: MCC)—Linear Algebra 4 MAT 285 (3 credits: ACC, GCC, HCC, MXCC, NVCC, NCC, TRCC, TXCC)— Differential Equations MAT 286 (4 credits: MCC, NCCC, QVCC)— Differential Equations Will Count as Math ele 35 MAT 287 (4 credits: MCC)—Foundations Will count as Math ele	33bra3c Analysis3ed15 credits15 nust be in
32 Linear Algebra 33 Abstract/Modern Alge 34 Real Analysis, Complex or Variables or Advanc Calculus 35 Upper level electives: of which two courses r sequence (within the concentration), except algebras. 36 Select one: MAT 272 (3 credits: GCC, MXCC, NCC, QVCC, TRCC)—Linear Algebra MAT 274 (4 credits: MCC)—Linear Algebra 4 MAT 285 (3 credits: ACC, GCC, HCC, MXCC, NVCC, NCC, TRCC, TXCC)— Differential Equations MAT 286 (4 credits: MCC)—Foundations Will Count as Math ele MAT 287 (4 credits: MCC)—Foundations Will count as Math ele	3bra3Analysis3ed1515 credits15nust be in15
33 Abstract/Modern Alge 34 Real Analysis, Complex or Variables or Advance Calculus 35 Upper level electives: of which two courses resequence (within the concentration), except algebras. 36 Select one: MAT 272 (3 credits: GCC, MXCC, NCC, QVCC, TRCC)—Linear Algebra MAT 274 (4 credits: MCC)—Linear Algebra 4 MAT 285 (3 credits: ACC, GCC, HCC, MXCC, NVCC, NCC, TRCC, TXCC)— Differential Equations MAT 286 (4 credits: MCC, NCCC, QVCC)— Differential Equations Will Count as Math ele 35 MAT 287 (4 credits: MCC)—Foundations Will count as Math ele	bra 3 Analysis 3 ed 15 credits 15 nust be in
34 Real Analysis, Complex or Variables or Advance Calculus 35 Upper level electives: of which two courses requence (within the concentration), except algebras. 36 Select one: MAT 272 (3 credits: GCC, MXCC, NCC, QVCC, TRCC)—Linear Algebra MAT 274 (4 credits: MCC)—Linear Algebra 4 MAT 285 (3 credits: ACC, GCC, HCC, MXCC, NVCC, NVCC, NVCC, NCC, TRCC, TXCC)—Differential Equations 4 Will Count as Math ele 35 MAT 286 (4 credits: MCC, NCCC, QVCC)—Differential Equations MAT 287 (4 credits: MCC)—Foundations Will count as Math ele 35	Analysis 3 ed 15 credits 15 nust be in
35 or Variables or Advance Calculus 35 Upper level electives: of which two courses in sequence (within the concentration), except algebras. 36 Select one: 4 MAT 272 (3 credits: GCC, MXCC, NCC, QVCC, TRCC)—Linear Algebra 4 MAT 274 (4 credits: MCC)—Linear Algebra 4 MAT 285 (3 credits: ACC, GCC, HCC, MXCC, NCC, C, C, NVCC, NVCC, NCC, TRCC, TRCC)—Linear Algebra 4 MAT 285 (3 credits: ACC, GCC, HCC, MXCC, NCC, QVCC)—Differential Equations 4 MAT 286 (4 credits: MCC, NCCC, QVCC)—Differential Equations 4 MAT 287 (4 credits: MCC)—Foundations Will count as Math elements	ed 15 credits 15 nust be in
35 Calculus 35 Upper level electives: of which two courses in sequence (within the concentration), except algebras. 36 Select one: MAT 272 (3 credits: GCC, MXCC, NCC, QVCC, TRCC)—Linear Algebra MAT 274 (4 credits: MCC)—Linear Algebra 4 Will count as: Linear Algebra line 32 MAT 285 (3 credits: ACC, GCC, HCC, MXCC, NVCC, NCC, TRCC, TXCC)— Differential Equations MAT 286 (4 credits: MCC, NCCC, QVCC)— Differential Equations Will Count as Math elections MAT 287 (4 credits: MCC)—Foundations Will count as Math elections	15 credits 15 nust be in
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Differential Equations MAT 287 (4 credits: MCC)—Foundations Will count as Math elements	
MAT 287 (4 credits: MCC)—Foundations Will count as Math elements	
	ativa lina
of Mathematics	
Credits will adjust acco	rdingly
37 Credits will adjust acco	
38 Introduction to Programming 3 Computer language	3
ACC – Structured Programming (3)	_
CCC – CSC 105 Programming Logic (3)	
GCC – CSC 124 Programming Logic and	
Design with Python (3)	
HCC – CSC 105 Programming Logic (3);	
CSC 106 Structured Programming (3)	
MCC CSC 124 Drogramming Logic and	
MCC – CSC 124 Programming Logic and	
Design with Python (3); CSC 125 Programming Logic and Design with C++	
Programming Logic and Design with C++	
(3)	
MXCC – CSC 105 Programming Logic (3)	

			[
	NCC – CSC 108 Introduction to			
	Programming (3)			
	NVCC – CSC 205 Visual Basic I (3) or			
	CSC 113 Programming I (3)			
	NWCC – CSC 104 Introduction to Logic and			
	Programming (4)			
	QVCC – CSC 106 Structured Programming			
	(3)			
	TRCC – CSC 108 Introduction to			
	Programming (4)			
	TVCC CCC 12C Drogramming Logic and			
	TXCC – CSC 126 Programming Logic and			
39	Design with Visual Basic (3)			
39			Laboratory-based science See lines 9 and 10	
10				
40				
41 42				
42				
44				
45				
46 47	Drogram Course Crediter	19		
47	Program Course Credits:		•	
	Ope	en Elect	IVES	
49				
50	Open Elective credits:	8-9		ļ
51	Total Credits at the Community College	60-61	Total Credits for the 4-Year	120
			Degree	

¹If a student arrives ready with placement above Pre-calculus, the student will receive 4 additional credits of open electives and four additional credits of open electives for each level of Calculus he/she places out of.

*Your work group may find itself listing several courses at places in this column due to differences in designations at the community colleges. In those cases, please list all courses and, next to each, the CC that offers it.

**There is no need to list community college courses in the Framework30 unless a specific course is designated in the pathway.

Template 2

Credits remaining in the four-year degree

Mathematics B.A.

There are no additional requirements for admission to this program.

1	Central Connecticut State University	
2	Remaining General Education Courses	
3	Course	Credits
4	Study Area I – Literature	3
5	Study Area I – Arts and Humanities	3
6	Study Area II – Social Sciences	3
7	Study Area III – Behavioral Sciences	3
8		
9	Skill Area III – Foreign Language Proficiency (Can be met with completion of the third	6
	year or higher of a foreign language in high school or the completion of a second	
	semester at the college level. Credits will adjust accordingly.)	
10	General Education Credits	18
11	Remaining Major Program Requirements	
12	Course	Credits
13	MATH 218 Discrete Mathematics	4
14	MATH 228 Linear Algebra	4
15	MATH 366 Abstract Algebra	4
16	MATH 377 Real Analysis	4
17	MATH 450 Proof Seminar	4
18	Choose Six (6) credits from the following:	6
	MATH 300, 355, 383, 398, 400, 421, 440, 455, 465, 468, 469, 477, 491	
	STAT 315, 416, 425, 455, 456, 465, 476	
	ACTL 335, 465, 481, 482	
19		
20	MATH 218 line 13	Subtract
	MATH 228 line 14	3-4
	Or MATH 355 line 18	
	will have been completed at the community college.	
21		
22		
23		
24		
25		
26		

27		
28		
29		
30	Program Course Credits	22-23
31	Minor – Students should consider beginning work on a minor at the community	18-24
	college.	
32	Remaining Open Electives	
33	Courses	Credits
34	Open Elective credits	0-2
35	Students who have fulfilled the foreign language requirement in high school or who use open elective credits at the community college to fulfill foreign language and/or minor requirements will end up with more open elective credits at CCSU.	
36	Total Credits Remaining for the 4-Year Degree	60

Template 2

Credits remaining in the four-year degree

Mathematics B.A. Actuarial Science Specialization

No minor is required for students selecting this major.

1	Central Connecticut State University	
2	Remaining General Education Courses	
3	Course	Credits
4	Study Area I – Literature	3
5	Study Area I – Arts and Humanities	3
6	Study Area II – Social Sciences	3
7	Study Area III – Behavioral Sciences	3
8		
9	Skill Area III – Foreign Language Proficiency (Can be met with completion of the third	6
	year or higher of a foreign language in high school or the completion of a second	
	semester at the college level. Credits will adjust accordingly.)	
10	General Education Credits	18
11	Remaining Major Program Requirements	
12	Course	Credits
13	MAT 218 Discrete Mathematics	4
14	MATH 228 Introduction to Linear Algebra	4
15	STAT 315 Mathematical Statistics I	3
16	STAT 416 Mathematical Statistics II	3
17	STAT 425 Loss and Frequency Distributions and Credibility Theory	3
18	ACTL 335 Theory of Interest	3
19	ACTL 465 Actuarial Models I	4
20	ACTL 466 Actuarial Models II	4
21	Major Electives (as approved by advisor): 18 credits from:	18
	ACTL 480	
	ACTL 481 Review – SOA/CAS Course I	
	ACTL 482 Review – SOA/CAS Course II	
	MATH 300 Mathematics Internship	
	MATH 355 Introduction to Differential Equations with Applications	
	MATH 366 Introduction to Abstract Algebra	
	MATH 377 Introduction to Real Analysis	
	AC 211 Introduction to Financial Accounting	
	AC 212 Introduction to Managerial Accounting	
	CS 151 Computer Science I	
	CS 152 Computer Science II	
	CS 213 Applications of Computing I	
	CS 473 Simulation Techniques	

		,
	ECON 460 Economic Forecasting	
	FIN 295 Managerial Finance	
	FIN 301 Intermediate Managerial Finance	
	FIN 310 Principles of Investments	
	FIN 320 Financial Markets and Institutions	
	FIN 321 Insurance	
	LAW 250 Legal Environment of Business	
	MGT 295 Fundamentals of Management and Organizational	
22		
23	MATH 218 line 13	Subtract
	MATH 228 line 14	3-4
	Or MATH 355 line 21	
	will have been completed at the community college.	
24		
25		
26		
27		
28		
29		
30	Program Course Credits	42-43
31		
32	Remaining Open Electives	
33	Courses	Credits
34	Open Elective credits	0
35	Students who have fulfilled the foreign language requirement in high school or who	
	use open elective credits at the community college to fulfill foreign language and/or	
	minor requirements will end up with more open elective credits at CCSU.	
	It is recommended that students interested in this specialization select Financial	
	Accounting as one of their open electives.	
	In addition, it is recommended that students interested in this specialization select a	
	course in Macroeconomics (ECON 200), either as their Study Area II course or as an	
	open elective IF NOT ALREADY TAKEN at the community college.	
36	Total Credits Remaining for the 4-Year Degree	60-61

Template 2

Mathematics B.A. Statistics Specialization

No minor is required for students selecting this major.

1	Central Connecticut State University	
2	Remaining General Education Courses	
3	Course	Credits
4	Study Area I – Literature	3
5	Study Area I – Arts and Humanities	3
6	Study Area II – Social Sciences	3
7	Study Area III – Behavioral Sciences	3
8		
9	Skill Area III – Foreign Language Proficiency (Can be met with completion of the third	6
	year or higher of a foreign language in high school or the completion of a second	
	semester at the college level. Credits will adjust accordingly.)	
10	General Education Credits	18
11	Remaining Major Program Requirements	
12	Course	Credits
13	MAT 218 Discrete Mathematics	4
14	MATH 228 Introduction to Linear Algebra	4
15	MATH 366 Abstract Algebra	4
	OR	
	MATH 377 Real Analysis	
16	STAT 215 Statistics for Behavioral Sciences	
17	STAT 315 Mathematical Statistics I	3
18	STAT 416 Mathematical Statistics II	3
19	STAT 216 Statistics for Behavioral Sciences II	3
	OR 📃	
	STAT 453 Applied Statistical Analysis	
20	2 courses chosen from:	6
	STAT 425 Loss and Frequency Distributions and Credibility Theory	
	STAT 455 Experimental Design	
	STAT 456/MKT 444 Fundamentals of SAS	
	STAT 465 Nonparametric Statistics	
	STAT 476 Topics in Statistics	
21	16 credits selected from the courses listed above or from the following:	16

	MATH 300 Mathematics Internship	
	MATH 491 Advanced Vector Calculus	
	CS 151 Computer Science I	
	CS 152 Computer Science II	
	CS 253 Data and File Structures	
	CS 473 Simulation Techniques	
	BIO 405 Ecology	
	ECON 460 Economic Forecasting	
	ECON 485 Econometrics	
	GEOG 476 Advanced Cartography	
	PSY 222 Research Methods in Psychology II	
	PSY 451 Psychological Evaluation	
	ACTL 335 Theory of Interest	
	ACTL 465 Actuarial Models I	
	ACTL 466 Actuarial Models II	
	ACTL 481 Review – SOA/CAS Course I	
	Strongly Recommended:	
	CS 151 Computer Science I	
22		
23	MATH 218 line 13	Subtract
	MATH 228 line 14	3-4
	Or MATH 355 line 21	
	will have been completed at the community college.	
24		
25		
26		
27		
28		
29		
30	Program Course Credits	42-43
31		
32	Remaining Open Electives	
33	Courses	Credits
34	Open Elective credits	0
35	Students who have fulfilled the foreign language requirement in high school or who	
	use open elective credits at the community college to fulfill foreign language and/or	
	minor requirements will end up with more open elective credits at CCSU.	
	It is recommended that students interested in this specialization select an	
	introductory statistics course as one of their open electives.	
36	Total Credits Remaining for the 4-Year Degree	60-61

Template 2

Credits remaining in the four-year degree

Mathematics B.A.

For all Mathematics courses number 300 or higher used to satisfy the math major requirement, students must fulfill at least one of the following:

- 3. C in all these courses OR
- 4. C+ average in all these courses.

1	Eastern Connecticut State University	
2	Remaining General Education Courses	
3	Course	Credits
4	Two of the first four below must be completed at ECSU.	
5	Cultural Perspectives	3
6	Individuals and Societies	3
7	Creative Expressions	3
8	MATH 315 Applied Probability and Statistics	4
9	Foreign Language Proficiency (Can be met with three years of the same foreign	6
	language in high school or the completion of a second semester at the college level.	
	Credits will adjust accordingly.)	
10	General Education Credits	19
11	Remaining Major Program Requirements	
12	Course	Credits
13	MAT 230 Discrete Structures	3
14	MAT 310 Applied Linear Algebra	3
15	MAT 315 Applied Probability and Statistics See line 8	0
16	MAT 380 Geometry	3
17	MAT 400 Abstract Algebra I	3
18	MAT 420 Real Analysis I	3
19	MAT 421 Real Analysis II	3
20	Two addition MAT courses numbered 300 or above but not MAT 303 or internships	6
21		
22	One of the following will have been completed at the community college:	Subtract
	MAT 230 line 13	3
	MAT 310 line 3	
	One of the additional MAT courses line 20	
23		
24		
25		
26		
27		
28		
29		

30		
31	Program Course Credits	21
32	Remaining Open Electives	
33	Courses	Credits
34	Open Elective credits	20
35	Students who have fulfilled foreign language requirements in high school or who use open elective credits at the community college to fulfill foreign language requirements will end up with more open elective credits at ECSU.	
36	Total Credits Remaining for the 4-Year Degree	60

Revised 03/03/2016

Template 2

Credits remaining in the four-year degree

Mathematics B.A.

In those mathematics courses which the student applies toward the major in mathematics, he/she must

have a GPA of 2.0 and, at most, one grade below C-.

Students must complete 2 "W" courses at SCSU.

1	Southern Connecticut State University	
2	Remaining General Education Courses	
3	Course	Credits
4	Multilingual Communication – Level 3 (Can be met by completing the third level of a	9
	foreign language or demonstrating knowledge via a STAMP test (Standards-based	
	Measurement of Proficiency) or an equivalent. Credits will adjust accordingly.)	
5	American Experience	3
6	Creative Drive	3
7	Global Awareness	3
8	Mind and Body	3
9	Tier 3 Connections Capstone	3
10	General Education Credits	24
11	Remaining Major Program Requirements	
12	Course	Credits
13	MAT 250 Foundations of Mathematics: An Introduction (C- or better)	3
14	MAT 320 Probability and Statistics I	4
15	MAT 372 Linear Algebra (C- or better)	3
16	MAT 375 Abstract Algebra I	3
17	MAT 450 Analysis	3
18	Select 1:	3
	MAT 488 Seminar in Mathematical Modeling	
	MAT 498 Seminar in Mathematics	
19	Select, with approval of a department advisor, three courses from:	9
	MAT 245 Differential Equations	
	MAT 300 History of Mathematics	
	MAT 321 Mathematical Statistics	
	MAT 322 Numerical Analysis I	
	MAT 325 Design of Experiments	
	MAT 326 Regression Analysis	
	MAT 360 Foundations of Geometry	
	MAT 370 Number Theory	
	MAT 376 Abstract Algebra II	
	MAT 378 Discrete Mathematics	
	MAT 398 Special Topics in Mathematics	
	MAT 405 Elementary Mathematics from an Advanced Standpoint	

	MAT 480 Topology	
	1 67	
	MAT 488 Seminar in Mathematical Modeling	
	MAT 498 Seminar in Mathematics	
20	One of the following will have been completed at the community college:	Subtract
	MAT 372 line 15	3
	MAT 245 line 19	
	MAT 250 line 13	
21		
22		
23		
24		
25		
26		
27		
28		
29		
30		
31	Program Course Credits	25
32	Remaining Open Electives	
33	Courses	Credits
34	Open Elective credits	11
35	Students who have fulfilled foreign language requirements through assessment	
	(STAMP or equivalent), who place beyond first semester, or who use open elective	
	credits at the community college to fulfill foreign language requirements will end up	
	with more open elective credits at SCSU.	
36	Total Credits Remaining for the 4-Year Degree	60

Template 2

Credits remaining in the four-year degree

Mathematics B.S. – Concentration: Applied

In those mathematics courses which the student applies toward the major in mathematics, he/she must

have a GPA of 2.0 and, at most, one grade below C-.

Students must complete 2 "W" courses at SCSU.

1	Southern Connecticut State University	
2	Remaining General Education Courses	
3	Course	Credits
4	Multilingual Communication – Level 3 (Can be met by completing the third level of a	9
	foreign language or demonstrating knowledge via a STAMP test (Standards-based	
	Measurement of Proficiency) or an equivalent. Credits will adjust accordingly.)	
5	American Experience	3
6	Creative Drive	3
7	Global Awareness	3
8	Mind and Body	3
9	Tier 3 Connections Capstone	3
10	General Education Credits	24
11	Remaining Major Program Requirements	
12	Course	Credits
13	MAT 245 Differential Equations	3
14	MAT 250 Foundations of Mathematics: An Introduction (C- or better)	3
15	MAT 320 Probability and Statistics I	4
16	MAT 322 Numerical Analysis I	4
17	MAT 372 Linear Algebra (C- or better)	3
18	MAT 378 Discrete Mathematics	3
19	MAT 488 Seminar in Mathematical Modeling	3
20	Select 1:	3
	MAT 321 Mathematical Statistics	
	MAT 325 Design of Experiments	
	MAT 326 Regression Analysis	
21	Select 2:	3
	MAT 375 Abstract Algebra	
	MAT 450 Analysis	
	MAT 480 Topology	
22		
23	One of the following will have been completed at the community college:	Subtract
	MAT 372 line 17	3
	MAT 245 line 13	
	MAT 250 line 14	
24		

Revised 03/03/2016

25 26 27 28 29 30 31 **Program Course Credits** 26 32 **Remaining Open Electives** 33 Credits Courses 34 **Open Elective credits** 10 Students who have fulfilled foreign language requirements through assessment 35 (STAMP or equivalent), who place beyond first semester, or who use open elective credits at the community college to fulfill foreign language requirements will end up with more open elective credits at SCSU. 36 Total Credits Remaining for the 4-Year Degree 60

Template 2

Credits remaining in the four-year degree

Mathematics B.A.

Math Majors must earn a C or better ²

1	Western Connecticut State University	
2	Remaining General Education Courses	
3	Course	Credits
4	Health and Wellness	3
5	Intercultural Competency	3
6	General Ed Elective	3
7	General Ed Elective	3
8	Remove this language if the program does not require a foreign language:	6
	Students must complete a foreign language requirement for this program. This may	
	be done by completing a language at the elementary II level or above. Students who	
	have completed three years of language in high school with at least a C average have	
	satisfied this requirement.	
9	The following must be taken at WCSU:	
10	First Year Navigation – fulfilled by MAT 151/151 See lines 16 and 17	0
11	Written Communication III—embedded in MAT 450/451 See lines 27 and 28	0
12	Culminating Gen Ed Experience – satisfied by MAT 450/451 See lines 27 and 28	0
13	General Education Credits	18
14	Remaining Major Program Requirements	
15	Course	Credits
16	MAT 150 Mathematics Seminar I	.5
17	MAT 151 Mathematics Seminar II	.5
18	MAT 141 Foundational Discrete Mathematics ²	3
19	MAT 185 Introduction to Symbolic Computations	3
20	MAT 207 Proofs	
		3
21	MAT 222 Introductory Statistics	3
21 22		
	MAT 222 Introductory Statistics	3
22	MAT 222 Introductory Statistics MAT 272 Introduction to Linear Algebra ² MAT 282 Differential Equations	3 3
22 23	MAT 222 Introductory Statistics MAT 272 Introduction to Linear Algebra ²	3 3 3
22 23 24	MAT 222 Introductory Statistics MAT 272 Introduction to Linear Algebra ² MAT 282 Differential Equations MAT 332 Introduction to Applied Mathematics	3 3 3 3
22 23 24 25	MAT 222 Introductory Statistics MAT 272 Introduction to Linear Algebra ² MAT 282 Differential Equations MAT 332 Introduction to Applied Mathematics MAT 375 Algebraic Structures ²	3 3 3 3 3 3
22 23 24 25 26	MAT 222 Introductory Statistics MAT 272 Introduction to Linear Algebra ² MAT 282 Differential Equations MAT 332 Introduction to Applied Mathematics MAT 375 Algebraic Structures ² MAT 383 Introduction to Mathematical Analysis MAT 450 Senior Seminar I	3 3 3 3 3 3 3
22 23 24 25 26 27	MAT 222 Introductory Statistics MAT 272 Introduction to Linear Algebra ² MAT 282 Differential Equations MAT 332 Introduction to Applied Mathematics MAT 375 Algebraic Structures ² MAT 383 Introduction to Mathematical Analysis MAT 450 Senior Seminar I	3 3 3 3 3 3 1.5
22 23 24 25 26 27 28	MAT 222 Introductory Statistics MAT 272 Introduction to Linear Algebra ² MAT 282 Differential Equations MAT 332 Introduction to Applied Mathematics MAT 375 Algebraic Structures ² MAT 383 Introduction to Mathematical Analysis MAT 450 Senior Seminar I MAT 451 Senior Seminar II	3 3 3 3 3 3 1.5 1.5
22 23 24 25 26 27 28 29	MAT 222 Introductory StatisticsMAT 272 Introduction to Linear Algebra2MAT 282 Differential EquationsMAT 332 Introduction to Applied MathematicsMAT 375 Algebraic Structures2MAT 383 Introduction to Mathematical AnalysisMAT 450 Senior Seminar IMAT 451 Senior Seminar IIOne course which completes a sequence in Analysis, Algebra or Applied Math	3 3 3 3 3 1.5 1.5 3
22 23 24 25 26 27 28 29 30	MAT 222 Introductory StatisticsMAT 272 Introduction to Linear Algebra2MAT 282 Differential EquationsMAT 332 Introduction to Applied MathematicsMAT 375 Algebraic Structures2MAT 383 Introduction to Mathematical AnalysisMAT 450 Senior Seminar IMAT 451 Senior Seminar IIOne course which completes a sequence in Analysis, Algebra or Applied Math	3 3 3 3 3 1.5 1.5 3

	MAT 282 line 23	
	MAT 207 line 20	
33		
34	Program Course Credits	34
35	Remaining Open Electives	
36	Courses	Credits
37	Open Elective credits	8
38	Remove this language if the program does not require a foreign language:	
	Students who have fulfilled foreign language requirements in high school or who	
	use open elective credits at the community college to fulfill foreign language	
	requirements will end up with more open elective credits at WCSU.	
39	Total Credits Remaining for the 4-Year Degree	60
55		

Template 2

Credits remaining in the four-year degree

Mathematics B.A. – Computer Science Option

Math Majors must earn a C or better ²

1	Western Connecticut State University	
2	Remaining General Education Courses	
3	Course	Credits
4	Health and Wellness	3
5	Intercultural Competency	3
6	General Ed Elective	3
7	General Ed Elective	3
8	Remove this language if the program does not require a foreign language:	6
	Students must complete a foreign language requirement for this program. This may	
	be done by completing a language at the elementary II level or above. Students who	
	have completed three years of language in high school with at least a C average have	
	satisfied this requirement.	
9	The following must be taken at WCSU:	
10	First Year Navigation – fulfilled by MAT 151/151 See lines 16 and 17	0
11	Written Communication III—embedded in MAT 450/451 See lines 24 and 25	0
12	Culminating Gen Ed Experience – satisfied by MAT 450/451 See lines 24 and 25	0
13	General Education Credits	18
14	Remaining Major Program Requirements	
15	Course	Credits
15 16	Course MAT 150 Mathematics Seminar I	Credits .5
16	MAT 150 Mathematics Seminar I	.5
16 17	MAT 150 Mathematics Seminar I MAT 151 Mathematics Seminar II	.5 .5
16 17 18	MAT 150 Mathematics Seminar I MAT 151 Mathematics Seminar II MAT 165 Introductory Discrete Mathematics ² MAT 207 Proofs ² MAT 272 Introduction to Linear Algebra ²	.5 .5 4
16 17 18 19	MAT 150 Mathematics Seminar I MAT 151 Mathematics Seminar II MAT 165 Introductory Discrete Mathematics ² MAT 207 Proofs ²	.5 .5 4 3
16 17 18 19 20	MAT 150 Mathematics Seminar I MAT 151 Mathematics Seminar II MAT 165 Introductory Discrete Mathematics ² MAT 207 Proofs ² MAT 272 Introduction to Linear Algebra ²	.5 .5 4 3 3
16 17 18 19 20 21	MAT 150 Mathematics Seminar I MAT 151 Mathematics Seminar II MAT 165 Introductory Discrete Mathematics ² MAT 207 Proofs ² MAT 272 Introduction to Linear Algebra ² MAT 282 Differential Equations or MAT 222 Introductory Statistics	.5 .5 4 3 3 3
16 17 18 19 20 21 22	MAT 150 Mathematics Seminar I MAT 151 Mathematics Seminar II MAT 165 Introductory Discrete Mathematics ² MAT 207 Proofs ² MAT 272 Introduction to Linear Algebra ² MAT 282 Differential Equations or MAT 222 Introductory Statistics MAT 332 Introduction to Applied Mathematics or MAT 359 Theory of Computation	.5 .5 4 3 3 3 3 3
16 17 18 19 20 21 22 23	MAT 150 Mathematics Seminar I MAT 151 Mathematics Seminar II MAT 165 Introductory Discrete Mathematics ² MAT 207 Proofs ² MAT 272 Introduction to Linear Algebra ² MAT 282 Differential Equations or MAT 222 Introductory Statistics MAT 332 Introduction to Applied Mathematics or MAT 359 Theory of Computation MAT 375 Algebraic Structures ²	.5 .5 4 3 3 3 3 3 3 3
16 17 18 19 20 21 22 23 24	MAT 150 Mathematics Seminar I MAT 151 Mathematics Seminar II MAT 165 Introductory Discrete Mathematics ² MAT 207 Proofs ² MAT 272 Introduction to Linear Algebra ² MAT 282 Differential Equations or MAT 222 Introductory Statistics MAT 332 Introduction to Applied Mathematics or MAT 359 Theory of Computation MAT 375 Algebraic Structures ² MAT 450 Senior Seminar I	.5 .5 4 3 3 3 3 3 1.5
16 17 18 19 20 21 22 23 24 25	MAT 150 Mathematics Seminar I MAT 151 Mathematics Seminar II MAT 165 Introductory Discrete Mathematics ² MAT 207 Proofs ² MAT 272 Introduction to Linear Algebra ² MAT 282 Differential Equations or MAT 222 Introductory Statistics MAT 332 Introduction to Applied Mathematics or MAT 359 Theory of Computation MAT 375 Algebraic Structures ² MAT 450 Senior Seminar I MAT 451 Senior Seminar II	.5 .5 4 3 3 3 3 3 1.5
16 17 18 19 20 21 22 23 24 25 26	MAT 150 Mathematics Seminar IMAT 151 Mathematics Seminar IIMAT 165 Introductory Discrete Mathematics2MAT 207 Proofs2MAT 272 Introduction to Linear Algebra2MAT 282 Differential Equations or MAT 222 Introductory StatisticsMAT 332 Introduction to Applied Mathematics or MAT 359 Theory of ComputationMAT 450 Senior Seminar IMAT 451 Senior Seminar IIComputer Science Option:CS 170 Computer Science I: Language	.5 .5 4 3 3 3 3 3 1.5 1.5
16 17 18 19 20 21 22 23 24 25 26 27	MAT 150 Mathematics Seminar IMAT 151 Mathematics Seminar IIMAT 165 Introductory Discrete Mathematics2MAT 207 Proofs2MAT 272 Introduction to Linear Algebra2MAT 282 Differential Equations or MAT 222 Introductory StatisticsMAT 332 Introduction to Applied Mathematics or MAT 359 Theory of ComputationMAT 375 Algebraic Structures2MAT 450 Senior Seminar IMAT 451 Senior Seminar IIComputer Science Option:CS 170 Computer Science I: Language	.5 .5 4 3 3 3 3 1.5 1.5 4
16 17 18 19 20 21 22 23 24 25 26 27 28	MAT 150 Mathematics Seminar I MAT 151 Mathematics Seminar II. MAT 165 Introductory Discrete Mathematics ² MAT 207 Proofs ² MAT 207 Proofs ² MAT 272 Introduction to Linear Algebra ² MAT 282 Differential Equations or MAT 222 Introductory Statistics MAT 332 Introduction to Applied Mathematics or MAT 359 Theory of Computation MAT 375 Algebraic Structures ² MAT 450 Senior Seminar I MAT 451 Senior Seminar II <i>Computer Science Option:</i> CS 170 Computer Science I: Language CS 205 Data Modeling and Database Design	.5 .5 4 3 3 3 3 3 1.5 1.5 1.5 4 4
16 17 18 19 20 21 22 23 24 25 26 27 28 29	MAT 150 Mathematics Seminar IMAT 151 Mathematics Seminar IIMAT 165 Introductory Discrete Mathematics2MAT 207 Proofs2MAT 207 Proofs2MAT 272 Introduction to Linear Algebra2MAT 282 Differential Equations or MAT 222 Introductory StatisticsMAT 332 Introduction to Applied Mathematics or MAT 359 Theory of ComputationMAT 375 Algebraic Structures2MAT 450 Senior Seminar IMAT 451 Senior Seminar IIComputer Science Option:CS 170 Computer Science I: LanguageCS 205 Data Modeling and Database DesignCS 315 Design and Analysis of Algorithms	.5 .5 4 3 3 3 3 3 1.5 1.5 4 4 4
16 17 18 19 20 21 22 23 24 25 26 27 28 29	MAT 150 Mathematics Seminar IMAT 151 Mathematics Seminar IIMAT 165 Introductory Discrete Mathematics2MAT 207 Proofs2MAT 272 Introduction to Linear Algebra2MAT 282 Differential Equations or MAT 222 Introductory StatisticsMAT 332 Introduction to Applied Mathematics or MAT 359 Theory of ComputationMAT 375 Algebraic Structures2MAT 450 Senior Seminar IMAT 451 Senior Seminar IIComputer Science Option:CS 170 Computer Science I: LanguageCS 315 Design and Analysis of AlgorithmsChoose one:	.5 .5 4 3 3 3 3 3 1.5 1.5 4 4 4

31		
32	One of the following will have been completed at the community college:	Subtract
	MAT 272 line 20	3
	MAT 282 line 21	
	MAT 207 line 19	
33		
34	Program Course Credits	35
35	Remaining Open Electives	
36	Courses	Credits
37	Open Elective credits	7
38	Remove this language if the program does not require a foreign language:	
	Students who have fulfilled foreign language requirements in high school or who	
	use open elective credits at the community college to fulfill foreign language	
	requirements will end up with more open elective credits at WCSU.	
39	Total Credits Remaining for the 4-Year Degree	60

Template 2

Credits remaining in the four-year degree

General Studies: Mathematics Concentration B.A.

There are no additional requirements for admission to this program.

1	Charter Oak State College	
2	Remaining General Education Courses	
3	Course	Credits
4	U.S. History/Gov or Non-U.S Hist (Must meet both requirements)	3
5	Global Understanding	3
6	General Education elective	3
7	General Education Credits	9
8	Remaining Major Program Requirements	
9	Course	Credits
10	Linear Algebra	3
11	Abstract/Modern Algebra	3
12	Real Analysis, Complex Analysis or Variables or Advanced Calculus	3
13	Upper level electives: 15 credits of which two courses must be in sequence (within the concentration), except for the algebras.	15
14		
15	One of the following will have been completed at the community college:	Subtract
	Linear Algebra line 10	3
	Math elective line 13	
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		
28	Program Course Credits	21
29	Remaining Open Electives	
30	Courses	Credits
31		
32	Open Elective credits	30
33	Total Credits Remaining for the 4-Year Degree	60

