



**Associate of Arts to Bachelor of Science in Mathematics
4 Year Degree Planner**

First Year at Cuyahoga Community College			
Fall Semester	Credits	Spring Semester	Credits
ENG1010/101H College Composition I	3	ENG1020/102H College Composition II	3
^COMM 1010/101H Fundamental of Speech Communications	3	MATH 1620/162H Calculus II	5
MATH 1610/1610H Calculus I	5	IT 2351 Enterprise Database Systems	4
Foreign Language	3-4	Foreign Language	3-4
	14-15		15-16
Second Year at Cuyahoga Community College			
Fall Semester	Credits	Spring Semester	Credits
POL 1010/2070* American National Government/ International Relations	3	Science Course	3
MATH 2310/231H Calculus III	4	*PSY 1010/SOC 1010 Intro to Psychology/Sociology	3
MATH 2520 Differential Equations Or MATH 2410 Introduction to Linear Algebra	3	*ANTH 1010/GEOG 1010/ JMC 1011 Cultural Anthropology/ World Regional Geography/ Intro. to Mass Communication	3
Natural Science with Lab	3-5	MATH 2410 Introduction to Linear Algebra Or MATH 2520 Differential Equations	3
Arts and Humanities Elective course at Tri-C	3	MATH 2010 Introduction to Discrete Mathematics	4
	16-17		16
Total minimum credits earned at Tri-C	60-64	Associate of Arts Degree Awarded	
First Year at John Carroll University			
Fall Semester	Credits	Spring Semester	Credits
MT 229 or DATA 229 (Probability and Statistics)	3	**MT 431* (Introduction to Real Analysis)	3
**MT 441 (Introduction to Abstract Algebra)	3	MT 4xx	3
Elective	3	Linked course (Taken with another course from a different discipline)***	3
EGC (Engaging the Global Community) course ***	3	Linked course (Taken with the above course from a different discipline)***	3
Elective	3	Elective	3
	15		15
Second Year at John Carroll University			
Fall Semester	Credits	Spring Semester	Credits
MT Major course	3	**MT 491	3
MT 4xx Major Course	3	Elective	3
JCU Core course	3	Elective	3
Elective	3	Elective	3
Elective	3	Elective	3
	15		15
Total minimum credits earned at both	120	Bachelor of Arts Degree Awarded	

Additional Information:

Assumptions: college-level readiness in MATH and ENG; no Foreign Language Deficiency (FLD). NOTE-this is different from the Foreign Language Requirement (FLR) which is a requirement in the College of Liberal Arts and Social Sciences at John Carroll University (JCU).

JCU proudly participates in reverse transfer with Cuyahoga Community College (Tri-C) and hopes to make this transfer process

as smooth as possible; learn more about the reverse transfer process at <http://www.tri-c.edu/transfer-center/reverse-transfer.html>. Cross registration information can be obtained from the Registrar's Office at Tri-C. For more information, contact your campus Counseling Center or the JCU Admission Office at 216.397.4294.

John Carroll University requires a minimum of 120 total credit hours for graduation. At least 60 credits must be completed in-residence at John Carroll University. All general requirements, Core requirements, and all requirements for the major must be completed along with a quality-point average of at least a 2.0 for graduation. Students deficient in total credits or in-residence credits or in quality-point average requirements must take additional elective credits to meet the minimum requirements. Depending upon other elective choices made, students may not need as many general electives as indicated above, or may need additional electives.

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This map represents one example of how to complete the Associate and Bachelor's degrees. Students should work closely with advisors at both institutions to discuss options.

^ Tri-C equivalent course taken under SPCH will be accepted to meet this requirement.

*These courses may be substituted for others that are needed for the AA, please make sure that the substitutions will transfer to JCU.

**Math courses at JCU may only be offered in one semester per year, courses may need to be taken a different semester. Successful completion of each math course is required only once, but the course offering may be limited, so it may be taken whenever it is available. Consult a JCU advisor when selecting JCU math courses for cross registration and once matriculated to JCU.

****These courses are a part of the reduced core curriculum for transfer students with more than 45 earned credit hours.*