



Associate of Arts
to Bachelor of Science with a major in Mathematics
4 Year Degree Planner
 Bulletin Year 2023-2024



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 Communication	3	MATH 1620/162H Calculus II	5
MATH 1610/1610H Calculus I	5	MATH 1410 Elem Prob/Stat I	4
OT36 Arts and Humanities Course	3	*PSY 1010/SOC 1010 Intro to Psychology/Sociology	3
	14		15
Second Year at Cuyahoga Community College			
Fall Semester	Credits	Spring Semester	Credits
POL 1010/2070* American National Government/International Relations	3	OT36 Natural Science Course	3
MATH 2310/231H Calculus III	4	Elective	3
MATH 1420 Elem Prob/Stat II	3	Elective	3
OT36 Natural Science with Lab	3-5	MATH 2410 Introduction to Linear Algebra	3
OT36 Arts and Humanities Course (different subject than previous Arts & Humanities course)	3	Cross Register at JCU (MT 3010 Methods in Pure Mathematics)	3
	16-18		15
Total minimum credits earned at Tri-C	60-62	Associate of Arts Degree Awarded	
NOTE: A maximum of 60 credits may transfer from Tri-C to JCU			
First Year at John Carroll University			
Fall Semester	Credits	Spring Semester	Credits
CS 1280 & 1281 Intro Software App Development & Lab	4	MT 2240 (Basic Probability)	1
**MT 4410 (Introduction to Abstract Algebra) or MT 4310 (Introduction to Real Analysis)	3	MT 2340 Intro Differential Equations	3
EGC (Engaging the Global Community) course ***	3	Linked course (Taken with another course from a different discipline)***	3
Elective	3	Linked course (Taken with the above course from a different discipline)***	3
Elective	3	Elective	3
	16		13
Second Year at John Carroll University			
Fall Semester	Credits	Spring Semester	Credits
**MT 4310 (Introduction to Real Analysis) or MT 4410 (Introduction to Abstract Algebra)	3	**MT 4910 (Senior Seminar in Mathematics) or MT Major Course	3
**MT 4500 (Euclidean and Non-Euclidean Geometry) if offered or MT Major Course	3	MT Major Course	3
MT Major Course	3	Jesuit Heritage Course***	3
Jesuit Heritage Course***	3	Elective	3-4
Elective	3-4	Elective	3-4
	15-16		15-17
Total min credits earned at both institutions	120	Bachelor of Science Degree Awarded	

NOTE: Students must complete either MT 4500 or MT 4910 in order to satisfy their major Capstone requirement

This Transfer Pathway completes the Associate of Arts degree, which must total at least 60 semester credits and includes 36 Ohio Transfer 36 (OT36, formerly OTM) credits which are approved Tri-C general education requirements. OT36 details can be found at <https://www.ohiohighered.org/Ohio-Transfer-36>.

Additional Information:

Assumptions: college-level readiness in Mathematics and English

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 <https://www.tri-c.edu/transfer/transfer-resources/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.

*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.*