Degree Plan/Pathway
Associate of Applied Science, Construction Engineering Technology to Bachelor of Science in Construction Management

2025-2026 Catalog

Course sequence may change based on the individual needs of the student and schedule type required. This Transfer Pathway represents one example of how to complete an associate and bachelor's degree.

Suggested Transfer Pathway at Tri-C

First Semester		Credits	Second Semester		Credits
ENG 1010/101H	College Composition I/Honors	3	CNST 1751	Construction Safety	2
CNST 1281	Construction Engineering Orientation	3	CNST 1411	CAD Technology in Construction	2
CNST 1290	Construction Print Reading	2	CNST 2131	Construction Methods and Materials	3
MATH 1610	Calculus I	5	ENG 2151	Technical Writing	3
IT-1090/H	Computer Applications	3	PHYS 1210*	College Physics 1	4
				Arts & Humanities/ Social & Behavioral Science Requirement (CSU: Complexities of a Pluralistic Society, see transfer guide) or American Civic Literacy (HIST 1500/150H or POL 1000/100H)	3
		16			17

Third Semester		Credits	Fourth Semester		Credits
CNST 2210	Mechanical and Electrical Systems	3	CNST 2330	Construction Scheduling	3
MET 1601*	Technical Statics	3	MET 2200*	Strength of Materials	3
MET 2430 (E)	Engineering Probability & Statistics	3	CNST 2631	Construction Management Systems	3
CNST 2990	Construction Estimating & Cost Analysis	3	CNST 2110 (E)	Basic Survey Practices	3
CNST 2201	Introduction to Building Information Modelling	3	ACCT 1311	Financial Accounting	3
		15			15

Associate of Applied Science Degree Awarded Total 63 Hours:

It is recommended that a student complete the above courses before transferring to Cleveland State.

Suggested Degree Plan at Cleveland State

Fall Semester	Third Year	Credits
GAD 250^	Business Communications (WAC)	3
ECN 201	Principles of Macroeconomics	3
CMG 360	Occupational Health Regulations in Construction	3
ACT 222	Introductory Accounting II	3
MGT 301	Principles of Management	3
ESC 130	Engineering Co-Op Orientation	1
		16

Spring Semester	Third Year	Credits
ESC 400	Co-Op 1 (mandatory)	1
		1

Summer Semester	Fourth Year	Credits
CMG 230	Construction Equipment Utilization and Maintenance	2
Core Curriculum	Mathematics (Quantitative and Formal Reasoning/Data & Digital Literacy)	3
		5

Fall Semester	Fourth Year	Credits
ESC 400	Co-Op 2 (mandatory)	1
		1

Spring Semester	Fourth Year	Credits
MGT 321	Organizational Behavior	3
FIN 351	Intro to Financial Management	3
MKT 301	Fundamentals of Marketing	3
CMG 410	Ethics, Contracts and Project Delivery Systems	3
GEO 100	Introductory Geology	3
GEO 101	Introductory Geology Lab	1
		16

Summer Semester	Fifth Year	Credits
ESC 400	Co-Op 3 (mandatory)	1
		1

Fall Semester	Fifth Year	Credits
CMG 420	Applied Sustainability	3
ECN 202	Principles of Microeconomics	3
Core Curriculum	Global Human Perspectives	3

Spring Semester	Fifth Year	Credits
CMG Tech Elect.	Must be from the means and methods group	3
CMG 490	Senior Construction Mgt Capstone	1
MGT 340	Human Resource Management	3

OSM 311	Introduction to Operations Mgt.	3
CMG 430	Advanced Digital Applications	3
		15

Core Curriculum	Complexities of a Pluralistic Society or American Civic Literacy (whichever is needed)	3
PHL 216	AI & Data Ethics	3
		13

Bachelor of Science Degree 63 + 68 = 131 Total Hours:

New college students may be required during their first semester to participate in GEN 1070, First Year Success Seminar, a one credit hour course. See a Tri-C Counselor for details.

Students should work closely with advisors at both institutions to discuss options and to identify a (minor or a second major/etc.). A ***CSU*** advisor can also assist students with developing a graduation plan for full- or part-time study.

(E): Tri-C CNST AAS Elective Credit
*: Courses that must be completed at Tri-C in order for course sequences to work upon transfer
^: GAD 250 must be completed at CSU as at least one Writing Across the Curriculum (WAC) course must be completed at CSU

All students must complete:

- A minimum of **120** semester credits (combined Tri-C and **CSU**)
- Meet all residency requirements (last 30 semester credit hours at **CSU**, plus major and minor residency)- ***depends on 4-year requirements***

Additional information:

Pre-requisites:
- College-ready in Math and English
- 2 years of the same foreign language completed in high school

Students that do not meet these pre-requisites may need to complete additional credits.

CSU classes: some are offered only once a year; some are offered more than once a year, including summer.

Grade restrictions: Construction Management students are limited to a total of two D grades in ESC, MET, Business Courses (ACT, BUS, ECN, FIN, GAD, MGT, MKT, OSM), Construction Management courses (CMG) and Construction Management technical electives (CMG).

CSU requires a minimum of 120 total credit hours for graduation. At least 30 credits must be completed in-residence at CSU. At least 24 of the in-residence credits must be completed at the upper division (300/400) level. An overall total of 42 upper division (300/400) level credits are required. Students deficient in total credits or in-residence credits 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. Depending on how many courses are transferred in, students must complete at least one WAC course at CSU. **If students do not complete the AAS at Tri-C prior to transferring to CSU, they will be required to take ESC 120 upon transferring.**

This map represents one example of how to complete the AAS and BS degrees. Students should work closely with counselors/advisors at both institutions to discuss options.