

Bachelor Civil Engineering with Mathematics Minor

Earning a Mathematics Minor is easier than you think! A minor in mathematics consists of 18 credits in mathematics, with a grade of C or better in each course. It can be earned with no additional cost and minimal time added while obtaining your degree.

Earning the minor will inform recruiters for co-ops, internships, and career opportunities of your strong critical thinking and problem-solving skills!

Courses Need for Civil Engineering Students to Earn a Math Minor

	ESC 250	MTH 283	MTH 284	ESC 310	STA 323
	Differential Equations for Engineers	Multivariable Calculus for Engineers	Matrices for Engineers	Engineering Statistics & Probability	Statistical Methods
	3 credits	2 credits	2 credits	3 credits	3 credits
Civil Engineering Without Math Minor	√	√	X	√	X
Civil Engineering With Math Minor	✓	✓	√	Х	√

To earn a Mathematics Minor, Chemical Engineering students must earn a C or better in the following:

4 credits — MTH 181 (Calculus I)

4 credits — MTH 182 (Calculus II)

3 credits — ESC 250 (Differential Equations for Engineers)

2 credits — MTH 283 (Multivariable Calculus for Engineers)

2 credits — MTH 284 (Matrices for Engineers)

3 credits — STA 323 (Statistical Methods)

18 credits

Transfer students must complete a minimum of 9 of these credits at Cleveland State
University to earn the Mathematics Minor.

Overall Math Minor Requirements and How-To Sign-Up

REQUIRED COURSES

A grade of C or higher is required in both MTH 181 and MTH 182

- MTH 181 Calculus I
- MTH 182 Calculus II

MATHEMATICS ELECTIVES

10 additional credits chosen from MTH courses numbered 200 or above, or from the STA courses <u>STA 323</u> or <u>STA 424</u>. Courses must be completed with a grade of C or better. The following statistics and education-focused courses along with any statistics or education-focused special topics or reading courses are excluded from the math minor.

- Statistics courses: STA 347, STA 421, STA 431, STA 435, STA 436, STA 467
- Education courses: MTH 201, MTH 325, MTH 326, MTH 328, MTH 329, MTH 330

NOTES:

Engineering students can apply one of the following ESC courses toward the minor: ESC 250, ESC 310 or ESC 350. Moreover,

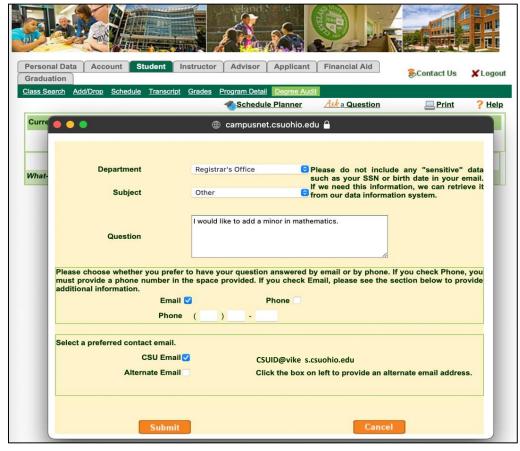
- Only one of MTH 284, MTH 288 or ESC 350 may be used,
- · Only one of MTH 286 or ESC 250 may be used,
- Only one of STA 323 or ESC 310 may be used,
- · Only one of MTH 281 or MTH 283 may be used.



Use your smart phone's camera app to scan the QR code above. It will direct you to CSU's Undergraduate Course Catalog.

How do I sign-up for a Mathematics Minor?

Log into your CampusNet → Select "Student" Tab → Select "Degree Audit" → Click "Ask a Question" Please be sure to confirm your eligibility with your Academic Advisor.





Use your smart phone's camera app to scan the QR code above for a step-by-step tutorial on signing up for a mathematics minor!