

Bachelor of Chemical Engineering with Mathematics Minor

Benefits of earning a Mathematics Minor:

- No additional cost (upon using the tuition band for MTH 281) or time to pursue and earn
- Informs recruiters for co-ops, internships, and career opportunities of your strong critical thinking and problem-solving skills

Courses Needed for Chemical Engineering Students to Earn a Math Minor

		ESC 250	MTH 286	MTH 283	MTH 281	ESC 350	MTH 288	ESC 310	STA 323
		Differential Equations for Engineers	Intro to Differential Equations	Multivariable Calculus for Engineers	Multivariable Calculus	Linear Algebra for Engineers	Linear Algebra	Engineering Statistics & Probability	Statistical Methods
		3 credits	3 credits	2 credits	4 credits	3 credits	3 credits	3 credits	3 credits
Chemical Engineering Without Math Minor		√	X	√	X	√	X	√	X
Chemical Engineering With Math Minor	Option 1	X	✓	✓	X	X	✓	✓	X
	Option 2	Х	✓	✓	Х	✓	X	X	✓
	Option 3	Х	✓	Х	✓	✓	X	✓	X
	Option 4	✓	X	Х	√	X	✓	✓	Х
	Option 5	✓	Х	Х	✓	✓	X	X	✓

To earn a Mathematics Minor, Chemical Engineering students must earn a C or better in all courses from one of the following options:

Option 1	Option 2	Option 3	Option 4	Option 5
4 credits — MTH 181	4 credits — MTH 181	4 credits — MTH 181	4 credits — MTH 181	4 credits — MTH 181
4 credits — MTH 182	4 credits — MTH 182	4 credits — MTH 182	4 credits — MTH 182	4 credits — MTH 182
3 credits — MTH 286	3 credits — MTH 286	3 credits — MTH 286	3 credits — ESC 250	3 credits — ESC 250
2 credits — MTH 283	2 credits — MTH 283	4 credits — MTH 281	4 credits — MTH 281	4 credits — MTH 281
3 credits — MTH 288	3 credits — ESC 350	3 credits — ESC 350	3 credits — MTH 288	3 credits — ESC 350
3 credits — ESC 310	3 credits — STA 323	<u>3 credits</u> — ESC 310	3 credits — ESC 310	3 credits — STA 323
19 credits	19 credits	21 credits	21 credits	21 credits

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.

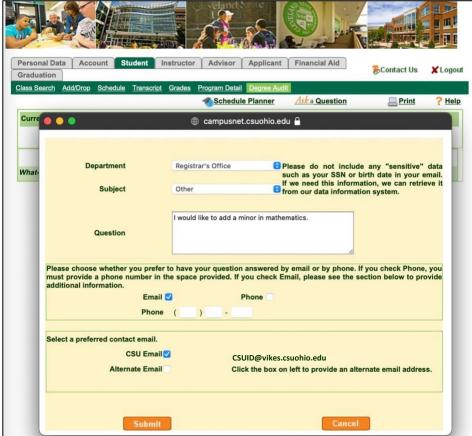
- . Only one of MTH 284, MTH 288 or ESC 350 may be used,
- · Only one of MTH 286 or ESC 250 may be used,
- · Only one of STA 323 or ESC 310 may be used,
- Only one of MTH 281 or MTH 283 may be used.



Use your smart phone's camera app to scan the QR code above. It will direct you to CSU's 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 bystep tutorial on signing up for a mathematics minor!