



TRANSITION TO HIGHER EDUCATION

Which high school math courses best prepare our students for college success?



DID YOU KNOW?

- Most non-STEM majors require at least intermediate algebra or precalculus for college readiness.
- Many non-STEM programs require elementary statistics and a second, major-specific statistics course.
- 81% of majors require math beyond Algebra 2 (of colleges surveyed)
- Students who double up math courses in high school strengthen their readiness for college-level work.

EXPLORE COURSE OFFERINGS AT YOUR SCHOOL

- Statistics
- Discrete or other College Quantitative Reasoning
- High level algebra classes

- School of Business majors often require applied calculus.
- STEM majors should be prepared to take Calculus I in their freshman year of college.

** Competitive colleges may expect a high school calculus course in calculus for admission consideration.

Aligning high school math courses with students' postsecondary goals strengthens readiness and supports a smoother transition to college, career, and beyond.

Course information sourced from the CT State University system.

STEM Minimum Math Requirement	Algebra 2	Statistics	Calculus
Biology	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Chemistry	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Civil Engineering	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Climate Change (BS) (++)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Computer Science	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Earth Science	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Electrical Engineering	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Exercise Science (++)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Graphics Technology (++)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Mechanical Engineering	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Metereology	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

(++) Precalculus Required

Non-STEM Minimum Math Requirements	Algebra 2	Statistics	Calculus
School of Business			
Accounting	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Business Information Systems	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Finance	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Marketing	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Humanities			
Communication	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Education (++)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
English	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
History	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
World Languages	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Anthropology	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Social Sciences			
Anthropology	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Criminology	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Economics	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Journalism	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Philosophy	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Political Science	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Psychology	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Social Work	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Sociology	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Women & Gender Studies	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

(++) Math requirements vary by education discipline.