

Proposal to add a new course:

COURSE TITLE: Mathematics for the Trades

PREREQUISITE: Successful completion of Algebra I and Geometry with teacher recommendation and a concurrent enrollment in a CTE course for trades or program.

LENGTH: 2 semesters

OPEN TO: 11th or 12th grades (what about students who take geo as a freshmen and don't want to take alg 2 as sophomores- do we allow them to take this? What would they take as juniors or seniors? Will we need a Trades Math 2 for seniors to take? Or a different option of Transition Math?)

DESCRIPTION: Mathematics for the Trades is a career-focused mathematics course designed for students interested in skilled trades, apprenticeships, technical programs, and other workforce pathways. Students apply algebra, geometry, measurement, proportional reasoning, statistics, and trigonometry to authentic problems encountered in construction, electrical, plumbing, HVAC, automotive, manufacturing, welding, and other technical fields. Topics include measurement, estimation, blueprint reading, scale drawings, material calculations, technical formulas, financial mathematics, and job-based problem solving. Students will complete hands-on projects and performance tasks that connect mathematical concepts to real-world career applications.

SEQUENCE: Algebra 1 - Geometry - Mathematics for the Trades - Transition Math/Intro to Stats/Math 127

COST: Approximately \$6,000 (50 books at \$90 each and plan on getting class sets, materials to be used such as rulers, tape measures, scales).

RATIONALE: Students who are not planning to attend college in their post secondary plans do not need all of the content taught in a traditional Algebra 2 course. The advanced topics covered are typically not covered as in-depth on the ACT either and students should still be successful in doing well on the ACT as a result of taking this course. This course will be designed to prepare students for the math needed in trades programs and to help them be successful upon graduation in whatever trade path they choose.

IMPLEMENTATION: 2027-28 school year

STAFFING IMPACT: Algebra 2 sections will decrease and be replaced in part by this course. No new staff will be needed. A teacher or two will be assigned to this course in place of one of the courses they currently teach.

Proposal to update a course description:

COURSE TITLE: Math 128 Elementary Statistics

CURRENT DESCRIPTION: This is a first course in statistics focusing on mathematical reasoning and the solving of real life problems. Included are: frequency distributions, measures of position and variation, basic probability theory, probability distributions and the normal curve, statistical inference, correlation and regression, **f-test, and analysis of variance**. Both a TI-83 Plus or 84 Plus graphing calculator and statistical software will be used. ALEKS test results must be brought to your counselor no later than February 3, 2026. Students will be provided the opportunity to receive College Credit through Joliet Junior College, in addition to high school credit. Students will be responsible for paying a credit fee directly to JJC. Students who qualify for free/reduced lunch will not be required to pay the student fee. Disclaimer - Dual Credit is subject to change based upon revisions made from Joliet Junior College. Minooka Community High School has no control over this entity. Each student is advised to check with the individual college/university they are interested in attending to verify if this JJC course will be accepted as a required or elective credit.

PROPOSED DESCRIPTION: This is a first course in statistics focusing on mathematical reasoning and the solving of real life problems. Included are: frequency distributions, measures of position and variation, basic probability theory, probability distributions and the normal curve, statistical inference, correlation and Regression, and **hypothesis testing**. Both a TI-83 Plus or 84 Plus graphing calculator and statistical software will be used. ALEKS test results must be brought to your counselor no later than February 3, 2026. Students will be provided the opportunity to receive College Credit through Joliet Junior College, in addition to high school credit. Students will be responsible for paying a credit fee directly to JJC. Students who qualify for free/reduced lunch will not be required to pay the student fee. Disclaimer - Dual Credit is subject to change based upon revisions made from Joliet Junior College. Minooka Community High School has no control over this entity. Each student is advised to check with the individual college/university they are interested in attending to verify if this JJC course will be accepted as a required or elective credit.

RATIONALE: This is a more accurate description of what is taught.

Proposal to eliminate a course:

COURSE TITLE: Algebra II Resource

RATIONALE: No longer having a resource period as a class in their schedule and would reduce the number of courses they could take in other departments. Planning to replace this with an intervention class during their advisory period.

Proposal to update a course:

CURRENT COURSE TITLE:

PROPOSED COURSE TITLE:

RATIONALE:

Proposal to update a prerequisite: AP Statistics

CURRENT COURSE PREREQUISITE: Successful completion of previous math course and teacher recommendation.

PROPOSED COURSE PREREQUISITE: Successful completion of Algebra 2 or higher and teacher recommendation.

RATIONALE: Students who have not completed through Algebra 2 should not be able to enroll in this course.

Proposal to purchase a new resource:

COURSE TITLE: Algebra 2 Big Ideas Math by Cengage School

RATIONALE: Curriculum review process concluded that this is the book that will best align with Algebra 1 and our goals for improvement.

COST: 67,462.50