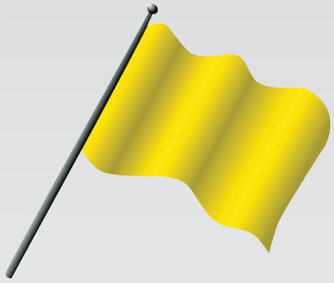
Is your student college ready for mathematics?

Academic evidence in pursuit of STEM (Science, Technology, Engineering, & Math) degrees

COLLEGE ALGEBRA

(*Freshman college credit course)

MARGINALLY PREPARED



Math Learning:
- Eight credits college bound level math and Statistics without repeating a course
- Algebra I, II, Geometry (or Integrated), Finite/Discrete, and Statistics (one semester)
- Success trend: 75 - 85 percent

Standardized Test Scores:
- SAT composite score: 800 - 999
- ACT composite score: 15 - 19
- PASS ECA Core 40

Working Knowledge of:
- Fractional operations calculator free
- Like terms; polynomial operations
- Exponent rules
- Problem solving
- Solving linear equations
- Solving system of equations (2x2, 3x3)
- Plane graphing (linear equations, systems of equations, and solving)

Familiar with:
- Logarithms
- Simplifying radicals
- Factoring
- Special triangles
- Pythagorean theorem
- Right triangle trigonometry
- Solving equations (quadratic, exponential, domain, and range)
- Plane graphing (inequalities, even/odd functions (end behavior/asymptotes))
- Standard form of special cases (absolute value, conics, exponential, logarithmic, quadratic, radical, cubic, rational - $\frac{1}{x}$ and $\frac{1}{x^2}$)

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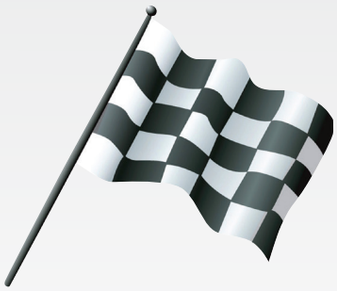
PREPARED



Math Learning:
- Eight credits college bound level math and Statistics without repeating a course
- Algebra I, II, Geometry (or Integrated), Finite/Discrete (possibly dual credit), and Statistics (one semester)
- Success trend: 80 percent or higher

Standardized Test Scores:
- SAT composite score: 1000 - 1199
- ACT composite score: 20 - 25
- PASS ECA Core 40

Confident Knowledge of:
- Fractional operations calculator free
- Like terms; polynomial operations
- Exponent rules
- Problem solving
- Solving equations (linear, systems of equations 2x2, 3x3)
- Plane graphing (linear equations, systems of equations, and solving)

Familiar with:
- Logarithms
- Simplifying radicals
- Factoring
- Special triangles
- Pythagorean theorem
- Unit circle trigonometry (trigonometric equations/identities/properties)
- Solving equations (quadratic, exponential, domain, and range)
- Plane graphing (inequalities, even/odd functions (end behavior/asymptotes))
- Standard form of special cases (absolute value, conics, exponential, logarithmic, quadratic, radical, cubic, rational - $\frac{1}{x}$ and $\frac{1}{x^2}$)

*CHECK WITH COLLEGE PROGRAM

Southeast Indiana Postsecondary Regional Partnership (www.iupuc.edu/ctl/collegereadiness) 2016