CALCULUS

Is your student college ready for mathematics?

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

CALCULUS

(*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), and Pre-Calculus
- Statistics (one semester)
- Success trend: 80 90 percent

Standardized Test Scores:

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

Familiar with:

- Logarithms
- Simplifying radicals
- Factoring
- Special triangles
- Pythagorean theorem

- Plane graphing (inequalities, even/odd functions (end behavior/asymptotes)), transformations of special cases (absolute value, conics, exponential, logarithmic, quadratic, radical, cubic, rational - 1/x and 1/x2)

CALCULUS

(*Freshman college credit course)

PREPARED



- Math Learning:
- Ten credits college bound level math including two
- AP or dual credits without repeating a course · Algebra I, II, Geometry (or Integrated), Pre-Calculus,
- and Calculus
- Statistics (two semesters)
- Success trend: 90 percent or higher

Confident Knowledge of:

- · Fractional operations calculator free
- Radical applications
- Polynomial operations
- Logarithm applications
- Factoring applications
- · Exponent rule applications
- Special triangle applications Pythagorean theorem applications
- Unit circle trigonometry applications (trigonometric equations/identities/properties)
- · Theoretical limits
- · Sequences and Series
- Solving equations and applications (quadratic, exponential, domain, and range, systems of equations
- 2x2, 3x3 special case solutions)
- Problem solving applications
- Plane graphing (linear equations/programming, inequalities, systems (2x2, 3x3), even/odd functions, (end behavior/asymptotes). transformations of special cases and graph analysis (absolute value inequality graphs, conics, exponential, logarithmic, polynomial, radical, cubic, rational-all types)

*CHECK WITH COLLEGE PROGRAM

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

- SAT composite score: 1200 1600 ACT composite score: 26 - 36
- PASS ECA Core 40

Working Knowledge of:

Exponent rules

· Problem solving

Plane graphing

Solving equations

Fractional operations calculator free
Like terms; polynomial operations

(linear, systems of equations 2x2, 3x3)

(linear equations, systems, and solving)

Unit circle trigonometry (trigonometric equations/identities/properties) Solving equations (quadratic, exponential, domain, and range)

Standardized Test Scores: