

# Homestead Math Department

Homestead Web-Site: <http://www.hhs.fuhsd.org>

- Academics → Math & Computer Science
  - *Course Descriptions*
  - *Course Information Sheets*
  - *Textbook List by Course*
  - *Suggested Supplies by Course*
  - *Other useful information.....*

***Presentation will be available on the HHS website!***

# Homestead Math

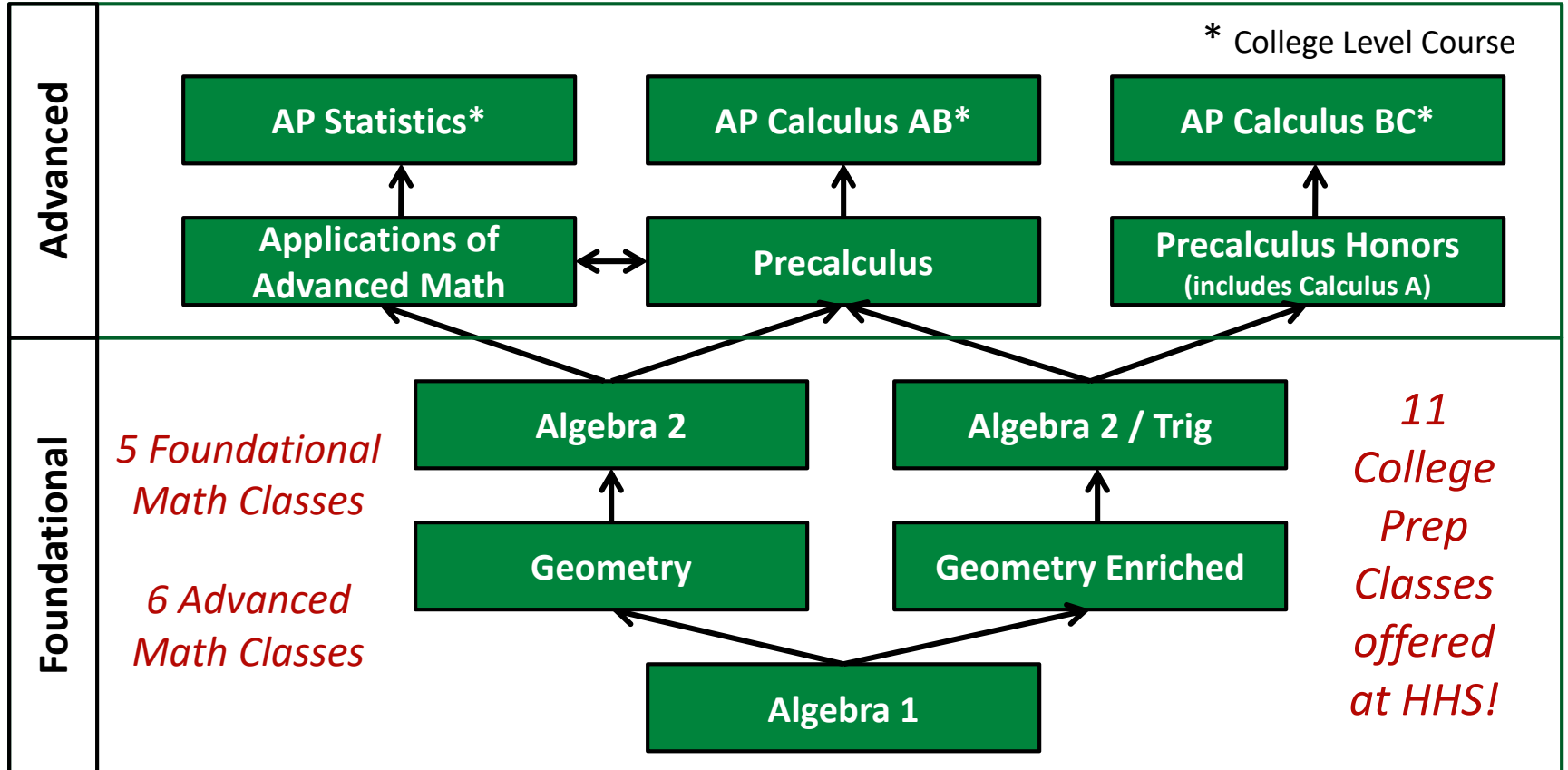
1. Course Offerings & Requirements
2. Math Selection Process & Recommendations

*Check out our Computer Science options  
in your electives rotations!*

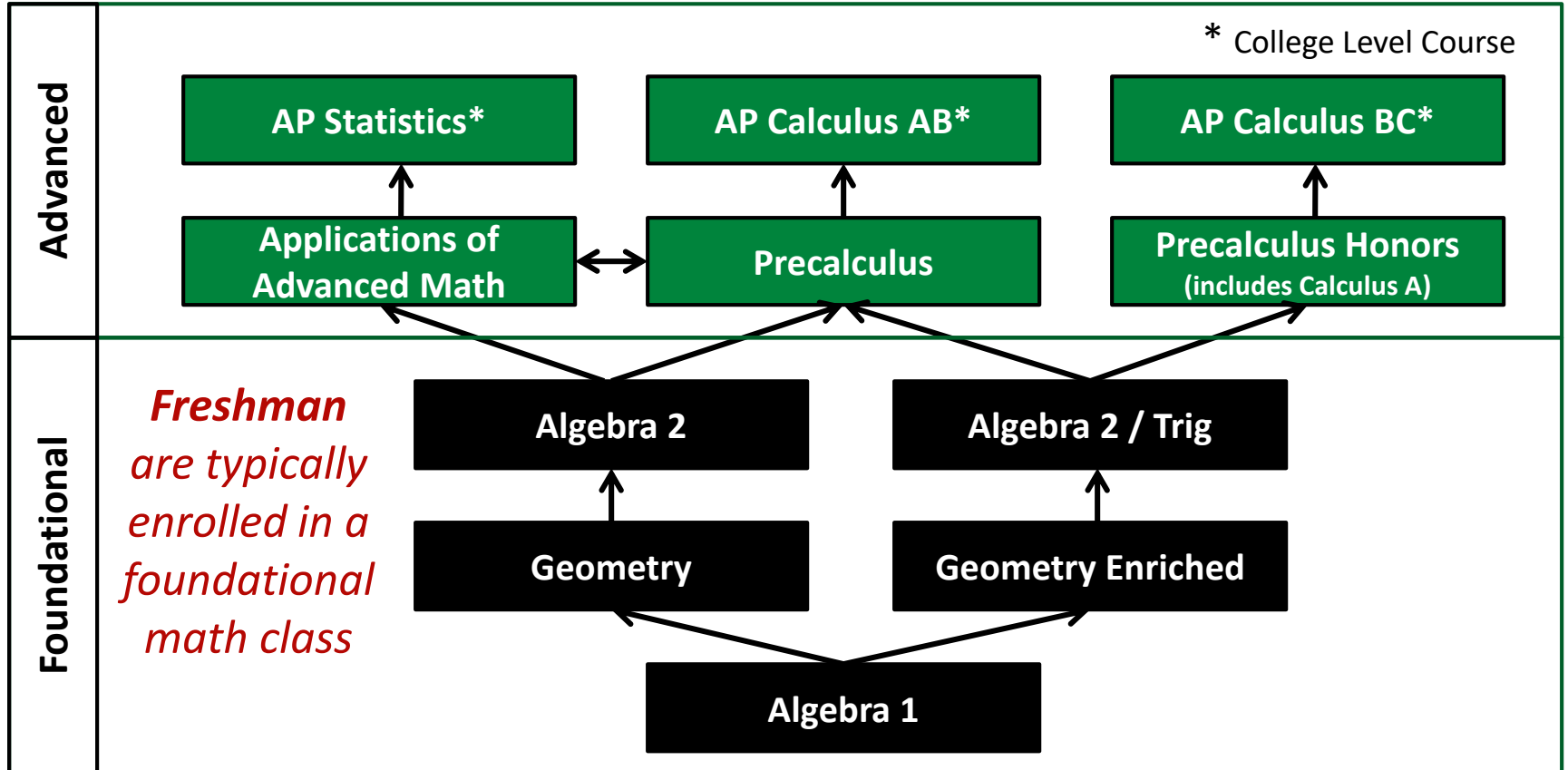
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# Course Offerings & Requirements

# Homestead Math Sequences



# Homestead Math Sequences



# Foundational Mathematics Classes

## ❖ Algebra 1

- Foundation for ALL Higher Level Math Classes
- Should not be skipped! Math8  $\neq$  Algebra 1

## ❖ Geometry or Geometry Enriched

- Required for University Admission; Cannot be skipped!
- Self-Study does not count; Must be taken from an accredited institution

## ❖ Algebra 2 or Algebra 2/Trig

- Required for University Admission
- Essential for all Advanced Mathematics classes

# Advanced Mathematics Classes

## ❖ Precalculus or Precalculus Honors

- Prerequisite for AP Calculus AB or AP Calculus BC
- Prepares students to take Calculus
- Non-Homestead courses do not necessarily adequately prepare students

## ❖ Applications of Advanced Mathematics

- Prepares students for AP Statistics
- Maintains Algebra and Geometry fluency for the SAT or ACT

# Advanced Mathematics Classes

## ❖ AP Calculus AB

- Approximately 2 Quarters of College Calculus
- Covers: Limits, Derivatives & Integrals plus Applications

## ❖ AP Calculus BC

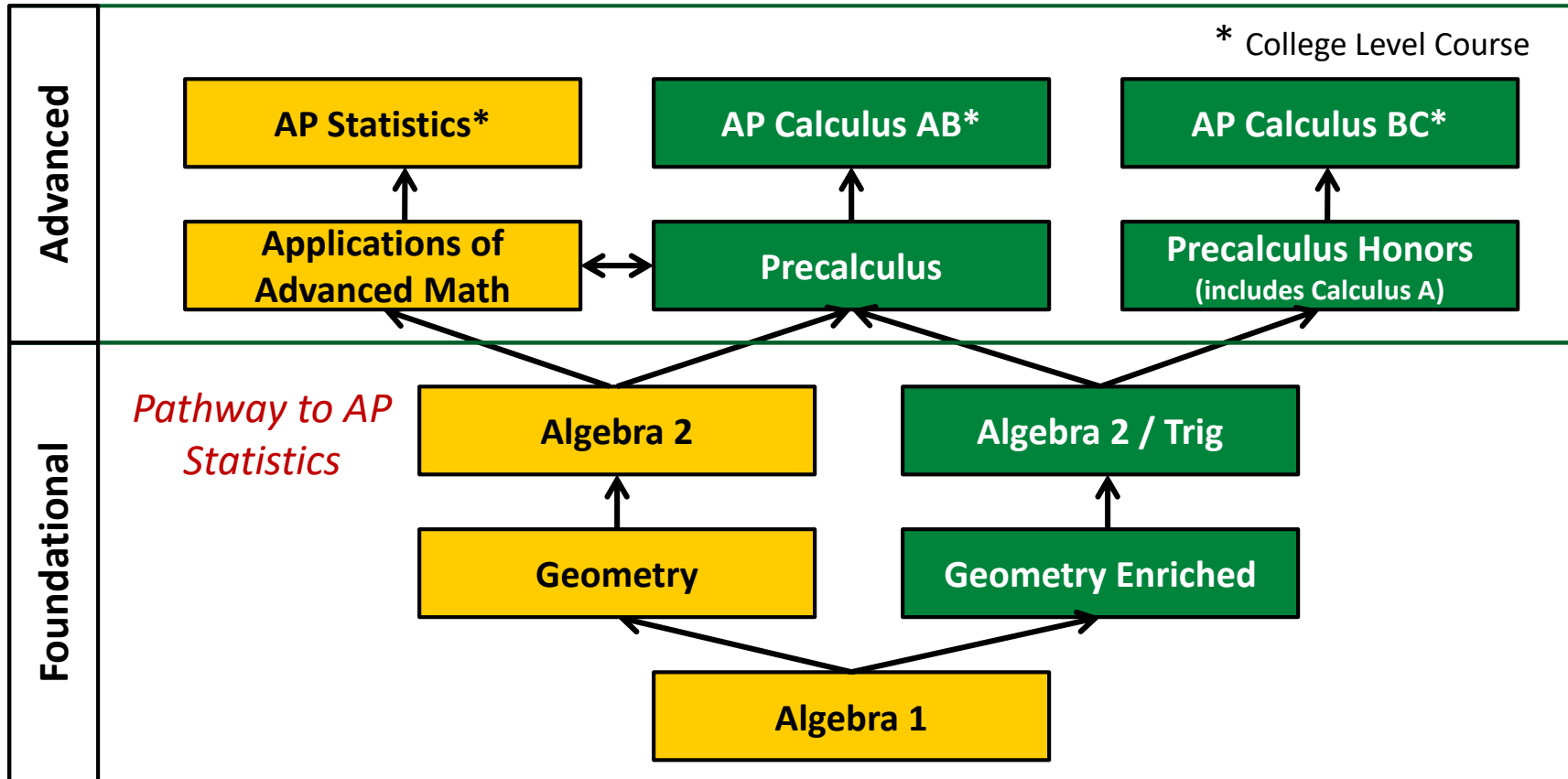
- Approximately a Full Year (3 quarters) of College Calculus
- Covers AB Topics: Limits, Derivatives & Integrals plus Applications
- BC Topics: Advanced Integration, Infinite Series, Polar & Parametric

## ❖ AP Statistics

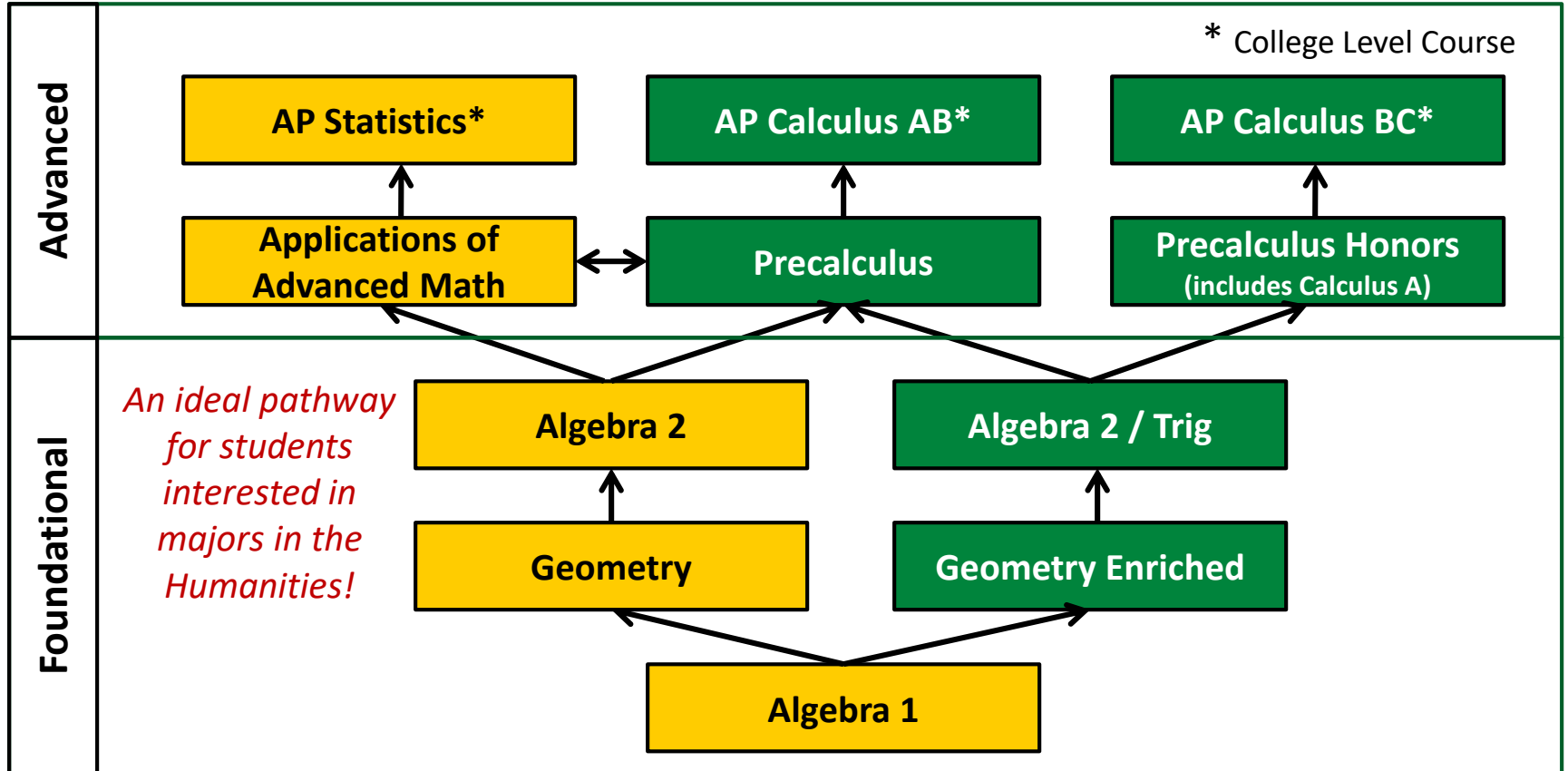
- Approximately 1 semester of College Algebra-based Statistics



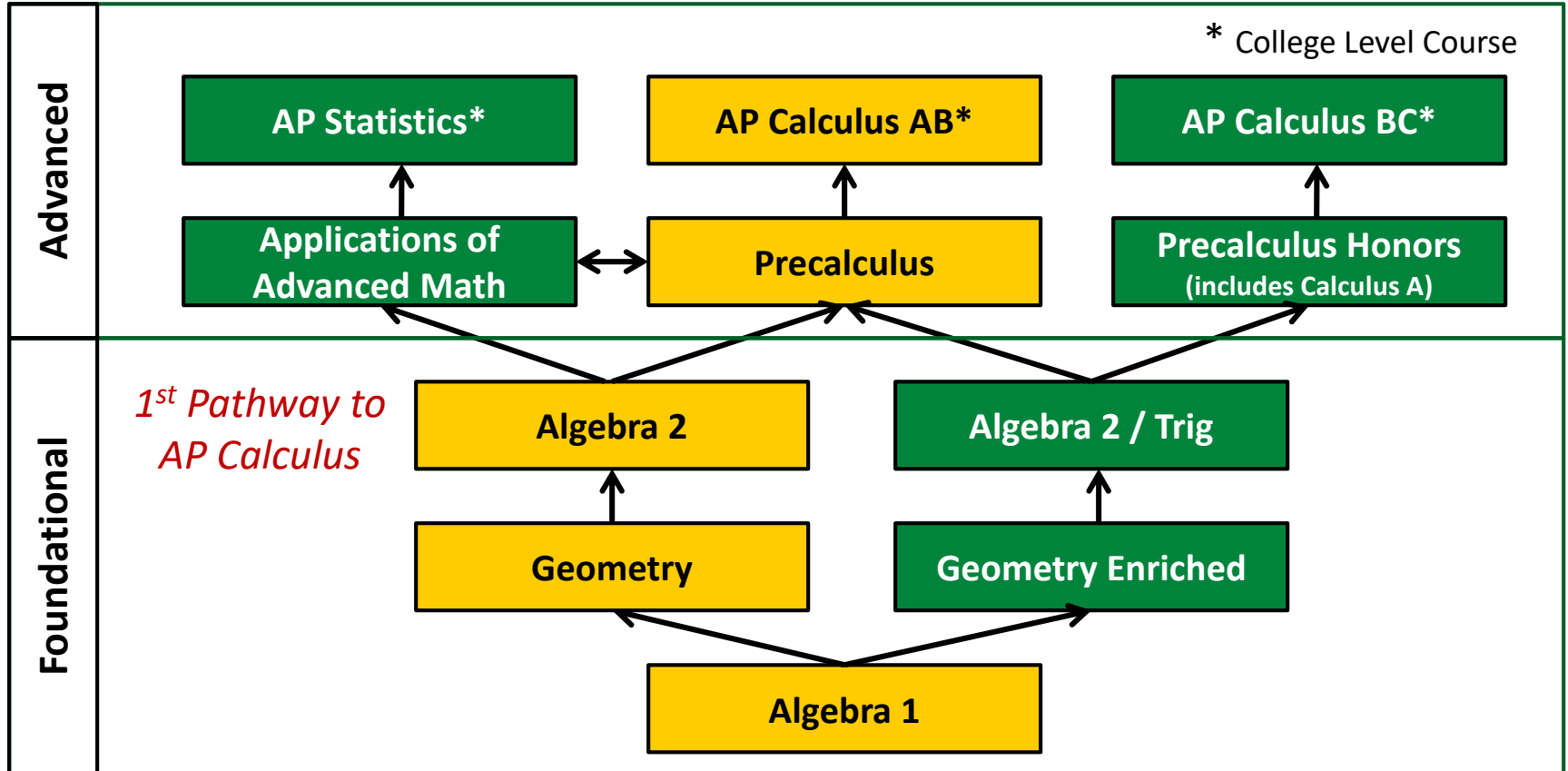
# Homestead Math Pathway #1



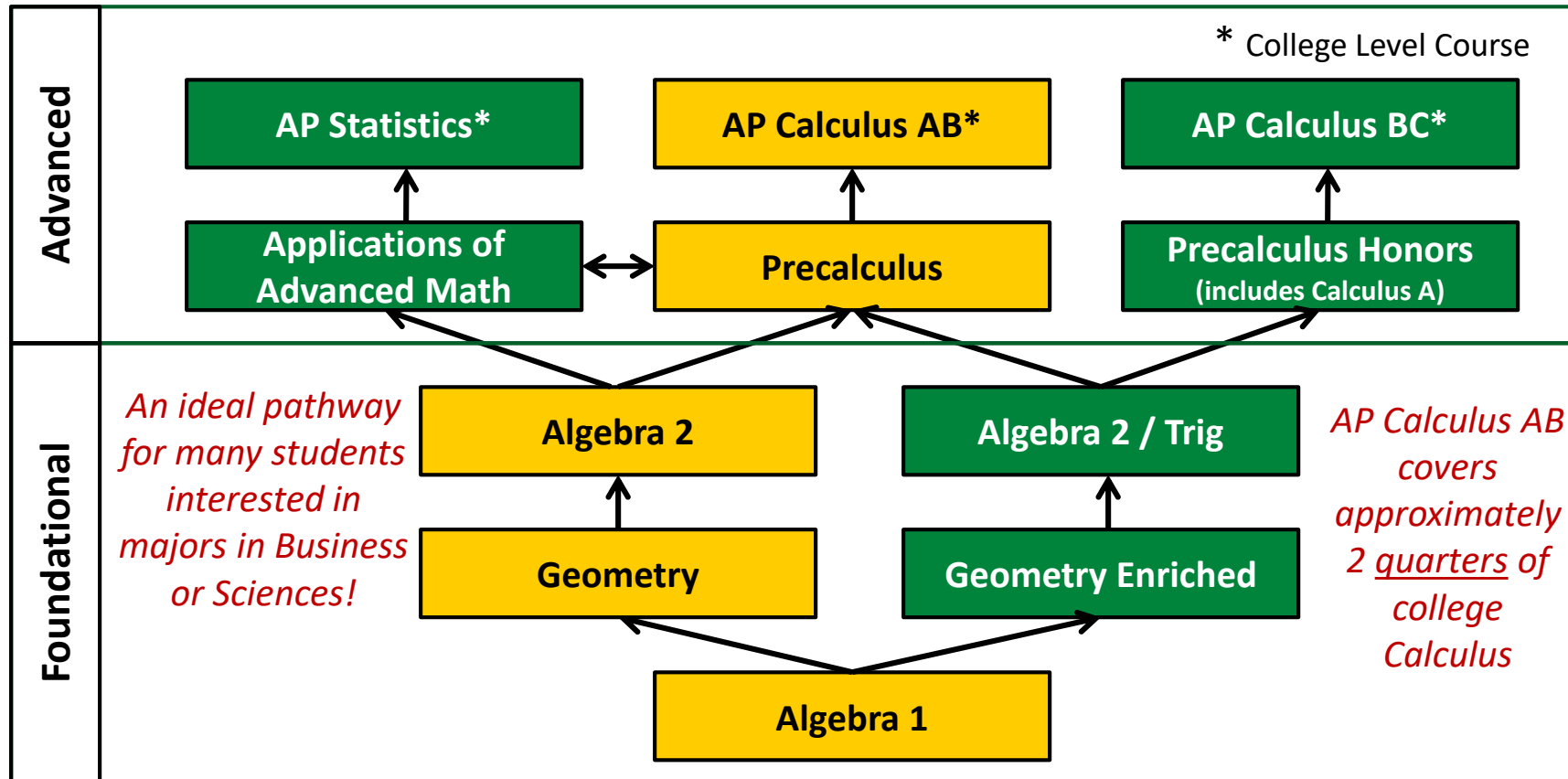
# Homestead Math Pathway #1



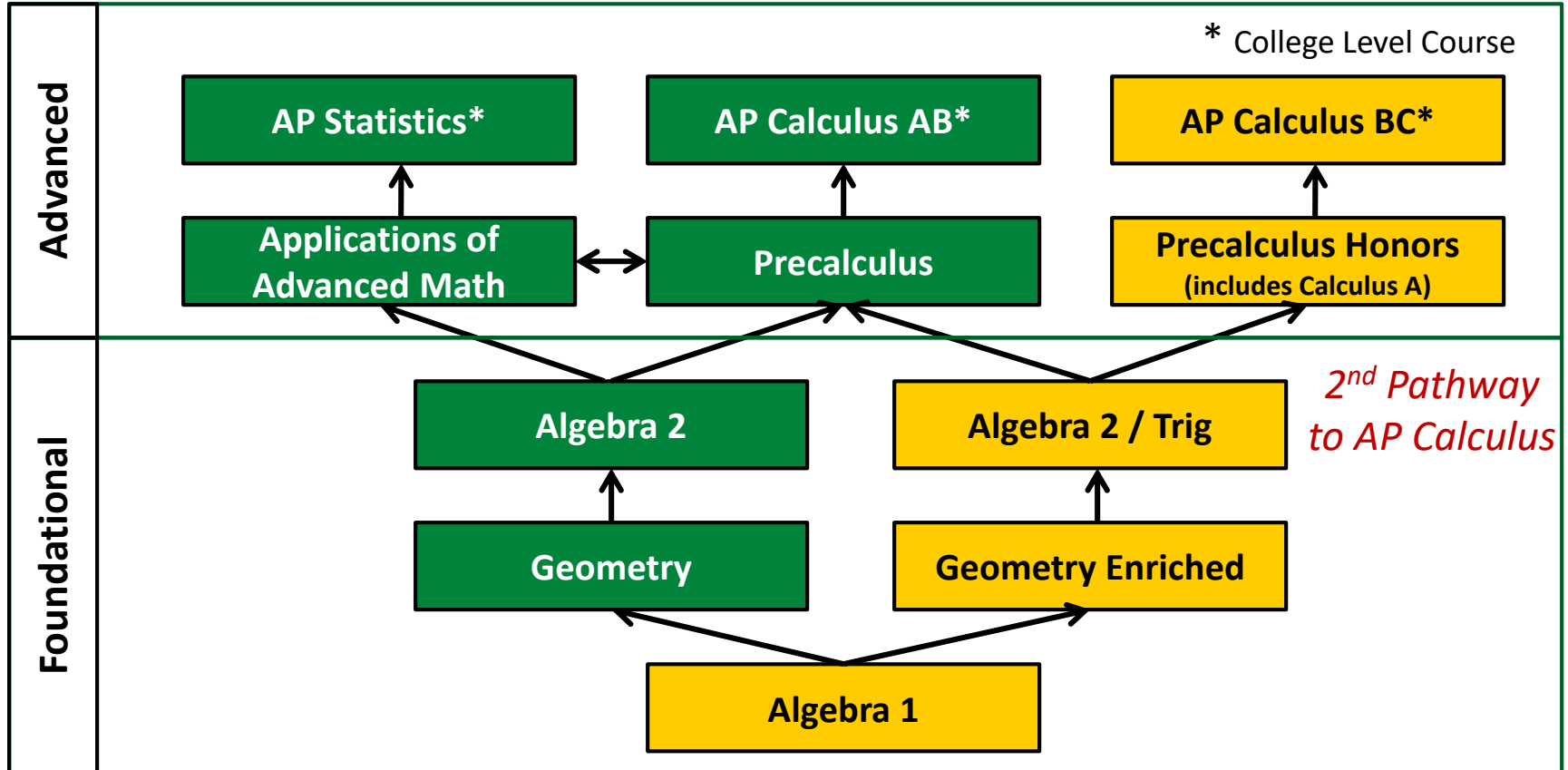
# Homestead Math Pathway #2



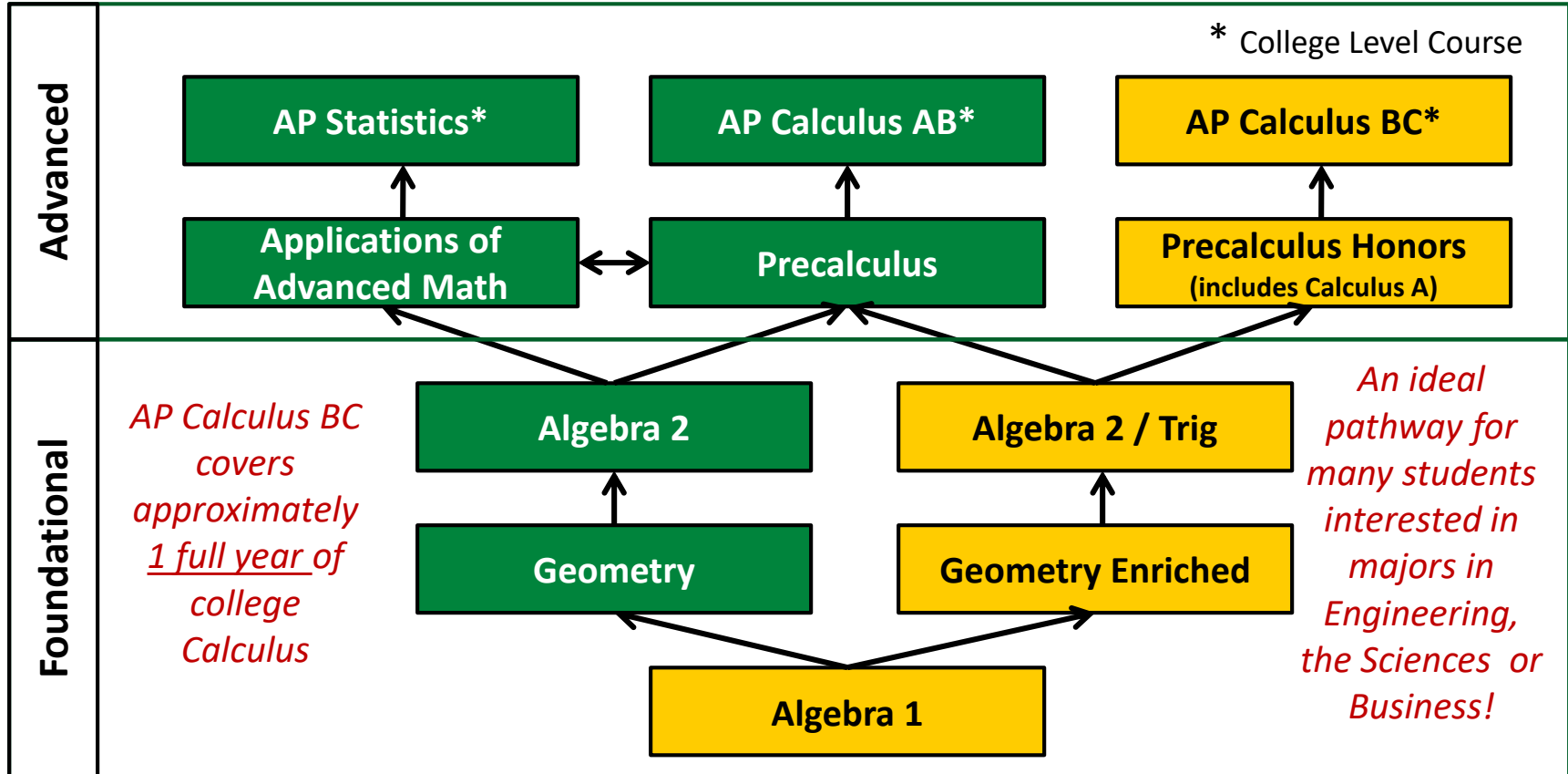
# Homestead Math Pathway #2



# Homestead Math Pathway #3



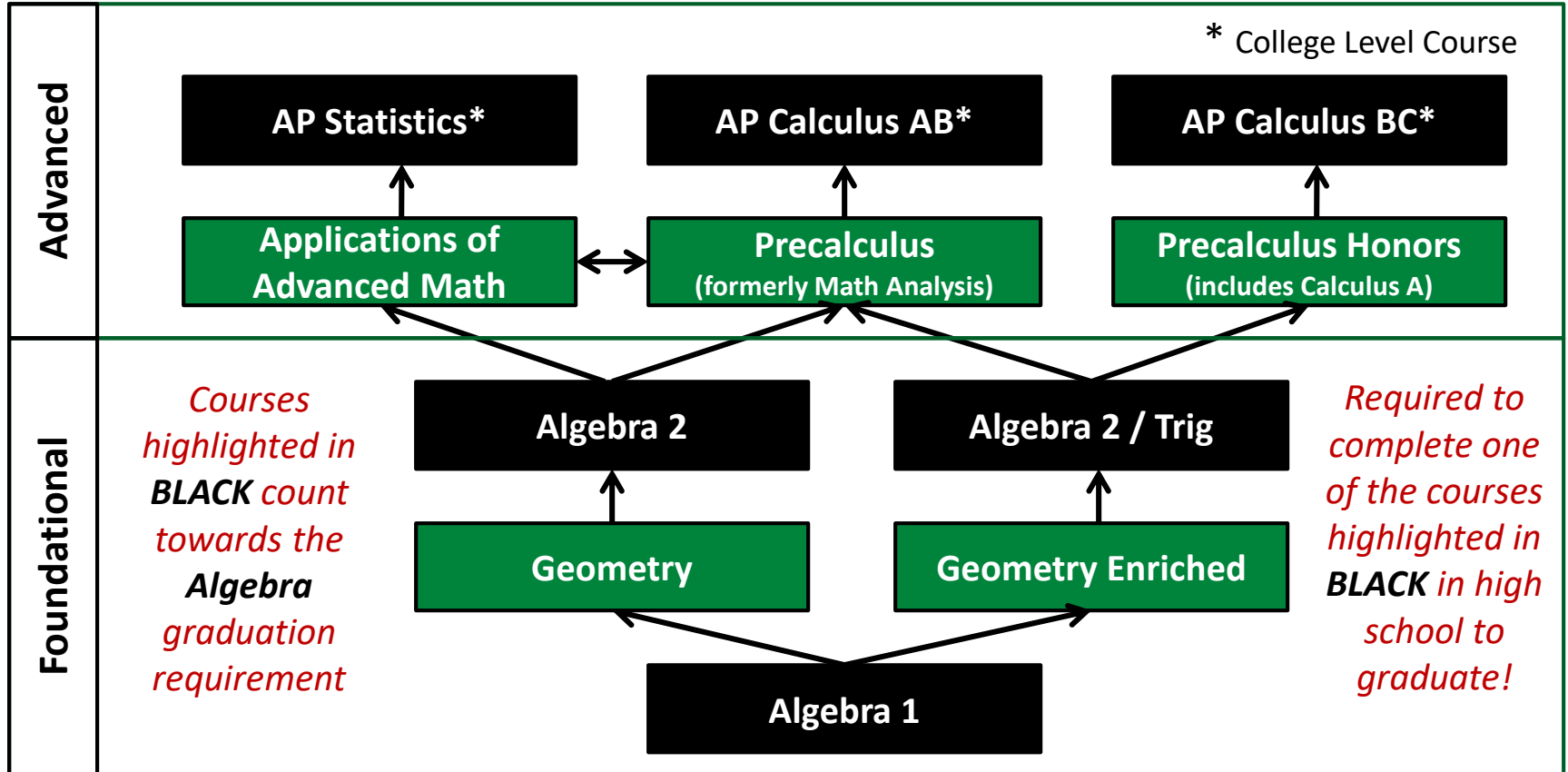
# Homestead Math Pathway #3



# Math HS Graduation Requirements

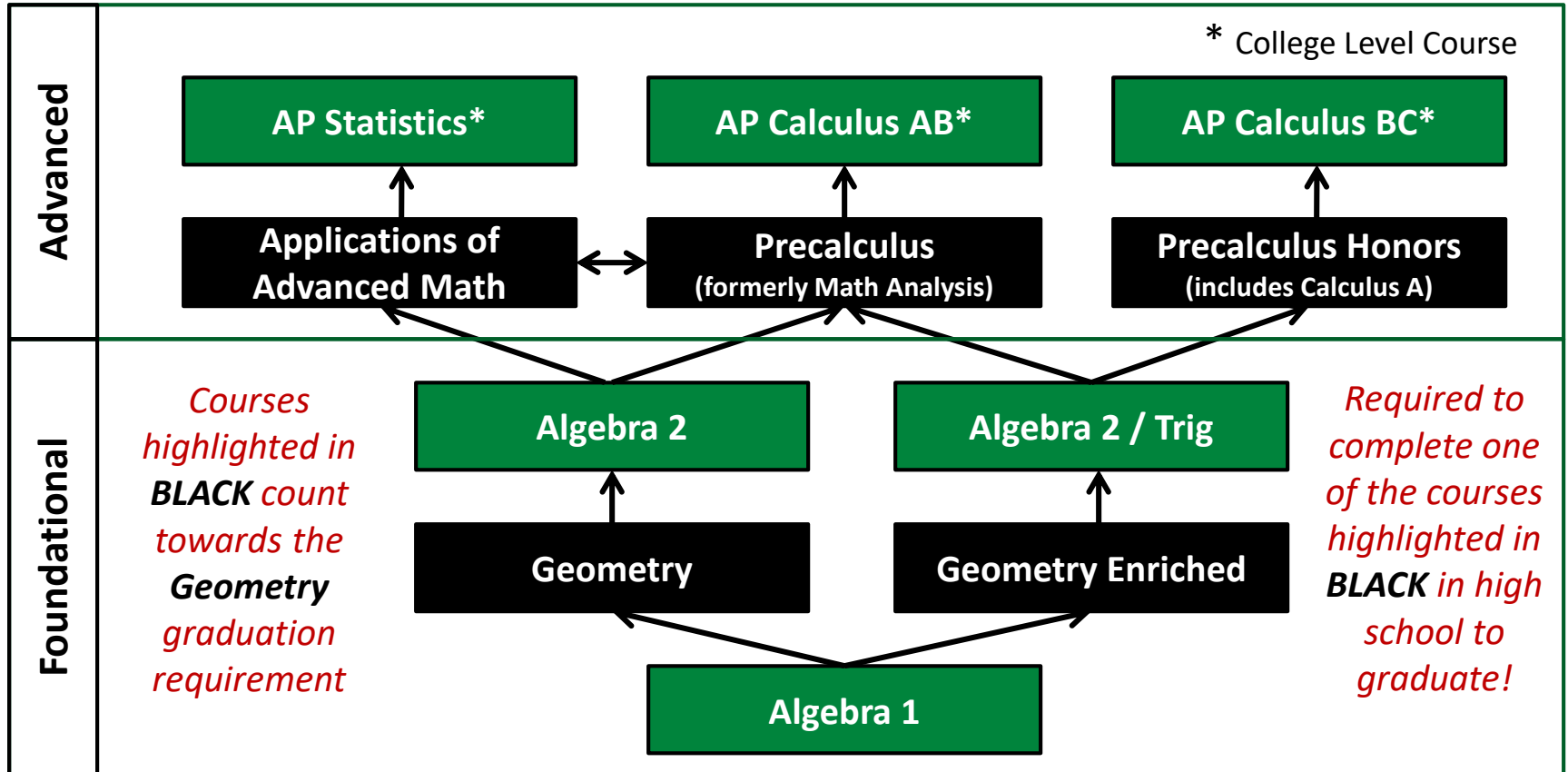
- 2 years = 20 credits of math while in high school
  - 10 credits in “Algebra Bucket”
    - *Algebra 1, Algebra 2, Algebra 2/Trig, AP Calculus AB or BC, AP Statistics*
  - 10 credits in “Geometry Bucket”
    - *Geometry, Geometry Enriched, Applications of Advanced Mathematics, Precalculus, Precalculus Honors*
  - MUST have 10 credits from each category!

# “Algebra” Courses for Graduation





# “Geometry” Courses for Graduation



# University Admission

- **UC Eligibility:** *30 credits minimum with C's or better*
  - **Minimum Requirement:** Algebra 1 – Geometry – Algebra 2
  - 40 Credits **Highly Recommended**
    - *Necessary for more competitive institutions*
    - *Likely to become mandatory in near future*
  - **Geometry Explicitly Required**
    - *Must be on Transcript of an Accredited school*
      - *Middle or High School – with grades of C or better!*
    - *Geometry = Geometry or Geometry Enriched*
    - *Geometry ≠ Precalculus or Precalculus H or Applied Math (AAM)*
    - *Skipping Puts UC admission at risk!*

*Grades are  
more important  
than math level  
in college  
applications!!*

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# Math Selection Process

# 9<sup>th</sup> Grade Math Selection Process

- Step 1: Parent Request (tonight)
- Step 2: Readiness Test - MDTP (Early-March)
  - CMS/SMS: Administered during school
    - Math 8 → High School (Algebra 1) Readiness
    - Algebra 1 → Geometry Readiness
    - Geometry → Algebra 2 Readiness
  - Private Schools: Not Available
- Step 3: Course Verification (early April)
  - Confirmation of Course Request
  - Readiness Test Results
  - Advisability of Course Request

*The MDTP is **NOT**  
a placement or  
skip test!*

*It is only a  
readiness test!*

*Make **GOOD** choices  
now!*

*Changes after April  
are highly unlikely for  
any reason!*

# 9<sup>th</sup> Grade Math Recommendations

❖ If you are currently in **Math 8**

✓ Register for Algebra 1

❖ Successful **Algebra 1** students typically have

➤ *MDTP Scores: 24 or higher and...*

➤ *CUSD-Students: recommended for grades of C or higher*

➤ *SESD- Students: recommended for standards-based grades of 3 or higher*

➤ *Other-Students: recommended for grades of C or higher*

# 9<sup>th</sup> Grade Math Recommendations

❖ If you are currently successful in **Algebra 1**

✓ Register for Geometry or Geometry Enriched

❖ Successful **Geometry Enriched** students typically have

➤ *MDTP Scores: 30 or higher and...*

➤ *CUSD-Students: recommended for grades of A's or high B's*

➤ *SESD- Students: recommended for standards-based grades of 5's or 4's*

➤ *Other-Students: recommended for grades of A's or high B's*

➤ *If prerequisites are lower than stated, this course is NOT recommended*

# 9<sup>th</sup> Grade Math Recommendations

❖ If you are currently successful in **Algebra 1**

✓ Register for Geometry or Geometry Enriched

❖ Successful **Geometry** students have

➤ *MDTP Scores: 24 or higher and...*

➤ *CUSD-Students: recommended for grades of C or higher*

➤ *SESD- Students: recommended for standards-based grades of 3 or higher*

➤ *Other-Students: recommended for grades of C or higher*

➤ *Repeat of Algebra 1 for 9<sup>th</sup> grade if above prerequisites not met.*

# 9<sup>th</sup> Grade Math Recommendations

❖ If you are currently successful in **Geometry/Enriched**

✓ Register for Algebra 2 or Algebra 2/Trig

❖ Successful **Algebra 2/Trig** students have

➤ *MDTP Scores: 32 or higher and...*

➤ *A strong love of mathematics and mastery completion of Algebra 1 & Geometry*

➤ *CUSD-Students: recommended for grades of A's or high B's in both classes*

➤ *SESD- Students: recommended for standards-based grades of 5's or 4's in both classes*

➤ *Other-Students: recommended for grades of A's or high B's in both classes*

➤ *If prerequisites are lower than stated, this course is NOT recommended*



# 9<sup>th</sup> Grade Math Recommendations

❖ If you are currently successful in **Geometry/Enriched**

✓ Register for Algebra 2 or Algebra 2/Trig

❖ Successful **Algebra 2** students have

➤ *MDTP Scores: 24 or higher and...*

➤ *Successfully completed Algebra 1 & Geometry*

➤ *CUSD-Students: recommended for grades of C or higher in both*

➤ *SESD- Students: recommended for standards-based grades of 3 – 5 in both*

➤ *Other-Students: C or higher in both classes*

➤ *Repeat of Algebra 1 or Geometry for 9<sup>th</sup> grade if above prerequisites not*

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**Thank you for attending**

***Have a great evening!***