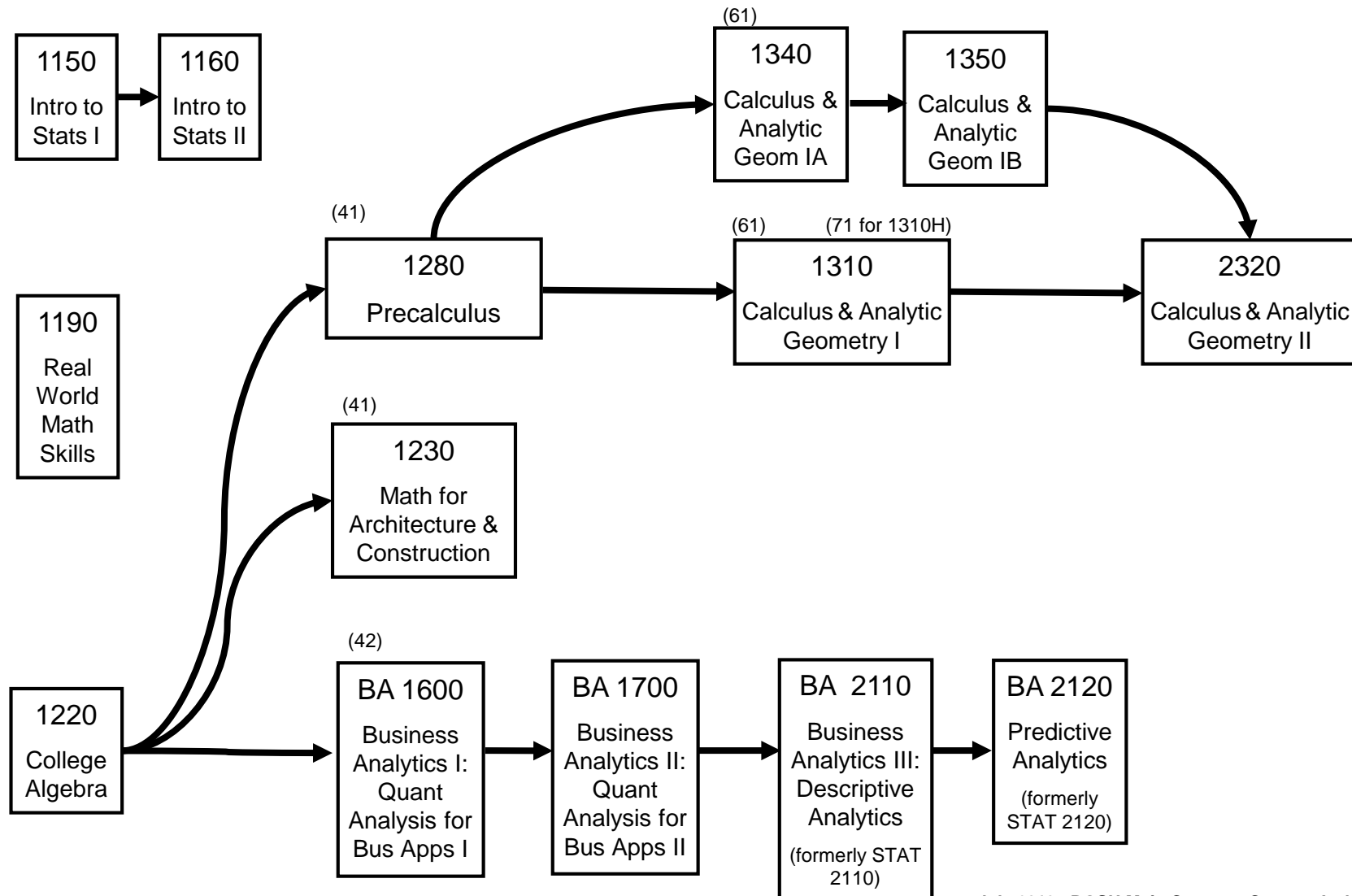# Basic Math Course Map through Algebra and Calculus

This map shows the most common and recommended transitions between courses. A grade of "C" or higher (or "S") is required to move from one course to the next.

Students will start at different places and end in different places in the map depending on their college and intended major. Minimum placement codes are indicated in parentheses at the upper left of each box, where applicable. *See* http://www.bgsu.edu/arts-and-sciences/mathematics-and-statistics/general-math-course-info/explanation-of-placement-codes.html *for additional information about placement codes.*
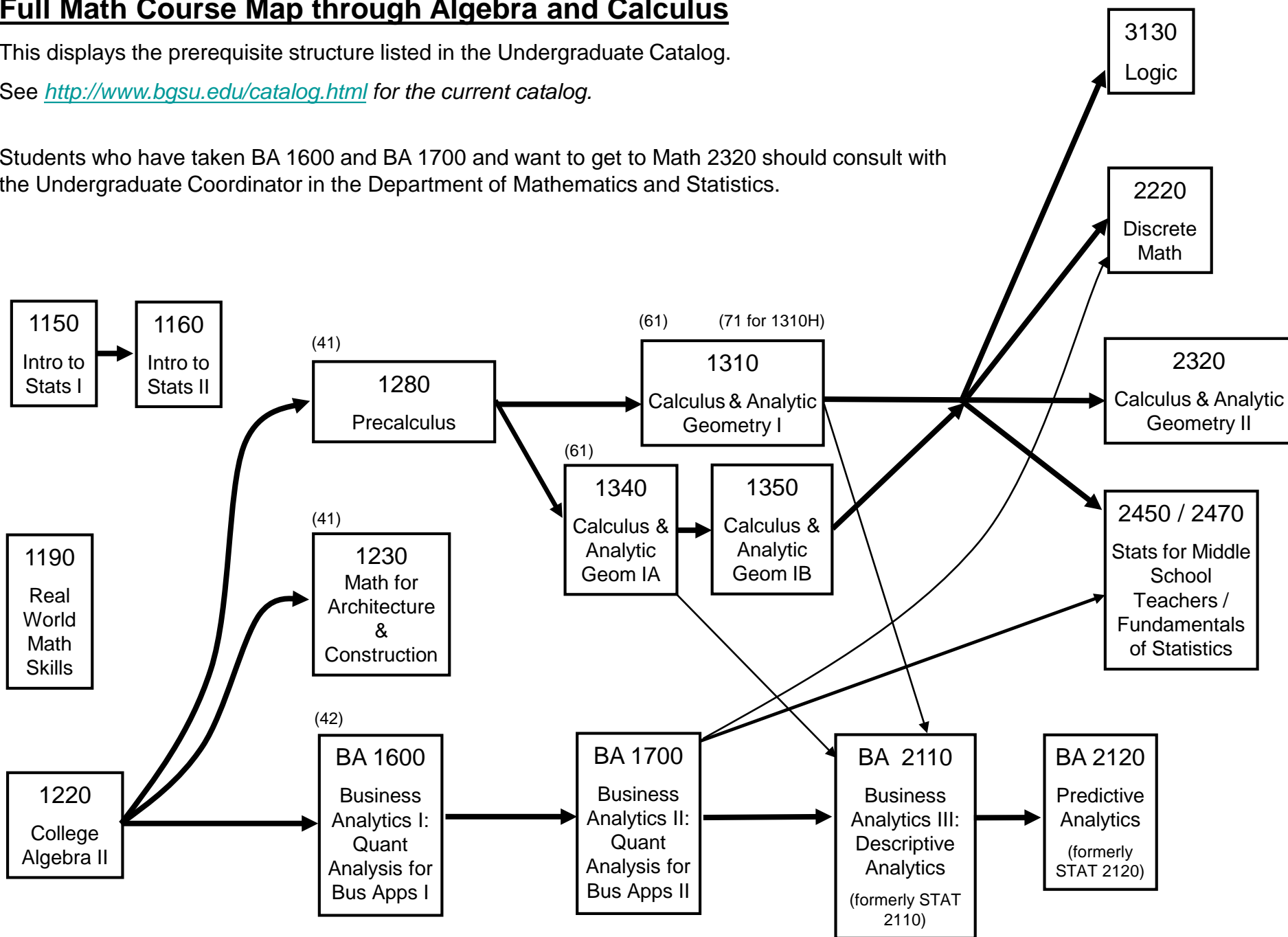
1150 Intro to Stats I → **1160** Intro to Stats II

(61) **1340** Calculus & Analytic Geom IA → **1350** Calculus & Analytic Geom IB

(41) **1280** Precalculus

1190 Real World Math Skills

(61) (71 for 1310H) **1310** Calculus & Analytic Geometry I

2320 Calculus & Analytic Geometry II

(41) **1230** Math for Architecture & Construction

1220 College Algebra

(42) **BA 1600** Business Analytics I: Quant Analysis for Bus Apps I → **BA 1700** Business Analytics II: Quant Analysis for Bus Apps II → **BA 2110** Business Analytics III: Descriptive Analytics (formerly STAT 2110) → **BA 2120** Predictive Analytics (formerly STAT 2120)

Full Math Course Map through Algebra and Calculus

This displays the prerequisite structure listed in the Undergraduate Catalog.

See *http://www.bgsu.edu/catalog.html* for the current catalog.

Students who have taken BA 1600 and BA 1700 and want to get to Math 2320 should consult with the Undergraduate Coordinator in the Department of Mathematics and Statistics.

3130 Logic

2220 Discrete Math

1150 Intro to Stats I

1160 Intro to Stats II

(41)
1280 Precalculus

(61)   (71 for 1310H)
1310 Calculus & Analytic Geometry I

2320 Calculus & Analytic Geometry II

(61)
1340 Calculus & Analytic Geom IA

1350 Calculus & Analytic Geom IB

1190 Real World Math Skills

(41)
1230 Math for Architecture & Construction

2450 / 2470 Stats for Middle School Teachers / Fundamentals of Statistics

(42)
BA 1600 Business Analytics I: Quant Analysis for Bus Apps I

1220 College Algebra II

BA 1700 Business Analytics II: Quant Analysis for Bus Apps II

BA 2110 Business Analytics III: Descriptive Analytics (formerly STAT 2110)

BA 2120 Predictive Analytics (formerly STAT 2120)

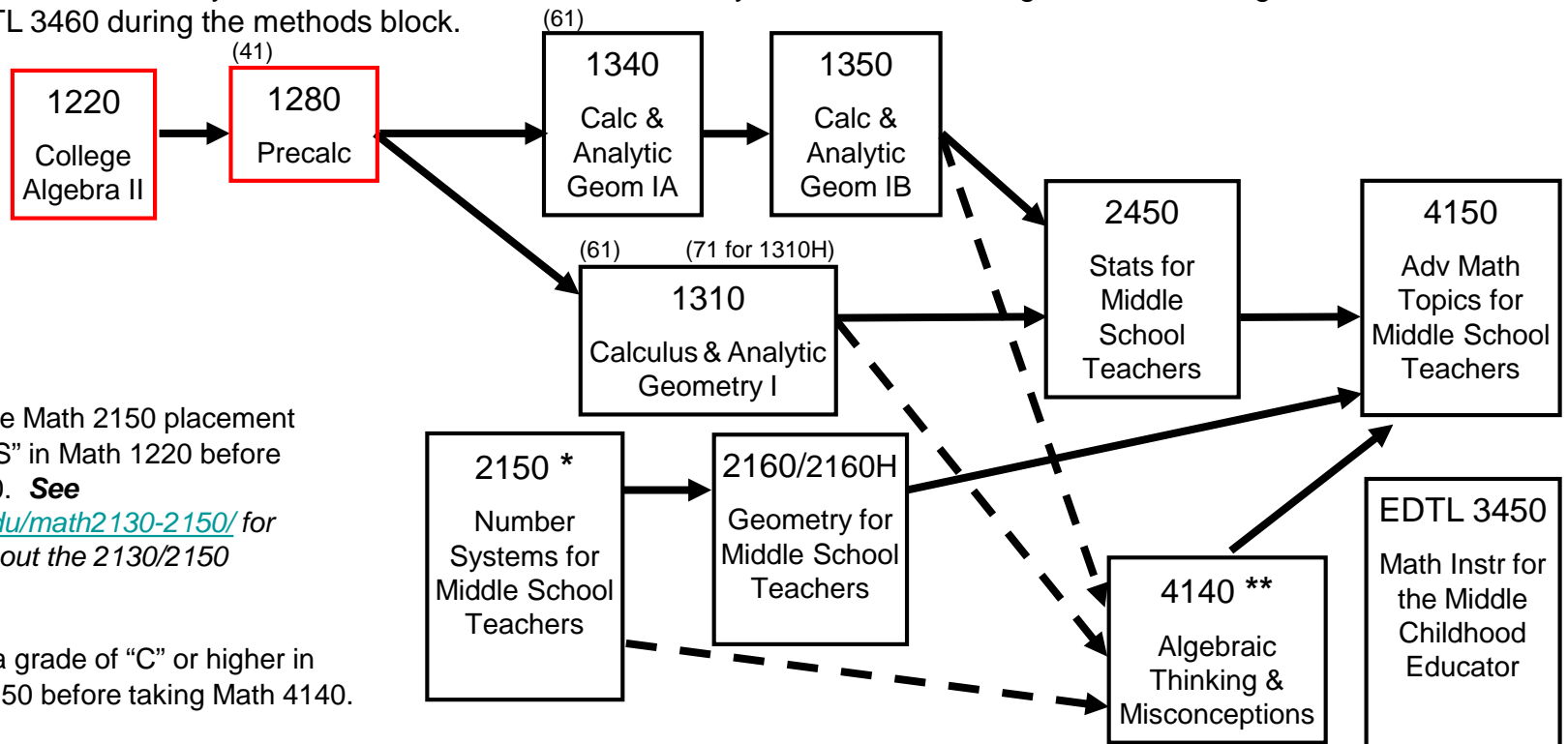# Math Course Map for Middle Childhood Mathematics Specialization

This shows the most common and recommended transitions between courses. A grade of "C" or higher (or "S") is required to move from one course to the next. Students will start at different places in the map, based on their individual math placement.

Minimum placement codes are indicated in parentheses at the upper left of each box. ***See*** http://www.bgsu.edu/arts-and-sciences/mathematics-and-statistics/general-math-course-info/explanation-of-placement-codes.html *for additional information about placement codes.*

Courses outlined in red do not satisfy requirements for this degree (Math 1220, and 1280), but will be necessary for students who need to prepare for Math 1310 or Math 1340. Students must take either Math 1310 or both Math 1340 and 1350. We recommend that students take Math 1340 and 1350 instead of 1310.

Note that Math 2150, 2160, 2450, **and** 4140 must be passed with a C or higher before taking Math 4150. Plan to take Math 4150 before the Methods block. Math 2470 (Fundamentals of Statistics) or 3410 (Principles of Probability and Statistics)   can substitute for Math 2450.

EDTL 3450 counts as three of the 23 hours for the Mathematics Specialization. Ordinarily, this course is taken in the junior year and must be taken prior to methods. It may be taken before, after, or concurrently with Math 4150. A grade of "C" or higher in EDTL 3450 is required to take EDTL 3460 during the methods block.

(41)
1220
College Algebra II

1280
Precalc

(61)
1340
Calc & Analytic Geom IA

1350
Calc & Analytic Geom IB

(61)   (71 for 1310H)
1310
Calculus & Analytic Geometry I

2450
Stats for Middle School Teachers

4150
Adv Math Topics for Middle School Teachers

2150 *
Number Systems for Middle School Teachers

2160/2160H
Geometry for Middle School Teachers

4140 **
Algebraic Thinking & Misconceptions

EDTL 3450
Math Instr for the Middle Childhood Educator

* Students must pass the Math 2150 placement test or earn a grade of "S" in Math 1220 before registering for Math 2150. *See http://www-math.bgsu.edu/math2130-2150/ for additional information about the 2130/2150 placement tests.*

** Students must get a grade of "C" or higher in Math 1310, 1350, or 2150 before taking Math 4140.

July 2019. BGSU Main Campus. Contact Amber Snyder, amber@bgsu.edu