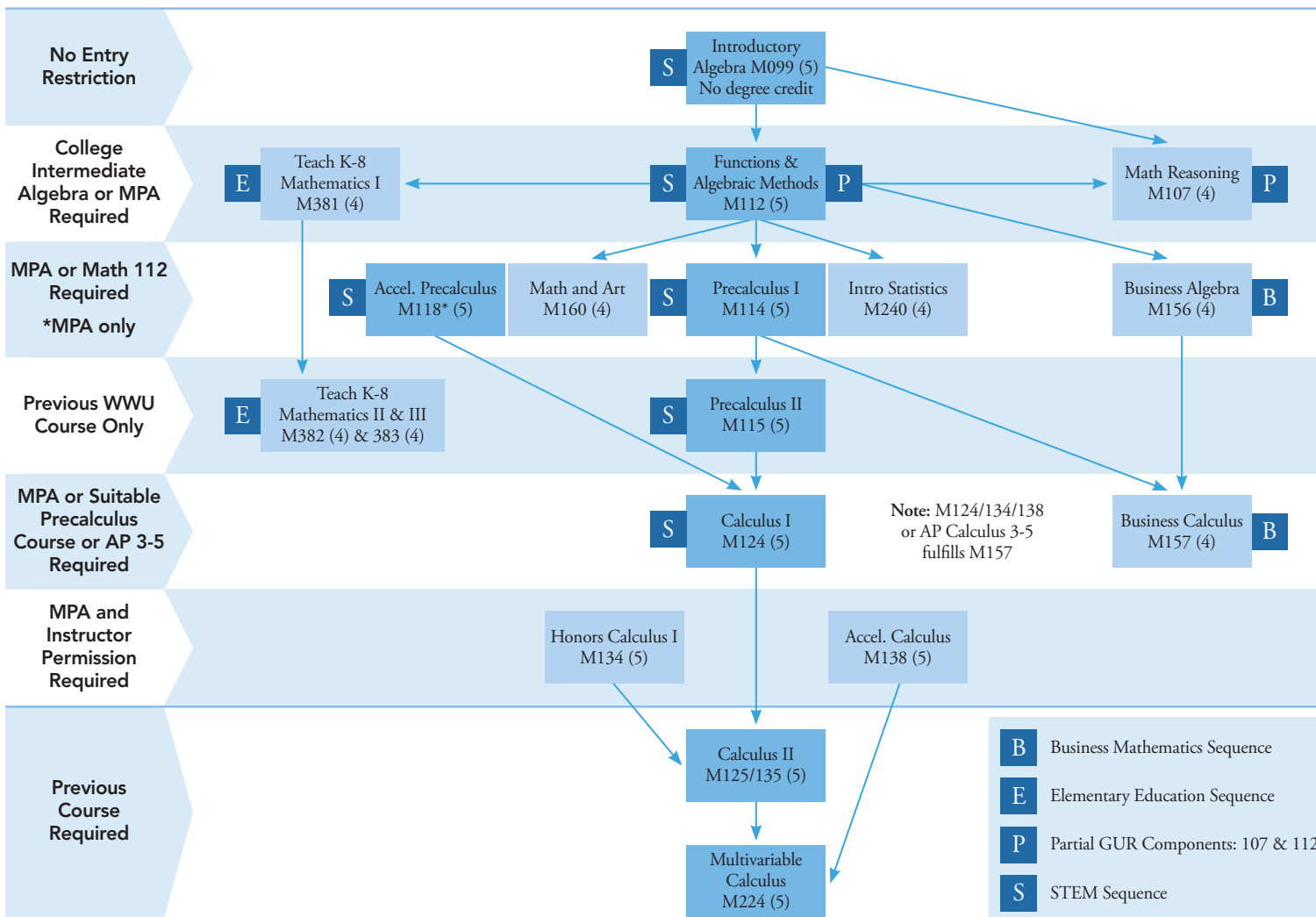


2018-19 CORE MATH FLOWCHART



WHO SHOULD TAKE THE MPA

Students who do not qualify for an exception and need to enroll in a WWU math course.

USED FOR ENTRY INTO

Math 107, 112, 114, 118, 124, 156, 157, 160, 240, 381

Math Placement Assessment (MPA) Exceptions

- MPA not required for Math 099.
- Eligible for Math 107 via Smarter Balanced Assessment Level 3 or 4.
- Eligible for Math 107, 112 or 381 via college credit for Intermediate Algebra with at least C-. Math 381 requires a C and is not available to freshmen.
- Eligible for Math 240 via college credit for Precalculus I (PC1) with at least C+.
- Eligible for Math 157 via college credit for Precalculus I (PC1) with at least C+.
- Eligible for Math 124 via college credit for 2nd/final course in Precalculus (PC2) with at least C+.
- Test is waived for students who scored three or higher on the AP Calculus Exam, but students seeking admission to Math 134 or 138 MUST take the MPA.

Math Placement Eligibility Scores:

Course	MPA Score
Math 099	0-29
Math 107	30
Math 112	35
Math 240	40
Math 381	45
Math 114	55
Math 156	55
Math 160	55
Math 157	65
Math 118	70
Math 124	80-100

Students may use appropriate MPA score to serve as a prerequisite to register for selected classes in the following departments: ASTR, BIOL, CHEM, CSCI, DSCI, ECON, ENRG, ENVS, ESCI, GEOL, HNRS, PHYS, and SCED.
Check Timetable (catalog.wvu.edu) for detailed course prerequisites and MPA eligibility scores.



WWU is an equal opportunity institution.

To request this document in an alternate format, please contact Academic Advising Center at advising@wvu.edu.

Calculus Placement Advice:

- Students with college credit for Precalculus I (PC1) with at least C+ or better can register for Math 157.
- Students with college credit for a 2nd/final Precalculus (PC2) course with C+ or better can register for Math 124.
- Students with college credit for a Calculus course with C- or better can register for Math 125 or higher.
- Students who score 3 on the AP Calculus Exam should take Math 124, if Calculus coursework is required.
- Students with AP Calculus scores of 4 or 5 should talk to a math advisor. Math 224 is not recommended for them.
- Math 124, 134, 138 or AP Calculus Exam with a score of 3, 4 or 5 fulfills Math 157.
- Math 134 (Honors Calculus) is for Honors students and others with high potential. Prospective students must take the MPA and talk with and obtain permission from a math advisor.
- Math 138 (Accelerated Calculus) is for those with 5 in AP Calculus.

A few very strong students will not have taken the AP Calculus Test, but will have adequate backgrounds to skip Math 124 and begin with Math 125 or possibly Math 138. Prospective students should speak with a math advisor.

WWU Course	Prerequisite	QSR Status:	Description:	Notes and serves as a prerequisite for:
Math 099: Introductory Algebra (5 credits for financial aid purposes only)	None	Does not fulfill any portion of the QSR	Gain skills working with algebraic expressions and equations in order to prepare for Math 112.	Preparation for Math 112 or Math 107. Math 112 (partial QSR fulfillment) or Math 107 (partial QSR fulfillment).
Math 107: Mathematical Reasoning and Its Applications (4)	Math 099 or MPA 30 or higher, or Smarter Balanced Assessment, Level 3 or 4	Used for partial fulfillment of the QSR only	Reading quantitative information, reasoning, personal finance, data display and summary, assessing risk; quantitative decisions.	Math 107 does not serve as a prerequisite for any further math courses.
Math 112: Functions & Algebraic Methods (5)	Math 099 MPA 35 or higher	Used for partial fulfillment of the QSR	Pattern recognition and generalization, building mathematical models & problem solving are emphasized.	Math 114, 156, 160, 240, 381 This course must be passed with a C– or higher to serve as a prerequisite. Math 381 requires a C or higher.
Math 114: Precalculus I (5)	Math 112 MPA 55 or higher	QSR in full	Data analysis, functions as mathematical models, functions and their graphs.	Math 115, 157 This course must be passed with a C– or higher to serve as a prerequisite.
Math 115: Precalculus II (5)	Math 114 only	QSR in full	Data analysis, modeling, trigonometry, inverse functions.	Math 124 This course must be passed with a C– or higher to serve as a prerequisite.
Math 118: Accelerated Precalculus (5)	MPA 70 or higher	QSR in full	Functions as mathematical models, functions and their graphs, inverse functions, trigonometry.	Math 124, 157 This course must be passed with a C– or higher to serve as a prerequisite.
Math 124: Calculus and Analytic Geometry I (5)	Math 115 or 118, MPA 80 or higher, or final college course in precalculus (PC2) with C+ or better	QSR in full	Average and instantaneous rates of change, interpretation, computation and application of derivatives to optimization, rates, graphing & antiderivative problems.	Math 125 This course must be passed with a C– or higher to serve as a prerequisite. May be used as a substitute for Math 157.
Math 156: Algebra with Applications to Business & Economics (4)	Math 112 MPA 55 or higher	QSR in full	Equations and inequalities, graphs and functions, exponential and logarithmic functions, business applications.	Math 157 This course must be passed with a C– or higher to serve as a prerequisite.
Math 157: Calculus with Applications to Business & Economics (4)	Math 114 or 118 or 156, MPA 65 or higher, or college precalculus 1 (PC1) course with C+ or better	QSR in full	Limits, rates of change, partial differentiation, graphs and optimization, integration, business applications.	May not be used as a substitute for Math 124. Math 124 or AP Calculus score of 3, 4 or 5 fulfills Math 157. Math 157 does not serve as a prerequisite for further math.
Math 160: Mathematics and Art (4)	Math 112 MPA 55 or higher	QSR in full	Investigation of connections between mathematics, art and design with emphasis on mathematical inquiry and discovery.	Math 160 does not serve as a prerequisite for any further math courses.
Math 240: Introduction to Statistics (4)	Math 112, MPA 40 or higher, or college precalculus 1 (PC1) course with C+ or better	QSR in full	Descriptive statistics, basic ideas of probability, normal distribution, sampling, and more.	Math 240 does not serve as a prerequisite for any further math courses.

Key to codes:

MPA = Math Placement Assessment • GUR = General University Requirements • QSR = Quantitative & Symbolic Reasoning Section of the GUR. See pages 10-13 of the Viking Advisor.