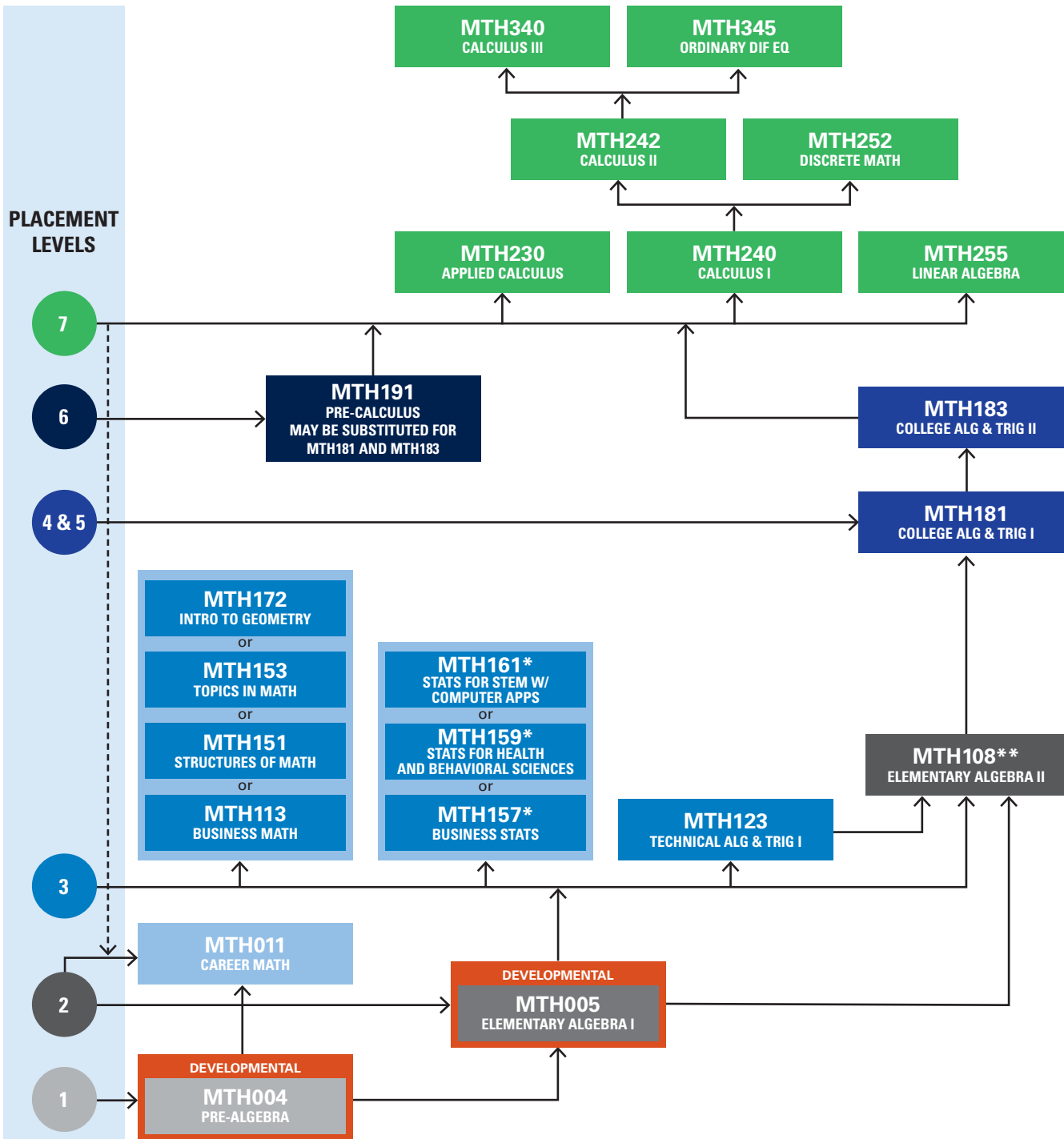


# MATH COURSES FLOW CHART



## Placement Level 7

Required for majors such as Civil Engineering Technology, Electronics & Computer Engineering Technology (BEE/EE), Engineering Design Technology, Information Assurance & Cyber Security, Polymer Engineering Technology, Software Development & Information Management, and Welding & Fabrication Engineering Technology

## Placement Levels 4 & 5

Required for majors such as Bachelor of Architecture, Architecture (AAS), Architecture & Sustainable Design, Automated Manufacturing, Automation Engineering Technology, Aviation Maintenance Technology, Aviation Technology, Biomedical Sciences, Building Automation Engineering Technology, CAD, Construction Management, Electronics & Computer Engineering Technology (RO), Game & Simulation Programming, HVAC (BS), IT: Network & User Support, Machine Tool Technology, Manufacturing Engineering Technology, Metal Fabrication Technology, Network Administration & Engineering Technology, Non-Destructive Testing, Polymer Technology (AAS), Prehospital Medicine, and Welding Technology

## Placement Level 3

Required for majors such as Accounting, Advertising Art, Applied Management, Apprenticeship Technology, Automotive Technology, Automotive Technology Management, Automotive Service Sales & Marketing, Baking & Culinary, Building Construction, Business Administration, Business Essentials, Business Management, Caterpillar Equipment Technology, Collision Repair Technology, Concrete Science Technology, Diesel Truck Technology, Electrical Construction, Electrical Technology, Emergency Management & Homeland Security, Forest Technology, General Studies, Graphic Design, Heavy Equipment Operations, Heavy Equipment Technology, Human Services & Restorative Justice, HVAC (AAS), Individual Studies, Landscape/Plant Production Technology, Mechatronics Technology, all Nursing & Health Sciences majors (excluding Biomedical Sciences and Prehospital Medicine), On-Site Power Generation Technology, Polymer Processing (Certificate), Residential Construction Technology & Management, and Welding (Certificate)

## Placement Level 2

Career Math: Career Math is the minimum requirement for most Certificate Programs including Automotive Restoration, Automotive Service Technician, Aviation Maintenance Technician, Collision Repair Technician, Culinary Applications, Diesel Truck Maintenance Technician, Plumbing, and Professional Baking

For more information on your math placement score or to discuss which course is the most appropriate for you, contact [mathtesting@pct.edu](mailto:mathtesting@pct.edu).

\*Students can receive math credit for only one of the following: MTH157, MTH159, or MTH161  
 \*\*Students can receive open elective credit (OEA) or open exploration elective (OEE) credit for MTH108. MTH108 does not satisfy any MTH requirement regardless of academic major.

# Quick Reference Guide for the Math Department, Business, Arts & Sciences

## School and Department Information

### Fast Facts

- The Math Department is part of the School of Business, Arts & Sciences.
- Math students come from every degree and certificate program throughout Penn College.
- Information about the Math Department may be obtained by contacting:  
Math Department  
School of Business, Arts & Sciences  
Klump Academic Center, Room 102  
Pennsylvania College of Technology  
One College Avenue  
Williamsport, PA 17701  
570.327.4521  
[www.pct.edu/academics/bas/core-courses/mathematics-department](http://www.pct.edu/academics/bas/core-courses/mathematics-department)
- The Math Faculty Award is granted annually to the graduating student with the highest math G.P.A. who meets the criteria of the award.

### Math Minor for a Bachelor's Degree

To receive a Minor in Math from Penn College, a student must complete each of the following courses with a 'C' or better and maintain a grade-point average of 2.5 for those courses taken.

<b>MTH 240</b> Calculus I	(4 credits)
<b>MTH 242</b> Calculus II	(4 credits)
<b>MTH 340</b> Calculus III	(4 credits)
Or	
<b>MTH 346</b> Ordinary Differential Equations	(4 credits)
<b>MMA</b> Math Minor Electives:	(6 credits from below)
<b>MTH 161</b> Statistics for STEM Fields with Computer Applications	(3.5 credits)
<b>MTH 252</b> Discrete Math	(3 credits)
<b>MTH 255</b> Linear Algebra	(3 credits)
<b>MTH 340</b> Calculus III	(4 credits)
<b>MTH 346</b> Ordinary Differential Equations	(4 credits)

More information is available in the College Catalog at [www.pct.edu/catalog](http://www.pct.edu/catalog).

### Faculty Information

The Math Department is composed of faculty members whose degrees and experience extend beyond math and math education to disciplines that include history of math, number theory, physics, computer science, logistics, small business management, applied statistics, accounting, finance, instructional technology, curriculum and instruction, educational administration, international math applications, manufacturing, art, and music.

### Distance Learning Courses

- MTH 005, MTH 113, MTH 123, MTH 151, MTH 153, MTH 157, MTH 159, and MTH 161 are available online at [www.pct.edu/distance](http://www.pct.edu/distance).

### Calculator Information

- A calculator in the TI-84 Plus series is required for every math student at Penn College and will be used in all math classes. Faculty will use this calculator in class for all instruction and demonstration.

## Placement and Course Credit Information

### Recommended Preparations for College Math Courses

- What to take in high school:
  - Four years of college preparation in math courses
  - A strong math course in your senior year of high school
- How to prepare for the placement test:
  - Scan the QR code to take practice tests: Pre-Algebra, Elementary Algebra, and Intermediate Algebra
  - Use the analysis charts to identify weak areas and review them
- How to succeed in a college math course:
  - Be self-motivated and prepared for every class
  - Find peers for group learning, practicing, and studying
  - Build strong relationships with your professors
  - Commit to 2-3 hours of work outside class per class session
  - Attend every class and come with a positive attitude



### What Will Determine Final Math Placement Level?

Our math faculty determines the best placement for students. They take three things into consideration while making their assessment. These include:

- Placement Test Scores
- Transcripts, which provide insight into the following:
  - Completed courses and level of success
  - SAT/ACT scores and state assessment scores
  - The amount of time that has passed since your last math course
  - High school rank
- Student Completed Math Information Form, which highlights your motivation and attitude toward math and test-taking.

The committee will then assign one of the seven placement levels.

### Remember to review for your placement tests so that your score will accurately reflect your current ability!

### Alternative College Credit

Students must earn the required number of math credits for their majors through coursework or through alternative college credit such as transfer credit, advanced placement credit, or credit by exam. Detailed information is available online:

[www.pct.edu/catalog/AlternativeCreditOptions](http://www.pct.edu/catalog/AlternativeCreditOptions)

[www.pct.edu/catalog/CLEPScoringChart](http://www.pct.edu/catalog/CLEPScoringChart)

[www.pct.edu/catalog/AdvancedPlacementScoringChart](http://www.pct.edu/catalog/AdvancedPlacementScoringChart)

### Library Reserve

Textbooks from current courses are available for review on two-hour reserve in the college library.

Placement test registration and practice tests are found at <https://www.pct.edu/math-placement-test>.