

Quick Reference Guide for the Mathematics Department, School of Sciences, Humanities & Visual Communications

School and Department Information

Fast Facts

- The Mathematics Department is part of the School of Sciences, Humanities & Visual Communications.
- Mathematics students come from every degree and certificate program throughout Penn College®.
- Information about the Mathematics Department may be obtained by contacting

Mathematics Department
School of Sciences, Humanities & Visual Communications
Klump Academic Center, Room 102
Pennsylvania College of Technology
One College Avenue
Williamsport, PA 17701
(570) 327-4521
www.pct.edu/schools/shvc/coreCourses/math.asp

- The Mathematics Faculty Award is granted annually to the graduating student with the highest mathematics GPA who meets the criteria of the award.

Mathematics Minor for a Bachelor's Degree

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

MTH 240	Calculus I	(4 credits)
MTH 242	Calculus II	(4 credits)
MTH 340	Calculus III	(4 credits)
Or		
MTH 346	Ordinary Differential Equations	(4 credits)
MMA	Mathematics Minor Electives: (7 credits from below)	
MTH 160	Elementary Statistics with Computer Applications	(4 credits)
MTH 210	Statistical Methods with Computer Applications	(3 credits)
MTH 252	Discrete Mathematics	(3 credits)
MTH 255	Linear Algebra	(3 credits)
MTH 340	Calculus III	(4 credits)
MTH 346	Ordinary Differential Equations	(4 credits)

More information is available in the College Catalog at www.pct.edu/catalog.

Faculty Information

The Mathematics Department is composed of faculty members whose degrees and experience extend beyond mathematics and mathematics education to disciplines that include Physics, Computer Science, Logistics, Economics, Small Business Management, Operations Research, Applied Statistics, Accounting, Finance, Actuarial Science, Instructional Technology, Curriculum and Instruction, Educational Administration, Political Science, International Mathematics Applications, Construction, and Manufacturing.

Distance Learning Courses

- MTH 113, MTH 151, MTH 153, and MTH 160 are available online. 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 mathematics classes. Faculty will use this calculator in class for all instruction and demonstration.

Placement and Course Credit Information

Recommended Preparations for College Mathematics Courses

- What to take in high school:
 - four years of college preparation in mathematics courses
 - a strong mathematics course senior year of high school
- How to prepare for the placement exams:
 - register for the **practice math placement exams** - registration takes 24 hours
www.pct.edu/academicervices/PreparingforTestDay.htm
 - take the practice exams: Pre-Algebra, Elementary Algebra, and Intermediate Algebra
 - follow prompts to review questions missed and watch the instructional videos
 - use the **analysis charts** to identify weak areas and review them
- How to succeed in a college mathematics 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 Mathematics Placement Level?

A committee of mathematics faculty will consider the math placement that is appropriate for you by reviewing a variety of measures including:

- scores on your mathematics and reading placement exams;
- high school math courses you have completed and your level of success in those classes;
- your SAT and ACT scores, if available;
- your state standardized test scores, if available;
- the amount of time that has passed since you completed your last math course;
- your motivation and attitude, as determined by an affective survey; and
- your high school class rank.

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

www.pct.edu/schools/shvc/coreCourses/mathFAQ.htm

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

Alternate College Credit

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

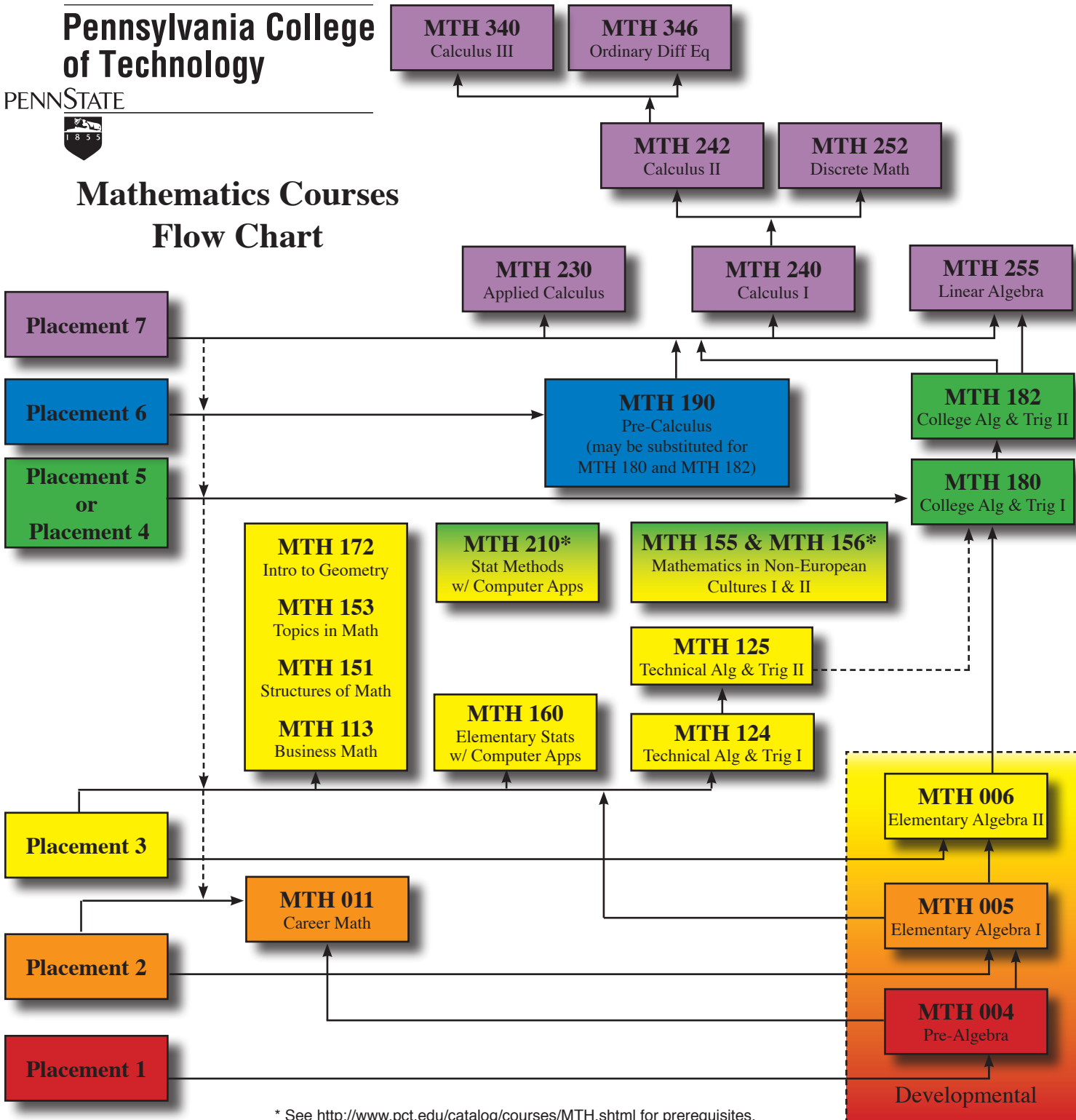
www.pct.edu/catalog/AlternativeCreditOptions.htm
www.pct.edu/catalog/CLEPScoringChart.htm
www.pct.edu/catalog/AdvancedPlacementScoringChart.htm

Library Reserve

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



Mathematics Courses Flow Chart



* See <http://www.pct.edu/catalog/courses/MTH.shtml> for prerequisites.

Required for majors such as Civil Engineering Technology (BS), Construction Management, Electronics & Computer Engineering Technology (BEE/EE), Engineering Design Technology, Game and Simulation Programming, Information Assurance and Cyber Security, Plastics & Polymer Engineering Technology (BS)

Required for majors such as Accounting (BS), Applied Innovation, Applied Technology Studies, Architectural Technology, Automated Manufacturing, Aviation, Building Automation, Building Science and Sustainable Design, Business Administration, CAD, Civil Engineering Technology (AAS), Electrical Technology, Electromechanical Maintenance Technology, Electronics & Computer Engineering Technology (RO), Entrepreneurial Innovation, HVAC (BS), Industrial Design, Information Technology, Machine Tool Technology, Manufacturing Engineering Technology, Mechatronics Engineering Technology, On Site Power Generation, Physician Assistant Studies, Plastics and Polymer Technology (AAS), Residential Construction Technology & Management, Software Development & Information Management, Surveying Technology, Welding Technology, and Welding & Fabrication Engineering Technology

Required for majors such as Accounting (AAS), Advertising Art, Applied Management, Automotive Technology, Automotive Technology Management, Brewing and Fermentation Science, Building Construction, Business Management, Collision Repair Technology, Concrete Science Technology, Diesel Technology, Early Childhood, Electrical Occupations (cert.), Emergency Management, Forest Technology, General Studies, Graphic Design, **most** Health Sciences, Heavy Construction, **all** Hospitality, Human Services, HVAC (AAS), Individual Studies, Landscape/Horticulture Technology, Machinist General (cert.), Metal Fabrication Technology, Studio Arts, Web & Interactive Media, and Welding (cert.)

Career Mathematics is the minimum requirement for **most** Certificate Programs including Automotive Service Technician, Aviation Maintenance, Collision Repair Technician, Diesel Technician, Paramedic Technician, Plumbing, and Residential Builder

All majors require one or more Mathematics courses at or above a specific level. Some majors require Elementary Statistics as well as upper level course(s). The information is accurate for the 2018-2019 academic year. **Please refer to the online College Catalog for all current requirements.**