

# Quantitative Methods (QM)

## **QM 75: Introduction to Quantitative Methods**

QM 75 is intended for Career Technical Education students. It can be used to fulfill some certificate requirements, and also can be used as a preparation for select transfer-level MATH or QM courses needed for an associate degree, in AMT or CULN. Course topics include ratio and percent, unit conversion, graphs, data interpretation, basic algebra, solving linear equations, and working with formulas with special emphasis on pattern recognition and problem solving. Cross-listed as MATH 75. A student may not earn credit for both QM 75 and MATH 75.

Credits: 3

Recommended Prep: English and math skills at the High School Common Core Level.

## **QM 78: Quantitative Methods Companion**

QM 78 provides students concurrently enrolled in QM 107C with Just-In-Time support with special emphasis on pattern recognition and problem solving. Course topics are tailored to the QM 107C topics and may include ratio and percent, unit conversion, graphs, data interpretation, basic algebra, solving linear equations, and working with formulas.

Credits: 1

Co-Requisites: QM 107C

Recommended Prep: English and math skills at the high school Common Core level.

## **QM 107C: Quantitative Methods in Automotive Tech**

QM 107C covers the quantitative methods, reasoning, and applications necessary to perform tasks and solve problems encountered by automotive technologists. The quantitative methods covered include computational operations; geometry and measurement; ratio, proportion, and percent; statistics and probability; and trigonometry. Applications include major automotive systems such as engines, drive train, chassis, and suspension. QM 107C is designed for Automotive Technology degrees and certificates but does not satisfy the Foundation Symbolic Reasoning (FS) core requirement of an Associate in Arts degree.

Credits: 3

Prerequisites: Any one of the following within the past two years: C or better (or CR) in MATH 22, OR C or better (or CR) in MATH 75, OR appropriate placement, OR concurrent enrollment in QM 78, OR consent of instructor.

Recommended Prep: English and math skills at the high school Common Core level.