**Course Description**

**Mathematics Essentials 11**

**(graduation, 1 credit)** Course Code:

*Prerequisite: Successful completion of Mathematics Essentials 10, Mathematics Foundations 10.*

This course will be presented over 110 hours. The typical pathway for students who successfully complete Mathematics Essentials 10 is Mathematics Essentials 11. These two courses will provide successful students with two mathematics credits as required for graduation.

Students in Mathematics Essentials 11 will explore the following subject areas:

**Mental Math**

* multiplication and division facts
* multiplying and dividing by 10, 100, and 1000
* estimation
* common percents

**Data Management**

* reading and interpreting graphs
* constructing graphs using technology
* misleading graphs
* collecting, displaying and analyzing data
* drawing conclusions and making predictions
* media

Housing

* costs of housing
* processes of renting

Banking

* credit cards
* costs of borrowing money
* investments
* effects of compound interest
* risk vs. rewards
* amortization tables

Measurement

* perimeter and area
* Pythagorean theorem
* scales and models
* volume and surface area

Taking a Trip

* expenses related to taking a trip
* reading a map and determining distances