Mountlake Terrace STEM Program
Exploratory Diploma Guide

The Mountlake Terrace STEM Program's Exploratory Diploma offers a customizable four-year program to recognize students who have taken multiple STEM classes in addition to studying math and science beyond the minimum graduation requirements. The Exploratory Diploma does not require students to take a specific sequence of STEM Classes. Rather, this allows for exploration across fields, and promotes the integration of those disciplines in a final project.

Directions

To receive a STEM Program Exploratory Diploma, students should begin their coursework with Introduction to Engineering Design, take 2.0cr of STEM electives, 3.0cr of Math, 3.0cr of science, one additional math or science class, and finish with STEM English 12. If these credits are completed with a 70% (C-) or better, then students will earn a STEM Exploratory Diploma.

Take Both Foundations of STEM (2.0cr)

☐ **Introduction to Engineering Design** (1.0cr)
Students learn the basics of Design, project management, communication and other skills necessary to function in the 21st century workplace

☐ **STEM English 12** (1.0cr)
Students spend the year proposing, developing, and presenting a capstone project for the International Science and Engineering Fair

Pick 2 STEM electives (2.0cr)

- ☐ Principles of Engineering (1.0cr)
- ☐ Aerospace Engineering (1.0cr)
- ☐ Manufacturing Innovations (1.0cr)
- ☐ AP Computer Science Principles (1.0cr)
- ☐ AP Computer Science A (1.0cr)
- ☐ Biotechnology (1.0cr)

Pick 3 Math (3.0cr) (Take at MTHS)

- ☐ Algebra 1 (1.0cr)
- ☐ Geometry (1.0cr)
- ☐ Honors Geometry (1.0cr)
- ☐ Algebra 2 (1.0cr)
- ☐ Honors Algebra 2 (1.0cr)
- ☐ Pre-Calculus (1.0cr)
- ☐ CHS Pre-Calculus (1.0cr)
- ☐ CHS Calculus (1.0cr)
- ☐ AP Calculus AB (1.0cr)
- ☐ AP Calculus BC (1.0cr)
- ☐ AP Statistics (1.0cr)

Pick 3 Science (3.0cr) (Take at MTHS)

- ☐ Integrated Physical Science (1.0cr)
- ☐ Food Science (1.0cr)
- ☐ Biology (1.0cr)
- ☐ Honors Biology (1.0cr)
- ☐ Earth Space Science (1.0cr)
- ☐ Zoology (0.5cr)
- ☐ AP Biology (1.0cr)
- ☐ Chemistry (1.0cr)
- ☐ AP Chemistry (1.0cr)
- ☐ Astronomy (0.5)
- ☐ Human Anatomy & Physiology (1.0cr)
- ☐ Physics (1.0cr)
- ☐ AP Physics (1.0cr)

+1.0 Additional credit in either Math or Science

☐ Comparable math or science alternative

Class _____

Instructor Initials _____