## TWO-YEAR PROGRAM COMPLETION PLAN

## **Department of Physics & Earth Science**

--This program establishes a freshman and sophomore curriculum leading to a B.S. degree in an engineering discipline at the University of Massachusetts-Boston, University of Massachusetts-Lowell, or the Massachusetts Maritime Academy. A typical student accepted into this program will study for two years at Framingham State and complete the program at one of the universities, earning the degree from that institution.

Recommended Schedule for Bachelor of Science: Major in Pre-Engineering (UPEN):

Year One: Fall Semester	Year One: Spring Semester
MATH 219 Calculus I	CHEM 108 Principles of Chemistry & Quantitative Analysis with Lab
CHEM 107 Principles of Chemistry with Lab	CSCI 130 Computer Science I Using Java
EGNG 101 Introduction to Engineering	MATH 220 Calculus II
ENWR 110 Composition II	ECON 102 Principles of Microeconomics

Year Two: Fall Semester	Year Two: Spring Semester
Literature Course	CSCI 215 Computer Science II Using Java
MATH 221 Calculus III	ENGR 201 Engineering Mechanics
PHYS 211 Principles of Physics I	PHYS 212 Principles of Physics II
Open Elective	Open Elective

--Students who do not place into the Calculus I course are required to take additional mathematics prior to taking Calculus I.

-- Suggested open electives include:

BIOL 160 Introduction to Organismal Biology BIOL 161 Introduction to Cell and Molecular Biology CHEM 207 Organic Chemistry I CHEM 208 Organic Chemistry II ECON 101 Principles of Macroeconomics MATH 222 Differential Equations