


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 |
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| MATH 219 Calculus I | CHEM 108 Principles of Chemistry and Quantitative Analysis |
| CHEM 107 Principles of Chemistry | CSCI 130 Computer Science I Using Java |
| EGNG 101 Introduction to Engineering | MATH 220 Calculus II |
| ENGL 110 Expository Writing | ECON 102 Principles of Microeconomics |

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