**LEAP Program Plan          Mechanical Engineering**

**Student:_____          BUID# _____**

Course pre-requisites are listed in parentheses. Other required courses may be designated as part of the advising process. All students must present evidence of previous equivalent coursework or complete the following:

| Core Courses | | | |
|---|---|---|---|
| Taken | Needs | # | Title |
| | | ENG EK 103 | Computational Linear Algebra (3cr) |
| | | ENG ME 357 | Introduction to Computer Aided Design (2cr.) |
| | | ENG EK 121 | Introduction to Programming & Data Science |
| | | ENG EK 122 | Programming for Engineers |
| | | ENG EK 301 | Engineering Mechanics I (PY211 and EK125; co-req. MA 225) |
| | | ENG EK 307 | Electric Circuit Theory |
| | | CAS MA 124 | Calculus II (MA 123) |
| | | CAS MA 225 | Multivariate Calculus (MA 124) |
| | | CAS MA 226 | Differential Equations (MA 225) |
| | | CAS PY 211 | General Physics I (co-req. MA 124) |
| | | ENG ME 303 | Fluid Mechanics (EK 301) |
| | | ENG ME 304 | Energy and Thermodynamics (PY 211, co-req. MA 225) |
| | | ENG ME 305 | Mechanics of Materials (EK 301) |
| **Choose one of the following** | | | |
| | | ENG ME 302 | Engineering Mechanics II (EK 301) |
| | | ENG ME 309 | Structural Mechanics (ME 305) |
| | | ENG ME 360 | Product Design (ME 359) |
| | | ENG ME 419 | Heat Transfer (ME 303, ME 304, MA 226) |

Minimum # of courses needed for LEAP foundation: _____
Comments:

Advisor Initials:_____          Date: _____

**LEAP Program Plan        Mechanical Engineering**

**Student:_____        BUID# _____**

**Foundation Planning Sheet**
**Enter the course numbers for each LEAP foundation Semester/Year.**

| Semester        Year | Semester        Year | Semester        Year |
|---|---|---|
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
| Semester        Year | Semester        Year | Semester        Year |
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