3/25/2015
Systems Engineering   Student:_____   ID#:_____

All students must present evidence of previous equivalent coursework or complete the following:
Other required courses may be designated as part of the advising process.

      Taken Needs
Core Courses:
  1.   ☐   ☐   ENG EK 127 Introduction to Engineering Computation
  2.   ☐   ☐   CAS MA 124 Calculus II (MA 123)
  3.   ☐   ☐   CAS MA 225 Multivariate Calculus (MA 124)
  4.   ☐   ☐   CAS MA 226 Differential Equations (MA 225)
  5.   ☐   ☐   ENG EK 102 Introduction to Linear Algebra for Engineers (2 cr.)
 OR ☐   ☐   CAS MA 142 Linear Algebra (2 cr.) (Co-req. MA 124)
  6.   ☐   ☐   CAS MA 193 Discrete Mathematics for Engineering (2 cr.)
☐ 7. Select one (1) course from the following list:
    ENG EC 381   Probability Theory in Electrical and Computer Engineering (MA 225)
    CAS MA 381   Elementary Probability (MA 225 or MA 230)
    ENG EK 500   Probability with Statistical Applications (MA 226)*
☐ 8. Select one (1) course from the following list:
    ENG EC 401   Signals and Systems (MA 226, EK 307)
    ENG BE 401   Signals and Systems in Biomedical Engineering (BE 200, MA 226, EK 307)
☐ 9. Select one (1) course from the following list:
    ENG ME 411   Operations Research (ME 366 or MA 381), (EK 102 or MA 142)
    ENG EC 330   Applied Algorithms for Engineers (EC 327 and MA 193)
    CAS CS 330   Introduction to Analysis of Algorithms (CS 112, CS 131; coreq. MA 242 or CS 132;
                       MA 294 or CS 235)
☐ 10. Select three (3) courses from the following list:
    ENG BE 402   Control Systems in Biomedical Engineering (BE 401) **or**
    ENG EC 402   Control Systems (MA 226, EK 307, EC 401) **or**
    ENG ME 404   Dynamics and Control of Mechanical Systems (ME 302 or consent of instructor)
    ENG EC 415   Communication Systems (EC 401)
    ENG EC 441   Introduction to Computer Networking (EC 381, EC 401)
    ENG ME 420   Supply Chain Engineering (ME 345 or consent of instructor)
    CAS CS 455   Computer Networks (CS 112, CAS CS350 or consent of instructor)

Note: Only one of ENG EC 402, ENG ME 404, or ENG BE 402 is acceptable. Some choices of courses listed above may
      require additional prerequisite coursework.
*Courses used to satisfy LEAP Phase I requirements may not be used to satisfy MS/MEng degree requirements.
Minimum # of courses needed for Phase I: _____   Initials: _____   Date: _____
Comments:

Phase I Planning Sheet:

Semester _____   Year _____   Semester _____   Year _____   Semester _____   Year _____

_____   _____   _____

_____   _____   _____

_____   _____   _____

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Semester _____   Year _____   Semester _____   Year _____   Semester _____   Year _____

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