13 credits are required.

1. Approved Math & Science: Choose a minimum of **5 credits** from the following:
   
   Any MA course.  Note: (MA1032 will count only if taken before Differential Calculus MA1150, MA1151, MA1160, MA1161)
   Any BL course except BL3990
   Any CH course numbered 1100 or above
   Any PH course except PH2230
   The following GE courses: GE2000, GE2050, GE2200, GE2300, GE2310, GE2640, GE2900, GE3100, GE3200, GE3300, GE3320, GE3600, GE3900, GE3920, GE4170, GE4500, GE4640, GE4931, GE4932, GE4933
   One credit of MY 2100

2. Choose remaining approved electives from above or the following:
   
   Any Math or Science elective listed above.
   Any BA course except BA1700 and BA2100
   Any CS course except CS1000
   Any EC course
   Any ENG course except ENG3000 and ENG3100
   Any BE, CE, CM except CM3410, GE, MEEM, MG, MY course
   Any EE course (maximum of 4 credits)
   UN4000 Remote Sensing Seminar, UN4500 Technological Entrepreneurship
   UN3002 or UN3003 Co-op (6 credits maximum).

**Suggestions:**

- **CS 1129** Intro to Comp. Sci. II in C++  *Recommended for EE.  Double majors do not take CS1129.*
- **EC 3400** Economic Decision Analysis
- **ENG 2120** Statics and Strength of Materials*  *If you plan to take the Fundamentals of Engineering (FE) Exam during your senior year, it would be beneficial for you to take these courses.
- **MEEM 2110** Statics*
- **MEEM 2200** Thermodynamics *
- **MEEM 2700** Dynamics
- **MEEM 3210** Fluid Mechanics * (has pre-requisites)
- **MY 2100** Intro to Material Science & Engineering
- **MY 3700** Electronic, Optical & Magnetic Properties of Materials

**Photonics Electives:**

- **EE4252** Two Dimensional Signal and Image Processing
- **EE4253** Real Time Signal Processing
- **EE4256** Fourier Optics
- **EE4290** Optical Communication
- **MY3700** Electronic, Optical, and Magnetic Properties of Materials
- **MY4710** Photonics and Micromechanical Materials and Devices
- **EE4257** Digital Image Processing

*** EE Electives 15 cr: if you began Fall 2006 or after, you must take one of these courses for EE Elective credit: EE3175, EE4250, EE4256, EE4257, EE4272, EE4290. Check pre-requisites.