**Mechanical Engineering B.S. Curriculum (Effective Spring 2013)**

**First Year/Freshman**
- Phys. Ed. 1
- Phys. Ed. 2
- First-year writing seminar 1
- First-year writing seminar 2
- ENGRI 1xx0 Intro to ...

**Second Year/Sophomore**
- Liberal Studies
- Liberal Studies
- Engr 2110 Thermo.
- MAE 2250 Mech. Synthesis
- MAE 2210 Mech. Prop. & Aero. Structures (Matlab required)
- MAE 2120 Mech. Prop. & Material Selc. (Matlab required)
- ENGRD 2020 Statics & Mech. of Solids
- MAE 2030 Dynamics
- Math 1910 Calc. for Engineers
- Math 1920 MultiVar Calc. For Engineers
- Math 2930 Diff. Equations
- Math 2940 Linear Algebra
- PHYS 1112 Phys 1 - Mechanics & Heat
- PHYS 2213 Phys 2 - Electromagnetism

**Junior Standing**
- Liberal Studies
- Liberal Studies
- MAE 3230 Fluid Mech.
- MAE 3250 Analysis of Mech. & Aero. Structures
- MAE 3780 Mechatronics or ECE 2100 or Phys 3360
- MAE 3270 Mech. Prop. & Perform Lab
- MAE 3240 Heat Transfer
- MAE 3272 Mech. Prop. & Perform Lab
- MAE 3260 System Dynamics

**Senior Standing**
- Liberal Studies
- Liberal Studies
- MAE 4272 Fluid/Therm. Lab
- MAE 4300 Prof. Practice in ME
- MAE 4XX1 Sr. Design
- MAE 4XX1 Sr. Design
- MAE 4XX1 Sr. Design
- Applying for early admit M.Eng. ??

**Junior or Senior Standing**
- Math Elective
- Technical Elective
- Major-Approved Elective 1
- Major-Approved Elective 2
- Major-Approved Elective 1
- Major-Approved Elective 2
- Phys 2214 Phys 3 – Oscill., Waves & Quant. Physics
- Advisor-Approved Elective 1
- Advisor-Approved Elective 2
- Advisor-Approved Elective 1
- Advisor-Approved Elective 2

**Notes:**
- *Students entering prior to Fall 2012:* If CS 1110 was taken, CS 1132 will be required. If CS 1112 was taken, CS 1130 will be required. A transition CS course is not required for students entering Fall 2012 and beyond.