This is a recommended sequence for completing the ME degree requirements. Students who want to take more or less than the designated number of credits per semester must modify the flow chart. Courses can be relocated when necessary or convenient, heeding cited prerequisites. Summer sessions offer some additional opportunities for course completion.

If you need assistance, see your advisor or visit the Student Service Office (3182 ME) to meet with a mechanical engineering advisor. Use your DARS to check your progress toward degree completion.

Mechanical Engineering's web site: http://www.engr.wisc.edu/me/

Letter notes are explained on page 2 of the PDF flowchart.

First Semester:
Math 221-Calculus, 5 credits, prerequisites: Advanced math competency-algebra & suitable placement scores; or Math 112 & Advanced math competency-trigonometry & suitable placement scores; or Math 113; or Math 114.
InterEgr 101-Contemporary Issues in Engineering, 2 credits, see B OR InterEgr 160-Introduction to Engineering, 3 credits, see B.
Chem 103-General Chemistry, 4 credits, see Option A1, AND Chem 104-Advanced General Chemistry, 5 credits, See Option A1, during the Second Semester; OR Chem 109-Advanced General Chemistry, 5 credits, See Option A2.
Elective-Liberal, 3 credits, see D.

Second Semester:
Math 222-Calculus, 5 credits, prerequisite: Math 221.
Stat 224-Statistics, 3 credits, prerequisite: Math 221.
EMA 201-Statics, 3 credits, prerequisite: Math 222.
EPD 155-Technical Communication, 2 credits. Satisfies Communications A, see F.
Chem 104-General Chemistry, 5 credits, see Option A1, depending on your choice in First Semester.

Third Semester:
Math 234-Calculus, 3 credits, prerequisite: Math 222.
Math 320-Linear Algebra, Differential Equations, 3 credits, prerequisite: Math 222.
ME 240-Dynamics, 3 credits, prerequisites: Math 222 and EMA 201.
ME 231-Graphics, 2 credits.
CS 301 or 302-Introduction to (Data) Programming, 3 credits.

Fourth Semester:
ME 361-Thermodynamics, 3 credits, prerequisites: Math 234, CS 302, ME 240.
ME 307-Materials Lab, 1 credit, taken concurrently with ME 306.
MS&E 350-Material Science, 3 credits, prerequisite: First and Second Semester Chemistry OR Advanced General Chemistry.
Phys 202-General Physics, 5 credits, prerequisite: ME 240.
Elective-Liberal, 3 credits, see D.

Fifth Semester:
ME 363-Fluids, 3 credits, prerequisites: ME 361, CS302, Math 320.
ME 331-Geometric Modeling, 3 credits, prerequisites: CS 302, EMA 201, ME 240, ME 231, Math 320.
EPD 397-Technical Writing, 3 credits, prerequisite: Jr standing.
ME 340-Dynamic Systems, 3 credits, prerequisites: CS302, ME 240, Math 320;
Elective-Liberal, 0-3 credits, see D.

Sixth Semester:
ME 364-Heat Transfer, 3 credits, prerequisite: ME 363.
ME 368-Measurements Laboratory, 4 credits, prerequisites: ECE 376, ME 361, ME 340.
ECE 377-Power Conversion, 3 credits, prerequisite: Math 234, Physics 202 , ECE 376.
ME 313-Manufacturing Processes, 3 credits, prerequisite: MS&E 350.
Elective-Liberal, 3 credits, see D.

Seventh Semester:
ME 351-Interdisciplinary Experimental Design I, 3 credits, see H, AND ME 352-Interdisciplinary Experimental Design II, 3 credits, see H, during Eighth Semester.
ME 314-Manufacturing Fundamentals, 3 credits, prerequisite: ME 313, Stats 224.
Technical elective 6-9 credits (6 credits if doing the 351-2 capstone, 9 credits if doing 349 capstone), see E, H.

Eighth Semester:
ME 370-Energy Laboratory, 3 credits, prerequisites: ME 368, ME 363, EPD 397.
ME 349-Design Projects, 3 credits, see H, OR ME 352-Interdisciplinary Experimental Design II, 3 credits, prerequisites: ME 364, ME 342, ME 314. ME 351 if ME 351 choice in Seventh Semester.
Elective-ME Technical, 3 credits.
Math/Science Elective, 3 credits, see J.
Elective-Liberal, 3 credits, see D.