Michigan State University
Department of Mechanical Engineering

COMPUTATIONAL DESIGN CONCENTRATION
(12 Credits)

A mechanical engineering degree with the computational design concentration signifies the interests and expertise of students in computational techniques and approaches for the design and optimization of structural, thermal and fluid systems in engineering applications. To complete a Bachelor of Science degree in mechanical engineering with a computational design concentration, students must complete the requirements for the B.S. degree, including:

- ME 416 Computer Assisted Design of Thermal Systems 3 credits (Fall Only)
- ME 433 Computational Fluid Dynamics 3 credits (Spring Only)
- ME 465 Computer Aided Optimal Design 3 credits (Spring Only)
- ME 475 Computer Aided Design of Structures 3 credits (Fall Only)

CREDIT DISTRIBUTION: The 12 credits in the concentration will be applied to the Senior Elective requirement (including the “design intensive” course component). Completion of the concentration will be noted on the final transcript.

The asterisk (*) signifies that the course is design intensive.