COMPUTATIONAL DESIGN CONCENTRATION
(12 Credits)

IMPORTANT: 1) For the latest and most accurate version of this concentration, please refer to the Dept. of Mechanical Engineering website. Earlier versions are invalid and will not be honored. 2) You MUST meet with the ME junior/senior advisor and arrange for the concentration code to be added to your record PRIOR to applying for graduation. This ensures that the concentration statement will appear on your final transcript.

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 ¹                                  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.

¹ME 465 has been canceled for Spring 2024. Either ME 456 or ECE 448 can be used as a substitute.