

BIOMEDE 350: Introduction to Biomedical Engineering Design

Tentative schedule for Winter 2026 semester, *updated 2/10/2026*

Time: 2:30-4:30 pm Monday/Wednesday Location: Beyster 1620

| Day | Date | Lecture Topics, Computing Tutorials, and Activities | Assigned | Due (at Midnight) |
|-----|-----------|--|--|---|
| Mon | | | | |
| Wed | 1/7/2026 | Intro to Design & FDA, Course/Project Overview, Teamwork | Team Reflection CATME | CATME (1/9 at midnight) Team Reflection (1/13 at midnight) |
| Mon | 1/12/2026 | User Needs & Problem Definition, Library Tools | User Needs draft In class: Reference hunt | |
| Wed | 1/14/2026 | Team Charter & Project Management | In class: Team Charter | |
| Mon | 1/19/2026 | <i>Martin Luther King Jr. Day</i> | | |
| Wed | 1/21/2026 | Design Inputs + PWT | Design Inputs draft | User Needs draft |
| Mon | 1/26/2026 | Inputs PWT | | |
| Wed | 1/28/2026 | Brainstorming, Concept Evaluation + PWT | | Design Inputs draft |
| Mon | 2/2/2026 | Drafting, 3D visualization, & Outputs | Preliminary Design Review Solidworks 1,2,3 In Class: sketches | |
| Wed | 2/4/2026 | Outputs & Assignment work time (Solidworks 1&2) | | Solidworks 1 |
| Mon | 2/9/2026 | Brainstorming & Process Check-in: Delivery and Geometry Assignment work time (Solidworks 2) | | Solidworks 2 |
| Wed | 2/11/2026 | V&V Intro + Solidworks 3 work time | | |
| Mon | 2/16/2026 | V&V Intro + Assignment work time (Solidworks 3 / PDR) | | Solidworks 3 |
| Wed | 2/18/2026 | Teamwork Check-in & MATLAB | MATLAB HW | |
| Mon | 2/23/2026 | Preliminary Design Review | CATME Peer Reviews | Preliminary Design Review Slides - Due 2pm |
| Wed | 2/25/2026 | Preliminary Design Review | | Preliminary Design Review Slides - Due 2pm CATME Peer Reviews Due 2/27 11:59pm |
| Mon | 3/2/2026 | <i>Spring Break</i> | | |
| Wed | 3/4/2026 | | | |
| Mon | 3/9/2026 | V&V Refresher & COMSOL tutorial 1 | V&V Plan | MATLAB HW (3/10 11:59PM) |
| Wed | 3/11/2026 | Finite element modeling (Dr. Figueroa) | | |
| Mon | 3/16/2026 | COMSOL tutorial 2 | COMSOL 1 COMSOL 2 | |
| Wed | 3/18/2026 | Assignment work time (COMSOL 1) | | COMSOL 1 |
| Mon | 3/23/2026 | COMSOL tutorial 3 | COMSOL 3 | |
| Wed | 3/25/2026 | Project Final Deliverables + work time (COMSOL 2) | Final DHF Final Design Review | COMSOL 2 |
| Mon | 3/30/2026 | Assignment work time (COMSOL 3) | | V&V Plan |
| Wed | 4/1/2026 | Project Import Tips & PWT | | COMSOL 3 |
| Mon | 4/6/2026 | Design Overview and Future & PWT | | |
| Wed | 4/8/2026 | PWT | | |
| Mon | 4/13/2026 | Final Design Review | CATME Peer Reviews | Final Design Review Slides Slides - Due 2pm |
| Wed | 4/15/2026 | Final Design Review | | Final Design Review Slides Slides - Due 2pm |
| Mon | 4/20/2026 | PWT (update DHF based on FDR feedback) | | |
| Fri | 4/24/2025 | "Exam" (Only DHF, no formal exam) | | Final DHF (report) CATME Peer Reviews |

Abbreviations: Food and Drug Administration, FDA; Project Work Time, PWT; Design History File, DHF; Final Design Review, FDR