



Draft Engineering Design Standards

Standard design philosophy: These standards are designed to produce students who are comfortable taking design apart, putting them together, figuring out how they work, and then designing their own technological objects from scratch. As these students progress in specialized content knowledge, they will be able to design increasingly complex technological objects as a matter of course, since the design process provided here will work at all levels of complexity. Standards below the yellow line are universal design approaches - e.g., solutions to social and societal problems.

Table with 5 columns: Subject, Topic, Performance, Practice, and Cross-Cutting/Engineering/Science Practices. Rows include Cutting, Tools, Common Electrical and Mechanical Components, Simple Machines, Problem Definition, Ideation, Design Brief, Design Review, Design Process, Production, and Documentation. Each cell contains specific standards and their descriptions.