

## CAPSTONE GLOSSARY

<b>Best Practice</b>	Package of tools and techniques used by experts in the field
<b>Drawing Package</b>	Set of stand-alone part and assembly drawings that can be used to guide manufacturing, assembly, and inspection
<b>Engineering Analysis</b>	Calculations and modeling based on engineering principles that supports quantitative decision making
<b>Engineering Specifications</b>	Restatement of customer needs in a way that can be measured to determine if the need is met

<b>Client/Customer Satisfaction</b>	Providing more than is expected, quicker than expected, at a lower cost than expected, at an acceptable level of quality
<b>Open Communication</b>	Free expression of ideas in a respectful and courteous manner
<b>Workbreakdown Structure</b>	Table outlining related project tasks, responsible parties, due dates, and expected quality of results
<b>Design Team</b>	Individuals with complementary skills who are committed to a common purpose, performance goals, and approach for which they hold themselves mutually accountable on a design project
<b>Engineering Logbook</b>	Record of personal activity that includes project learning, engineering analysis, product development, and lessons learned
<b>Project Webpage</b>	Record of team activity in each stage of the design process

<b>Process</b>	A series of actions that adds value to the final result
<b>Design</b>	Developing a product or process to meet a specific need
<b>Problem Solving</b>	Removing or reducing a gap between current and desired situation
<b>Research</b>	Expanding boundaries of knowledge within a discipline or a community of scholars
<b>Project Learning</b>	Locating, understanding, and mastering new personal knowledge and skills to benefit a project
<b>Evaluation</b>	Process for determining quality
<b>Assessment</b>	Process used for improving quality peer assessment → feedback is given by a colleague or peer self assessment → feedback from studying one's own process
<b>Rubric</b>	Tool to distinguish different levels of performance based on verbal description

<b>Problem definition</b>	Determination of the need to be met or the problem to be solved by the design
<b>Need</b>	A condition requiring supply or relief; often met by a product produced by design
<b>Specification</b>	A statement containing the details of the design of a product
<b>Prototype</b>	An early design of a product used for assessment of design concepts and/or validation testing
<b>Validation</b>	The act of assessing the correctness of a design for its intended use
<b>Generating solution options</b>	The act of determining several possible solutions to the design problem
<b>Quality</b>	Excellence of the design solution and resulting product for meeting a need
<b>Selecting solution options</b>	The act of selecting the best solutions from the many possibilities from solution generation
<b>Client</b>	Contact for whom work is performed under contract
<b>Stakeholder</b>	Anyone who has an interest in or need for design product
<b>Customer or end user</b>	One who will use the product produced from design, not necessarily the client