Modeling Strategies – Advanced Part

Design Workflow: part classification - which leads to design process:

Part Breakdown: where to start? use sketches? Which features to model first?

Optimize Design: What features to model first? How detailed should profiles be? Learn to combine treatment features to reduce file overhead. Model intermediate to difficult parts.

Profile/Sketch: 2D designs that will improve your use of Intellisketch. Tips to faster and better sketching. You'll learn to build and change predictable and reliable profiles.

Advanced tools: Swept and Lofted Features, using construction geometry (when is it useful?), rounding, blends, basic BLUE surf and advanced modeling with combined surface and feature design

Part Design: Machined, Cast, Plastic (process for cast and plastics design) and Sheet Metal parts: theory and labwork.

Weldments: learn to take several parts and make a "weldment", or individual unit treated as a part

Simplified parts: learn to "simplify" your intricate parts for faster performance – without changing your part at all!

Variable Tables: use variables (equations and formulas) to control your design by table-driven input

Family of Parts: create a group of parts that are similar, but not identical. Use forms to drive design of parts and automatically create new ones (ie:creating a cast and a machined version of a part).

Revision Manager: learn to use this workgroup management tool to revise a part and assembly. Generate reports, preview files, create and manage associative links outside of Solid Edge. Revise the status of files, link files from office products (Word, Excel…)

NOTE: This is an abbreviated syllabus of the class. Please contact Breit Ideas for a more detailed class description.