

## Design for Assembly Course Outline

Mott CC -  
**CADD204**  
**Product Design**

Describe the relationship between product design, tool design & the manufacturing process.

Apply appropriate drafting procedures, product detailing & sub-assembly drawing formats

Utilize the design process to develop and analyze a number of design scenarios

Participate in brainstorming & team problem solving activities

Analyze design situations & participate in optimization activities

**Describe function and purpose of design optimization techniques such as Design for Assembly, Manufacturability & Serviceability**

Participate in a multi-faceted design analysis & review process

Consider the effect that dimensions & tolerances have on manufacturing considerations, part quality and cost.

**Analyze operating environments and/or regulations and make**

**decisions relating to material selection, manufacturing processes and part design.**

Generate CAD models to represent product concepts & ideas