

# CADD 32 – PRODUCT MODELING WITH CATIA

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**TEXT:** CATIA V5 Workbook, Release 19 - Cozzens (Reference)

**UNITS:** 2

## **DESCRIPTION:**

This is an (8) week class, with (8) class hours per week – (2) Lecture, (6) Lab hours

The class is designed for users with a basic knowledge of Catia V5. This would include the core functionality of V5: sketcher, part design, and assembly. The advanced topics will be covered in approx. (2) week increments.

## **TOPICS:**

- AVANCED PART DESIGN
- ADVANCED ASSEMBLY
- ADVANCED DRAFTING
- MBD/DMU

## **ASSIGNMENTS:**

## **POINT VALUE**

<b>Part Design:</b> 1 - angle bracket	100
2 - clamp assembly parts	100
<b>Assembly Design:</b> 1 - clamp assembly	150
2 - advanced assembly	250
<b>Drafting:</b> 1 –Drawing	200
○ Min 3 sheets	
▪ Sheet1 - main assembly	
▪ Sheet2 - sub assembly	
▪ Sheet3 thru 10 - Details	
○ Parts List (ABOM)	
<b>Model Based Definition (MBD):</b>	100
<b>Digital Mock-Up Final (DMU):</b>	100
<b>Total</b>	1000

**Note:**

To receive an “A”, you must earn at least 900 points.

To receive a “B”, you must earn at least 800 points.

To receive a “C”, you must earn at least 700 points.

To receive a “D”, you must earn at least 600 points.

To receive an “F” ,you must earn less than 600 points.

**CADD 32 Product Modeling with CATIA SL0 #1****Creating CATIA V5 Complex 3D Solid Models:**

Given a fully dimensioned multi-view engineering drawing of a complex machined part, the student will be able to utilize the appropriate functions within the CATIA V5 software to construct a 3D solid model of the part.

**CADD 32 Product Modeling with CATIA SL0 #2****Creating CATIA V5 Complex Engineering Drawings:**

Given a 3D solid model of a complex machined part, the student will be able to utilize the appropriate functions within the CATIA software to create a fully dimensioned multi-view engineering drawing of the part.

**CADD 32 Product Modeling with CATIA SL0 #3****Creating CATIA V5 Complex Assembly Models:**

Given a set of 3D solid models of the component parts of a complex assembly, the student will be able to utilize the appropriate functions within the CATIA software to create a fully constrained assembly model.

**DISABILITY STATEMENT:**

Students with disabilities who believe they may need accommodations in this class are encouraged to contact the Special Resources Center on campus as soon as possible to ensure such accommodations are implemented in a timely fashion. Please contact me privately to discuss your specific needs.