

CADD 37 – ADVANCED CATIA FUNCTIONS

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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. This class will serve as an introduction to Catia V5 surface modeling. Many assignments will come from **CATIA online assignments**, and there will be a significant student surface project at the end of class.

TOPICS:

- WIREFRAME
- SURFACE
- OPERATIONS
- ANALYSIS

ASSIGNMENTS:

POINT VALUE

Wireframe: – Catia Online	100
Surface: – Catia Online	100
Operations: – Catia Online	100
Handouts: Impeller	150
Box	200
FINAL PROJECT	350
Total	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 37 Advanced CATIA Functions SL0 #1

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

CADD 37 Advanced CATIA Functions SL0 #2**Utilizing Surfacing Functions:**

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

CADD 37 Advanced CATIA Functions SL0 #3**Joining Surfaces:**

Given a 3D surface model of two separate surfaces of a complex molded part, the student will be able to utilize the appropriate functions within the CATIA V5 software to construct a third surface blending the original two. The new surface will be tangent continuous with both of the original surfaces.

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.