

CADD 37 – ADVANCED CATIA FUNCTIONS

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UNITS: 2

PREREQUISITE: CADD 31 or equivalent

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. Most assignments will come from IGETIT, 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

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.