

COURSE OUTLINE
Loc Nguyen, 2012

DEPARTMENT:	Professional Technical Education
CURRICULUM:	CAD / DESIGN Technology
COURSE TITLE:	Intoduction To CATIA
COURSE NUMBER:	TDR 240
TYPE OF COURSE:	Technical Preparatory
COURSE LENGTH:	1 quarter
CREDIT HOURS:	4
LECTURE HOURS:	22
LAB HOURS:	44
CLASS SIZE:	20
PREREQUISITES:	TDR 135 CAD 3-D or Instructor permission

COURSE DESCRIPTION:

Introductory course for all new students of **CATIA** (**C**omputer **A**ided **T**hree Dimensional **I**nteractive **A**pplication). Gain understanding of the CATIA interface and how to use CATIA to create solid models of parts, assemblies and drawings. Understand how to manage parts in the context of an assembly. A hands-on course where students produce simple parts drawings and assemblies.

STUDENT LEARNING OUTCOMES ADDRESSED:

1. Communication - Read and translate technical data relative to geometric spatial relationships into a graphical form easily understood by others with similar technical understanding.
2. Computation - Use basic mathematical operations as required defining geometrical spatial relationships.
3. Human Relations - Use social interactive skills to enhance learning through informal tutoring activities.
4. Critical Thinking and Problem Solving - Organize and evaluate technical data, as well as select and apply appropriate spatial relationship principles to determine problem solution.

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STUDENT LEARNING OUTCOMES ADDRESSED: (cont.)

5. Technology - Select and use appropriate technological tools to create technical graphics.
6. Personal Responsibility - Take pride in own work
7. Information Literacy - Access & use information from variety of resources / data

GENERAL COURSE OBJECTIVES:

Upon completion of the course the student will be able to:

1. Understand the basic functionality of CATIA parametric solid-modeling design software.
2. Plan the construction of part in order to properly convey its visual and functional aspects.
3. Create simple parts in CATIA.
4. Understand how to manage parts in the context of an Assembly.\
5. Produce simple drawings and assembly layouts

TOPICAL OUTLINE:

	APPROX. HOURS
I. Course Overview	1
II. Introduction to CATIA Interface	11
III. Sketcher Workbench	18
IV. Part Modeling	12
V. Assembly	<u>24</u>
Total	66

Originated or Revised BY: L. NGUYEN
DATE: Jan 10, 2010