

Introduction to Catia - TDR201

Proposal Type: New Course
 Requester(s): Stephen H Simmons
 College: North
 Status: Final Distribution

BASIC INFORMATION

Requester(s): Stephen H Simmons
 College: North Seattle Community College
 Division/Dept: Business, Engineering & IT
 Dean: Terry J Cox
 Peer Reviewer(s):

COURSE INFORMATION

Proposed Course Number:

Prefix: **TDR** Number: **201**

- Request a new Prefix
 This will be a common course

Full Title: Introduction to Catia
 Abbreviated Title: TDR 201

Catalog Course Description:

This course will focus on students wanting to become a technical designer with emphasis in part creation, assemblies and minor surface commands. These are key elements of Catia and will be built upon on subsequent classes. Student should have strong skills in CAD applications that pertain to 3D and Solid Modeling.

Course Length: 11 Weeks Request an Exception

Course Prerequisite(s):
None

Course Corequisite(s):
None

Topical Outline:

Topical Outline and/or Major Divisions:

- I Introduction to TDR 201**
 - A. Course contents
 - B. Class procedures
 - C. Course objectives
- II Introduction to Equipment**
- III. Introduction to Software**
 - A. Parametric Solid Modeling programs
 - B. The Catia program - an overview
- IV. Introduction to Catia Basics**
 - A. Understanding Catia
 - B. Familiarization with the Catia Interface
 - C. Part Creation
 - D. Assemblies
 - E. Surfaces
 - F. Annotations
 - G. Details
 - H. Plotting
- V. Introduction of Modeling Projects**
- VI. Evaluations**

COURSE CODING

Funding Source: 1.....State
Institutional Intent: 21.....Vocational Preparatory

This Course is a requirement for the following program(s):
 (No Programs Selected)

My Course Proposal is a requirement for a program not on this list

Will this course transfer to a 4-year university? **No**

Is this course designed for Limited English Proficiency? **No**

Is this course designed for Academic Disadvantaged? **No**

Does this course have a Workplace Training component? **No**

CIP Code: 15.1301 Request Specific CIP Code
EPC Code: 798 Request Specific EPC Code

Credits:

Will this course be offered as Variable Credit? **No**

List Course Contact Hours

Lecture (11 Contact Hours : 1 Credit)	55
Lab (22 Contact Hours : 1 Credit)	0
Clinical Work (33 Contact Hours : 1 Credit)	0
Other (55 Contact Hours : 1 Credit)	0
 Total Contact Hours	 55
Total Credits	5

COLLEGE SUPPLEMENTAL

Proposed Quarter of Implementation: Fall 2014 Request Provisional Exception

Class Capacity: 24

Modes of Delivery: (Check all that apply)

- Fully On Campus
- Fully Online
- Hybrid
- Other Explanation:

Class Schedule Description:

Course goals will be to build upon that which is learned in TDR 200 (SolidWorks) concerning Parametric Solid Modeling. Production of complex structures to enhance the students knowledge in this subject so that their skills are relevant in today's competitive job market.

Essential Learning Outcomes:

Intellectual & Practical Skills, including

Critical thinking and problem solving

Student will demonstrate an ability to apply the knowledge and skills learned in the Architecture Engineering Drafting program.

Technological proficiency

Student will demonstrate proficiency in the use of technology (applications and equipment) through the use of Solid Modeling.

Integrative & Applied Learning

Synthesis and application of knowledge, skills and responsibilities to new settings and problems

Student will be able to demonstrate what they have learned through presentation, writing and graphic communication.

Discipline/Program Outcomes:

1. Demonstrate knowledge of drafting conventions including symbols, linetypes, lineweights, and dimension styles as applicable to the design discipline.
2. Read prints, solve common problems, and produce 2-D and 3-D drawings using CAD software.
3. Complete a comprehensive design project using drawings suitable for approval to industry standards.
4. Describe the role and purpose of standards as they pertain to the life, health, and safety of the public.
5. Perform and support estimating functions, including national quantity, types, costs, labor requirements, equipment, and scheduling functions.

Course Outcomes:

1. Demonstrate the skills necessary to produce basic parts using Catia software.
2. Identify basic manufacturing strategies using Catia.
3. Demonstrate the ability to document and record modeling files.
4. Utilize the appropriate functions within the Catia software environment.

Assessment:

Evaluation may include but is not limited to:

1. In-Class Quizzes and Exams
2. Class Assignments
3. Help Desk Posts
4. Final Project

Final grades are assigned according to published grading standards for course.

Sample Syllabus: