



TDR202 - Intermediate Catia

Document Type: District Master Course Outline

Proposal Type: New Course

Requester(s): Stephen H Simmons

College: North

Origination Approved: 03/18/2014 - 3:02 PM

BASIC INFORMATION

Requester(s): Stephen H Simmons

College: North Seattle Community College

Division/Dept: Business, Engineering & IT

Dean: Terry J Cox

COURSE INFORMATION

Proposed Course Number:

Prefix: **TDR** Number: **202**

Request a new Prefix

This will be a common course

Full Title: Intermediate Catia

Abbreviated Title: Interm. Catia

Catalog Course Description:

This course will focus on students wanting to become a technical designer building upon what was learned in TDR 201 with emphasis in advanced surfacing. The student should have advanced skills in various CAD applications as it pertains to 3D and solid modeling. Prereq: TDR 201 or instructor permission.

Course Length: 11 Weeks

Request an Exception

Course Prerequisite(s):

TDR 201 or instructor permission.

Course Corequisite(s):

None

Topical Outline:

Topical Outline and/or Major Divisions:

I. Introduction to TDR 202

- A. Course contents
- B. Class procedures
- C. Course objectives

II. Software Review

- A. Review of material learned in TDR 201
- B. The Catia program - Review

IV. Introduction to Intermediate Catia

- A. Further Understanding Catia
- B. New commands in the Catia Interface

- C. Surfacing
- D. Advanced Annotations
- G. Advanced Details
- H. Plotting

V. Introduction of Modeling Surfacing 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: Spring 2015 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 was learned in TDR 201 (Introduction to Catia) concerning Parametric Solid Modeling. Production of complex structures to enhance the students knowledge in this subject so that their skills are relevant in todays competitive job market. Prereq: TDR 201 or instructor permission.

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 ability to create and modify solid parts and basic surfaces
2. Demonstrate the ability to create fully dimensioned multi-view engineering drawings.
3. Apply the principles of geometric modeling representations and synthesize, analyze and interpret mechanisms.

Assessment:

Assessment 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.

This is to certify that the above criteria have all been met and all statements are accurate to the best of my knowledge.

Faculty involved in originating this program:

Stephen H Simmons
Print Name

Stephen H Simmons
Signature

3/6/2014
Date

Dean:

Terry J Cox
Print Name

Terry J Cox
Signature

2/14/2014
Date

Results of NSCC Curriculum and Academic Standards Committee Findings

Participating Faculty Response and Remarks

- Recommended for approval
- Not recommended for approval

Chairman, Curriculum and Academic Standards Committee:

Brian Palmer
Print Name

Brian Palmer
Signature

3/17/2014
Date

Vice President for Instruction:

Peter Lortz
Print Name

Peter Lortz
Signature

3/18/2014
Date