

Course Establishment Form Outline

Effective date: Winter 2010:

Division:	Business, Engineering & Information Technology	Program/Dept:	Architecture Engineer & Sustainable Design
Course Number:	TDR 100	Credits:	5 Variable:
Course Title:	Basic BIM for Design & Construction		
Inst. Intent:	21 Vocational Preparatory	CIP:	
	Fee: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Type	CL - Computer Lab Fee

Degree/Certificate Requirement:	Yes <input checked="" type="checkbox"/>	No:
Name of Degree/Certificate:	Architecture Engineer & Sustainable Design Associate of Applied Science Degree	
Distribution Requirement for AA/AS:	Yes	
Transfer Status to 4-year institution:	Yes	No: <input checked="" type="checkbox"/>
If yes, please describe:		
Course length:	11 weeks	Class Size: 24
Course Contact Hours:		
Lecture: 55	Lab:	Clinical:
Prerequisite: Yes:	No: <input checked="" type="checkbox"/>	Other:
System:		
If yes, please describe:		
Required Placement Tests:	Yes	No <input checked="" type="checkbox"/>
If yes, please describe:		
Comments:		

<p>Course Description: Introduces basic Building Information Management/Modeling (BIM) practices using Autodesk's Revit and Bentley's Microstation programs. Focus will be on familiarization with the BIM environment to include drawing commands, efficiencies of CAD vs. BIM and integration of green analysis software with BIM software. Emphasis placed on developing production skills. The 1st of a two class sequence. Open lab. Computer lab fee.</p>
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NSCC General Education Outcomes and/or Related Instructional Outcomes Met by Course:

1. Apply computer competency appropriate to general education and occupational goals.
2. Work and communicate effectively in groups.

Course Outcomes/Learning Objectives:

1. To develop a basic understanding of computer hardware and software that promotes sustainability.
2. To develop skills in the use of BIM software.
3. To learn to model quality drawings with accepted conventions and standards using BIM.

Topical Outline and/or Major Divisions:

- I **Introduction to TDR 100**
 - A. Course contents
 - B. Class procedures
 - C. Course objectives
- II **Introduction to Equipment**
- III. **Introduction to Software**
 - A. Building Information Management/Modeling programs
 - B. The BIM program - an overview
- IV. **Introduction to BIM Basics**
 - A. Understanding BIM
 - B. Familiarization with the Revit or Microstation Interface
 - C. Element Modifications
 - D. Modeling
 - E. Introducing other applications
 - F. Annotations
 - G. Details
 - H. Plotting
- V. **Introduction of Modeling Projects**
- VI. **Evaluations**

Course Requirements (Expectations of Students)

Attendance, assignments, and quizzes as specified by the instructor.

Students will be expected to demonstrate the ability to perform specific competencies listed under "Course Outcomes/Learning Objectives."

Methods of Assessment/Evaluation:

To be determined by instructor.

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

Required Text(s) and/or Materials:

As required by instructor.

Recommended- Intro. Revit Architecture 2010, T. Dzambazova, Sybex ISBN 978-0-470-47355-9

Supplemental Text(s) and/or Materials:

As required by instructor.

Outline Developed by: Stephen Simmons

Date: 7/09

Outline Revised by: Stephen Simmons

Date: 7/09