

Three Rivers Community College  
CAD 250-251  
3D Parametric Modeling  
2013 Fall Syllabus  
Prof. Ronald Greenier

**Office Room C140**

Office Hours:

Tuesday 1:30-2:20  
4:40-5:30  
Thursday 1:30-2:20

**Communications:**

Phone Number - 860.885.2380

Email Address School - rgreenier@trcc.commnet.edu

**Class Hours:**

Lecture: 2:30-3:00  
Lab: 3:01-4:40

**Textbook:**

Autodesk Inventor 2013 Essentials Plus  
By Banach and Jones

**Grading:**

Lecture – 4 Tests = 100%

Lab consists of 13 weekly assignments each week weighted equally 75%  
Final Project – Assembly Model 25%

**Course Content:**

| <b>DATE</b>               | <b>CONTENT</b>   | <b>ASSIGNED READING</b>                              |
|---------------------------|--|--|
| 8-29-13                   | Course Introduction<br>Starting Inventor<br>Inventor Menu Structure<br>Inventor Fundamentals<br>Constraints<br>Parametric Sketching<br>Dimensioning a Sketch | Introduction<br>Chap.1<br><br><br>Chap. 2<br>Chap. 2 |
| 9-03-13<br>9-05-13        | Features - Sketch Planes<br>Features-Extrusions  | Chap. 3  |
| 9-10-13<br>9-12-13        | Features- Sketch Planes<br>Features - Revolutions  | Chap. 3  |
| <b>9-17-13</b><br>9-19-13 | <b>TEST 1</b><br>Placed Features   | <b>Chap. 1-3</b><br>Chap. 4                          |

|                 |   |                    |
|-----------------|---|--------------------|
| 9-24-13         | Work Planes   | Chap. 4            |
| 9-26-13         | Work Axes<br>Work Points                                      |                    |
| 10-01-13        | Patterns  | Chap. 4            |
| 10-03-13        | Rectangular/Circular/Path                                     |                    |
| 10-08-13        | Drawing Views   | Chap. 5            |
| 10-10-13        |   |                    |
| 10-15-13        | Editing Drawing Views   | Chap. 5            |
| 10-17-13        |   |                    |
| <b>10-22-13</b> | <b>TEST 2</b>   | <b>Chap. 4-5</b>   |
| 10-24-13        | Creating Assemblies<br>Top-Down Assemblies                    | Chap. 6            |
| 10-29-13        | Bottom-Up Assemblies<br>Combination Assemblies                | Chap. 6            |
| 10-31-13        | Assembly Constraints<br>Subassemblies                         | Chap. 6            |
| 11-05-13        | Documenting Assemblies  | Chap. 6            |
| 11-07-13        |   |                    |
| <b>11-12-13</b> | <b>TEST 3</b>   | <b>Chap. 6</b>     |
| 11-14-13        | Advanced Sketching and Constraining<br>Advanced Part Modeling | Chap. 7<br>Chap. 7 |
| 11-19-13        | Icomponents and Parameters                                    | Chap. 8            |
| 11-21-13        | Icomponents and Parameters                                    | Chap. 8            |
| 11-26-13        | <b>THANKSGIVING BREAK NO CLASSES</b>                          |                    |
| 11-28-13        | <b>THANKSGIVING BREAK NO CLASSES</b>                          |                    |
| 12-03-13        | Final Project   |                    |
| 12-05-13        | Final Project   |                    |
| <b>12-10-13</b> | <b>TEST 4</b>   | <b>Chap. 7-8</b>   |
| <b>12-12-13</b> | Final Project   |                    |
| <b>12-17-13</b> | <b>Final Project due</b>                                      |                    |

Content material subject to change at the discretion of the instructor.