

## Fall 2017 Syllabus

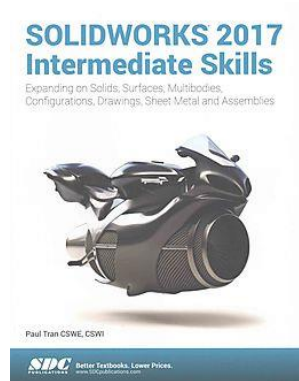
### Solid Modeling II Lecture/Lab – MEC\*K154/155

Room E116, Wednesdays 5:30 – 9:50 p.m.

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**Instructor:** Bob Shepherd  
**Contact Methods:** Blackboard Learn Messaging (preferred)  
or [rshepherd@trcc.commnet.edu](mailto:rshepherd@trcc.commnet.edu)  
**Office Hours:** by Appointment  
**Online Discussions:** Available via Blackboard Learn

### Required Textbook and Materials:



- **SolidWorks 2017 Part II – Intermediate Skills**  
**Paul Tran CSWE, CSWI**  
ISBN: 978-1-63057-056-9
- **Storage Media: Flash Drive**
- **Headphones or Earbuds to listen to tutorials** when needed

### Course Description:

This course instills knowledge of advanced Solid Modeling techniques through the use of industry standard processes and programs. Solidworks 2017 will be the software platform. Most work required will be computer based. Topics of interest include 3D sketching, plane creation, detail and assembly drawings and various topics using advanced solid modeling and surfacing techniques. Additionally, each student will be responsible for developing a design project, submitting assembly and detailed manufacturing drawings, as well as presenting their design to the class at the end of the semester.

**Procedure:** The course will consist of a lecture and a lab, consisting of assignments and a project. There will be periodic lectures and discussions of topics. The majority of class time will be tutorials using the textbook. This is a computer aided design course, therefore the best way to learn is to use the Solidworks software. Collaboration is encouraged, however the homework assignments should be the students own work.

**Assignments:** Assignments will be distributed on a weekly basis and should be submitted on or before the due date. Five percent (5%) will be deducted from grade per assignment for each week submitted late. The details for each assignment and the due date will be posted in Blackboard and distributed in-class.

**Lab Project & Presentation:** To be determined in collaboration with instructor.

### **Grading Policy:**

Course evaluation will be based on homework assignments and a project. Attendance will be taken and is also a part of your grade. Final grades will be based on a normal distribution of all students taking the course based on the following weighting:

|       |                            |
|-------|----------------------------|
| ➤ 30% | Assignments                |
| ➤ 50% | Project                    |
| ➤ 20% | Attendance & Participation |
| <hr/> |                            |
| 100%  | Total                      |

Grades will be assigned according to the following scale:

|          |     |
|----------|-----|
| 94 -100  | A   |
| 90 - 93  | A - |
| 87 - 89  | B + |
| 83 - 86  | B   |
| 80 - 82  | B - |
| 77 - 79  | C + |
| 73 - 76  | C   |
| 70 - 72  | C - |
| 67 - 69  | D + |
| 63 - 66  | D   |
| 60 - 62  | D - |
| Below 60 | F   |

**Class Participation and Discussion:** Attendance will be taken at each class meeting. Each student is expected to attend every class. Leaving class early without Instructor approval will result in a recorded absence for that class. This course is designed in such a way that a student should get more from the in-class activities than from the textbook alone. If you miss a class, you are responsible for obtaining notes, handouts and assignments. Course materials including syllabus, lectures, assignments and notes are located in Blackboard Learn. If you cannot attend a lecture due to extraordinary events, notify the instructor in advance of the class you will miss. Unless special arrangements have been made with the instructor in advance, the due date for coursework will remain as indicated.

**Online Communication:** The primary method of online communication (between all students and the instructor) for this class will be **forums** in **discussion boards**. Any private communications (between one student and the instructor) should use the **Blackboard messaging** capability called “**Messages**”. The Blackboard email tool will not be used in this class. Email outside of Blackboard should use my email address of:  
[rshepherd@trcc.commnet.edu](mailto:rshepherd@trcc.commnet.edu).

**Digication:** All students are required to maintain a learning portfolio in Digication that uses the (Three Rivers) College Template.

**Classroom Policies:** Use of **cell phones**, texting, surfing the Internet or playing computer games **are Not Permitted** during class! Language and behavior that is disrespectful, or disruptive, to others is unacceptable. Students should refer to their Student Handbook for examples of such behavior as well as additional school policies. Beverages are not permitted at your computer workstation.

**Instructor Assistance:** Seeking help from the instructor outside of class is encouraged if you are having difficulty understanding course material. You are encouraged to seek assistance during class as well as other times by appointment.

**Course Withdrawal:** A student who simply stops submitting work will receive the grade earned on that work, usually a failing grade. To receive a "W" grade instead, apply for a withdrawal through the registrar's office by May 9<sup>th</sup>. A "W" will be entered on the student transcript but will not be included in the calculation of the GPA.

**Academic Integrity:** Academic integrity is essential to a useful education. Failure to act with academic integrity severely limits a person's ability to success in the classroom and beyond. Furthermore, academic dishonesty erodes the legitimacy of every degree awarded by the College. In this class and in the course of your academic career, present only your own best work; clearly document the sources of the material you use from others; and act at all times with honor.

**Students with Disabilities:** If you are a student with a disability and believe you will need support services and/or accommodations for this class, please contact the Disabilities Support Services at TRCC. Please note that the instructor cannot provide accommodations based upon disability until the instructor has received an accommodation letter from the Disabilities Counselor.

## **BOARD OF REGENTS FOR HIGHTER EDUCATION AND CONNECTICUT STATE COLLEGES AND UNIVERSITIES POLICY REGARDING SEXUAL MISCONDUCT REPORTING, SUPPORT SERVICES AND PROCESSES POLICY**

### **Public Act No. 14-11: An Act Concerning Sexual Assault, Stalking and Intimate Partner Violence on Campus:**

"The Board of Regents for Higher Education (BOR) in conjunction with the Connecticut State Colleges and Universities (CSCU) is committed to insuring that each member of every BOR governed college and university community has the opportunity to participate fully in the process of education free from acts of sexual misconduct, intimate partner violence and stalking."

### **Title IX Statement of Policy:**

"Title IX of the Education Amendments Act of 1972 protects students, employees, applicants for admission and employment, and other persons from all forms of sex discrimination, including discrimination based on gender identity or failure to conform to stereotypical notions of masculinity or femininity. All students are protected by Title IX, regardless of their sex, sexual orientation, gender identity, part or full-time status, disability, race, or national origin, in all aspects of educational programs and activities."

| <b>Solid Modeling II: Fall 2017 – MEC*K154/155– Course Outline</b> |             |                         |   |                     |
|--|-------------|-------------------------|---|---------------------|
| <b>Week #</b>  | <b>Date</b> | <b>Homework</b>         | <b>Assignment Topics</b>  | <b>Text Reading</b> |
| 1  | 8/30/17     |                         | Introduction, and syllabus review. Chapter 1 – Document Properties. Chapter 2 - Sketching | Chapters 1 & 2      |
| 2  | 9/6/17      | Chapter 2 HW due        | Chapters 3 & 4 – Multibody Parts  | Chapters 3 & 4      |
| 3  | 9/13/17     | Chapters 3 & 4 HW due   | Chapter 5 – Revolved & Thread Features;<br>Chapter 6 – Flex Bending                       | Chapters 5 & 6      |
| 4  | 9/20/17     | Chapters 5 & 6 HW due   | Chapter 7 – Sweep with Guide Curves   | Chapter 7           |
| 5  | 9/27/17     | Chapter 7 HW due        | Chapter 8 – Lofts and Boundaries  | Chapter 8           |
| 6  | 10/4/17     | Chapter 8 HW due        | Chapter 9 – Surfaces & Patches  | Chapter 9           |
| 7  | 10/11/17    | Chapter 9 HW due        | Chapter 10 – Configure Features<br><b>Project Subject Due (Project Plan)</b>              | Chapter 10          |
| 8  | 10/18/17    | Chapter 10 HW due       | Chapter 11 – Assembly Motions & Mates   | Chapter 11          |
| 9  | 10/25/17    | Chapter 11 HW due       | Chapter 12 – Smart Mates; Chapter 13 – Top-Down Assy                                      | Chapters 12 & 13    |
| 10   | 11/1/17     | Chapters 12 & 13 HW due | Chapter 14 – Lip & Groove Feature; Mounting Bosses  | Chapter 14          |
| 11   | 11/8/17     | Chapter 14 HW due       | Chapter 15 – Assembly Drawings & BOM  | Chapter 15          |
| 12   | 11/15/17    | Chapter 15 HW due       | Chapter 16 – Drawings & Detailing   | Chapter 16          |
| 13   | 11/29/17    | Chapter 16 HW due       | Chapter 17 – Sheet Metal Parts  | Chapter 17          |
| 14   | 12/6/17     | Chapter 17 HW Due       | Open Lab  |                     |
| 15   | 12/13/17    |                         | Project & Presentation Due  |                     |