

Bossier Parish Community College
Master Syllabus

Course Prefix and Number: TEED 220

Credit Hours: 3-3-0

Course Title: Advanced Solid Works 3D

Course Prerequisite: TEED 161

Textbook(s): Reyes, Beginner's Guide to Solidworks 2018 Level II, SDC Publications, 2018.
ISBN: 978-1-63057-166-5

Course Description: An advanced engineering course dealing with solid modeling. This course covers 3D design topics including sheet metal, top down design, weldments, surfacing, molds, and mechanical simulation.

Learning Outcomes:

At the end of this course, the student will:

- A. demonstrate competency in designing complex solid parts in 3D;
- B. demonstrate competency in designing welded components and molds;
- C. demonstrate competency in designing sheet metal components;
- D. be proficient in simulating moving mechanical assemblies; and
- E. be proficient in creating drawings to define complex 3d designs

To achieve the learning outcomes, the student will or will be able to:

(The letter designations at the end of each statement refer to the learning outcome(s).)

- 1. construct complex interrelated 3D objects and assemblies; (A, B, C, D)
- 2. construct sheet metal models; (C) and
- 3. create drawings and other media to define 3D designs (E)

Course Requirements: Make sketches of assigned objects/problems; Complete assigned drawings; Complete a mid-term and final exam.

Course Grading Scale:

- 90 – 100 = A
- 80 – 89 = B
- 70 – 79 = C
- 60 – 69 = D
- 0 – 59 = F

Attendance Policy: The college attendance policy is available at
<http://www.bpsc.edu/catalog/current/academicpolicies.html>

Course Fees: This course is accompanied with an additional fee for supplemental materials.

Nondiscrimination Statement: Bossier Parish Community College does not discriminate on the basis of race, color, national origin, gender, age, religion, qualified disability, marital status, veteran's status, or sexual orientation in admission to its programs, services, or activities, in access to them, in treatment of individuals, or in any aspect of its operations. Bossier Parish Community College does not discriminate in its hiring or employment practices.

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