

Bossier Parish Community College
Master Syllabus

Course Prefix and Number: TEED 171

Credit Hours: 3-3-0

Course Title: Building Information Modeling I

Course Prerequisites: None

Textbook(s): Moss, Elise. Revit Architecture 2016 Basics, 1st edition. SDC Publications, 2015. ISBN: 9781585039821

Course Description: This course is an introduction to Building Information Modeling concepts and BIM editing tools using BIM software, with other applications, to prepare construction documents, to integrate annotations into the model, to use work sets, and to collaborate with design professionals.

Learning Outcomes:

At the end of this course, the student will:

- A. demonstrate competency in the use of Building Information Modeling (BIM) software;
- B. use BIM software to produce preliminary drawings for use in architectural, engineering, and construction businesses; and
- C. produce accurate, detailed sets of construction drawings.

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. develop an understanding of BIM and how it prepares construction documents in a 3D environment; (A)
- 2. skillfully operate the BIM Interface and manage BIM file types; (A)
- 3. demonstrate ability to prepare BIM Views; (A)
- 4. demonstrate ability to model with BIM software; (A, B)
- 5. demonstrate ability to modify BIM elements; (A, B)
- 6. demonstrate more advanced BIM Modeling techniques; (A)
- 7. demonstrate ability to use BIM with CAD and other application software; (A)
- 8. demonstrate ability to prepare Preliminary Views for client review; (A)
- 9. demonstrate ability to prepare Construction Documents; (A, B, C) and
- 10. demonstrate ability to print Drawing Sheets. (A, C)

Course Requirements: Complete assigned problems and projects. Complete chapter tests and final exam.

Course Grading Scale:

Drawing problems – 75% / Tests and final exam – 25%

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.bpcc.edu/catalog/current/academicpolicies.html>

Course Fees: This course is accompanied with additional fees 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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