

**J. Sargeant Reynolds Community College
Course Content Summary**

Course Prefix and Number: ARC 295

Credits: 3

Course Title: Topics In Architecture: Building Information Modeling

Course Description (including lecture hours, lab hours, total contacts)

Teaches advanced operations in building-information-modeling. Prerequisite: ARC 211 or equivalent. Lecture 2 hours. Laboratory 2 hours. Total 4 hours per week.

General Course Purpose

To further develop the fundamental concepts and skills acquired in ARC 211

Course Prerequisites/Corequisites

ARC 211 or equivalent

Course Objectives

Upon completing the course, the student will be able to:

- Utilize parametric design technology inherent in BIM applications
- Execute visualization imagery that can later be developed into photo-realistic renderings
- Setup relationships with databases that will allow LEED analysis of an architectural design

Major Topics to be Included

- Creation of real-time schedules
- Linking of BIM models to high-end modeling/animation applications
- Project collaboration via BIM
- Use of project phasing and filters

Effective Date of Course Content Summary: September 13, 2010