

**Course:** Honors Adv. Design and 3D Modeling:

1 Advanced Technology Credit

Phone: (410) 674-6500

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**Course Description:** This course provides students an opportunity to become proficient in REVIT, the industry gold standard software for building information management, and to fully develop designs and construction documents for a residential project on a pre-determined site. After learning how to use REVIT with a previously designed structure, students begin with the legal description and topography of a site along with a program of client's needs to create a REVIT model of a proposed design. The proposal must meet the client's needs, budget, energy efficiency requirements and site characteristics. Students will generate a set of construction documents from the REVIT model for evaluation. Upon completion of the course, students will demonstrate advanced design/drafting skills and be prepared to sit for the computer-based REVIT certification exam.

**Topics of Instruction:**

- REVIT/Building Information Modeling (BIM)
- Construction Drawings/Documentation
- Building Technology and Materials
- Mechanical/Electrical/Plumbing Components of a Building
- Green/Sustainable Building and Site Design

**Evaluations** - Students are graded on individual and group project work, classwork, homework, and quarterly assessments.

**Late assignments will only be accepted in accordance with the Upgrade Policy.** Students may be given the opportunity to "re-take" or improve below par work following the policy and procedures for improving a poor grade listed on the next page. Home work will be assigned as needed. Daily class notes need to be reviewed by the student each night.

***Classroom Rules and Regulations-***

Student's safety is of primary concern in a lab environment. Students are required to follow the rules established, including the wearing of safety equipment and passing operational tests on any machinery prior to use. A guardian permission slip has been sent home and needs to be signed and returned.

**Help sessions & office hours:** PRIDE Period as per semester schedule. **Arrangements need to be made in advance** on an individual basis for further assistance, contact your instructor.

**Weighted Grading Categories**

Category	Percentage of Overall Grade
Assessments	65%
Classwork	15%
Homework	10%
Quarterly	10%
<i>Total</i>	<i>100%</i>

## **Re-Do Policy:**

Assessments (Quizzes and Projects) may be Re-Done IF they were submitted on time AND you've come to PRIDE Period for Re-Teaching/Clarification. Additional conditions for re-dos are as follows:

- Must be re-taken/done no later than 10 school days after feedback was received.
- Higher grade will go in grade book
- Quizzes will not be the same
- Project Re-Dos will be INDIVIDUAL
- No more than 3 assessments may be redone in a marking period
- Assessments completed during the last week of the marking period may not be re-done

## **Late Submittal Policy:**

10% of total earned points will be deducted for each school day an assignment is late until the 5th school day.

If an assignment is due at the beginning of class, and it is turned in AFTER the beginning of class, it is late.

Work missed due to absences can be made up (during PRIDE period, after school or on own time) for full credit.

## **Power Teacher Grade Codes:**

ABS – Absent: Grade will go in as a 0 until the assignment is made up.

NS – Not Submitted: Student was present, but the assignment was not turned in. Grade is a 0, but can be submitted late for partial credit.

MIN – Minimum Grade: The grade earned was below 50%, but a good faith effort was made so it will be recorded as a 50%.