Architectural Drafting Design

2013-2014

Course Description:
Experience is provided in basic residential design. The fundamental sequences in designing and drawing are stressed as the student completes the architectural drawings necessary for the construction of a residence. Elements of the course include architectural styles, area planning, structural detailing, and pictorial rendering, building specifications, and cost analysis. Students will build a scaled model residence and use professional architectural 2D CADD software, utilizing virtual reality; to design computer-generated floor plans (walk through). Students will design tower structures and perform a destructive test, which will assist them in calculating the efficiency of the structure. Opportunities are available to join our Technology Student Association (TSA) and compete in 2D CADD events regionally, state-wide and at the national level.

Course Content:
Mechanical Board Drafting
2D Architectural CAD software
Scaled Model Construction
National Association of Home Builders software

Required Textbooks and/or Other Reading/Research Materials
This text encompasses all aspects of architectural mechanical drafting and design, residential construction, and computer-aided drafting and design.
Architectural Design by Stephen Miller, 2004.

Course Requirements:
Students will attain skill in the universal language of drafting and design, both mechanical and computer-aided drafting. Students are required to complete all projects, assignments and tests on or before dute date. Students are expected to come to class prepared with all necessary materials. If you are absent for any reason, it is your responsibility to see your teacher for missed work. Please refer to the policy in the student handbook for timelines to make up missed work and tests. Students are expected to practice safe working habits when operating power equipment or hand tools in the construction of their scaled model homes.

Grade Components/Assessments:

Grades will be based on a point system that will be converted into overall percentages (student's total earned points divided by the total possible points). Graded items may include assignments, projects, tests/quizzes, preparation, and participation.

Each marking period is worth 20% of a student's overall grade. The midterm and final exam are each worth 10% of a student's overall average:

Quarter 1	20%
Quarter 2	20%
Midterm	**10%**
Quarter 3	20%
Quarter 4	20%
Final	**10%**

Required Summer Reading/Assignments:

No summer reading/assignments are required for this course