**Architectural Design CAD 220**

**Allen County Career and Technical Center**

**2016-2017 Course Syllabus**

# Instructor: Mrs. Dolorse Rice (dolorse.rice@allen.kyschools.us)

#  Room: 111 ACCTC Phone: 622-4711

**Course Description:**

Combines the elements and fundamentals of architectural design with the theory and application of presentation techniques. Deals with site selection, use of materials in design, spatial relationships, and aesthetics. Traditional and contemporary design, designers, processes, and historical milestones are explored. Board and computer techniques are used in illustrating interiors of student designs.

*Prerequisites: Intro to Computer-Aided Drafting, and Introduction to Architecture*

**Content/ Process**

Students Will:

1. Demonstrate and practice safe work habits in the lab area.
2. Identify symbols and materials used with the floor plan.
3. Draw a residential floor plan.
4. Use appropriate dimensioning techniques for architectural drawing standards.
5. Use drafting references and vendor product catalogs.
6. Draw residential elevation drawing.
7. Draw and dimension presentation elevations.
8. Construct accompanying drawings to the floor plan, including foundation, framing, electrical, plumbing, heating, ventilation and air conditioning.
9. Identify material representations in plan and section views.

**Connections:**

\*State Standards

\*KOSSA

\*State Technical Standards

\*New Generation Science Standards

\*AutoDesk Industry Standards

\*SolidWorks Industry Standards

\*Post-Secondary Education

\*CTSO -Skills USA

**Classroom Procedures**

1. **Attendance:**
	1. Class attendance is very important, but especially in labs where work cannot be made up outside of class. If absent from class, the student is responsible for completing missed work. If the student is absent on quiz or exam day, he must be prepared to take the exam when returning to class.
	2. Tardies will be referred to detention as specified in the student handbook.
	3. All students are to be in their seats when the bell rings, and completing the daily assigned bell ringer. This assignment will be on the board each day.

1. **Handbook policies:** Hand book policies regarding use of cell phones and other electronic devices will be

 followed. Students are expected to follow the school guidelines.

1. **Materials:**

**1. Materials that student needs to purchase: (1) two pocket folder. Students must bring a pencil to class every day. Pencils will not be provided by instructor. *Students must have supplies by the first full week of school*.**

**2. Drafting Equipment:**

All drafting equipment and supplies are provided; however, should a student damage any piece of the equipment (even accidentally); the student is required to replace that piece of equipment at equal value.

**3. Textbook:**

1. Architectural Drafting and Design, Fourth Edition by Jefferis, Alan & Madsen, David A.
2. Textbooks are provided for students’ use in class, but if misused or damaged by a student, then that student is required to pay for the determined damage value.

**4. Computer Equipment and Software:** AutoDesk: Architectural Desktop 2015 and AutoCAD Revit 2015

Dell computer package includes processor, monitor, keyboard, and mouse. All necessary computer equipment and supplies are provided; however, should a student damage any piece of the equipment (even accidentally), that student is required to replace that piece of equipment at equal value.

1. **Course Requirements and Grades:**
2. **Activities:** Each lesson or unit requires several practice activities or drawings. These drawings and activities will be scored on accuracy, neatness, and timeliness, because in drafting it is important that you learn to work quickly, but correctly and always neatly. These drawings will be the largest portion of your grade, so do your best on every one. Your work effort, attitude, cooperation and behavior will be considered when scoring your productivity.
3. **Quizzes:** Unit quizzes will be given at the end of each unit. These will be short quizzes covering only the current lesson (unit). The quizzes will be multiple choice, short answer, matching, etc.
4. **Midterm:** The midterm exam will be comprehensive, covering all material discussed in class up to that time. It will be of a similar type as the quizzes, only more thorough.
5. **Final Exam:** The final exam will be comprehensive, covering all the material discussed in class for the entire semester. Learning drafting is a building process much like learning a job. You learn new things every day, but you can’t forget the things that you learned previously in that job. The final exam will cover all you have learned and will be applied to a drawing, as well as a written exam.
6. **Grading:** Drawings, Activities, Drawing Portfolio, Bellringers, Unit Quizzes, Midterm and Final are all graded on a 100 point grading system.

**Required Drawings:** Site plan, floor plan, foundation plan, elevations: front, back, right, and left; electrical plan, plumbing plan, and heating, ventilating and air-conditioning plan, and framing plan. All plans should be dimensioned appropriately.