**Introduction to Architecture CAD 120**

Allen County Career and Technical Center

2016-2017 Syllabus

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

#  Room: 111 ACCTC Phone: 622-4711

**Course Description:**

The course provides a practical approach to architectural drafting through an introduction to board and computer-aided drafting as it relates to residential and commercial architecture, specifications, and structural systems including wood, masonry, concrete, and steel.

*Prerequisite: Introduction to Computer Aided Drafting*

**Content Process**

Students Will:

1. Demonstrate and practice safe work habits in the lab area.

2. Use proper drawing setup for architectural scales.

3. Relate the design with site considerations.

4. Sketch a residential floor plan.

5. Identify floor plan symbols.

6. Identify material representations in plan and section views.

7. Apply basic dimensioning techniques.

8. Construct accompanying drawings to the floor plan -i.e. elevations and electrical plans.

**Connections**

\*State Core Standards

\*KOSSA

\*State Technical Standards

\*New Generation Science Standards

\*AutoDesk Industry Standards

\*SolidWorks Industry Standards

\*Post-Secondary Education

\*CTSO - Skills USA

**Required Drawings**

Board Computer

1. Bubble drawing/Sketch FP 1. Floor plan 2. Dimensioned Floor Plan 2. Dimension Floor Plan

 3. Elevations: Front, Back 3. Elevations: Front, Back

 Right Side, & Left Side Right Side, & Left Side 4. Electrical Plan 4. Electrical Plan

5. Plan & Section views

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**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.
2. **Handbook policies:** Handbook 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.**

**2. Computer Equipment:**

Dell computer package includes processor, monitor, keyboard, and mouse. All necessary computer equipment and supplies are provided; however, should students damage any piece of the equipment (even accidentally), that 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. Introducing and Implementing Revit Architecture 2010 by Lay Christopher Fox and James J. Balding, AIA. DELMAR Cengage Learning.
3. 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. Software:** AutoDesk: Architectural Desktop 2015 and AutoCAD Revit 2015

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). Each quiz will include an open response question. 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 architectural 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.