

Architecture Drawing and Design I

Syllabus, Fall 2018

wheelerdrafting.weebly.com

Ms. Valerie Bolen

Wheeler High School, Rm. LL3

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Architecture Drawing and Design I

COURSE DESCRIPTION:

Architecture Drawing and Design I is the second course in the Architectural Drawing and Design CTAE Pathway. Students in this course will be introduced to the basic terminology, concepts, and principles of architectural residential design. Emphasis will be placed on elements and principles of design, site analysis, site models, floor plans, foundations, roof designs, elevations (interior and exterior), and schedules. Students will use Autodesk 2017 AutoCAD and Revit as well as digital fabrication technology including the large format printer, laser cutter/engraver, FDM 3d printer and CNC router to produce drawings and scale models. Students who successfully complete this course and Architecture Drawing and Design II will be eligible to take the End of Pathway Assessment leading to Autodesk 2017 Revit User Certification. Prerequisite: Introduction to Drafting and Design.

MATERIALS AND EQUIPMENT:

You will need a USB drive and a sketchbook for notes/ideas (any size of your choice). Items are available at office supply or art stores. You will be responsible for maintaining and submitting a final digital portfolio of your work throughout the semester. You will be given instructions for doing this. Some projects may require purchase of additional materials such as acrylic, chipboard, or other model making supplies.

GRADING:

10%	Class Participation
20%	Quizzes
10%	Tests
40%	*Multiple Class Projects, Drawings and Physical/Digital Models
20%	*Final Digital Portfolio and Final Exam

**Major Assignments will be received late, but there will be a penalty for each day late.*

Per Wheeler policy, grades will be entered weekly and graded work returned within 5 days with the exception of the final project and exam. The final portfolio and exam takes time to grade but will be returned to you as quickly as possible.

EXPECTATIONS:

1. Be respectful: Of yourself, others, our classroom environment, your work station, materials/equipment, our school, and our community. Keep your workstation neat and put supplies away at the end of class. Use classroom tools properly and for their intended use.
2. Be on time: Have a pass if you are late. Be prepared and complete assignments on time.
3. Be courteous: Be polite and helpful and willing to work with others.
4. Be actively engaged: Be attentive and participate in class activities, discussions, and presentations. Utilize class time and work diligently on projects and assignments. Lab computers and printers are for class related research and projects only. Videos, gaming or other non-class related activities including printing projects/papers for other classes are not permitted. Please have cell phones and other devices, food and drinks put away unless otherwise noted.
5. Class participation grades will be based on following class expectations and exhibiting workplace readiness and employability skills.

Note also that students must adhere to all rules in the Wheeler High School Student Handbook. Phones may be used on certain occasions with permission to document work as a camera, used for research, interactive lessons or to listen to music while working. Otherwise, texting, making/receiving calls, gaming, selfies/videotaping, or charging phones etc. is not permitted during class.

COMMUNICATION:

Please feel free to contact me if you have any questions or concerns. I can be reached best by:

E-mail: valerie.bolen@cobbk12.org or 770-578-3266 ext. 103

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Course Standards:

- 1: Employability skills required by business and industry
 - Resume
 - Portfolio
- 2: The Architectural Design Process
 - Elements and Principles of Design
 - Historical Architectural Styles
 - Famous Architects and Projects
 - The Design Process
 - Analyzing a building site
 - Sustainable Design
 - Universal Design
- 3: Architectural Drafting Skills
 - Read and interpret existing architectural drawings
 - Use an architect's and engineer's scale
 - Calculate volume and area
- 4: Prepare Residential Floor Plans using Computer-Aided Design (CAD) – Autodesk Revit 2017 Training
 - Building codes
 - Scale
 - Dimensions and symbols
- 5: Research Roof systems, Styles and Terminology
 - Various styles and constructions (hip, gable, mansard, gambrel, shed and flat)
 - Terminology (rise, run, slope, pitch, overhang, eave line and ridge line)
 - Environmental and aesthetic issues
- 6: Prepare elevations for residential drawings
 - Labels and dimensions (roof slope, door and window location, etc.)
- 7: Prepare schedules on a set of architectural drawings
 - Generate window, door and finish schedules
- 8: Identify and prepare foundation plans
 - Foundation systems: slab, crawl space, and basement
- 9: Maintain a course portfolio
 - Complete a residential house project incorporating all standards
 - Reflect on design process utilized
- 10: Learn about SkillsUSA
 - State and international competitions/activities available

We will complete multiple projects throughout the semester to learn and demonstrate each of the standards.

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PLEASE SIGN AND RETURN THIS PART OF THE COURSE SYLLABUS. RETAIN THE SYLLABUS FOR YOUR REFERENCE. IF YOU HAVE ANY QUESTIONS, YOU MAY NOTE THEM BELOW OR CONTACT ME SEPARATELY.

Student Name

Class Period

Student Email Address

I have read and understand the terms of the Architecture Drawing and Design I Syllabus.

Student Signature

Date

Parent/Guardian Signature

Date

Parent/Guardian Printed Name(s)

Parent/Guardian Cell Number

Parent/Guardian Work/Daytime Number

Parent/Guardian Email Address (Please print clearly)

Please feel free to leave any comments, concerns or information you would like to share with me below: