**I. COURSE TITLE:** Architectural Drafting and Design

**COURSE NUMBER:** 2236 **CATALOG PREFIX:** ENDS

**II. PREREQUISITE(S):** ENDS 1142

**III. CREDIT HOURS:** 3 **LECTURE HOURS:** 3

**LABORATORY HOURS:** 0 **OBSERVATION HOURS:** 0

**IV. COURSE DESCRIPTION:**

An introductory course where students learn design of residential buildings. Including elevations, foundations, and interior drawings. This course also involves the study of architectural symbols, nomenclature, detailing, sectioning, dimensioning, and the use of architectural catalogs.

**V. ADOPTED TEXT(S):**

Architecture: Residential Drafting and Design

10th Edition

Kicklighter, Clois E.,Kicklighter, Joan C.

The Goodheart-Willcox Company, Inc., 2008.

ISBN: 978-1-59070-699-2

**VI. COURSE OBJECTIVES:**

* Increase students proficiency using drafting equipment.
* Increases the ability of students to understand and use proper system of dimensioning drawings, and problem-solving methods.
* Increase ability of student to draft assembly drawings, including elevations, foundations and interior views; room, climate, plumbing, and electrical planning,
* Increase students understanding of architectural symbols used in drawing.
* Introduce the students to some common methods used in manufacturing residential buildings.
* The student will understand and use proper architectural nomenclature.

**VII. COURSE METHODOLOGY:**

Course Methodology is at the discretion of the instructor. The course material will be primarily delivered through the lecture/discussion method. Lecture experiences are included as well as hands-on demonstrations and in-class work.

Course methodology may include, but not be limited to, lecture and problem solving, independent and group projects, in-class and home assignments, quizzes, papers, reports, presentations and tests.

Problem solving will use both graphical and mathematical methods.

Attendance is required.

**VIII. GRADING**

A = 90 – 100

B = 80 – 89

C = 70 – 79

D = 60 – 69

F = 0 – 59

See college catalog for description of other possible grades.

**IX. COURSE OUTLINE:**

WEEK: MATERIAL:

1. Introduction – Ch. 1 The World of Architecture

Chapter 2-3 Basic House Designs and Primary Consideration

1. Chapter 4 Drawing Instruments and Techniques

Test 1

1. Chapter 5 Introduction to Computer-Aided Drafting and Design

Chapter 6 CADD Commands and Functions

1. Chapter 7 Room Planning – Sleeping Area and Bath Facilities

Chapter 8 Room Planning – Living Area

1. Chapter 9 Room Planning – Service Area

Chapter 10 Plot Plans

1. Test 2

Chapter 11 Footings, Foundation, and Concrete

1. Chapter 12 The Foundation Plan

Chapter 13 Sill and Floor Construction

1. Chapter 14 Wall and Ceiling Construction

Chapter 15 Doors and Windows

1. Chapter 16 Stairs

Chapter 17 Fireplaces, Chimneys, and Stoves

1. Chapter 18 The Floor Plan

Chapter 19 Roof Designs

1. Test 3

Chapter 20 Elevations

1. Chapter 21 Residential Electrical

Chapter 22 Information, Communication, and Security Wiring

1. Holiday Presidents Day

Chapter 23 The Electrical Plan

1. Chapter 24 Residential Pluming

Chapter 25 The Plumbing Plan

1. Chapter 26 Residential Climate Control

Chapter 27 Climate Control Plan

1. Final Examination

**X. OTHER REQUIRED TEXTS, SOFTWARE, AND MATERIALS:**

Scientific calculator

Scale and Protractor

Graphing paper (1/4" squares)

A 3-ring binder for keeping correct solution of assigned problems.

Paper for solution of problems pre-printed with outline may be provided.

Student will need an auxiliary storage device, flash drive or network

home-drive.

Students are asked to provide access to a computer with web-access and Microsoft Office if their work will not be completed on campus where such equipment is provided.

(Please see Weather Policy and Grading.)

**XI. EVALUATION:**

Assignments count – 25% of Final Grade

Communications and Attendance -- 10% of Final Grade

(3) Tests count – 25% of Final Grade

Research Presentation or Paper – 25% of Final Grade

Final counts – 15% of Final Grade

Note well:

Class participation - it is your class, and your participation improves it.

Class attendance - text covers 50% of material, in-class the other 50%.

* If adjustments must be made to the schedule you
* need to be in class to learn of the changes.

Evaluation will include the development of ability to analyze problems and present the

results and the retention of general information, data handling skills, and accuracy.

For a maximum score in communication, the student must both email the instructor and participate in the course discussion each week of the course. The term paper must be successfully completed to pass the course. Assignments must be submitted in a 3-ring binder to pass the course.

**XII. SPECIFIC MANAGEMENT REQUIREMENTS:**

* + All assignments and tests must be turned in on time.
  + Students may work on their own time to complete the assignments.
  + Some group work is encouraged on exercises and assignments.
  + Designated assignments must be in 3-ring binder to pass the course.
  + Examinations will include written and graphical components.
  + For credit, all assignments will be completed as scheduled.
  + No test may be taken late without prior approval of instructor.
  + No make-up tests. Read your student handbook.

**XIII. OTHER INFORMATION:**

**FERPA:** Students need to understand that your work may be seen by others.

Others may see your work when being distributed, during group project work, or if it is chosen for demonstration purposes.

Students also need to know that there is a strong possibility that your work may be submitted to other entities for the purpose of plagiarism checks.

**DISABILITIES:** Students with disabilities may contact the Disabilities

Service Office, Central Campus, at 800-628-7722 or 937-393-3431.

Academic Dishonesty and FERPA: Plagiarism and cheating are serious offenses and may be punished by failure on exam, paper or project; failure in course; and or expulsion from the College. For more information refer to the "Academic Dishonesty" policy in the Student handbook/ Catalog.  Your work may be reviewed with other instructors, students or submitted to sites such as [http://www.turnitin.com](https://mail.sscc.edu/owa/redir.aspx?C=d38b85d1c04a4973b729c4cfc7a540f9&URL=http%3a%2f%2fwww.turnitin.com) to check for plagiarism violations.  Plagiarism as defined by SSCC can be viewed at the [SSCC Statement of Academic Misconduct Website](https://mail.sscc.edu/owa/redir.aspx?C=d38b85d1c04a4973b729c4cfc7a540f9&URL=http%3a%2f%2fwww.sscc.edu%2facademic%2fcomplete-catalog.pdf) – pages 56 and 57.  Copying and pasting information from a website into a document without citing resources and using quotations noting proper documentation will constitute plagiarism by SSCC standards.  “Proper documentation” is a written acknowledgement, such as the use of quotation marks and footnotes that alert a reader to the fact that the words or ideas are not that of the writer and citing the resource information.  Plagiarism can result in failure on an examination or paper, failure in a course, suspension for one to three quarters, dismissal from the College for one year, and/or possibly civil penalties. **This professor does not withdraw students for plagiarizing or copying someone else’s work – this professor fails students for plagiarizing and copying someone else’s work.**  (Used with permission of Julia Basham. ☺ )

Weather Policy:

In the event SSCC must close or alter its operating schedule because of severe weather or other emergencies, students should contact their instructor using email, if possible. Students who reside in areas which fall under a Level III Weather Emergency should not attempt to drive to the college even if the college campus remains open. If a campus closure corresponds with an exam period, the exam period will be extended by the corresponding amount of time the campus was closed. Students should email their instructor for clarification, if necessary.