



Course Syllabus

Course #: 1110 Course Name: Architectural Drafting I

Division: Engineering and Industrial Technologies

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Class Days:

Class Time:

Location: Classroom: E209

Laboratory: E209

Credit Hours: 3

Contact Hours: 3

Lab Hours: 3 Lecture Hours: 1

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Instructor: William Hotz

Office Location: E215G

Phone: 419-559-2448

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Office Hours: TBD

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Full-time Contact Person: Jayne Bowersox Phone(s): (419) 559-2410

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Course Description:

This course is a study of basic architectural drafting skills: lettering, technical drawing, and organization of working drawings. This is accomplished by producing a set of plans for a small residence. Details associated with framed construction including foundations will also be study extensively.

Prerequisite(s): None

Corequisite(s): None

Entry Level Skills and Knowledge:

Required Texts, ADT 1110 book from bookstore

Supplies and Equipment:

Architectural scale

45° triangle \*

30/60 triangle\*

Circle template up to

2 1/4" dia.

Architectural template

Eraser

Eraser shield

Brush\*

Tape, masking or drafting

French curve

Lead holder\*

Mechanical pencil

Leads HB, 2H and 4H

Carrying tube

(\* indicates supplies provided)

## Grading:

90 – 100 = A

80 – 89 = B

70 – 79 = C

60 – 69 = D

59 and Below = NC

## Learning Outcomes:

### General Education

1. **Communicate effectively**
2. **Evaluate arguments in a logical fashion**—Competence in analysis and logical argument are explicit learning goals for most general education programs, although these skills go by a variety of names (e.g., critical thinking, analysis, logical thinking, etc.). **Students will be able to demonstrate competence in problem solving in communication, mathematics, and in team settings.**
3. **Employ the methods of inquiry characteristic of natural sciences, social sciences, mathematics, and the arts and humanities;** general education introduces students to methods of inquiry in several fields of study and thereby prepares students to integrate information from different disciplines.
  - Problem Solving
  - Communicating
  - Using Technology
  - Number Sense
  - Listen

### Technical

- To have an understanding of basic building materials concrete, masonry, wood, and building components
- Complete assignments on time

## Assessment of Student Learning:

This course will include several tests covering the main topics of the course and one class presentation on a topic approved by the instructor in the building field. The results of this assessment will be shared among the department faculty, used to identify needed changes or improvements, and submitted to the Student Academic Assessment Committee as part of the college's overall student academic assessment effort.

Assessment Project and Measurement in course (if any):none

**Plan of Work:**

**Session:**

- |           |   |
|-----------|---|
| 1         | Review drafting equipment required.<br>Discuss lettering types and sizes.<br>Practice lettering for the period.<br>Handout: Term Project<br>Equipment List<br>Lettering Guide<br>Lettering Handout  |
| 2 &3      | Review floor plans.<br>Discuss line wgt., labeling and dimensioning.<br>Work on floor plan exercise for labeling<br>line wgt., dimensioning and scale.<br>Handout: Floor Plan Exercise<br>Dimensioning Handout  |
| 4         | Review basic house design principles; sizes,<br>traffic flow, fixture dimensions, wall thicknesses,<br>building modules Ex. stud spacing, material size and<br>masonry. (Review graphic standard).<br>Work on free hand drawing of floor plan for project and |
| homework. | finish it for<br><br>Floor Plan Dimensions Quiz.<br>Handout : Quiz  |
| 5         | Floor plan of house to be turned in at beginning of class. Floor plan drawn to scale but freehand. The whole<br>class will review each plan as a group. If time permits, work on working drawing floor plan will begin.<br>Handout: 24" x 36" Vellum          |
| 6         | Review plan working drawings line wgt., wall<br>crosshatching and locating drawing on the paper.<br>Show how to run print machine.  |

**Topical Outline (Continued):**

7	&8	Print of working floor plan due at end of 8 <sup>th</sup> class. Discuss building elevation, what is shown, dimensioned and noted on drawing. Handout: Example Elevations
9		Review line wgt. and how it helps make elevation drawing read better elev @ 1/4" = 1'0". Instructor must review all elevations.
10		Work Day -- Student to draw on elevation.
11		Work Day -- Student to draw on elevation.
12		Elevations are due to be handed in at end of class period.
13		Explain building sections show examples of sections. Start building sections.
14		Review building sections continue working on sections.
15		Review building sections continue working on sections.
16		Fix drawings
17		Fix Drawings
18		Foundation and wall details
19		Foundation and wall details
20		Foundation and wall details
21		Foundation and wall details
22		Window & door details
23		Window & door details
24		Window & door details
25		Eave details
26		Eave details
27		Eave details
28-30		Fix drawings

Will follow the CSI format

NOTE: Field trips, guest speakers and tests will be interspersed among the sessions.

**Assignments/Projects:**

- Reports on field trips and guest speakers due at the next class meeting - will not be accepted after that.
- Paper on an architect or architectural type

- Oral report to class

**Grading:**

The final grade will be based on the completion of reports, special project and tests on the major course segments.

There will be no make-up test given. If you cannot make it to a test for some serious reason, contact the instructor before the test date.

- Reports average will count as one test grade and lowest report grade will be dropped from the average.
- Paper will count as a test grade.
- Oral report will count as a test grade.

**Course Requirements:**

Complete all assignments as required

**Policies**

All students will show respect to one another.

**Course Withdrawing:** If for any reason you need to withdraw from this course, be certain that you do so according to College procedure. It is your responsibility to know and follow this procedure. If you simply stop coming to class, without officially withdrawing from the course, your grade is an automatic "F." Please follow official College procedure for withdrawing from this or any course.

*College Academic Policies are located in the College Catalog. A copy of the current catalog may be picked up in any of the division offices or admissions. The list of college policies is also available online at <https://www.terra.edu/register/Collegecat/policies.asp>.*

**Support Services:** The College offers a number of support services to assist in your success in this course and all courses. Among these services are the Writing & Math Center in B105, the Office of Learning Support Services, which coordinates the campus disability services and tutoring programs, the computer labs, and the computers in the atriums.

Any student who feels he/she may need an accommodation based on the documentation of a disability should contact the Office of Learning Support Services privately to discuss his/her specific issues. Please contact the OLSS at (419) 334-8400 X 208 or visit 100 Roy Klay Hall (Building A) to coordinate reasonable accommodations.

***If you have a documented disability and are receiving academic accommodations through the Office of Learning Support Services, please schedule a meeting with your instructor in a timely manner so that we may discuss how these services will be arranged.***

Tutoring services are available to students beginning the second week of every quarter. Students requesting tutoring services should obtain a tutor request form from the OLSS in 100 Roy Klay Hall (Building A) or online at the Terra website. Please note that instructor verification and acceptance of the Student Learner Agreement is necessary for all tutoring requests. All requests should be submitted to 100 Roy Klay Hall (Building A).