

ARCH 105 ARCHITECTURAL PRACTICE 1

1 Unit, Required Laboratory Course, Fall Quarter

DESCRIPTION:

Shop safety, machine and tool operation and small-scale design and construction.

1 laboratory.

Co-requisite: ARCH 121 or ARCH 131.

OBJECTIVES:

The student completing this course will be aware of:

History, manufacturing, nomenclature, and construction techniques for major building materials.

The various materials of construction in present day use.

The potential for development of new materials.

The regulatory constraints of the design/building industry.

The sequential process of building.

The methods of manipulating and fabrication of building materials.

The basic structural forces that building materials must resist.

The student completing this course will understand:

The limitations of the materials use and effect on design.

The concepts of appropriateness of materials selection.

The process by which materials are integrated.

Various methods of construction.

The interaction of the various participants in the design/building industry.

How structural forces are transferred through the building.

The student completing this course will be able to:

Select appropriate materials based on their characteristics.

Identify materials and connecting methods.

Utilize and integrate the knowledge gained in this course in design and practice courses.

CONTENTS:

Weeks 1 - 5: Shop safety and equipment operation demonstrations and the construction of small-scale things that demonstrate understanding of safety and equipment usage.

Weeks 6 - 10: The construction of a small scale object.

REQUIREMENTS & INSTRUCTIONS:

Assessment

Attendance at Shop/Laboratory Meetings: Attendance/Total Meetings=Grade (10% of class grade)

Joinery Assignments: Assignment Grades/Number of assignments (30% of class grade)

Building Material Integration Project: Project Grade (60% of class grade)