

OUTCOMES BASED LEARNING MATRIX

Course: **Construction Planning ARCH 230**

Department: _____

ARCHITECTURE

Four aspects of building construction are studied. This includes the use of building materials, the development of structural systems, and the development of environmental systems as they relate to architectural concepts and functions. Field sketching of building construction and graphic clarity of representation are stressed to develop design presentation skills. Internet research, computer graphics and field trips are used by students for projects and presentation. Lecture: 1 hour Laboratory: 4 hours Pre/Corequisite: English Composition I (ENGL101) or waiver by placement testing results or Permission of Instructor

Demonstrate Understanding of specific, basic environmental principles	Design a buildable model of the sun, moon, and earth system. Read and practically apply solar path charts	In- class problems (CT, OC, QS, R)
Explore the concept of basic shelter in terms of human physiology in the natural environment.	Read Text	In- class problems (CT, OC, QS, R)
Identify the functions of modern building components used to mediate the natural environment.	Study and compare functions outlined in various sources including the text and AGS. Evaluate familiar spaces and circumstance.	In- class problems (CT, OC, QS, R)
Demonstrate knowledge of the physiology of thermal comfort and energy balance.	Read text	In- class problems (CT, OC, QS, R)
Select building material for an elementary shelter.	Utilize generalized material in texts and AGS.	Group Projects evaluations (CT, QS, R, W)

Sketch schematic plan, elevation and section of a small architectural project	Design a building	Critique in studio style (CT, TS, OC, QS)
Understand water and waste systems	Sketch layouts Study text and answer text questions.	Quiz (TS, QS, R)
Understand the basics of seeing and hearing and related building properties.	Read Text Integrate material into sketch problems	Quiz Sketch problems presented and evaluated (CT, TS, QS)
Understand the basics of structural systems	Read Text Integrate material into sketch problems	Quiz Sketch problems presented and evaluated (CT, TS, QS)
Understand the basics of building movement	Read Text. View actual building elements	Quiz (TS, R)
Understand the basics of fire, control and safety issues	Read Text. View actual building elements	Quiz (TS, R)
Demonstrate and understanding of the design process and integrated building systems	Design a project	Critique in studio style (CT, TS, OC, QS)