



**Philadelphia University
Faculty of Engineering
Department of Architecture
First semester, 2009/20010**

Course Syllabus

Course Title: Principles of Architectural Design	Course code: 660222
Course Level: Second	Course prerequisite (s) and/or corequisite (s): 660226
Lecture Time: 1-2	Credit hours: 3

Academic Staff Specifics

Name	Rank	Office Number and Location	Office Hours	E-mail Address
Ayman Tomah	Associated Professor	6407	12-1 Mon- Wed	aymantomah@hotmail.com

Course module description:

This course elaborates on combining architectural basics and concepts as a comprehensive system, adding to the previous creation and composing knowledge of the student a new perspective by introducing the requirements of human beings, their life and environment, in addition to the methods of interpretation into architectural entities.

Course module objectives:

- To emphasize the elements and principles of design.
- To understand what constitutes an architectural Programming.
- To start the process by the student of a discourse on the nature, types, objectives, and outcomes of a design thesis.
- By doing research the architectural designer will strength and develop the capabilities of reasoning in design and will deeply explore the design thinking process.
- Developing and mastering the students both, design and research capabilities allowing the possibility of originally contributing to knowledge.

Course/ module components

This course contributes to the second and third year of Architectural science and design topics.

- **Books (title , author (s), publisher, year of publication)**
Non
- **Support material:**
slide show, CD's, data show DVD's, site visits
- **Homework and laboratory guide :**
students are requested to prepare an analysis and an elaboration of the components of the own project.

Teaching methods:

There are two in-class exams during the term, a final exam, and graded homeworks and drop-quizes. Computer-based visual aid has been introduced. Regular feedback from students is reviewed and, in some cases implemented.

Learning outcomes:

- Knowledge and understanding
To familiarize the student with the systematic scientific approach to the identification and solution of practical problems in architectural engineering.
- Cognitive skills (thinking and analysis).
Cognitive senses using deferent techniques. Also students will be able to express their ideas in architectural drawing
- Communication skills (personal and academic).
Architectural students will be able to communicate, read, use resources to develop their cognitive senses in architecture and environment.

Course Evaluation:

100 %	Year Work (90 Marks)	<i>First Exam</i>		25 marks
		<i>Second Exam</i>		25 marks
		Final Exam		40 marks
	Final Exam	<i>Contribution</i>		10 marks

Documentation and academic honesty:

- Students are allowed to practice on sketching from books for training purposes copying is not allowed.

Course/module academic calendar:

Week 1	Monday 07-10-2009	Outlines and introduction.
	Wednesday 09-10	
Week 2	Monday 13-10	Terminology.
	Wednesday 15-10	
Week 3	Monday 20-10	Elements of Architectural Design.
	Wednesday 22-10	
Week 4	Monday 27-10	Elements of Architectural Design.
	Wednesday 29-10	
Week 5	Monday 03-11	Principles of Architectural Design.
	Wednesday 05-11	

Week 6	Monday 10-11	Principles of Architectural Design
	Wednesday 12-11	
Week 7	Monday 17-11	Principles of Architectural Design
	Wednesday 19-11	
Week 8	Monday 24-11	Introduction to Architectural Programming
	Wednesday 26-11	
Week 9	Monday 01-12	Architectural Programming
	Wednesday 03-12	
Week 10	Monday 08-12	Architectural Programming
	Wednesday 10-12	
Week 11	Monday 15-12	Architectural Programming
	Wednesday 17-12	
Week 12	Monday 22-12	Architectural Programming
	Wednesday 24-12	
Week 13	Monday 29-12	Case studies and examples
	Wednesday 31-12	
Week 14	Monday 05-01-2010	Case studies and examples
	Wednesday 07-01	
Week 15	Monday 12-01	Architectural Form
	Wednesday 14-01	
Week 16	Monday 19-01	Architectural Form
	Wednesday 21-01	

Attendance policy:

Absence from lectures and/or tutorials shall not exceed 15%. Students who exceed the 15% limit without a medical or emergency excuse acceptable to and approved by the Dean of the relevant college/faculty shall not be allowed to take the final examination and shall receive a mark of zero for the course. If the excuse is approved by the Dean, the student shall be considered to have withdrawn from the course.

Module references:

1. Problem Seeking, An Architectural Programming Primer, William M. Pena, Steven A. Parshall, John Wiley & Sonns, Inc. 2002
2. Programming for Design, From Theory to Practice, Cherry Edith, New York: John Wiley & Sonns, Inc. 1998.
3. Architectural Programming and Pedesign Mana. Hershberger Robert, New York: McGraw Hill, 1999.