

Course name: ARCHITECTURAL DESIGN STUDIO (4)

Course code: ARCH 306

Course hours: Credit hours 5, Contact hours 10

Course Pre-requisites: ARCH 205

Course Description

This course focuses on the design of various residential buildings, which are based on the diverse needs, values, behavioral rules, physical abilities, social and spatial patterns of different cultures and individuals, and design sites, facilities and systems to provide independent and integrated use by handicapped, Application and performance appropriate for service systems.

Course Main Objective

In this course, the students will be:

- Understand the diverse needs, values, behavioral norms, physical abilities, and social and spatial patterns that characterize different cultures.
- Ability to design sites, facilities, and systems to provide independent and integrated use by individuals with physical (including mobility), sensory, and cognitive disabilities.
- Understand the basic principles and appropriate application and performance of building service systems.

Course Learning Outcomes

After the completion of this course, the students will be able to;

- Analyze an existing precedent through specific design research process.
- Apply green technology and sustainable concept in the building design.
- Outline the building form, function and urban context
- Integrate building function and basic principles of life-safety systems with an emphasis on egress.
- Integrate building function and basic principles of spaces designed for handicapped.

Course evaluation

- Attendance and instructor's evaluation
- Weekly/biweekly reviews
- Class participation
- Mid-term Review
- Pre-final
- Final Jury

Course recommended books

- .Mornement, A., & Biles, A. (2009). Infill: new houses for urban sites. Laurence King Publishing.

Course References

- Saudi Building Code National Committee. (2007). The Saudi Building Code (SBC)—Section 601: Energy Conservation. Riyadh, Saudi Arabia, 196.