



Jordan University of Science and Technology
Faculty of Architecture And Design
Architecture Department

ARCH201 Computer Aided Design (1)

Second Semester 2024-2025

Course Catalog

3 Credit Hours. Systematically introduces computer-aided architectural design applications commonly encountered during professional practice. Develops basic familiarity and proficiency with principles of computer-aided architectural design using the Windows operating system. Presentation and training focus on AutoCAD software. Includes 2D & 3D modeling of existing buildings. Topics include objects, layers, classes, annotation methods, dimensions, units, scales, groups, symbols, blocks and graphic database library storage & retrieval techniques. Presents new methods of moving from 2D planes to 3D masses. Architectural graphic presentation with added values of rendering & lighting effects.

Teaching Method: On Campus

Text Book

Title	Aubin, P. F. (2020). Revit Essentials for Architecture: 2021 and beyond (Aubin Academy), G3b Press; 2021st ed. Edition (August 26, 2020)
Author(s)	Aubin, P. F.
Edition	1st Edition
Short Name	Revit
Other Information	

Course References

Short name	Book name	Author(s)	Edition	Other Information
Photoshop	Adobe Photoshop CC Classroom in a Book. Adobe Press	Faulkner, A., & Chavez, C.	1st Edition	
AutoCAD	Mastering AutoCAD 2021 and AutoCAD LT 2021. Sybex	Omura, G., & Benton, B. C.	2nd Edition	

Class Schedule & Room

Prerequisites		
Line Number	Course Name	Prerequisite Type
2211010	ARCH101 Architectural Drafting	Prerequisite / Pass

Tentative List of Topics Covered		
Weeks	Topic	References
Week 1	Course policy and syllabus	
Weeks 4, 5, 6, 7, 8, 9, 10, 11, 12, 13	Revit	From Revit
Weeks 14, 15	Photoshop	From Photoshop
Weeks 1, 2, 3	2D drawings	From AutoCAD

Mapping of Course Outcomes to Program Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
Understand the basic tools and implementation methods and skills of computer-aided drafting and design [1S3]	10%	
Understand skills for producing 2D design representations and communications through digital media [1S3]	20%	
Understand skills for producing 3D design representations and communications through digital media [1K1, 1S3]	30%	
Understand skills for producing 4D design representations and communications through digital media [1K2, 1S3]	17%	

Relationship to Program Student Outcomes (Out of 100%)											
K1	K2	K3	S1	S2	S3	S4	S5	C1	C2	C3	C4
15	8.5				53.5						

Evaluation	
Assessment Tool	Weight
Mid Exam	20%
Final Exam	30%
Assignment 1	10%
Assignment 2	20%
Assignment 3	10%
Assignment 4	10%

