

ACCF IDCD 391 COMPUTER AIDED DESIGN - 3D RENDERING (CINEMA 4D)

Program	Three-year course in Design
Course	Computer Aided Design Course
Credits	3
Professor	Michela Tonelli

Course Description	This introductory course offers instruction in Cinema 4D basics starting from standard solid modelling and learning how to transform 2D geometries into 3D objects. Students will learn how to import AutoCAD drawings as a starting point for 3D modeling.
Learning Objectives and Outcomes	Students will learn the basic commands and functions of Cinema 4D; beside this software, this course will work with AutoCAD.
Student Assessment	Students will be assessed on the collection of their works compiled in book of pdf drawings in A3 format. It will include all the exercises and renderings carried out during the course and will be produced using Cinema 4D. Students must not have more than 4 absences to be eligible for the final assessment.
Bibliography, Webography, Filmography	- AA.VV., "Cinema 4D per l'architettura", Fag, 201 - https://www.youtube.com/channel/UCI14dITOfjFVRm4bUDLY5mA/videos - http://angeloferretti.blogspot.it/p/guida-cinema4d-e-vray.html - https://www.maxon.net/it/prodotti/cinema-4d/cinema-4d/

Week 1	Course presentation, user interface and basic tools, images and photographs of contemporary architecture and examples of computer graphics.
Week 2	PARAMETRIC MODELING _ 3D modelling with basic solids. Exercise n. 1: free composition and movement of basic solids.
Week 3	Modeling and early operations between solids, creation of a basic material Exercise n.2: modelling of elements of interior design such as a table, chair or bookcase.
Week 4	SPLINE MODELING. Importing CAD files. SPLINE editing. Extrude Nurbs, Paths Nurbs, Revolution Nurbs, Loft Nurbs. Exercise n. 3: Tom Dixon's Lamps.
Week 5	Importing CAD files. Different extrusion techniques. Exercise n. 4: modelling of a staircase.
Week 6	POLYGON MODELING Polygonal 3D model. Point, line, face, in 3D polygonal modeling. Exercise n. 5: solid exploded

Week 7	MIDTERM TEST – in class exercise
Week 8	Presentation of final exercise, Modelling an architectural masterpiece starting from AutoCADd file. Floor, roof, columns modeling.
Week 9	Different ways of modelling windows.
Week 10	Early indications of simple rendering, wireframe, lights and shadows, choosing the point of view to obtain images of a study.
Week 11	Modeling of small buildings and pitched roofs
Week 12	Creating soft objects like armchairs, sofas and pillows.
Week 13	LAST REVSION of the final album.
Week 14	EXAM: exercise in the classroom and evaluation of the album.