

# Building Design & Construction Program

## Mission Statement

The Building Design and Construction program uses interdisciplinary high impact, engaged learning experiences to solve Sustainable Design & Construction problems of today in our local, national and international communities.

## Student Learning Outcomes

Students will have completed courses and be able to:

1. Experience residential and commercial Building Design in all phases of the design-build process. (building planning, site design, structural design, thermal & moisture protection, Mechanical-Electrical-Plumbing system design, building science & sustainability, and domestic architecture)
2. Apply the Design Process during concept development, construction document development, and contract completion using the latest 2D and 3D software. (plans, elevations, sections, details, renderings, specifications)
3. Identify best architectural business practices for project management, programming & due diligence, and contracts.
4. Understand Business Administration running a design firm (ethics, licensure, insurance, employment law, accounting, marketing)

## Curriculum Grid

	Student Learning Outcome	1	2	3	4
BDC 1040 CA – Intro to Architecture		x	x		
CMT 1100 – Intro to Construction Management				x	x
IDT 1010 CA – Intro to Interior Design		x	x		
CMT 1310 – Materials & Methods			x		
IDT 1050 – Architectural Drafting			x		
IDT 2990 - Seminar				x	x
BDC 1350 – Residential Design Studio		x	x		
CMT 1150 – Construction Graphics		x			
IDT 1020 – Presentation Techniques		x	x		
IDT 2820 – Historical Interiors		x			
CMT 1220 – Construction Contracts				x	x
IDT 2035 – Space Planning		x	x		
CMT 2410 – LEED GA Exam Prep			x		
BDC 2000 – Commercial Design Studio		x	x		
IDT 2050 - Codes		x			
CMT 2640 – Quantity Survey		x			
BDC 3000 – Sustainable Building Design & Construction		x	x		
BDC 3500 – Architectural Rendering & Animation		x	x		
IDT 3025 – Professional Practice				x	x
BDC 3660 – Structural Building Design & Construction		x	x		
BDC 4350 – BIM Management & Coordination		x	x		
BDC 4600 – Senior Project		x	x	x	x
IDT 4040 – Portfolio		x	x		

## **Program and Contact Information**

The Building Design & Construction program teaches the processes, procedures and management techniques necessary to function as a "Certified Professional Building Designer (CPBD)" as defined by the American Institute of Building Designers (AIBD). It is designed to prepare students for immediate professional level employment or further study by developing a cohesive, solid technical foundation bolstered by practical, hands-on experiences, at the same time providing the education necessary for lifelong learning in a changing world. The process of learning is emphasized, as well as accumulation of knowledge. The multi-disciplinary curriculum is composed of courses in the areas of building design, construction management, interior design as well as general education.

The Building Design & Construction curriculum is a "2+2" design facilitating articulation with programs in architecture, building construction, design graphics, facilities and other construction-related degrees. In this regard, articulation agreements are currently in place between Davis Technical College, Ogden-Weber Technical College, Bridgerland Technical College, and Salt Lake Community College. An agreement to transfer into the University of Utah Architecture program is in the works.

### Contact Information:

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## **Assessment Plan**

All areas:

National Exam: AIBD Certified Professional Building Designer Student Exam

This exam covers the material taught through the entire program and aligns with the student learning outcomes. This exam is given in November and April. All graduating students expected to score 70 of 100 or better in the exam to graduate.