Architectural Design Technology, A.A.S.

Program Code
AAS-ADMA-DDBA
CIP
15.0613
Type
A.A.S.

The Architectural Design Technology (ADT) degree path will augment students' learning by coupling theory-based instruction with hands-on applications using current software. The ADT path software includes, but is not limited to, Revit Building Information Modeling (BIM), Chief Architect, with an option for Lumion, Sketch-up or NavisWorks, and AutoCad. ADT classes offer students knowledge in innovation design, formal design process, BIM, advanced critical thinking, project management, civil, and structural design. Students will obtain the skills needed to plan, develop, and produce final construction documents for residential and commercial applications.

Portfolio class offers students training in professionalism; instruction includes resume building, networking in an internet world, interviews, etc. All students produce an electronic website portfolio for marketing their skillset.

Graduates will be qualified to seek positions in the following fields: Architectural Designer, 3D Designer, CAD Technician, Civil Engineering Technician, BIM/CAD Technician, Structural Engineering CAD/BIM Technician, Electrical Engineering CAD/BIM Technician, Mechanical, CAD/BIM Technician BIM managers or coordinator, BIM Modeler, BIM Detailer, BIM/Revit Designer, Construction BIM Technician, Construction Management, Architectural Graphic Designer, Model Builder, Rendering/Illustrator, 3D Detailer, Architectural/Engineering Design CAD operators, Survey and Mapping Technician, Drafter/CAD Operator Architectural/Engineering Drawing Checker, and Instructor.

* The Architectural Path student should take ADM 112, DDT 109, and DDT 111 or DDT 132 in their first semester.

GENERAL EDUCATION CORE REQUIREMENTS

Item #	Title	Credits
ENG 101	English Composition I	3
	MTH 103 or higher	3-4
	Humanities/Fine Arts Elective (Excluding Speech and Foreign Language)	3
	Social & Behavioral Science Electives	3
	Natural Science or MTH Elective	3-4

APPLIED TECHNOLOGY CORE COURSE REQUIREMENTS

Item #	Title	Credits
ADM 101	Precision Measurement	3
ADM 104	Introduction to Thermal/Electrical Principles	3
ADM 105	Fluid Systems	3
ADM 106	Quality Control Concepts	3
ADM 107	CAD Concepts	3
ADM 111	Manufacturing Safety Practices	3

ARCHITECTURAL COURSE REQUIREMENTS

Item #	Title	Credits
ADM 112	Orientation to Additive Manufacturing	1
ADM 114	Design Innovation	3
ADM 255	Application of Design (Capstone)	3
DDT 109	Introduction to Building Information - Modeling	3
DDT 111	Fundamentals of Drafting and Design Technology	3
DDT 132	Architectural Drafting	3
DDT 213	Civil Drafting, Plat Maps	3
DDT 222	Advanced Architectural Drafting	3
DDT 225	Structural Steel Drafting	3
DDT 260	Portfolio	3
	Architectural Design Electives	4-6
	Total Credits	65-69