

ARCHITECTURE & CONSTRUCTION

CAREER CLUSTER

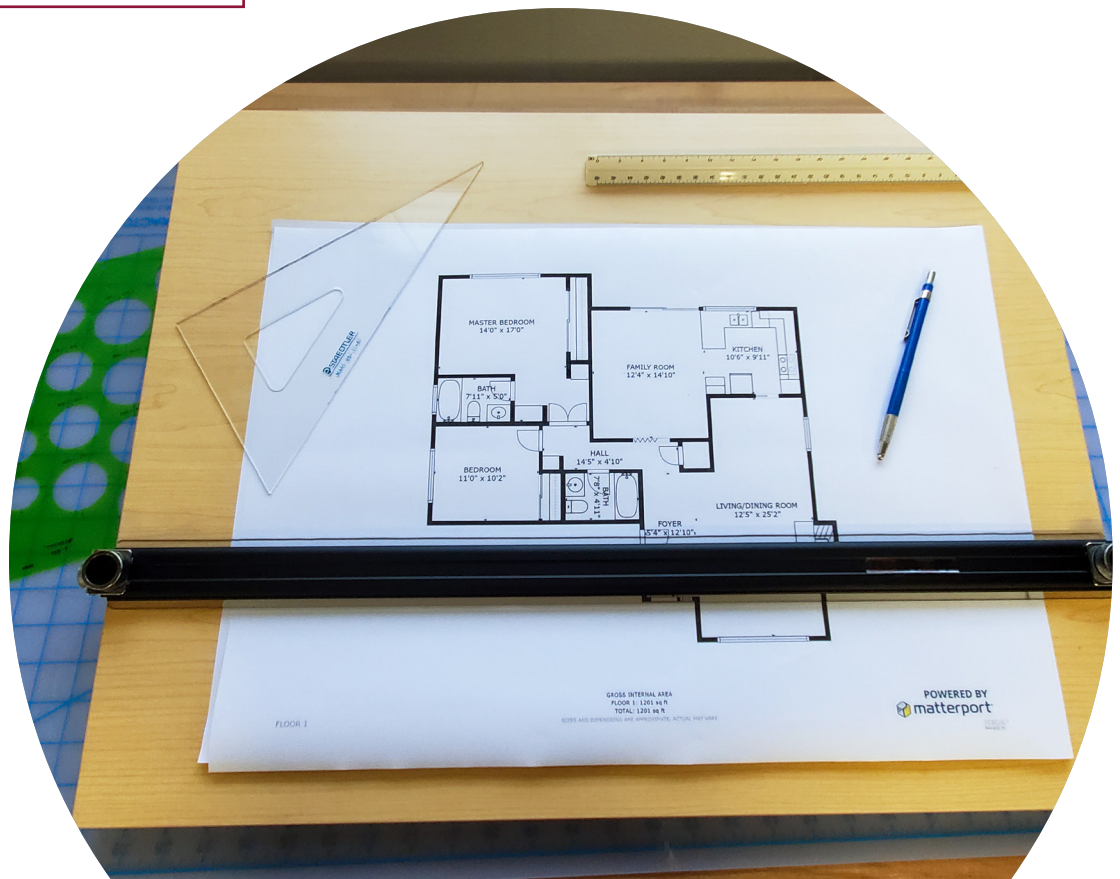
PROGRAM OF STUDY:

ARCHITECTURAL DRAFTING & DESIGN

Course	Credits	Class Periods	Grade	Location
Architectural Design I	1.0	1	10-12	Home Campus
Architectural Design II <i>Prerequisite: Architectural Design I and Geometry</i>	2.0	2	11-12	MCTC
Practicum in Architectural Design <i>Prerequisite: Architectural Design II</i>	2.0	2	12	MCTC

CERTIFICATION OPPORTUNITIES

Students will have the opportunity to test for Autodesk Associate Revit while enrolled in the Architecture program.



8030V ARCHITECTURAL DESIGN II

Grades: 11-12 2 Credits

Prerequisite: Architectural Design I and Geometry

This course provides an understanding of the architectural process including project research/programming, conceptual and schematic design, design development and material selection. Students will learn the fundamentals of design history, techniques and tools related to presentation and production drawings, renderings, and scaled models for residential architecture.

8001V PRACTICUM IN ARCHITECTURAL DESIGN

Grade: 12 2 Credits

Prerequisite: Architectural Design II

This course builds upon architectural design foundations and increases understanding of the overall process in a classroom and workplace environment. Major emphasis is placed on projects as they relate to the business world, including its process, key definitions, budgets, schedules, and presentations. Projects are team-based involving cross-functional disciplines (engineering, project management) to derive cohesive solutions. Students may have the opportunity to gain field experience through field trips, guest speakers and job shadowing.

PROGRAM EXPERIENCES

MCTC provides students with a true experience and understanding of the profession. Course content focuses on real-life applications of architecture, both in lesson content and project work. We provide a fun but realistic familiarity for students with the requirements, time commitment, and dedication it takes to pursue a career in architecture. Once these courses are completed, students should be able to make a sound and educated decision in their future careers in this industry.

CAREER POSSIBILITIES

- Building Code Writer
- Civil Engineering
- Full-Building Designer
- Historical Preservation
- Interior Designer
- Plumbing & Hydraulics
- Project Management
- Structural Engineering

EXPECTATIONS OF STUDENTS

- Maintain self-motivation
- Demonstrate the ability to be a flexible team player
- Demonstrate excellent verbal and written communication skills
- Exhibit a willingness to share creative ideas

