

Degree in Architectural Technology

Program Details

Architectural and Building Technology is defined as the study of design, systems, and construction pertaining to the science of building. The Architectural and Building Technology program is designed to develop marketable competence in a wide variety of skills within the building design profession. Leading objectives include developing the ability to apply technology to building design and to communicate practical solutions. This comprehensive program prepares the student in architectural and graphic design and the application of structural and heavy construction principles. The ability to apply codes to building design is developed, while emphasizing life safety. Skills in applying steel framing, plumbing, HVAC, electrical, and other engineering principles to building design are also stressed. Analysis of construction materials, understanding job management, scheduling, specifications, and application of contract documents to typical building construction round out the curriculum. Completion of the architectural program also offers graduates an opportunity to continue their education at several of the fine architectural schools in Massachusetts and out of state.

Graduates earn an Associate in Applied Science Degree.

Program Outcomes

Students will:

- Graphically communicate architectural ideas and building assemblies, both two and three dimensionally
- Learn digital graphics software packages and be able produce construction and presentation drawings
- Solve architectural problems through the development of an aesthetic approach and the manipulation of form and space
- Develop an understanding of building materials and methods
- Demonstrate an understanding of the coordination within a building project between architecture and related professions
- Understand basic life safety and regulatory requirements for building projects
- Study fundamental structural principles
- Utilize research from web based and other sources in architectural and construction management projects
- Identify basic methods of sustainable building practices and their environmental impacts

Graduates of this pathway should qualify for entry-level jobs in architectural, engineering, and construction management. Program prepares individuals to assist architects, engineers, and construction professionals in developing plans and related documentation for residential and commercial projects in both the private and public sectors.

Academic Map

Degree in Architectural Technology

A minimum of 20 classes and 64 credits is required. At least 16 credits of your program must be taken at Massasoit. Note: Each course completed and passed can only fulfill one program requirement. The same course cannot be used to satisfy multiple program requirements.

Semester 1

3 Credits in BLDG 100
Methods and Materials
3 Credits in BLDG 110
Working Drawings
3 Credits in ENGL 101
English Composition I
3 Credits in BLDG 120
Revit
3 Credits in MATH 203 or higher
College Algebra or Higher

Semester 2

3 Credits in BLDG 220
Intermediate Revit
3 Credits in BLDG 150
Sustainability
3 Credits in ENGL 102

English Composition II
3 Credits in Math elective - College Algebra or higher
3 Credits in Humanities or Social Science elective

Semester 3

3 Credits in BLDG 250
Site Design
4 Credits in BLDG 130
Building Environmental Systems I
3 Credits in BLDG 140
Building Codes
3 Credits in BLDG 260
Building Science
3 Credits in Physics elective

Semester 4

4 Credits in BLDG 230
Building Environmental Systems II
4 Credits in BLDG 240
Structural Design
3 Credits in BLDG 270
Professional Internship
3 Credits in PHYS course or Science elective

This academic map is a suggested semester-by-semester guide to keep you on a clear path to program completion. Please note that some classes are offered only in certain semesters, have prerequisites, or minimum passing grades. Winter and/or Summer Session classes may be available for some classes. Your [academic advisor](#) will provide you with clear direction needed to stay on course and discuss scheduling options with you. Taking courses not reflected on this map may result in courses not counting toward the completion of your requirements.

Advisory Committee

This committee brings together a diverse group of industry professionals, educators, and community stakeholders dedicated to supporting and enhancing the quality and relevance of our Architectural Technology curriculum. By sharing insights on current trends, workforce needs, and emerging technologies, the committee plays a vital role in ensuring our students are well-prepared to meet the demands of the architectural and construction industries. Together, we strive to foster innovation, uphold academic excellence, and strengthen the connection between education and professional practice.