

# ARCHITECTURE (B.S.)

The Architecture major at Keene State College is a pre-professional four-year program designed to give students a solid foundation in the artistic, scientific, and technical aspects of architecture. The curriculum offers a range of courses in studio design, building science, sustainable design, history/theory, digital technology, and practice.

The education of KSC architecture majors, grounded in the liberal arts, focuses on teaching students to become effective, creative problem solvers with the tools to adapt and evolve their career paths to meet the needs of a rapidly changing world. Graduates in architecture are prepared to pursue graduate study or transition directly into careers in architecture, planning, building science, construction management, environmental design, design-build, or other related professions.

## Integrative Studies Requirements

40 credits minimum

Code	Title	Credits	Completed
<b>Major Requirements (56 credits)</b>			
<i>Core Courses:</i>			
ARCH-180	Introduction to Architectural Design	4	_____
ARCH-230	Architectural Design I	4	_____
ARCH-260	Sustainable Design & Building Science	4	_____
ARCH-270	Commercial Construction	4	_____
ARCH-280	Architectural Design II	4	_____
ARCH-330	Architectural Design III	4	_____
ARCH-350	Architectural History I	4	_____
ARCH-355	Architectural History II	4	_____
ARCH-370	Architectural Systems	4	_____
<i>Architecture Electives:</i>			
<i>Select at least two of the following:</i>		8	_____
ARCH-120	ARCH Visualization/Communication		_____
ARCH-220	Architectural Representation & Analysis		_____
ARCH-275	Residential Construction		_____
ARCH-290	Special Topics		_____
ARCH-320	Adv Architectural Representation		_____
ARCH-360	Solar Design & Building Science II		_____

ARCH-375	Statics and Structural Analysis		_____
ARCH-380	Architectural Design IV		_____
ARCH-430	Architectural Design V		_____
ARCH-435	Portfolio Design		_____
ARCH-490	Advanced Special Topics		_____
ARCH-498	Independent Study		_____
<i>Architecture Allied Requirements:</i>			
IAART-103	Three-Dimensional Design	4	_____
MATH-111	Applied College Algebra (or any higher level MATH)	4	_____
<i>Architecture Capstone:</i>			
ARCH-480	Senior Design Project	4	_____
<i>Electives:</i>			
ARCH-494	Advanced Cooperative Education (*encouraged, not required)		_____
<b>Total Credits</b>		<b>56</b>	_____

## Minor/Additional Electives

Select additional courses of your choice to bring total number of credits earned to 120. Students are encouraged to complete a minor or an organized cluster of courses related to their career interests.

## Degree Requirements

120 credits

40 credits at the upper-level

## Knowledge

Upon completion of the architecture major students will understand:

- Basic design principles underlying two- and three dimensional design.
- The relationship between aesthetic, social, cultural, historical, behavioral, environmental, and technical aspects in synthesizing design solutions.
- A basic visual vocabulary of cities, buildings and landscapes in their historical, cultural, social, philosophical, political, and religious contexts.
- Fundamentals of building sciences including basic: physics of structures, properties of materials, construction processes, and building systems.
- The science and practice of sustainable design
- Basics of architectural practice concerning ethics, client relations, regulatory factors, and contracts.

## Skills

**Upon completion of the architecture major students will be able to:**

- Apply design principles and theories, synthesizing concepts into architectural forms
- Gather and analyze information about human needs and behavior to inform the design process.
- Investigate appropriate materials and building systems for their designs.
- Analyze, research, and question how the built environment relates to a social, cultural, historical, religious, and political context.
- Apply basic principles (qualitative and quantitative) of sustainable design to analyze the environmental impact of their design solutions.
- Analyze simple structural problems and communicate with structural engineers.
- Employ and express design solutions using conventional and state of the art visual graphic media.
- Communicate architectural ideas in written and oral form.
- Collaborate and communicate with colleagues, clients, and others.
- Create an on-going portfolio of individual architectural work.

## Values

**Upon completion of the architecture major students will be disposed to:**

- Promote the value of aesthetics or beauty in our society.
- Encourage the growth of communities within a social, historical, and cultural context.
- Employ and promote principles and practices of environmentally sustainable design in architecture, urban planning, and their daily lives.
- Embrace teamwork and collaboration in all settings.
- Engage in service to their communities through design.