Architectural Studies (undergraduate)

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Architecture is the art and science of the built environment: buildings, groups of buildings, communities, and their surroundings. As a profession, it is an art, science, and business with careers available in private firms, government, theater and film, industrial corporations, manufacturing, design, planning, public and private institutions, academia, and in architectural research.

The School of Architecture + Art fosters a natural and effective mentoring relationship between faculty and students. Courses take a balanced approach to both the art and science of architecture, embrace environmental sustainability and resiliency, and allows students to develop their own visions as designers.

The Architectural Studies major is a four-year pre-professional program that prepares students for the Norwich one-year (plus one summer), NAAB accredited Master of Architecture program. It is an introduction to the profession, where students learn vital technical, artistic, design, leadership and communication skills.

The architecture major will study in a studio environment that encourages creativity, critical thinking, independent learning, and the exploration of ideas through hands-on making. The studio environment in some ways resembles a large architectural office with 10 to 15 students assigned to one faculty member. The small size encourages both the exchange of ideas and intense effort. Studio encourages personal responsibility, teamwork, a sense of community, and a commitment to working on real-world problems. The integration of design build studios, as well as close collaboration between our technical courses and design studios, creates an education deeply rooted in practical solutions and technical invention. All students majoring in Architecture are required to spend a semester or summer studying abroad, which can most easily be accommodated at Norwich University's CityLab: Berlin, Germany.

Design+ Build (https://www.norwich.edu/cops/design-build-collaborative/): For over 20 years, students have been addressing the local community needs through the design and construction of full-scale projects. Since 2011, we have produced 8 different affordable housing prototypes for northern New England's climate, construction methods, and communities. In addition, we have designed and built a day-camp and classroom building, a passive solar recreational facility, a mobile solar-powered geology lab, three outdoor classrooms, and a mobile classroom, design gallery, and resource center for the Vermont Chapter of the American Institute of Architects.

We offer our students the education necessary for the practice of architecture and art in their fullest sense: to design, make, and build in a way that embodies cultural meaning, employs technology wisely, and contributes to social and environmental justice. To this end, we seek to instill in students the core values of comprehensive knowledge, holistic awareness, continual innovation, active cooperation, and ethical responsibility through a balanced curriculum comprising observation, analysis, exploration, iteration, and synthesis, grappling throughout with abstract as well as concrete material, intellectual as well as hands-on experience.

We endeavor to contribute to the making of meaning and the meaning of making.

Goals:

Students (majors and minors) of the Architecture Program will:

- Be respected and recognized for technical competence in the creation of solutions that balance sustainability, resiliency, societal and economic issues.
- Acquire a range of capabilities that can be used at different scales of architecture projects, including residential design, small and large institutional project design, civic projects and urban planning projects.
- Help their communities by advocating and implementing good design principles at a broad range of scales.
- Communicate to both technical and non-technical audiences.
- Actively engage in continuing education throughout life.
- Be recognized for their leadership skills and their abilities to work with all people.

Outcomes:

Architecture majors and minors will:

- Gain a way of thinking, rooted in the iterative, test-and-learn approach to creativity and innovation.
- Learn to utilize techniques, skills, conventions, and modern digital and hand tools and techniques necessary for professional practice.
- Understand structural systems, heating and cooling systems, circulation systems, building systems, etc.
- Practice resilient and sustainable design.
- Learn materials and methods for construction.
- Prepare and deliver construction documents.
- Be trained in the ethics of the profession and learn to make ethical decisions.
- Function as a member of a multidisciplinary team and be able to assume leadership roles on the team.
- Understand and begin the process of architectural internship, training and registration necessary for the profession as well as the expectation for lifelong learning.

Careers for this Major:

- Private architectural firms
- Commercial, industrial, and retail design
- Facilities management
- Real estate and development
- Engineering
- Sales and manufacturing
- Government
- Industrial corporations
- Public and private institutions
- Academia

Accreditation:

Combined, the bachelor and master programs form a five-year professional degree accredited by the National Architectural Accrediting Board (NAAB), www.naab.org (http://www.naab.org), 1101 Connecticut Ave NW #410, Washington, DC 20036, phone, 202-783-2007.

Major

Architectural Studies (B.S.) – Curriculum Map 2021-2022 Catalog

Course	Cr.	Comp.	Course	Cr.	Comp.
FRESHMAN					
Fall			**Spring**		
AP 111 Fundamentals of Architecture [1]	4		AP 118 Fundamentals of Architecture II [1]	4	
EN 110 Writing and Inquiry in Public Contexts	3		EN 111 Writing and Inquiry in Academic Contexts	3	
HI 107 The History of Civilization I (General Education History)	3		HI 108 The History of Civilization II	3	
MA 107 Precalculus Mathematics (General Education Math)	4		MA 220 Geometry in Action (General Education Math)	3	
SA 111 Foundations of Art and Architecture I	3		SA 112 Foundations of Art and Architecture II	3	
Fall Semester Total Cr.:	**17**		**Spring Semester Total Cr.:**	**16**	
SOPHOMORE					
Fall			**Spring**		
AP 211 Architectural Design I [1]	5		AP 212 Architectural Design II [1]	5	
AP 225 Introduction to Passive Environmental Systems	3		AP 325 Materials, Construction, and Design	3	
FA 201 History/Theory of Architecture I (General Education Arts & Humanities)	3		FA 202 History/Theory of Architecture II	3	
PS 201 General Physics I (General Education Lab Science)	4		General Education Lab Science (http://catalog.norwich.edu/residentialprogramscatalog/generaleducationgoals/)	4	
General Education Literature (http://catalog.norwich.edu/residentialprogramscatalog/generaleducationgoals/)	3		Free Elective	3	
Fall Semester Total Cr.:	**18**		**Spring Semester Total Cr.:**	**18**	
JUNIOR					
Fall			**Spring**		
AP 311 Architectural Design III [1]	5		AP 312 Architectural Design IV [1]	5	
FA 308 History/Theory of Artchitectural III	3		AP 328 Active Building Systems II	3	
GR 150 Topics Course (Free Elective)	3		AP 222 Human Issues in Design	3	
Architecture Seminar [2]	3		CE 351 Statics and Mechanics of Materials	4	
SO 218 Intro to Cultural Competence (or SO Elective; General Education Social Science)	3		Free Elective	3	
Fall Semester Total Cr.:	**17**		**Spring Semester Total Cr.:**	**18**	
SENIOR					
Fall			**Spring**		
AP 327 Active Building Systems I	3		AP 412 Architectural Design VI (Capstone) [1]	5	
AP 411 Architectural Design V [1]	5		AP 436 Project Delivery and Documentation (General Education Ethics)	4	
AP 221 Site Development and Design	3		CE 457 Wood, Steel, and Concrete Structures	4	
General Education Leadership (http://catalog.norwich.edu/residentialprogramscatalog/generaleducationgoals/)	1-3		Free Elective	3	
Architecture Seminar [2]	3		FA 401 Introduction to Research Methods for Architecture	3	
Fall Semester Total Cr.:	**15-17**		**Spring Semester Total Cr.:**	**19**	
TOTAL CREDITS FOR THIS MAJOR: 138-140					

1 C- or higher

2 Seminar Electives:AP 403, AP 414, AP 424, AP 434. Waived when a student has a declared Minor.

* During the Junior Fall or Spring semester, students must study abroad (preferably at CITY-Lab Berlin).

Minor

Architectural Studies Minor 2021-2022 Catalog

The minor in Architectural Studies is for students interested in studying the use and design of space for human work and habitation. An Architectural Studies major is ineligible to declare the minor. Each course requires a grade of C or higher.

AP 111	Fundamentals of Architecture	4
AP 118	Fundamentals of Architecture II	4
FA 201	History/Theory of Architecture I	3
FA 202	History/Theory of Architecture II	3
AP Elective		3
AP Elective		3
Total Cr.		**20**