

ARCHITECTURAL STUDIES & DESIGN, A.S.

Major Code: 1755

This program has been deactivated and students will no longer be admitted to the major. Currently enrolled students will complete the degree in accordance with the approved teach-out plan.

This hands-on, design-based program supports learning and community through a studio centric experience, the use of applied technology, and a strong liberal arts and humanities component. The curriculum engages students in topics, ranging from fundamental to sophisticated, with the intention of developing an aptitude for creative, functional, and programmatic architectural problem solving abilities. Throughout this experience, students are challenged to learn to make decisions in a culturally and environmentally responsive manner. This includes social and historic influences, to sustainable futures. Students develop the creative thinking and technical skills needed to explore, research and solve diverse problems that influence architectural discourse. They also develop the communication and presentation skills needed to showcase their architectural solutions. This integrative program is concerned with designing, creating, improving, and shaping the built environment, and ultimately, celebrating the human condition.

The architectural design studios and critique spaces are located in the Sheila C. Johnson Design Center. The studios in this Leadership in Energy and Environmental Design (LEED) Certified building are open to the students 24 hours a day, seven days a week. In close proximity to the studios are the photography areas, light table, and copying/scanning/plotting machines. The building also houses a computer-aided design studio where a 3d printer is also found, a model shop with a laser cutter, band saws, sanding stations, scroll saws, a table saw, and much more. Software used in the architectural profession is easily accessible to students through the college network and in the computer-aided design studio.

This design-based program is intended to prepare students to transfer and succeed in a professional or pre-professional baccalaureate program in architecture. Graduates have transferred into the top architecture programs in New York State and the United States. Some graduates have chosen to continue their education in allied fields such as architectural engineering, architectural engineering technology, civil engineering, construction management, graphic design, interior design, and landscape architecture. Other graduates have chosen to move directly into the architectural and design professions.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

- Translate abstract ideas to interpret information, consider diverse points of view, reach well-reasoned conclusions, and test alternative outcomes against relevant criteria and standards.
- Employ at a theoretical level, elements, forms, spatial relationships, examples, organization, circulation, sequence, proportion and ordering principles to make clear three dimensional architectural ideas and concepts.
- Apply an architectural design logic that accounts for composition, order, analysis, precedent, experimentation, presentation, competition, independence, and teamwork.

- Generate an analytical approach to the design process, and concept development, while considering implications for possible responses, problems, and architectural outcomes.
- Employ the basic principles utilized in architecture, construction and building technologies, in the use of construction material products, components, and assemblies, based on their traditional and innovative characteristics and performance, including their environmental impact and reuse.
- Synthesize the principles of conceptualization, process, history, exploration, analysis, precedence, place, integration, sustainability, materials, construction compliance, creativity, and imagination in response to architecture and architectural design in the natural and built environments.
- Use appropriate representational media such as traditional architectural graphic, modeling and digital technology skills and techniques to delineate, express and convey architectural ideas and concepts.
- Create technically clear architectural drawings and renderings that demonstrate knowledge of the conventional principles of architectural drafting and drawing to illustrate and identify the assembly of materials, systems, and components.

Curriculum Requirements

A minimum of 60 credits is required for degree completion.

Code	Title	Credits
ARCH 102	Introduction to Architecture	2
ARCH 141	Architectural Design I	4
ARCH 142	Architectural Design II	4
ARCH 182	Architectural Graphic Comm.	2
ARCH 243	Architectural Design III	4
ARCH 244	Architectural Design IV	4
ARCH 151	Arch Pre History to 1800	3
ARCH 252	Architecture: 1800 to Present	3
ARCH 271	Architectural Technology I	3
ARCH 272	Architectural Technology II	3
CAD 181	Intro To Computer-Aided Drftng	1
ARCH 283	Arch CAD Drafting & Design	2
MECH 211	Analytical Mechanics (Statics)	3
PHYS 107	Introductory Physics I (or higher)	4
MECH 213	Strength of Materials	4
COMP 101	Composition and Research	3
COMP 102	Writing About Literature	3
MATH 151	General Calculus A (or higher)	3
Select two different courses and prefixes of the following Liberal Arts:		6
Social Science		
American History		
Western Civilization		
Other World Civilization		
Foreign Language		
Total Credits		61

Sample Course Sequence

Course	Title	Credits
Year 1		
Fall		
ARCH 102	Introduction to Architecture	2
ARCH 182	Architectural Graphic Comm.	2
ARCH 141	Architectural Design I	4
COMP 101	Composition and Research	3
Liberal Arts and Science as Advised		3
MATH - Mathematics as Advised ¹		3
Credits		17
Spring		
ARCH 142	Architectural Design II	4
ARCH 151	Arch Pre History to 1800	3
CAD 181	Intro To Computer-Aided Drftng	1
COMP 102	Writing About Literature	3
PHYS 107	Introductory Physics I	4
MATH - Mathematics as Advised ¹		3
Credits		18
Year 2		
Fall		
ARCH 243	Architectural Design III	4
ARCH 271	Architectural Technology I	3
ARCH 283	Arch CAD Drafting & Design	2
MECH 211	Analytical Mechanics (Statics)	3
Liberal Arts and Sciences as Advised		3
Credits		15
Spring		
ARCH 244	Architectural Design IV	4
ARCH 272	Architectural Technology II	3
ARCH 252	Architecture: 1800 to Present	3
MECH 213	Strength of Materials	4
MATH - Mathematics as Advised ¹		3
Credits		17
Total Credits		67

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A minimum of MATH 151 General Calculus A is required. Students placed in MATH 102 Intermediate Algebra w Trig will require additional semesters. This outline is based on MATH 103 College Algebra w/ Trig being taken the first semester followed by MATH 147 Selected Topics In Precalculus then MATH 151 General Calculus A (3 semesters).