RESIDENTIAL CONSTRUCTION, A.O.S.

Major Code: 0463

The Residential Construction curriculum is designed for students that wish to develop skills and knowledge in the residential construction industry. Students in the program will develop technical skill sets through coursework and experiential learning laboratories. Students will engage in a broad range of construction disciplines, including masonry, carpentry, plumbing, HVAC, electrical, design, planning, estimating, and worksite management.

In addition to technical courses, students will take business, accounting, and composition courses. These courses allow students develop communication and soft skills that are required in the field and accelerate advancement in the construction industry.

Career Opportunities

Employment opportunities are as numerous as the various segments of the home-building industry. Employment directly related to residential construction could include entrepreneurship, materials purchasing, or working with a contractor as an estimator, foreman, or project manager.

Graduates with a comprehensive knowledge of construction and business are well-suited for careers in sales. These careers might include real estate, development, retail and wholesale building materials sales and management, and product manufactures representatives.

Student Learning Outcomes

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

- Develop estimates, construction contracts, and material lists for typical residential structures.
- Design and build masonry systems including foundations, concrete and masonry unit structures for residential applications.
- Estimate, plan schedule and complete building projects with minimal supervision for residential construction.
- Demonstrate best practices and safety while constructing wood framing for residential structures.
- Apply a working knowledge of a rough-in and devise installation for utilities for residential dwellings.
- Interpret and interpolate working drawings used for construction of residential commercial structures.
- Estimate the major material components and standards of workmanship for the home building industry.

Curriculum Requirements

A minimum of 60 credits is required for degree completion.

Code	Title	Credits
RESC 106	Graphic Communications	3
RESC 130	Light Framing	3
RESC 160	Intro Bldg Materials & Estimat	3
RESC 201	Estimating And Planning	3
RESC 211	Masonry And Foundations	3
RESC 221	Plumbing	3
RESC 260	Heating And Energy Systems	3

Total Credits		
Additional General Elective Credits as advised		
SUNY General Education Communication Written and Oral as advised		
ACCT Accounting Elective as advised		
BSAD Business Elective as advised		
BSAD 108	Business Law 1	3
AGEN 135	Construction Surveying	3
AGEN 125	Residential Electrification	3
RESC 180	OSHA 30 Hour Construction Indu	3
WOOD 101	Wood Products and Processes	3
CAD 181	Intro To Computer-Aided Drftng	1
RESC 270	Construction Planning & Mgt	4

Suggested Course Sequence

Course	Title	Credits		
Year 1				
Fall				
RESC 130	Light Framing	3		
SUNY General Education C	3			
WOOD 101	Wood Products and Processes	3		
RESC 106	Graphic Communications	3		
CAD 181	Intro To Computer-Aided Drftng	1		
BSAD Business Elective as advised (ex. BSAD 117) 3				
	Credits	16		
Spring				
RESC 160	Intro Bldg Materials & Estimat	3		
AGEN 125	Residential Electrification	3		
SUNY General Education C	3			
ACCT 100	Accounting Info & Mgt Decision	3		
General Elective as advise	3			
	Credits	15		
Year 2				
Fall				
RESC 221	Plumbing	3		
AGEN 135	Construction Surveying	3		
RESC 211	Masonry And Foundations	3		
RESC 201	Estimating And Planning	3		
General Elective as advised (ex. RENG 231)				
	Credits	14		
Spring				
RESC 270	Construction Planning & Mgt	4		
BSAD 108	Business Law 1	3		
RESC 260	Heating And Energy Systems	3		
RESC 180	OSHA 30 Hour Construction Indu	3		
General Elective as advised (ex. RENG 221) 3				
	Credits	16		
	Total Credits	61		