FSCJ Florida State College at Jacksonville

College Catalog Year: 2021-2022
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Architectural Design and Construction Technology (2202) (A.S.)

ASSOCIATE IN SCIENCE RECOMMENDED ROADMAP

This academic roadmap is designed to help you select courses each term for your **Associate in Science Degree in Architectural Design and Construction Technology (2202) (A.S.).** The mission of the Associate in Science (A.S.) in Architectural Design and Construction Technology program is to prepare students for entry-level positions in architecture, computer-aided-design, or construction management. The program emphasizes architectural and construction theory fundamentals combined with applied laboratory instruction in the latest techniques using the most current technology as dictated by industry conventions and standards. The Architectural Design and Construction Technology program is dedicated to providing a well-balanced education that enhances the experiences and employment potential for graduates.

Full-time students will refer to the term-by-term recommendations, and part-time students will refer to the course-by-course recommendations. “Mile Markers and Notes” on the Roadmap refer to important guidelines for program completion.

This roadmap is intended to provide general guidance about recommended courses and mile markers. For specific guidance about your individual academic degree plan, please see a program advisor. Please also refer to the College Catalog for additional information.

Embedded Certificate(s)

Three technical certificates are available within this degree program: Computer-Aided Technical Design (6011) (T.C.), Advanced Computer-Aided Technical Design (6012) (T.C.), and GIS (Geographic Information System) Technician (6203) (T.C.). Students may pursue the A.S. degree and earn technical certificates while completing the requirements for the degree, or pursue one or more certificates to develop or upgrade their skills in a particular field.

Career Options: The Associate in Science Degree in Architectural Design and Construction Technology program prepares you for entry-level positions as architectural drafters or assistants. Typical places of employment are architectural or engineering firms and construction contractors. Current demographic trends will result in a greater need for architects. Those who distinguish themselves with their creativity should have the best job opportunities.

Term Offered: F = Fall Sp = Spring Sm = Summer

Available Modalities: HB = Hybrid OC = On-Campus OL = Online

Full-Time Students: Term-by-Term	Part-Time Students: Course-by-Course	Course: Course Title	Credit Hours	T.C. in Computer-Aided Technical Design	T.C. in Advanced Computer-Aided Technical Design	T.C. in GIS (Geographic Information System) Technician*	Term Offered	Available Modalities	Mile Markers and Notes
Term 1									Complete an academic degree plan with your advisor. Follow up with an advisor about any accelerated credits that you may have earned (e.g., dual enrollment, AP, CLEP, etc.).
	1.	ENC 1101: English Composition I	3						ENC 1101C can be taken in place of ENC 1101. Please speak with your Advisor for more information.
	2.	MAC 1105: College Algebra	3						Student has the option to take MAC 1140 instead of MAC 1105 and PHY 2053C instead of PHY 1020C.
	3.	BCN 1251: Construction Drawing	3	X	X		F	OC	
	4.	BCN 1210: Construction Materials	3				F	OC	
	5.	BCN 1210L: Construction Materials Lab	1				F, Sp, Sm	OC	
Term 2	6.	MAC 1114: College Trigonometry	3						
	7.	INP 1390: Human Relations in Business and Industry	3						
	8.	ETD 1100: Engineering Drawing	3	X	X		F, Sp	OC, OL	
	9.	Choose 1 Professional Elective	3	X	X				See the list of professional elective options below.
Term 3	10.	PHY 1020C: Physics for Liberal Arts with Laboratory	3						Student has the option to take MAC 1140 instead of MAC 1105 and PHY 2053C instead of PHY 1020C.
	11.	ENC 2210: Technical Report Writing	3						
	12.	BCN 2280: Surveying: Construction Layout	3				F	OC	
	13.	CGS 2470: Computer-Aided Drafting and Design	3	X	X	X	F	OC, OL	

Term 4	14.	Choose 1 General Education Humanities	3						See the options for the General Education Requirements in the current College Catalog.
	15.	BCN 2793: Managing Building Construction	3		X		Sp	OC, OL	
	16.	BCN 2405: Introduction to Structures	3				Sp	OC, OL	
	17.	ETD 2542: Structural Drafting	3				Sp, Sm	OC	
	18.	Choose 1 Professional Elective	3	X	X				See the list of professional elective options below. T.C. in Computer-Aided Technical Design earned
Term 5	19.	TAR 1942: Internship	2				F, Sp, Sm	OC	
	20.	Choose 1 Professional Elective	3		X				See the list of professional elective options below. T.C. in Advanced Computer-Aided Technical Design earned
	21.	Choose 1 Professional Elective	3						See the list of professional elective options below.
	22.	Choose 1 Professional Elective	3						See the list of professional elective options below.
	23.	Choose 1 Professional Elective	3						See the list of professional elective options below. Apply for graduation by the required date. *Congratulations, Graduate! Celebrate your success at Commencement!*
		Total Program Credit Hours =	**66**	**15**	**24**	**21**			

Important for You to Know:

- This academic roadmap does not include developmental education courses in reading, writing, and/or mathematics that you may be required to take. In addition, it does not include MAT 1033: Intermediate Algebra, which, for many students, is a prerequisite course for MAC 1105. Please consult with an advisor for individual assistance.
- Many of the required courses for the technical certificates come from the professional elective area for the Associate in Science in Architectural Design and Construction Technology and do not appear directly on the above program roadmap. Below is information about the professional core and elective options for the technical certificates. Information about the professional elective options for the A.S. degree also appears below.

- **Professional Elective Options for the T.C. in Geographic Information System Technician** (21 credit hours required)
  CGS 1100: Microcomputer Applications for Business and Economics (Credit Hours: 3)
  CGS 2542: Database Concepts for Microcomputers (Credit Hours: 3)
  *ETD 1100: Engineering Drawing (Credit Hours: 3) (F, Sp, Sm; OL OC)
  GEO 2420: Cultural Geography (Credit Hours: 3)
  GIS 2040: Fundamentals of Geographic Information Systems (Credit Hours: 3) (F; OC)
  GIS 2045: Intermediate Geographic Information Systems (Credit Hours: 3) (Sp; OC)
  GIS 2046: Advanced Geographic Information Systems (Credit Hours: 3) (Sp; OC)

- **Professional and Elective Options for the T.C. in Computer-Aided Technical Design** (15 credit hours required)
  9 professional
  *BCN 1251: Construction Drawing (Credit Hours: 3) (F; OC)
  *CGS 2470: Computer Aided Drafting and Design (Credit Hours:3) (F, Sp; OL, OC)
  *ETD 1100: Engineering Drawing (Credit Hours: 3) (F, Sp, Sm; OL, OC)
  6 elective
  ETD 2350: CAD - Advanced (Credit Hours: 3) (F; OC, OL)
  ETD 2395: CAD - Architectural (Credit Hours: 3) (F, Sp; OC, OL)
  ETD 2536: CAD - Mechanical (Credit Hours: 3) (F, Sp; OC, OL
  ETD 2551: CAD - Civil (Credit Hours: 3) (F; OC, OL)

- **Professional and Elective Options for the T.C. in Advanced Computer-Aided Technical Design** (24 credit hours required)
  15 professional
  *BCN 1251: Construction Drawing (Credit Hours: 3) (F; OC)
  BCN 2614: Planning and Estimating (Credit Hours: 3)
  *BCN 2793: Managing Building Construction (Credit Hours: 3) (Sp; OC)
  *CGS 2470: Computer Aided Drafting and Design (Credit Hours:3) (F, Sp; OL, OC)
  *ETD 1100: Engineering Drawing (Credit Hours: 3) (F, Sp, Sm; OL, OC)
  9 elective
  ETD 2350: CAD - Advanced (Credit Hours: 3) (F; OC, OL)
  ETD 2395: CAD - Architectural (Credit Hours: 3) (F, Sp; OC, OL)
  ETD 2536: CAD - Mechanical (Credit Hours: 3) (F, Sp; OC, OL)
  ETD 2551: CAD - Civil (Credit Hours: 3) (F; OC, OL)

- **Professional Elective Options for the A.S. degree** (18 credit hours required)

  BCN 2226: Soils and Foundations (Credit Hours: 3) (F; OC)
  BCN 2563: Electrical Systems (Credit Hours: 2) (Sp; OC)
  BCN 2614: Planning and Estimating (Credit Hours: 3) (F; OC)
  BCN 2721: Construction Scheduling (Credit Hours: 3) (F; OC)
  BCN 2760: Construction Design and Codes (Credit Hours: 3) (F; OC)
  CGS 1100: Microcomputer Applications for Business and Economics (Credit Hours: 3) (F, Sp, Sm; OC, OL)
  CGS 2542: Database Concepts for Microcomputers (Credit Hours: 3)
  ETD 2350: CAD - Advanced (Credit Hours: 3) (F; OC, OL)
  ETD 2395: CAD - Architectural (Credit Hours: 3) (F, Sp; OC, OL)
  ETD 2536: CAD - Mechanical (Credit Hours: 3) (F, Sp; OC, OL)
  ETD 2551: CAD - Civil (Credit Hours: 3) (F; OC, OL)
  GIS 2040: Fundamentals of Geographic Information Systems (Credit Hours: 3) (F; OC)
  GIS 2045: Intermediate Geographic Information Systems (Credit Hours: 3) (Sp; OC)
  GIS 2046: Advanced Geographic Information Systems (Credit Hours: 3) (Sp; OC)