





















2023 - 2024 Major Map

Construction Management and Technology, BS

School/College: Ira A. Fulton Schools of Engineering
ESCONMGTB

Term 1 0 - 15 Credit Hours Critical course signified by 	Hours	Minimum Grade	Notes
 CON 100: Introduction to Construction	2	C	<ul style="list-style-type: none"> ASU 101 or college-specific equivalent First-Year Seminar required of all first-year students and should be taken the first semester. Prep for success using the First-Year Student Guide. Join a Fulton community. Explore engineering and technical professions.
 CON 101: Construction and Culture: a Built Environment (HU & H)	3	C	
 CON 252: Building Construction Methods, Materials, and Equipment	3	C	
 MAT 170: Precalculus (MA)	3	C	
ASU 101-CON: The ASU Experience	1		
ENG 101 or ENG 102: First-Year Composition OR ENG 105: Advanced First-Year Composition OR ENG 107 or ENG 108: First-Year Composition	3	C	
 Minimum 2.00 GPA ASU Cumulative.			
Term hours subtotal:		15	
Term 2 15 - 31 Credit Hours Critical course signified by 	Hours	Minimum Grade	Notes
 CON 244: Working Drawing Analysis	3	C	<ul style="list-style-type: none"> Create a Handshake profile. Get involved with EPICS, the Generator Labs, and the Fulton Start-Up Center.
COM 225: Public Speaking (L)	3		
ENG 101 or ENG 102: First-Year Composition OR ENG 105: Advanced First-Year Composition OR ENG 107 or ENG 108: First-Year Composition	3	C	
PHY 111: General Physics (SQ)	3	C	
PHY 113: General Physics Laboratory (SQ)	1	C	
Humanities, Arts and Design (HU) AND Cultural Diversity in the U.S. (C)	3		
 Complete ENG 101 OR ENG 105 OR ENG 107 course(s).			
 Minimum 2.00 GPA ASU Cumulative.			
Term hours subtotal:		16	
Term 3 31 - 46 Credit Hours Critical course signified by 	Hours	Minimum Grade	Notes
 CON 221: Applied Statics	3	C	<ul style="list-style-type: none"> Prep for success using the Sophomore Guide.

	CON 251: Microcomputer Applications for Construction	3	C	
	CON 243: Heavy Construction Equipment, Methods and Materials	3	C	
	ECN 211: Macroeconomic Principles (SB)	3		
	STP 226: Elements of Statistics (CS)	3		
	Minimum 2.00 GPA ASU Cumulative.			
	Complete Mathematics (MA) requirement.			
Term hours subtotal:		15		
Term 4 46 - 61 Credit Hours  Critical course signified by		Hours	Minimum Grade	Notes
	CON 223: Strength of Materials	3	C	<ul style="list-style-type: none"> Pursue an undergraduate research experience. Apply for internships. Attend career fairs and events.
	CON 271: Construction Safety	3	C	
	CON 241: Surveying	3	C	
	CON 345: Mechanical Systems	3		
	ECN 212: Microeconomic Principles (SB)	3		
Term hours subtotal:		15		
Summer 4 61 - 62 Credit Hours		Hours	Minimum Grade	Notes
	CON 296: Summer Field Internship	1	C	
Term hours subtotal:		1		
Term 5 62 - 77 Credit Hours  Necessary course signified by		Hours	Minimum Grade	Notes
	CON 310: Testing of Materials for Construction	2		<ul style="list-style-type: none"> Plan for success using the Junior Guide. Network at student organization competitions or professional societies.
	CON 273: Electrical Construction Fundamentals and Project Management	3	C	
	CON 383: Construction Estimating OR CON 486: Heavy Construction Estimating	3		
	CON 453: Construction Technology	3		
	Natural Science - Quantitative (SQ) OR Natural Science - General (SG)	4		
Term hours subtotal:		15		
Term 6 77 - 92 Credit Hours  Necessary course signified by		Hours	Minimum Grade	Notes

★ CON 495: Construction Planning and Scheduling (CS)	3
CON 424: Structural Design	3
CON 448: Sustainable Construction	3
MGT 380: Management and Strategy for Nonmajors	3
Upper Division Construction Elective	3
★ Complete Cultural Diversity in the U.S. (C) AND Global Awareness (G) AND Historical Awareness (H) course(s).	
Term hours subtotal:	15

- Research and prepare for [graduate school](#).
- Apply for an [engineering 4+1 program](#).
- Develop a [professional profile online](#).

Summer 6 92 - 93 Credit Hours	Hours	Minimum Grade	Notes
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CON 484: Internship	1
Term hours subtotal:	1

Term 7 93 - 108 Credit Hours Necessary course signified by ★	Hours	Minimum Grade	Notes
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★ CON 455: Construction Project Management	3
ACC 382: Accounting and Financial Analysis	3
CON 487: Project Controls	3
Upper Division Construction Elective	3
Upper Division Humanities, Arts and Design (HU) OR Upper Division Social-Behavioral Sciences (SB) AND Global Awareness (G)	3
Term hours subtotal:	15

- Students must have a minimum 2.50 GPA in order to take LES 305.
- Plan for success using the [Senior Guide](#).
- Use [Handshake](#) to apply for full-time positions.
- Complete an in person or virtual [practice interview](#).

Term 8 108 - 120 Credit Hours Necessary course signified by ★	Hours	Minimum Grade	Notes
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★ CON 491: Construction Project Capstone	3
CON 496: Construction Contract Administration (L)	3
LES 305: Business Law and Ethics for Managers	3
Upper Division Construction Elective	3
Term hours subtotal:	12

Hide Course List(s)/Track Group(s)

Construction Elective

CON 343: Advanced Heavy Equipment
Operations

CON 384: Environmental Aspects of
Heavy Construction

CON 394: Special Topics

CON 446: Marketing for Construction

CON 450: Geotechnical Applications for
Construction

CON 454: Trenchless Construction
Methods

CON 457: Principles of Leadership for
Project Managers

CON 483: Advanced Building Estimating

CON 486: Heavy Construction Estimating

CON 488: Heavy Construction Earthworks

CON 494: Special Topics

Notes:

- First-Year Composition: All students are placed in ENG 101 unless submission of SAT, ACT, Accuplacer, IELTS, or TOEFL score, or college-level transfer credit or test credit equivalent to ASU's first-year composition course(s), determine otherwise. Students on Polytechnic, Downtown Phoenix and West Campuses are encouraged to complete the Directed Self-Placement survey to choose the first-year composition option they believe best suits their needs. Visit: <https://cisa.asu.edu/DSP>
- Mathematics Placement Assessment score determines placement in first mathematics course.

Total Hours: 120

Upper Division Hours: 45 minimum

Major GPA: 2.00 minimum

Cumulative GPA: 2.00 minimum

Total hrs at ASU: 30 minimum

Hrs Resident Credit for

Academic Recognition: 56 minimum

Total Community College Hrs: 64 maximum

General University Requirements Legend

General Studies Core Requirements:

- Literacy and Critical Inquiry (L)
- Mathematical Studies (MA)
- Computer/Statistics/Quantitative Applications (CS)
- Humanities, Arts and Design (HU)
- Social-Behavioral Sciences (SB)
- Natural Science - Quantitative (SQ)
- Natural Science - General (SG)

General Studies Awareness Requirements:

- Cultural Diversity in the U.S. (C)
- Global Awareness (G)
- Historical Awareness (H)

First-Year Composition

General Studies designations listed next to courses on the major map were valid for the 2023 - 2024 academic year. Please refer to the course catalog for current General Studies designations at time of class registration. General Studies credit is applied according to the designation the course carries at the time the class is taken.