



ARCHITECTURAL ENGINEERING (BS) Suggested 4-Year Academic Flowchart

2026 - 2028 SEMESTER CATALOG

Total Semester Units Required: 128-131

1st Year		2nd Year		3rd Year		4th Year	
FALL	SPRING	FALL	SPRING	FALL	SPRING	FALL	SPRING
Introduction to Architectural Engineering ARCE 1110 (2)	Structural Principles I ARCE 1121 (3) PHYS 121, PHYS 1121, PHYS 141, or PHYS 1141; and MATH 119, MATH 1007, or Appropriate Placement	Structural Principles II ARCE 2211 (3) ARCE 211 or ARCE 1121 (C- min); and MATH 141 or MATH 1261 ARCE 2212	Structural Systems Laboratory ARCE 2222 (2) Sophomore standing; ARCE 223 or ARCE 2211 (C- min)	Structural Analysis ARCE 3311 (3) ARCE 223 or ARCE 2211 (C- min) ARCE 3312	Timber Design and Constructability Lab ARCE 3332 (2) ARCE 257 or ARCE 2223; and ARCE 304 or ARCE 3331	Seismic Analysis and Design ARCE 4413 (3) ARCE 303 or ARCE 3341; ARCE 412 or ARCE 4411; and ARCE 354 or ARCE 4412 ARCE 4461	Architectural Engineering Building Systems ARCE 4421 (2) Junior standing
Architectural Design I ARCH 1101 (4) ARCH 1131	Calculus II (GE 2) MATH 1262 (4) MATH 141B (C- min), MATH 142 (C- min) or MATH 1261 (C- min), or Instructor Consent	Structural Principles II Lab ARCE 2212 (1) ARCE 211 or ARCE 1211. ARCE 2211	Structural Drawings ARCE 2223 (2) ARCE 106 or ARCE 1110	Structural Analysis Lab ARCE 3312 (1) CSC 231 or CSC 1031 ARCE 3311	Steel Design ARCE 3341 (2) ARCE 371, ARCE 2222, ARCE 315, or ARCE 3301.	Steel Structures Design Laboratory ARCE 4442 (2) ARCE 371 or ARCE 2222; ARCE 257 or ARCE 2223; ARCE 304 or ARCE 3311; ARCE 352 or ARCE 3312; and ARCE 303 or ARCE 3341.	Senior Project - Reinforced Concrete and Masonry Lab ARCE 4462 (2) ARCE 257 or ARCE 2223; ARCE 372 or ARCE 4442; and ARCE 451, ARCE 3332, ARCE 372, or ARCE 4442.
Architectural Representation I ARCE 1131 (2) ARCH 1101	General Physics II (GE 5A, 5C) PHYS 1143 (4) PHYS 141 or PHYS 1141 MATH 1262	Fundamentals of Construction Management CM 1115 (4)	Arch History Course ARCH 2221, 2222, or ARCE 2280 (3)	Timber Design ARCE 3331 (2) ARCE 371, ARCE 2222, ARCE 315, or ARCE 3301	Structural Dynamics ARCE 4411 (3) MATH 244 or MATH 2341; and ARCE 302 or ARCE 3311. ARCE 4412.	Reinforced Concrete and Masonry Design ARCE 4461 (4) ARCE 371 or ARCE 2222; and ARCE 302 or ARCE 3311	ARCE Elective (3)
Calculus I (GE 2) MATH 1261 (4) Appropriate Placement, MATH 1005 (C- min), or MATH 1007 (C- min)	GE 1A (3)*	Programming for Engineers CSC 1031 (2) MATH 121, MATH 141, MATH 1261, or DATA/MATH 1264; and PHYS 141 or PHYS 1141.	FE Tech Elective (2-3)	Soil Mechanics & Foundation Design ARCE 3353 (4) ARCE 211 or ARCE 1121 GEOL 2240 recommended	Structural Dynamics Computing Laboratory ARCE 4412 (1) ARCE 352 or ARCE 3312 ARCE 4411	FE/PE Surveying Elective (2-3)	CAED Interdisciplinary Elective (2-3)
General Physics I (GE 5A, 5C) PHYS 1141 (4) MATH 1261	GE 1C (3)*	Linear Analysis MATH 2341 (4) MATH 143, MATH 1262, MATH 1263, or DATA/MATH 1265.	GE (3)*	Fundamentals of Chemical Structure and Properties (GE 5A, 5C) CHEM 1120 (4)	GE (3)*	FE Tech Elective (3)	Engineering Statistics (UD GE 2/5) STAT 3210 Junior standing; GE Areas 1 and 2 (C- min); and MATH 142, 1261, or 1264
16 UNITS	17 UNITS	17 UNITS	15-16 UNITS	17 UNITS	17 UNITS	14-15 UNITS	15-16 UNITS

Please Note:

This flowchart is an example and not a template of your individualized plan. You will need to consult the Catalog and Degree Progress Report for detailed information about what you need to graduate. The CAED Advising Center is available for assistance in this process.

Refer to current catalog for course requirements and typical term offerings.

*To be eligible for BS/MS ARCE Program, all lower-division GE courses must be done by the end of 3rd year.

Key

Course Title (GE Area)	Major (47)
Course # (units)	Support (51-54)
Prerequisite	General Ed. (30)
Corequisite	

Additional Requirements

United States Cultural Pluralism (USCP)	Graduation Writing Requirement (GWR)
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