CAL POLY

B.S. in Architectural Engineering

Suggested 4-Year Academic Flowchart

FRESHMAN SOPHOMORE JUNIOR SENIOR Fall Winter Spring Fall Winter Spring Fall Winter Spring Fall Winter Spring Concrete Introduction to Matrix Analysis Seismic Analysis Structural Dynamics of Structures III Structures 1 Structures II Structures Building Systems of Structures ramed Structures and Design Analysis Design.. ARCE 106 (2) ARCE 211 (3) ARCE 212 (3) ARCE 227 (2) ARCE 302 (3) ARCE 306 (3) ARCE 412 (3) ARCE 483 (3) ARCE 452 (3) (ARCE 223, 227 (ME 212; MATH 244 ARCE 257, 444, an (PHYS 141, MATH ARCE 302 w/min (ARCE 372, 412 ARCE 211 w/min C-ARCE 212 w/min C w/min C-, Concur ARCE 306 w/min C-ARCE 372 or 451 ARCE 352) Concur: ARCE 354) w/min C-) Design & Visual Design & Visual Design & Visual Fundamentals of Mechanics of Structural Introduction to Engineering Aatrix Structurai umerical Analysis Reinforced Interdisciplinary Communication Communication Construction Structural Computing Engineering Dvnamics Computing.. Laboratory Concrete Design Capstone Project Management Members Analysis Surveying ARCH 132 (4) ARCH 133 (4) ARCE 353 (1) ARCH 131 (4) CM 115 (6) ARCE 444 (4) BRAE 237 (2) ME 212 (3) ARCE 223 (3) ARCE 352 (1) ARCE 354 (1) ARCE 415 (4) MATH 244, ARCE 353 (ARCE 106 or CM (ARCH 131) (ARCH 132) ARCE 212 w/min ((CSC 231 or 234 ARCE 352 w/min C ARCE 371 and ARCE (MATH 119 or 113; MATH 141; 8 w/min C-. Concur: Concur: ARCF 224 Concur: ARCE 302 Concur: ARCE 306) 302 w/min C-) equivalent) PHYS 141) ARCE 412) Structural CAD Mechanics of Structural Statistics Calculus I Calculus II Calculus III Calculus IV Steel Structures ARCF Buildina for Building Structural Systems Lab Steel Design I STAT 312 (4) Design Laboratory Systems Memhers Lah ARCE 371 (3) Design (MATH 142) MATH 141 (4) MATH 142 (4)1 MATH 143 (4)1 MATH 241 (4) ARCE 257 (2) ARCE 224 (1) ARCE 303 (3) ARCE 372 (3) ARCE 476 (3) OR ARCE 223 ARCE 22 w/min C-., 3rd year STAT 321 (4) MATH 142 w/min C-MATH 141 w/min C-ARCE 223 w/min ARCE 257, 302, 303, (ARCE students w/ (MATH 143) ARCH 133, CM 115) Coreq: ARCE 371) 2, and 371 w/min C Senior standing) ARCE 302) [Add'l Area B] [B1] [B6] Programming for Timber & Foundation General Physics II Timber Design General Physics IA Phys Sci & Soil Mechanics Fluid Mechanics Engineering Masonry Design Students Engineering I Structures... PHYS 132 (4) CSC 231 (2) ARCE 421 (3) ARCE 422 (3) ARCE 304 (3) ARCE 451 (3) ME 341 (3) PHYS 141 (4)1 CHEM 124 (4)1 concur: MATH 142 or (PHYS 131 or 141 or (MATH 142; PHYS ARCE 212 w/min C ARCE 257, 304, 305 (MATH 242 or 244 (ARCE 371 w/min C-) ARCE 421 w/min C 121, 131, or 141) GEOL 201) [Add'l Area B] [B3 & B4] Eval of Cost Alt General Physics Electric Circuit Linear Analysis I Physical Geology Masonry Design CM 232 (3) Theory MATH 142 or 182 MATH 244 (4) GEOL 201 (3) PHYS 133 (4) EE 201 (3) ARCE 305 (2) Expository Writing ENGL 133 or 134 (4)** ngineering Econ (MΔTH 244 PHYS 131 or PHYS 141. (MATH 143) (MATH 119) ARCE 371 w/min C-) IME 314 (3) Can be taken anytime during Freshman Year MATH 142. Recom (MATH 241) GE (4) Oral Communication COMS 101 or 102 (4)** **History of World Architecture or Structures** ARCH 217 or 218 or 219 or ARCE 260 (4)1 Thermodynamics . Can be taken anytime during Freshman Year GE (4) ME 302 (3) Reasoning, Argumentation, & Writing [A3] COMS 126, COMS/ENGL 145, ENGL 148, ENGL 149, or PHIL 126 (4)** 4E 212 and PHYS 132 GE (4) GE (4) GE (4) GE (4) (Completion of GE A1 with a C- or better) Can be taken anytime between Winter of Freshman and Winter of Sophomore Years. GE (4) ** (Students can attempt to fulfill the requirement after 90 earned units: students should complete the requirement before senior year) GE (4) ** 17 17 16 18 14 16 18

Notes:

MOST GENERAL EDUCATION COURSES CAN BE TAKEN IN ANY ORDER AS LONG AS PREREQUISITES ARE MET

USCP requirement can be satisfied by some (but not all) courses within GE categories: C4, D1, D3, or D4.

Quarterly advisor meetings are required prior to registration.

A corequisite course can be taken previously or concurrently. Concurrent courses must be taken together.

All ARCE Majors must receive a C- or better in ARCE Courses that are prerequisites for other ARCE courses.



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^{*} Refer to current catalog for prerequisites.

^{**}One course from each of the following GE areas must be completed: A1, A2, A3, B2, C1, C2, C4, D1, D2, D3, and D4. C4 should be taken only after Junior standing is reached (90 units). Refer to online catalog for GE course selection, USCP and Graduation Writing Requirement (GWR).

¹ Required in Support; also satisfies GE.