## CAL POLY

Required in Support: also satisfies GF.

## **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 Matrix Analysis Dynamics of Seismic Analysis Concrete Introduction to Structures III Structures II ramed Structure and Design ARCE 302 (3) ARCE 306 (3) Building Systems ARCE 211 (3) ARCE 227 (2) ARCE 412 (3) Design... ARCE 452 (3) ARCE 483 (3) ARCE 212 (3) PHYS 141, MATI ARCE 106 (2) (ARCE 212 w/min min C-. Concur (ARCE 372, 412 142) ARCE 211 w/min C-ARCE 306 w/min C-ARCE 352) ARCE 372 or 451 w/min C-) Concur: ARCE 354) **FWS FWS** FS **FW** WS WS Structural Computing Design & Visual Design & Visual Design & Visual Fundamentals of Reinforced Interdisciplinary Introduction to Engineering Engineering Construction Communication Laboratory Communication Canstone Project Dynamics ARCE 353 (1) ARCE 354 (1) Surveying Management CM 115 (6) ARCE 223 (3) ARCE 444 (4) ME 212 (3) ARCE 415 (4) ARCE 352 (1) MATH 244, ARCE 353 BRAE 237 (2) ARCE 352 w/min ARCH 131 (4) ARCH 132 (4) ARCH 133 (4) ARCE 371 and ARCE (ARCE 303; 304; 05; 444; 372 or 45 1ATH 241: ME 2 Concur: ARCE 306) (CSC 231 or 234. 113; MATH 141; 8 (MATH 119 or (ARCH 131) or ARCE 211) 302 w/min C-) Concur: ARCE 302) ARCE 412) equivalent) **FWS FW FWS FWS FWS** Statistics Structural CAD Mechanics of Structural Steel Design I Steel Structures Design Laboratory ARCE Building Calculus I Calculus II Calculus IV STAT 312 (4)1 Calculus III for Building Structural ARCE 303 (3) Systems ARCE 371 (3) MATH 143 (4) MATH 241 (4) (MATH 142) OR MATH 141 (4) MATH 142 (4) ARCE 372 (3) Members Lah (ARCE 223 w/min C ARCE 476 (3) Design 1ATH 142 w/min C (MATH 143) /min C-., 3rd year Coreq: ARCE 371) ARCE 257, 302, 303, ARCE 257 (2) ARCE 224 (1) (ARCE students w Senior standing) STAT 321(4) standing Corequisite **FWS FWS FWS FWS** FW **FWS** [B1] [Add'l Area B] [B6] General Physics IA Soil Mechanics Programming for Foundation Timber & Timber Design Fluid Mechanics 1 Phys Sci & General Physics II Engineering ARCE 421 (3) PHYS 141 (4)1 Masonry Students Engineering I ARCE 422 (3) ARCE 304 (3) ME 341 (3) PHYS 132 (4) ARCE 212 w/min C Structures.. concur: MATH 142 or CSC 231 (2) CHEM 124 (4) GEOL 201) ARCE 371 w/min C-) MATH 242 or 244 PHYS 131 or 141 or ARCE 451 (3) (MATH 142: PHYS HNRS 131) ME 212) 121, 131, or 141) **FWS FWS** WS 371 w/min C-) **FWS** WS **FWS** [Add'l Area B] **FB3 & B41** Physical Geology CM 232 (3) Linear Analysis I Theory ARCE 305 (2) **GEOL 201 (3)** MATH 244 (4) PHYS 133 (4) MATH 142 or 182 EE 201 (3) (ARCE 371 w/min C-(MATH 119) (MATH 143) MATH 244, PHYS 131 or PHYS 141; naineerina Econ Expository Writing ENGL 133 or 134 (4)\*\* IME 314 (3) **FWS FWS** WS Can be taken anytime during Freshman Year **FWS FWS** GE (4) Oral Communication COMS 101 or 102 (4)\*\* **History of World Architecture or Structures** Thermodynamics I ARCH 217 or 218 or 219 or ARCE 260 (4)1 Can be taken anytime during Freshman Year ME 302 (3) GE (4) ME 212 and PHYS 132 Reasoning, Argumentation, & Writing [A3] **FWS** COMS 126, COMS/ENGL 145, ENGL 148, ENGL 149, or PHIL 126 (4)\*\* 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) \*\* 16 17 17 16 18 14 16 18 TOTAL: 196 Notes: Legend: MOST GENERAL EDUCATION COURSES CAN BE TAKEN IN ANY ORDER AS LONG AS PREREQUISITES ARE MET Major (71) \* Refer to current catalog for prerequisites. Course # (Units) \*\*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). (Prerequisite) Support (81) Refer to online catalog for GE course selection, USCP and Graduation Writing Requirement (GWR). USCP requirement can be satisfied by some (but not all) courses within GE categories: C4, D1, D3, or D4. General Ed. (44) Quarterly advisor meetings are required prior to registration. [GE Area] A corequisite course can be taken previously or concurrently. Concurrent courses must be taken together. F = FallAll ARCE Majors must receive a C- or better in ARCE Courses that are prerequisites for other ARCE courses.

S = Spring