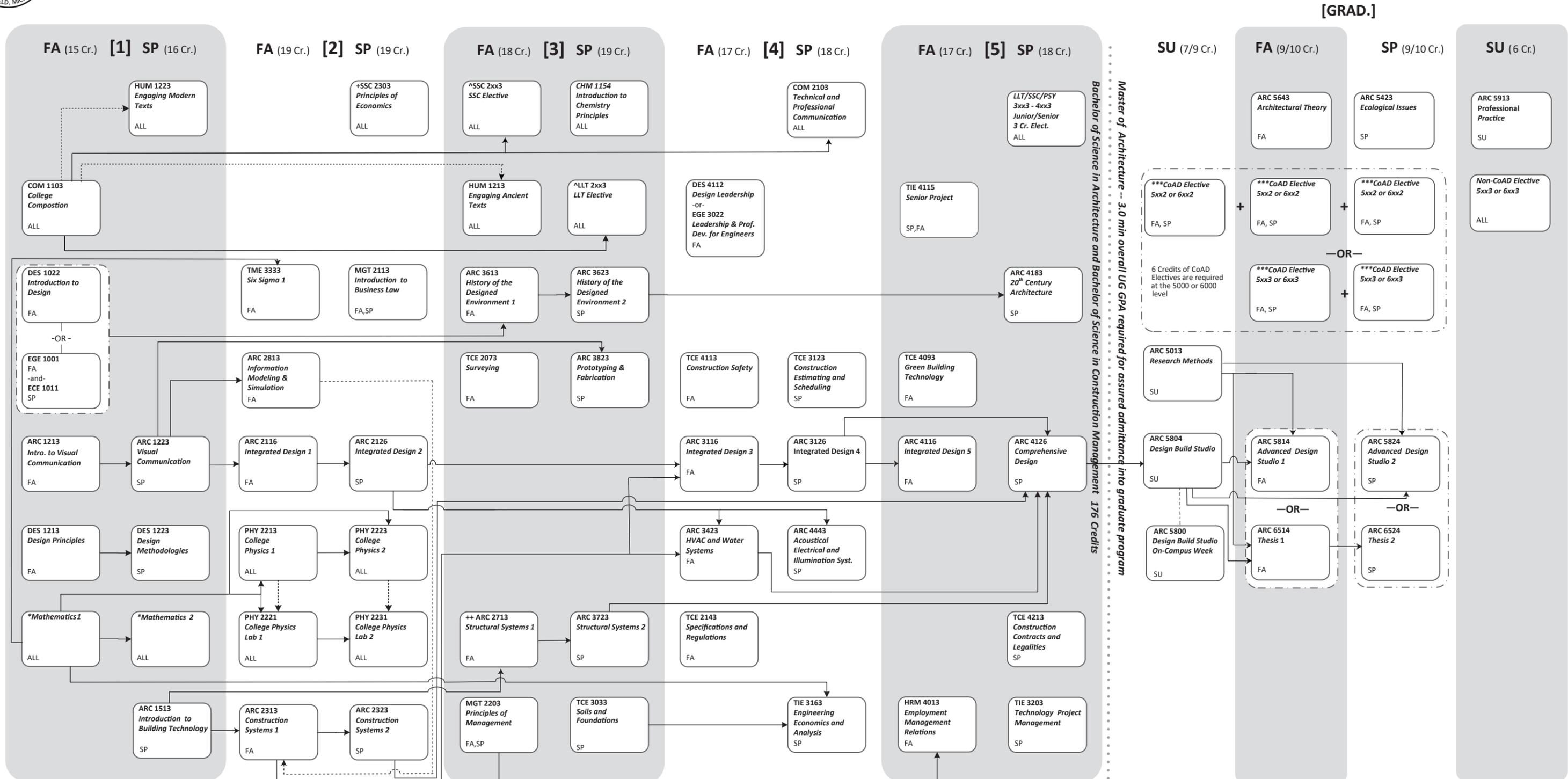# Dual Degree MASTER of ARCHITECTURE and BACHELOR of SCIENCE in CONSTRUCTION ENGINEERING TECHNOLOGY and MANAGEMENT   Progression Flowchart   2025-26 Catalog of Entry

2025_04.30

LAWRENCE TECHNOLOGICAL UNIVERSITY

College of Architecture and Design

[GRAD.]

Right-side vertical label: Bachelor of Science in Architecture and Bachelor of Science in Construction Management 176 Credits — Master of Architecture -- 3.0 min overall UG GPA required for assured admittance into graduate program

Semester Columns

Term	Credits
FA [1]	15 Cr.
SP [1]	16 Cr.
FA [2]	19 Cr.
SP [2]	19 Cr.
FA [3]	18 Cr.
SP [3]	19 Cr.
FA [4]	17 Cr.
SP [4]	18 Cr.
FA [5]	17 Cr.
SP [5]	18 Cr.
SU	7/9 Cr.
FA	9/10 Cr.
SP	9/10 Cr.
SU	6 Cr.

Course Blocks

FA [1] (15 Cr.)
- COM 1103 College Composition — ALL
- DES 1022 Introduction to Design — FA —OR— EGE 1001 — FA -and- ECE 1011 — SP
- ARC 1213 Intro. to Visual Communication — FA
- DES 1213 Design Principles — FA
- *Mathematics 1 — ALL
- ARC 1513 Introduction to Building Technology — SP

SP [1] (16 Cr.)
- HUM 1223 Engaging Modern Texts — ALL
- ARC 1223 Visual Communication — SP
- DES 1223 Design Methodologies — SP
- *Mathematics 2 — ALL

FA [2] (19 Cr.)
- ARC 2813 Information Modeling & Simulation — FA
- ARC 2116 Integrated Design 1 — FA
- PHY 2213 College Physics 1 — ALL
- PHY 2221 College Physics Lab 1 — ALL
- ARC 2313 Construction Systems 1 — FA

SP [2] (19 Cr.)
- +SSC 2303 Principles of Economics — ALL
- TME 3333 Six Sigma 1 — FA
- MGT 2113 Introduction to Business Law — FA,SP
- ARC 2126 Integrated Design 2 — SP
- PHY 2223 College Physics 2 — ALL
- PHY 2231 College Physics Lab 2 — ALL
- ARC 2323 Construction Systems 2 — SP

FA [3] (18 Cr.)
- ^SSC 2xx3 SSC Elective — ALL
- HUM 1213 Engaging Ancient Texts — ALL
- ARC 3613 History of the Designed Environment 1 — FA
- TCE 2073 Surveying — FA
- ++ ARC 2713 Structural Systems 1 — FA
- MGT 2203 Principles of Management — FA,SP

SP [3] (19 Cr.)
- CHM 1154 Introduction to Chemistry Principles — ALL
- ^LLT 2xx3 LLT Elective — ALL
- ARC 3623 History of the Designed Environment 2 — SP
- ARC 3823 Prototyping & Fabrication — SP
- ARC 3723 Structural Systems 2 — SP
- TCE 3033 Soils and Foundations — SP

FA [4] (17 Cr.)
- DES 4112 Design Leadership -or- EGE 3022 Leadership & Prof. Dev. for Engineers — FA
- TCE 4113 Construction Safety — FA
- ARC 3116 Integrated Design 3 — FA
- ARC 3423 HVAC and Water Systems — FA
- TCE 2143 Specifications and Regulations — FA

SP [4] (18 Cr.)
- COM 2103 Technical and Professional Communication — ALL
- TCE 3123 Construction Estimating and Scheduling — SP
- ARC 3126 Integrated Design 4 — SP
- ARC 4443 Acoustical Electrical and Illumination Syst. — SP
- TIE 3163 Engineering Economics and Analysis — SP

FA [5] (17 Cr.)
- LLT/SSC/PSY 3xx3 - 4xx3 Junior/Senior 3 Cr. Elect. — ALL
- TIE 4115 Senior Project — SP,FA
- TCE 4093 Green Building Technology — FA
- ARC 4116 Integrated Design 5 — FA
- HRM 4013 Employment Management Relations — FA

SP [5] (18 Cr.)
- ARC 4183 20th Century Architecture — SP
- ARC 4126 Comprehensive Design — SP
- TCE 4213 Construction Contracts and Legalities — SP
- TIE 3203 Technology Project Management — SP

SU (7/9 Cr.)
- ***CoAD Elective 5xx2 or 6xx2 — FA, SP
- ***CoAD Elective 5xx3 or 6xx3 — FA, SP
- ARC 5013 Research Methods — SU
- ARC 5804 Design Build Studio — SU
- ARC 5800 Design Build Studio On-Campus Week — SU

6 Credits of CoAD Electives are required at the 5000 or 6000 level

FA (9/10 Cr.)
- ARC 5643 Architectural Theory — FA
- ***CoAD Elective 5xx2 or 6xx2 — FA, SP
- ***CoAD Elective 5xx3 or 6xx3 — FA, SP
- ARC 5814 Advanced Design Studio 1 — FA —OR— ARC 6514 Thesis 1 — FA

—OR— (block) + ***CoAD Elective 5xx2 or 6xx2 — FA, SP + ***CoAD Elective 5xx3 or 6xx3 — FA, SP

SP (9/10 Cr.)
- ARC 5423 Ecological Issues — SP
- ***CoAD Elective 5xx2 or 6xx2 — FA, SP
- ARC 5824 Advanced Design Studio 2 — FA —OR— ARC 6524 Thesis 2 — SP

SU (6 Cr.)
- ARC 5913 Professional Practice — SU
- Non-CoAD Elective 5xx3 or 6xx3 — ALL

KEY:
- Prerequisite (solid arrow)
- Co-requisite or Prerequisite (dashed arrow)
- Co-requisite (dotted arrow)

Semesters Courses are Offered:
FA=Fall; SP=Spring; SU=Summer
ALL=Fall, Spring and Summer

*Math 1 & 2 Sequence Options Based on Placement Scores:
A] MCS 1074 Precalculus followed by MCS 2124 Statistics
B] MCS 1074 Precalculus followed by MCS 1224 Survey of Calculus
C] MCS 1074 Precalculus followed by MCS 1414 Calculus 1
D] MCS 1224 Survey of Calculus followed by MCS 2124 Statistics
E] MCS 1414 Calculus 1 followed by MCS 2124 Statsitics
F] MCS 1414 Calculus 1 followed by MCS 1424 Calculus 2

^ LLT 2xx3 and SSC 2xx3 Electives Requirements:
COM 1103 + either HUM 1213 or HUM 1223

**Humanities Junior/Senior Elective Requirements:
1] Subject: Language and Literature: **LLT**, Psychology: **PSY**, or Social Science: **SSC**
2] Level: 3000 (junior) or 4000 (senior)
3] 3 credits

+ SSC 2303 Pre-requisite: Undergraduate level MCS 0054 Minimum Grade of C- or Undergraduate level MCS 1074 Minimum Grade of D- or Undergraduate level MCS 1224 Minimum Grade of D- or Undergraduate level MCS 1414 Minimum Grade of D-

++ ARC 2513 Pre-requisite: In addition to ARC 1513 --
Undergraduate level PHY 2213 Minimum Grade of D- or Undergraduate level PHY 2413 Minimum Grade of D- **and** Undergraduate level PHY 2221 Minimum Grade of D- or Undergraduate level PHY 2421 Minimum Grade of D-) **and** Undergraduate level MCS 1074 Minimum Grade of D- or Undergraduate level MCS 1254 Minimum Grade of D- or Undergraduate level MCS 1224 Minimum Grade of D- or Undergraduate level MCS 1414 Minimum Grade of D- or Undergraduate level MCS 1424 Minimum Grade3 of D- or Undergraduate level MCS 2124 Minimum Grade of D-

College of Architecture & Design (CoAD) elective requirements can be fulfilled with courses from the following subjects:
ARC: Architecture; **ARI**: Interior Architecture; **ART**: Art and Design; **DES**: Design; **GAM**: Game Design; **GRA**: Graphic Design; **IDD**: Product Design; and **INX**: Interior Design