



PROGRESSION FLOWCHART
5-Year Integrated Bachelors-Master of Science in Architectural Engineering (MSArE)
 Department of Civil and Architectural Engineering (CAE)
 FALL 2019 (DRAFT)

This chart provides a visual, curricular flow. Students are responsible for confirming all pre-requisite and co-requisite courses through LTU's Banner system to ensure they meet all degree requirements.

STUDENT ID NO: ALT PIN: UPDATED: NAME:

UNDERGRADUATE STUDIES (129 CR. HRS)

**4th Year Students will matriculate into the graduate portion of the degree at 129 cr hrs, if, and only if the conditions of overall GPA and program GPA, are at or above 3.0. Students not meeting this criteria will not be permitted until such time as a 3.0 GPA requirement is met.

GRADUATE STUDIES (35 CR. HRS)

| YEAR 1 | | YEAR 2 | | YEAR 3 | | YEAR 4** | | YEAR 5 | |
|---|---|---|---|--|---|--|---|---|---|
| Semester 1 FALL | Semester 2 SPRING | Semester 3 FALL | Semester 4 SPRING | Semester 5 FALL | Semester 6 SPRING | Semester 7 FALL | Semester 8 SPRING | Semester 9 FALL | Semester 10 SPRING |
| COM 1103 College Composition | SSC 2413 Foundations American Exp | SSC 2423 Development American Exp | LLT 1213 World Masterpieces 1 | LLT 1223 World Masterpieces 2 | COM 3000 Writing Proficiency Exam | LLT/SSC/PSY Jr / Sr Elective (3 credit) (3000 / 4000 Level) | ECE 3424 Soil Mechanics & Lab | ECE5413 Shallow & Deep Foundation Design | ECE 5703 Design of Timber Structure |
| EGE 1001 Fund of Eng. Design Proj's | | COM 2103 Tech & Prof Communication | EGE 2013 Statics | ECE 3013 Mechanics of Materials - CE | ECE 3723 Theory of Structures | ECE 4743 Concrete Design | ECE 4243 Construction Project Mgmt | ECE 5283 Conceptual Estimating | EAE 5xx3(*)**** Building Optimization |
| CHM 1213 University Chem 1 | PHY 2413 University Physics 1 | PHY 2423 University Physics 2 | EEE 2123 Circuits & Electronics | EAE 3113 Electrical Sys I Lighting & Lab | EAE 3xx3(*) Bldg Numerical Analysis | EAE 4113 Electrical Sys II Power & Lab | ECE 4753 Steel Design | EAE 5623 Building Controls & Instrumentation | EAE 5123 Advanced Electrical Sys |
| CHM 1221 University Chem 1 Lab | PHY 2421 University Physics 1 Lab | PHY 2431 University Physics 2 Lab | MCS 3403 Probability & Statistics | EAE 4xx3(*) Fund. Of Bldg Physics | EAE 3613 Mech Sys I HVAC, Plumb, FP | EAE 4623 Architectural Acoustics | EAE 4613 Mech Sys II HVAC Application | EAE 5633(*)**** Adv. Building Physics | EAE 5113 Advanced Lighting Daylighting Sys |
| MCS 1414 Calculus 1 | MCS 1424 Calculus 2 | MCS 2414 Calculus 3 | MCS 2423 Differential Equations | EGE 3003 Thermodynamics | EME 3123 Fluid Mechanics | | EAE 3011 Directed Study (Non-Structural Lab) | EAE 5613**** Bldg. Int. Renewable Energy Sys | |
| ARC 1213 Introduction to Visual Comm. | ARC 1223 Visual Communications | ARC 2813 Info. Modelling & Simulation | EGE 3022 Leadership & Prof. Dev. for Eng. | | EAE 3014 AEIDS 1 | EAE 4024 AEIDS 2 Senior Design 1 | EAE 4014 AEIDS 3 Senior Design 2 | EAE 5014 AEIDS 4 Capstone 1 | EAE 5024 AEIDS 5 Capstone 2 |
| EAE 1081 Intro to Arch Eng. | EAE 1093 Architectural Eng. History | | | | | | EAE 6xx1(*) Indiv. Grad. Tech Project 1 Definition & Literature Rev | EAE 6xx3(*) Indiv. Grad. Tech Project 2 Data Collection | EAE 6xx3(*) Indiv. Grad. Tech Project 3 Results, Findings, Report |
| 16 | 17 | 17 | 17 | 15 | 16 | 16 | 15 | 19 | 16 |

KEY:

- Electrical Courses
- Mechanical Courses
- Structural Courses
- Construction Courses
- Arch. Eng. UG. Studios

- University Core
- Arch. Eng. Core
- Arch. Eng. Gr. Capstone - Team
- Gr. Tech Report - Individual

(*) Deans Council Approval Pending

**TOTAL DEGREE CREDIT
HOURS = 164**

OPTIONAL GRADUATE CERTIFICATE IN STRUCTURAL (*)**

Requires:
2 EAE Courses
2 Add'l ECE GR Classes

ECE 6xx3
Structural
Elective 1

ECE 6xx3
Structural
Elective 2

OPTIONAL GRADUATE CERTIFICATE IN ENERGY ENGINEERING (**)**

Requires:
2 EAE Courses
4 Add'l EME GR Classes

EME 5373
Alternative Energy
Engineering (Core)

EME 5263
Energy Resources &
Technologies (Core)

EME 5193
Applied Thermodynamics
(Core)

EME 5193
Solar Energy Engineering
(or another Elective)



06/04/2019 (Given to G. Bauer)