PROGRESSION FLOWCHART: Masters of Science in Architectural Engineering (To be ABET accredited as a Masters Degree)

NAME:                       UPDATED: 6/23/2009                     ID NO.:

1A  COM1003  English Composition
    LTT1213  World Masterpieces 1
    LTT1223  World Masterpieces 2
    LDR2001  Leadership Models & Prac
    SSC2423  Development American Exp
    COM3000  Writing Proficiency Exam
    LLT/SSC/PSY Jr/Sr Elective
    (50-80 Credits)
    (3000/4000 Level)

1B  COM1001  University Seminar
    COM2103  Tech & Prof Communication
    SSC2413  Foundations of the Amer Exp
    EGE2013  Statics
    ECE 3013  Mechanics of Materials - CE
    ECE 3723  Theory of Structures
    ECE 4743  Concrete Design
    ECE4753  Steel Design

2A  CHM1213  Intro to Arch Engg
    PHY 2413  University Physics 1
    PHY 2421  University Physics 2 Lab
    PHY 2423  University Physics 2
    MCS 1414  Calculus 1
    MCS 1424  Calculus 2
    EAE1093  Architectural Eng Hist
    ART 1113  Basic Design 1
    ARC 1213  Visual Com. 1
    ARS 1213  Visual Com. 2
    ARC 1223  Electrical Methods 1
    ARC 2813  Building Systems 1
    EEE2123  Ckt & Elec or New
    ARC2321 Building Systems 2 Global Lecture
    ARC2313 Building Systems 1
    ARC2323  Principles of Economics
    MCS 2414  Calculus 3
    MCS 2423  Differential Equations
    ARC2312  Building Systems 2
    EAE2XXX  Architectural Acoustics
    EAE2XXX  Project Mgmt (Grad Credit)
    EAE5XXX  Advanced Electrical Sys
    EAE5XXX  Alternative Energy Solutions

2B  CHM1221  Chem Lab
    PHYS 2411  University Physics 1 Lab
    PHYS 2421  University Physics 2
    GC 3003  Thermodynamics
    EME 3024  Fluids
    EME 3024  Fluids
    LDR3000  Leadership Seminar Series
    LDR4000  Leadership Capstone
    EAE2XXX  Architectural Acoustics
    EAE2XXX  Project Mgmt (Grad Credit)
    EAE5XXX  Advanced Electrical Sys
    EAE5XXX  Alternative Energy Solutions

3A  EAE2XXX  Architectural Acoustics
    CHM1221  Chem Lab
    PHYS 2411  University Physics 1 Lab
    PHYS 2421  University Physics 2
    CHM1213  University Chem 1
    PHY 2413  University Physics 1
    PHY 2423  University Physics 2
    EGE2013  Statics
    ECE 3013  Mechanics of Materials - CE
    ECE 3723  Theory of Structures
    ECE 4743  Concrete Design
    ECE4753  Steel Design
    ECE6163  Infrastructure Cost Management
    ECEXXX3  Advanced Structural Sys
    ECEXXX3  Building Controls & Instrumentation
    ECEXXX3  Advanced Electrical Sys
    ECEXXX3  Alternative Energy Solutions

3B  EAE1093  Architectural Eng Hist
    ART 1113  Basic Design 1
    ARC 1213  Visual Com. 1
    ARS 1213  Visual Com. 2
    ARC 1223  Electrical Methods 1
    ARC 2813  Building Systems 1
    EEE2123  Ckt & Elec or New
    ARC2321 Building Systems 2 Global Lecture
    ARC2313 Building Systems 2
    EAE2XXX  Architectural Acoustics
    EAE2XXX  Project Mgmt (Grad Credit)
    EAE5XXX  Advanced Electrical Sys
    EAE5XXX  Alternative Energy Solutions

4A  LTT/SSC/PSY Jr/Sr Elective
    (50-80 Credits)
    (3000/4000 Level)

4B  EAE2XXX  Architectural Acoustics
    CHM1221  Chem Lab
    PHYS 2411  University Physics 1 Lab
    PHYS 2421  University Physics 2
    CHM1213  University Chem 1
    PHY 2413  University Physics 1
    PHY 2423  University Physics 2
    EGE2013  Statics
    ECE 3013  Mechanics of Materials - CE
    ECE 3723  Theory of Structures
    ECE 4743  Concrete Design
    ECE4753  Steel Design
    ECE6163  Infrastructure Cost Management
    ECEXXX3  Advanced Structural Sys
    ECEXXX3  Building Controls & Instrumentation
    ECEXXX3  Advanced Electrical Sys
    ECEXXX3  Alternative Energy Solutions

5A  EAE2XXX  Architectural Acoustics
    CHM1221  Chem Lab
    PHYS 2411  University Physics 1 Lab
    PHYS 2421  University Physics 2
    CHM1213  University Chem 1
    PHY 2413  University Physics 1
    PHY 2423  University Physics 2
    EGE2013  Statics
    ECE 3013  Mechanics of Materials - CE
    ECE 3723  Theory of Structures
    ECE 4743  Concrete Design
    ECE4753  Steel Design
    ECE6163  Infrastructure Cost Management
    ECEXXX3  Advanced Structural Sys
    ECEXXX3  Building Controls & Instrumentation
    ECEXXX3  Advanced Electrical Sys
    ECEXXX3  Alternative Energy Solutions

5B  EAE2XXX  Architectural Acoustics
    CHM1221  Chem Lab
    PHYS 2411  University Physics 1 Lab
    PHYS 2421  University Physics 2
    CHM1213  University Chem 1
    PHY 2413  University Physics 1
    PHY 2423  University Physics 2
    EGE2013  Statics
    ECE 3013  Mechanics of Materials - CE
    ECE 3723  Theory of Structures
    ECE 4743  Concrete Design
    ECE4753  Steel Design
    ECE6163  Infrastructure Cost Management
    ECEXXX3  Advanced Structural Sys
    ECEXXX3  Building Controls & Instrumentation
    ECEXXX3  Advanced Electrical Sys
    ECEXXX3  Alternative Energy Solutions

KEY:

- Arch Class Existing or New
- New Undergrad Course
- Existing Undergrad Course
- Existing Graduate Course
- New Graduate Course
- Placement Exam Required
- Prerequisite LDR2001
- Indicates a Pre-Requisite Class
- Indicates a Co-Requisite Class
- Other Recommended but Not Required Classes:
  - Soil Mechanics
  - Dynamics
  - Ethics & Professional Issues
  - Engineering Cost Analysis

NOTE: Classes designated with XXX are currently under development. Additional information and course descriptions will be available on ltu.edu.