Bachelors of AE Approved Technical Elective List*

updated 11/2026

Course Number	Course
AE 4XXX	Any 4000 level AE/AREN course
AREN 4600	Smart Building Sensors and Programming
CNST 378	Construction Estimating 1
CNST 411	Project Administration
CNST 436	International Building Code
CNST 444	Construction Site Safety Management
CNST 476	Project Budgets and Controls
CNST 480	Productivity and Human Factors
CNST 482	Heavy and/or Civil Construction
CNST 485	Construction Planning and Scheduling
CNST 498-300	Home Construction
CNST 498	Study Abroad - Brazil
CONE 450	Sustainable Construction
CIVE 371	Materials of Construction
CIVE 446 (1)	Steel Design II
CIVE 448	Reliability of Structures
CIVE 481	Computational Problem Solving in Civil Engineering
CIVE 849	Introductory Finite Element Analysis in Solid Mechanics
CIVE 850	Prestressed Concrete
CIVE 857	Applied Structural Analysis
CIVE 880	Engineering Economy
MATH 3250	Intro to Numerical Methods
MATH 4330	Intro Partial Diff Equations
STAT 4410	Intro to Data Science
STAT 4420	Exploratory Data Visualization and Quantification

* Courses listed above are considered pre-approved for the Electives in the BSAE curriculum. If a student wishes for another course to count as an elective, that course must be approved by a majority vote of the AE curriculum committee.

** Course number to change when permanent number is identified

1. Students in the structural option may not take this course as a BSAE technical elective, as its graduate counterpart (CIVE 846) is a required course in the MAE.