

EG 341 : Computational Analysis

Uses software to analyze and solve practical engineering problems. These problems may be unique to this course (such as air resistance) or come from other courses (e.g., heatmapping internal forces in frames). Includes: a review of the software basics, analysis of data from source files (e.g., text files or CSVs), advanced plotting (e.g., dual axis charts; animated plots), and methods of solving differential equations (e.g., Euler method, solving Laplacian equations, or imported packages).

Credits 4.0

Prerequisite Courses

[CS 160: Introduction to Computer Science](#)

Prerequisites

or Proficiency in a coding language; [MA 223](#); [PY 202](#)