

CPS363 - 2025 Spring - Midterm#1

**DUE DATE: Feb. 28 (Fri.) no later than 11:59 PM EST
via email or GitHub**

REQUIREMENTS

- Individual work
- **Print name** is required.
- The submission file should be titled: CPS362_2025_Spring_Midterm#1_[PRINT NAME].zip/others .
- All submissions will be sent to Fanchao (fmeng@misericordia.edu) via **emails** or GitHub repo. Fanchao will confirm each submission.
- **Late submissions are NOT accepted** unless you have the permission from Fanchao.

Problems (100 points in total)

Please use the three elementary operators in Gaussian Elimination to deduce LU Decomposition. The general case of 3-by-3 matrices is considered. The full deduction procedure is required.

(Handwritten submissions are acceptable. Photo/scanned copies please if so.)