MATH 311 Honors:

Project Selection

Select your project team: (Recommended: 2 students.)

1. Name: _____ Email: _____ Phone: _____

2. Name: _____ Email: _____ Phone: _____

3. Name: _____ Email: _____ Phone: _____

Indicate your preference on projects: (1 for first choice down to 10 for last choice.)

_____ Efficiency of Gauss vs. Gauss-Jordan Elimination

Generalize to p equations in n unknowns.

_____ Curve Fitting: Exact and Least Squares Approximation

Derive the algorithms, write 2 programs to impliment them.

_____ Leontief Economics Model

Look up Sci Am reference. Develop and solve your own problem.

_____ Stochastic Matrices and Markov Processes

Develop and solve your own problem.

_____ Interpretation of Divergence and Curl (9.9, 9.10)

_____ Gauss' Law and Ampere's Law (9.11, 9.12)

_____ Volume Between a Surface and Its Tangent Plane (10.8)

_____ Hypervolume of a Hypersphere (10.9)

_____ Center of Mass of Planet X (10.10)

_____ Steradian Measure (10.12)