

MATH COURSE SUGGESTIONS FOR MAE GRADUATE STUDENTS

Note: Any courses listed below can count towards the Math requirement(s) in Mechanical or Aerospace Engineering.

| COURSE NO. | COURSE TITLE |
|------------|--|
| MATH 4512 | Applied Partial Differential Equations (for engineers) |
| MATH 4551 | Vector Analysis |
| MATH 4568 | Linear Algebra for Engineering Graduate Students |
| MATH 4578 | Discrete Mathematical Models |
| MATH 5101 | Finite Linear Math |
| MATH 5102 | Infin Linear Math |
| MATH 5251 | Complex Var & App |
| MATH 5601 | Computational PDEs |
| MATH 5602 | Ess Numer Methods |
| MATH 5801 | Gen Topol & Knots |
| MATH 6411 | Ordin Differ Eqs 1 |
| MATH 6451 | Part Differ Eqs 1 |
| MATH 6601 | Num Meth Sc Comp 1 & 2 |
| MATH 6602 | Num Meth Sc Comp 1 & 2 |
| STAT 6301 | Probability for Statistical Inference |
| STAT 6302 | Theory of Statistical Analysis |
| STAT 6801 | Statistical Theory I |
| STAT 6802 | Statistical Theory II |

MATH EQUIVALENCY COURSES FOR MAE GRADUATE STUDENTS

| COURSE NO. | COURSE TITLE |
|------------|---|
| ME 6507 | Intermediate Numerical Methods |
| ECE 6750 | Linear System Theory |
| ECE 6754 | Nonlinear Systems Theory |
| ME 7518 | Advanced Analytical Methods in Mechanical Engineering |