

Numerical Analysis Electives for Civil Engineering 2013-14 Catalog

NUMERICAL ANALYSIS ELECTIVES for General and Environmental Civil Engineering:
One (1) course must be taken from this list.

Note: Math 265, Calculus III, may be substituted for this requirement.

<u>Course:</u>	<u>Credits:</u>	<u>Title:</u>
ABE 316	3	Applied Numerical Methods for Agricultural & Biosystems Engineering <i>Prereq: ENGR 160, MATH 266</i>
CE 556	3	Transportation Data Analysis <i>Prereq: CE 355, STAT 101 or STAT 105</i>
EM 425	3	Introduction to the Finite Element Method <i>Prereq: EM 324, MATH 266 or MATH 267</i>
IE 312	3	Optimization <i>Prereq: Credit or enrollment in MATH 267</i>
SCM 460	3	Decision Tools for Logistics and Operations Management <i>Prereq: SCM 301</i>
MATH 207	3	Matrices and Linear Algebra <i>Prereq: Two semesters of Calculus</i>
MATH 314	3	Graphs and Networks <i>Prereq: MATH 166, MATH 201</i>
MATH 317	4	Theory of Linear Algebra <i>Prereq: MATH 166, MATH 201</i>
MATH 373	3	Introduction to Scientific Computation <i>Prereq: MATH 265</i>
STAT 401	4	Statistical Methods for Research Workers <i>Prereq: STAT 101 or STAT 104 or STAT 105 or STAT 201 or STAT 226</i>
STAT 407	3	Methods of Multivariable Analysis <i>Prereq: STAT 301 or STAT 326 or STAT 401</i>
STAT 480	3	Statistical Computing Applications <i>Prereq: STAT 301 or STAT 326 or STAT 401</i>