DEPARTMENT/PROGRAM: Mathematics/Computer Science

COURSE PREFIX & NUMBER: MA/CSC 783

COURSE TITLE: Parallel Algorithms and Scientific Computing

CREDIT HOURS: 3

PREREQUISITE(S): MA/CSC 583, or MA/CSC 580 and some parallel computing

RESTRICTIVE STATEMENT(S):

CURRICULUM/MINORS FOR WHICH COURSE IS DESIGNED:

PROPOSED EFFECTIVE DATE: F-2003

CATALOG DESCRIPTION:
Multiprocessing and vector architectures including current hardware and software. Parallel implementations of numerical linear algebra algorithms for matrix products, linear systems as well as nonlinear algebraic systems and eigenvalue problems. Applications to science and engineering including 3D space and system models.

SCHEDULING: Fall X, Spring , Summer ; Every Year , Alt. Year (odd) X, Alt. Year (even) , Other

INSTRUCTOR RESPONSIBLE FOR COURSE/RANK: Robert E. White (Prof. of MA); Robert Funderlic (Prof. of CSC)

ANTICIPATED ENROLLMENT/SEMESTER: 10 Maximum No./Sect.: 1 Multiple Sections: Yes, No

ENDORSED:

Chair, College Curriculum Committee Date

College Dean Date

Chair, University Courses & Curricula Committee Date

RECOMMENDED:

APPROVED:

Provost/Graduate Dean Date

APPROVED EFFECTIVE DATE: NEXT REVIEW DUE: 