DEPARTMENT/PROGRAM: Mathematics; Computer Science

COURSE PREFIX & NUMBER: MA/CSC 583

COURSE TITLE: Introduction to Parallel Computing

Credit Hours: 3  CONTACT HOURS: (3 - 0)

GRADING: ABCDF/ X or S/U

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

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

CATALOG DESCRIPTION:
Introduction to basic parallel architectures, algorithms and programming paradigms; message passing collectives and communicators; parallel matrix products, domain decomposition with direct and iterative methods for linear systems; analysis of efficiency, complexity and errors; applications such as 2D heat and mass transfer.

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

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

Anticipated Enrollment/Semester: 15  Maximum No./Sect.: 1  Multiple Sections: Yes, No_X

Documentation as Required:

X Course Justification & Objectives
X Proposed Revision(s) with Reasons
X Previous Catalog Description
X Syllabus (New or Current)
X Previous Syllabus
X Text(s), Date(s), Price(s)
X Enrollment Last 5 Years
X New Resources Required
X Consultation with Other Departments
X General Education Requirement List Justification

Recommended:

Approved Effective Date: _______________  Next Review Due: _______________