



1. Will this course revision affect a current program?
If "yes", has a Program Revision Form been submitted concurrently?

Yes No
 Yes No

2. Teaching Department:

Mathematics & Statistics

4. Campus
(Downtown, Macdonald,
Off Campus, Distance
Ed, Other – specify)

Downtown

5. Effective Term of Implementation
(Ex. Sept. 2004 = 200409)

Term: 200509

Retirement

3. Administering Faculty/Unit:

Science

6. Responsible Instructor:

8. Course Number(s)
Indicate course number & the number of terms spanned:
(tick all that apply)

Subject/course number: MATH 578

Course(s) Span:

1 term
 2 consecutive terms (D1, D2)
 2 non-consecutive terms (N1, N2)
 3 consecutive terms (J1, J2, J3)

7. Credit Weight
(or CEU's for non-credit CE courses):

4

Old Credit Weight or CEU's (if applicable)

4

9. Number Change From:

10. Consolidation of Courses:

11. Split of Multi-Term Course:

12. Course Title (Limit 30 char.) - required for all courses.

Numerical Analysis I

Old Course Title (if applicable)

13. Course Title to Appear in the Calendar (Optional)
(Limit 59 characters):
Note: This can ONLY be an expansion of word(s) abbreviated in
the 30 character course title in Box 12.

14. Rationale for revised course

These are housekeeping changes taking into account the way in which this course is now given.
Comments: Explicit reference to FFT and ODEs are removed. Preconditioning and direct/iterative solvers added. Implicitly, by requiring MATH 387, we are also requiring a background in basic analysis and differential equations as well as a basic course in computer science. It would be nice if we could find a better name.

15. New Course Description
(as it will appear in the Calendar [maximum 50 words]):
(N.B. Faculty of Medicine must append complete course outline)

Development, analysis and effective use of numerical methods to solve problems arising in applications. Topics include direct and iterative methods for the solution of linear equations (including preconditioning), eigenvalue problems, interpolation, approximation, quadrature, solution of nonlinear systems.

16. Old Course Description
(may be found in the Calendar or Banner)

Development, analysis and effective use of numerical methods to solve problems arising in applications. Topics include linear and nonlinear systems of equations, fast Fourier transform, eigenvalue problems, interpolation, approximation, quadrature, solution of ordinary differential equations.

17. Supplementary information to appear in the Calendar in addition to the course description.
Such as: equivalent course(s), contact hours, enrolment limitations, language of instruction etc.
Please enter the information as it should appear in the calendar notes.

18. Schedule Types(s):
(Enter all that apply – see course guidelines for a complete list.)

Hours per Week	Hours per Week	Hours per Week
3		3
Total Hours per Week:		
Total Number of Weeks:		13

19. Projected Enrolment:

15

20. Revised Prerequisite(s) (Courses or Tests) (in full)
Specify course number(s) or name(s) of test(s):

MATH 247 or MATH 251; and MATH 387; or permission of the instructor.

If the student does not have a prerequisite should web registration be blocked?
 Yes No

If "Yes" complete A and B:

A. Indicate minimum grade or test score(s) the student must attain in prerequisite course(s) or test(s):

B. Can the prerequisite course(s) or test(s) be taken in the same term as this course?
 Yes No

Old prerequisite course number(s) or test score title(s) (if applicable)

MATH 223 or MATH 247 or MATH 251 or MATH 270: MATH 248 or MATH 265 or MATH 314; MATH 315 or MATH 261 or MATH 325; MATH 317 or MATH 387; or the instructor's approval.

21. Revised Corequisite(s) Course Number(s) (in full):
Specify course number(s):

If the student does not register for the corequisite in the same term should web registration be blocked?
 Yes No

Old corequisite(s) course numbers (if applicable):

22. Revised Restriction(s):

Old Restriction(s):

23. Additional Course Charges (must be approved by the Fee Policy Committee)

Description of Fee
(e.g. screening fee)

Amount

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24. Requires Teaching, Physical, or Financial Resources Not Currently Available (attach explanation)

Yes No

25. Consultation Reports Attached

Yes N/A

INFORMATION FOR ADMISSIONS, RECRUITMENT & REGISTRAR'S OFFICE

To be completed by the Faculty
 Slot Course: Yes No

To be completed by ARR
 CIP Code

For Continuing Education Use
 CE Admin. Unit :
 CE Non-Grant Courses:
 Flat Rate: CdnFlat Rate: Yes N/A

Thesis Component: Yes No

26. Approvals:

Routing Sequence	Departmental Meeting	Departmental Chair	Other Faculty	Curric/Academic Committee	Faculty	SCTP
Name	Georg Schmidt	K. GowriSankaran	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Signature	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Date	February 01, 05	February 01, 05	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Departmental Contact Person (name/phone/email)	<input type="text"/>					