AC-05-17
New Course Proposal Form

(07/2004)

1. Will this new course affect a current program? Yes [x] No [ ]
   If "yes", has a Program Revision Form been submitted concurrently? Yes [ ] No [ ]

2. Teaching Department: Mathematics and Statistics

3. Administering Faculty/Unit: Science

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

5. Effective Term of Implementation (Ex. Sept. 2004 = 200409)
   Term: 200609

6. Responsible Instructor: STAFF

7. Course Title (Limit 30 Characters) - required for all courses:
   Linear Algebra and Probability

8. Course Number(s)
   Indicate course number & the number of terms spanned: (tick all that apply)
   Subject/course number: MATH 123
   Course(s) Span:
   - [x] 1 term
   - [ ] 2 consecutive terms (D1, D2)
   - [ ] 2 non-consecutive terms (N1, N2)
   - [ ] 3 consecutive terms (J1, J2, J3)

9. 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 above.

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

11. Rationale for new course

This course has been designed in consultation with the Faculty of Management in response to the changing needs of that faculty particularly with regard to upcoming changes in the management core. The proposal is a substantial change from the status quo and is driven in part by the fact that under the new proposals there will only be one statistics course in the U1 management core.

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

Geometric vectors in low dimensions. Lines and planes. Dot and cross product. Linear equations and matrices. Matrix operations, properties and rank. Linear dependence and independence. Inverses and determinants. Linear programming and tableaux. Sample space, probability, combinations of events. Conditional probability and Bayes Law. Random sampling. Random variables and common distributions.

13. 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.

3 hours lecture, 1 hour tutorial

14. Schedule Types(s):
(Enter all that apply – see course guidelines for a complete list.)
(i.e. Lecture, Labs, Tutorial)

	Hours per Week		Hours per Week		Hours per Week
Lecture	3				
Tutorial	1				

Total Hours per Week: 4

Total Number of Weeks: 13

15. Projected Enrolment:

350

16. Required text and/or preliminary reading list sent to library?

Yes x No

17. Prerequisite(s) (Courses or Tests)
Specify course number(s) or name(s) of test(s):

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

18. Corequisite(s) Course Number(s):
Specify course number(s) and title(s):

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

19. Restriction(s):

Not open to students who have taken or are taking MATH 223 or MATH 133 or CEGEP objective 00UQ or equivalent.

Open to Faculty of Management students only. Offered by the Faculty of Science.

Students intending to pursue one of the major or minor concentrations in Mathematics or Statistics in the Faculty of Management should take MATH 133 instead.

20. Consultation Reports Attached
☒ Yes ☐ N/A

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

Description of Fee (e.g. screening fee)	Amount

22. Requires Teaching, Physical, or Financial Resources Not Currently Available (attach explanation)
☐ Yes ☒ No

INFORMATION FOR ADMISSIONS, RECRUITMENT & REGISTRAR'S OFFICE

To be completed by the Faculty	*To be completed by ARR*	*For Continuing Education Use*
Slot Course: ☐ Yes ☐ No	CIP Code	CE Admin. Unit :
Thesis Component: ☐ Yes ☐ No		CE Non-Grant Courses:
		Flat Rate: CdnFlat Rate: ☐ Yes ☐ N/A

23. Approvals:

Routing Sequence	Departmental Meeting	Departmental Chair	Other Faculty	Curric/Academic Committee	Faculty	SCTP
Name	S.W. Drury	D. Wolfson				
Signature						
Date						

Departmental Contact Person (name/phone/email)	S.W. Drury 398-3830 drury@math.mcgill.ca