579-44

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To.....Senate

From Office of the Dean of Graduate Studies

Subject. New Graduate Course Proposals

Date. April 18, 1979

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MOTION: That Senate approve the following new graduate courses: Econ 819-4 Mathematical Programming for Economics and Commerce Econ 820-4 Analysis of Dynamic Processes Econ 871-4 Seminar in Financial Accounting

Econ 872-4 Seminar in Managerial Accounting

These courses were approved by the Executive Committee of the Senate Graduate Studies Committee at its meeting on March 5, 1979.

Jon Wheatley Dean of Graduate Studies

mm/ attach.

MEMORANDUM

To W. Cleveland

From S. Easton

Subject New Graduate Course Proposals

Chairman of the Graduate Program in Economics and Commerce

Date March 16, 1979

Course: Econ. 819. Bugetary implications of this course should read:

No additional faculty is required. By reducing the frequency of present undergraduate courses it is possible to offer this course at the graduate level.

Econ. 820. Same as the above

Course: Econ. 819. I have spoken with E. Love who will teach this course. He informs me that although D. Granot's name appears on the Econ. 819 write-up and his, Love's, on the write-up for Econ. 820, in fact they collaborated in the preparation and development of both courses. Thus there is no problem in finding a faculty member interested and willing to pursue both 819 and 820.

Econ. 819. Love also notes that the bibliography and outline of the library analysis for 820 is appropriate for Econ. 819.

New Graduate Course Pronosal Form

CALENDAR INFORMATION:

Department:	Economics and Commerce Course Number: ECON. 819
Title: Ma	athematical Programming for Economics and Commerce
Description:	Topics include dynamic programming, linear and non-linear programming,
	stochastic programming, optimization techniques; game theory.
Credit Hours	s: <u>4</u> Vector: <u>4-0-0</u> Prerequisite(s) if env: <u>Instructor's</u> consent
ENROLLMENT A	AND SCHEDULING:
Estimated En	nrollment: <u>5-15</u> When will the course first be offered: <u>1978-1</u>
How often wi	111 the course be offered: Once per year, subject to minimal enrollment constru
JUSTIFICATIO	on: urpose of this course is to introduce and study some of the basic
optimi	ization models, techniques and concepts of solutions which are
	ty member will normally teach the course: Love.
	e budgetary implications of mounting the course: <u>nil See $D_{\mathcal{R}}$ EASTEN'S</u> EME of 10 MARCH / 29
Appended: a	aufficient Library resources (append details): Yes - many available texts cover this area. b) An indication of the competence of the Faculty member to give the course. c) Library resources
3	Departmental Graduate Studies Committee: Date: _/6 dune 78 Faculty Graduate Studies Committee: MMULLal pate: Date: Faculty: Date:
	Senate Graduate Studies Committee: 5 1 auch 179 Senate:

MEMORANDUM

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••••••••••	** ************************************		From Daniel Granot
Subject Pro	oposed Graduate Course		D.E.C.
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MEMORANDUM

To Graduate Curriculum Committee	From Daniel Granot
Subject Course proposal for a graduate course in Commerce	Date October 18, 1977

TITLE OF COURSE: Mathematical Programming for Economics & Commerce

The purpose of this course is to introduce and study some of the basic optimization models, techniques and concepts of solutions which are widely employed in optimization and game theory problems that frequently occur in commerce and economics. These optimization models and techniques are very applicable in such diverse areas as economic planning, energy modelling, price decentralization, capital budgeting, portfolio selection, runway cost allocation, pricing in communication networks and more. The topics to be covered include: Linear Programming and Duality; Decomposition Techniques in Linear Programming; Non Linear and Stochastic Programming with Applications to Portfolio Selection Problems; Dynamic Programming; Game Theory with Application to the Cost Allocation and Pricing, and Activity Analysis.

The emphasis in the course will be on theory, modelling and computation.

The time to be allocated to the various topics will tentatively be as follows:

Linear Programming; Duality; Sensitivity Analysis (including some case studies)

Decomposition Techniques

Dynamic Programming

Non Linear and Stochastic Programming

Activity Analysis

Game Theory

3 weeks

1 week

1 week

3 weeks

2 weeks

3 weeks



MEMORANDUM

From

10..... Graduate Curriculum Committee

Vaniel Granot

Subject... Proposed course: Mathematical Programming for Economics and Commerce Date October 26, 1977

I enclose an outline of a proposed graduate course.

I am convinced that the proposed graduate course will attract students from various disciplines in our department. For example,

a) The last year Nobel reciepients in Economics, Professors Kantorovitch and Koopmans, received their award mainly for their contribution to optimization and linear programming. This, no doubt, indicates the relevance of optimization techniques and models for economics.

b) The topics: Dynamic Programming; Non-linear and Stochastic Programming should be attractive to the finance students. Indeed, Professor P.L. Cheng indicated to ms that he will recommend all his finance students to take this course.

c) The course should attract Commerce students; some of the topics covered are applicable to capital budgeting, joint cost allocation models and solutions (and, of course, linear programming).

d) The students interested in studying Management Science, that as Professor P. Copes indicated may be quite a few, will certainly welcome such a course.

Daniel Granot Assistant Professor

DG/mc

MEMORANDUM

IoGraduate Students in Economics and Commerce	From Dans al Granot:
SubjectA new graduate course	Date

I would like to interest you in a graduate course which I propose to offer either this coming Spring or next year. For your convenience I attach a detailed outline of the proposed course.

This course is intended for graduate students. However, qualified undergraduate students are welcome to take it.

The course should be attractive to students from various disciplines in Economics and Commerce, as well as from other departments, c.g. Mathematics and Computing Science. For example:

- 1) Economics; linear programming is perhaps the most popular and effective model for large scale, long range planning. For example, a linear programming model was found to be the suitable model for assessing the physical impact on the U.S. economy of a changing energy picture. In addition; last year's Nobel receipients in Economics, Professors Kantorovitch and Koopmans, received their award mainly for their contribution to optimization and linear programming. This, no doubt, indicates the relevance of optimization techniques and models for economics.
- 2) Non linear and stochastic programming should be of particular interest to the finance students. Various portfolio selection problems can be formulated as non linear (quadratic) programming problems or as stochastic programming. In the course, we will cover some of the theoretical foundation of non linear programming and will discuss some of the algorithmic approaches for solving these problems.
- 2) The course should attract commerce students; some of the mopics covered are applicable to capital budgeting, joint cost allocation models and solutions (and, of course, linear programming).
- 4) To students who might be interested is Hanagement Science or Mathematical Programming; the course will cover some of the most important topics in these areas.

5) Besides, Game Theory is a fun subject!

Any interested student who would like to see me with regard to the proposed course, please drop by (A.Q. 6241) or call 4519, or leave a measage in my mail box.



New Graduate Course Proposal Form

CALENDAR INFORMATION:

	ECON 820
Department: Economics/Commerce	Course Number:
Title: Analysis of Dynamic Processes	
Description: To analyze the operation of dynam	ic (time-varying) Cconomic/
business systems with emphasis on model form	ulation and optimization procedures
Credit Hours: 4 Vector:	Prerequisite(s) if anv:
RUBOLLMENT AND BCHEDULING:	
Estimated Enrollmont: 10 When will the course	a first be offered: <u>Summer Session</u>
How often will the course be offered: Annually sub	
JUSTIFICATION:	•
- The subject material currently not being	covered at Graduate level.
· · · ·	
- A management science area that has broad	applications in Economics/
Business.	
RESOURCES:	
Which Faculty member will normally teach the course:	C. E. Love
What are the budgetary implications of mounting the cour	THE NIL-SEE MENTO of 16 MARIN/29
FROM DR. S. EASTIN.	
KOM UK: 3 PADIANO,	
	Ves
Are there sufficient Library resources (append details):	
Appended: a) Outline of the Course b) An indication of the competance of the Pa	sculty member to give the course.
c) Library resources	•
	<u> </u>
Approved: Departmental Graduate Studies Committee:	I fine the Date: 18 Jan 78
11 Mar	lun Date: 27 76. 79
Faculty Graduate Studies Committee:	
Vaculty: <u><u><u><u></u></u><u><u><u></u><u><u></u><u><u></u><u></u><u><u></u><u></u><u></u><u><u></u><u></u><u></u><u></u><u></u><u></u></u></u></u></u></u></u></u></u>	Date:
Senate Graduate Studies Committee:	Date: 27 Mars 179
4	Date:
Senate:	

DYNAMIC PROCESSES

Content

- 1. Conventional Dynamics Programming Procedures
- 2. State Increment Dynamic Programming
- 3. Decomposition of Dynamic Processes
- 4. Markov Processes
- 5. Optimal Control Theory
- 6. Optimal Feedback Control

- Areas of Application
- general distribution of effort problems.

Weeks

2

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2

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- the bond-refunding problem
- asset replacement decisions
- dynamic network optimization (aircraft routing problems)
- multi-stage inventory control
- multi-location inventory control
- transfer prices decisions
- profit center vs cost center control
- optimal equipment repair decisions
- cash management problems
- optimal brand switching models
- investment paths in macro-models
- optimal asset switching
- optimal trajectory for the supersonic transport and related problems
- control on a set point

- optimal inventory control with fluctuating demand

- simultation vs optimization

SIMON FRASER UNIVERSITY OFFICE OF DEAV

MEMORANDUM

AUG - 3 1978

ToDean of Arts Office	From Mary Roberts
	Social Sciences - Library
Subject Library support for proposed course, Economics 820, Analysis of Dynamic Processes	Date 31 July 78

1. MONOGRAPHS

The three main elements of the course are dynamic programming, optimal control, and Markov processes. To determine library support for the course, the number of titles under those and related subjects in the microfiche and card catalogues were counted. Results were as follows:

Algorithms	74
Control theory	142
Economics - Mathematical methods	108
Economics, Mathematical	246
Game theory	77
Inventory control	61
Linear programming	130
Markov processes	82
Mathematical models	54
Mathematical optimization	115
Network analysis (Planning)	32
Non-linear programming	24
Non-linear theories	44
Operations research	222
Planning	100
Programming (Mathematics)	121
Stochastic processes	110
Stochastic programming	5

Total

1547

This total includes reference works such as handbooks, bibliographies and dictionaries, and society proceedings and congresses, as well as circulating monographs.

2. JOURNALS, INDEXES AND ABSTRACTS

The library subscribes to the following abstracts in the fields of operations research and quantitative methods:

International abstracts in operations research. Amsterdam, North-Holland for the International Federation of Operations Research Societies. v.1,

1961- . quarterly.

Complete indexing of O.R. journals and selective indexing of others in the fields of production, marketing, finance, statistics. Abstracts

Dean of Arts Office

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in each issue are classified as: Models of common processes Experiment and special applications Theoretical Professional

Access is through subject and author indexes which cumulate at the end of each year/volume.

Operations research/management science. Whippany, N.J., Executive Sciences Institute. v.9, 1969- . monthly.

Covers management of O.R., optimal allocation, game theory, simulation models, mathematical methods, probability, computers, and applications. Subject and author indexes cumulate at the end of each volume; reference is to page numbers.

Quality control and applied statistics. Whippany, N.J., Executive Sciences Institute. v.1, 1956- . monthly.

Statistical techniques (e.g. sampling, correlation, probability) applicable to business (e.g. forecasting, finance, sales control), production (e.g. work measurement, scheduling), and other fields. Subject and author indexes in each issue cumulate annually.

Computer abstracts. Jersey, Technical Information Co. v.13, 1969monthly. Located with Sciences Indexes.

Material classified under such headings as "System design"; "Applications: Business". Annual subject and author indexes.

Computing reviews. New York, Association for Computing Machinery. v.1, 1960- . monthly. Located with Science Indexes.

Sections 3.5 Management data processing

5.4 Mathematical programming

5.5 Mathematical statistics; probability

8.3 O.R./Decision tables

Mathematical reviews. Providence, R.I., American Mathematical Society. v.1, 1940- . Located with Science Indexes.

International and comprehensive. Covers books, journals, proceedings. Sections 90Bxx Operations research and management science 90Cxx Mathematical programming 90Dxx Game theory

In addition, the following more general indexes have sections on programming:

Index of economic articles. Homewood, Ill., Irwin. v.l, 1886/1924-"Prepared under the auspicies of The journal of economic literature of

the American Economic Association."

Section 200 covers quantitative economic methods and data: 210 covers econometric, statistical and mathematical methods and models, optimization, and programming.

Dean of Arts Office

- The journal of economic literature. Pittsburgh, American Economic Association, 1963- . quarterly. Section 200 as in the Index of economic articles.
- International bibliography of economics. Paris, UNESCO, v.1, 1952annual.

Part B, Methods, covers programming.

Key to economic science. The Hague, Martinus Nijhoff, v.1, 1953- . bi-monthly.

The Library subscribes to most of the journals covered by these indexes and abstracts.

Support appears to be sufficient in both quantity and quality for an 800-level course, without any more than normal expenditure. Dr. Love, who is to teach the course, says he has never experienced any difficulty in finding material in the library's collection.

MR:vk

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New Graduate Course Proposal Form

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CALENDAR	INFORMATION:			· .	
		•		ECON 971	
eparcmen	t: Economics and Comme	rce	Course Nu	mber: ECON. 871	
itle: <u>Se</u>	ninar in Financial Acc	ounting			
escripti	on: <u>An in depth analysi</u> theory and practice research.	s of current lit . Emphasis will	erature in fin be placed on r	ancial accountine ecent empirical	ng
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NROLLMEN	T AND SCHEDULING:				
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ESOURCES		•	· .		
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	sufficient Library resource	s (append details):_	Yes. The lib	<u>rary is adequate</u> Modest increase	in terms
ppended:	a) Outline of the Courseb) An indication of the cc) Library resources	competence of the Fac	graphs will i	ve the course.	
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oproved:	Departmental Graduate Stud	ies Committee	7 Junto	Date: 11 Juno -	
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COURSE OUTLINE

SEMINAR IN FINANCIAL ACCOUNTING

Description: Intensive study, utilizing textbooks, CICA promouncements, and articles and other extracts from the current literature, of the scope and measurement of accounting information for use by third parties. The primary emphasis is on the interrelated problems of asset valuation and income determination for a going concern, notably the issues pertaining to inventories, long-lived assets, intangibles, leases, and tax allocations, consignments, consolidations and foreign currency translations. Different theories in the literatures of accounting, economics, and law are critically reviewed in the context of current accounting practice and the supposed needs of the users of accounting information. The results of empirical research are introduced as relevant. The process by which the accounting profession, regulatory, and other groups participate in the establishment of "generally accepted accounting principles" is examined and critically evaluated. International comparisons are interwoven with Canadian experience.

Text-books: Skinner, Principles of Accounting, Eldon S. Hendriksen, Accounting Theory, Third Edition, CICA Handbook and collected articles.

Prerequisite: Permission of the instructor.

Grading : Final 50% , Research Paper 50%.

Coverage: 1. Evolution of Financial Reporting and Insitutional Development of Accounting Principles

- 2. Review of Conventional Accounting Models
- 3, The Timing of Revenue Recognition
- 4. Distinguishing the Extraordinary from the Ordinary
- 5. Accounting Effects of General Price Movements
 - 6. Alternative Valuation Models
 - 7. Objectives of Financial Reporting: Uniformity vs Flexibility
 - 8. Investments in Equity Securities
 - 9. Valuation of Inventories
- 10. Valuation of Depreciable Assets
- 11. Intangibles-Estimating Value of Going Concern
- 12. Accounting for Long -Term Leases
- 13. Income Tax Allocations- Inter and Infra-Period
 - Allocations
- 14 Conclusion

New Graduate Course Proposal Form

CALENDAR INFORMATION:

Department: Economics and Commerce

Course Number: ECON. 872

Title: Seminar in Managerial Accounting

of the instructor.

ENROLLMENT AND SCHEDULING:

Estimated Enrollment: 20 When will the course first be offered: Winter 1979

How often will the course be offered: Once a year

JUSTIFICATION:

There is only one course at MBA level which is MBA 621 Management Information System. This course is a part of a package MBA programme. Therefore this course will be first course in Managerial Accounting at graduate level. It will emphasize empirical studies in this area. Will fulfill a much needed gap.

RESOURCES:

Which Faculty member will normally teach the course: T. Var, A. Amershi, A. Gutrie

What are the budgetary implications of mounting the course: <u>No new faculty member is</u> needed. By reducing the frequency of the present undergraduate courses this course could be offered.

Are there sufficient Library resources (append details): Library sources are sufficient.

Appended: a) Outline of the Course

b) An indication of the competence of the Faculty member to give the course.c) Library resources

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Approved:	Departmental Graduate Studies Committ	ee:	17 tota	Date: 16	due 76
	Faculty Graduate Studies formittee:	Chell	incol	 	22679
	Faculty: C. Sull		~~~~	Date:	11
	Senate Graduate Studies Committee:	SP(Carme-		Bymilty
	Senate:		J	Date:	

COURSE OUTLINE

SEMINAR IN MANAGERIAL ACCOUNTING

Description: The objectives of the course are to provide the student with a conceptual framework, an exposure to some of the tools and techniques available, and a systematic procedure so that he can design, implement and evaluate situationally- determined by management planning and control systems. Empirical research in Managerial Accounting.

Grading : Final Exam 50%, Research Paper 50% Text book: Selected Readings and cases

Prerequisite: Permission of the instructor

Course Coverage:

- 1. Introduction: The Concept of Control
- 2. The Planning Process
- 3. Accounting and Control
- 4. Working Capital Management
- 5. Capital Budgeting Management
- 6. Divisional Performance and Performance Measurement
- 7. Internal and External Pricing Problems
- 8. Decision Making and Statistics in Control-Cost Behaviors
- 9. Cost Justification
- 10. Transfer pricing and problems
- 11. Research in managerial accounting
- 12. Conclusion

MEMORANDUM

To	T. Var	From	Gail Teach	
	Department of Economic & Commerçe		Social Sciences - Li	brary
	Course Proposals Seminar in Managerial Accounting	Date	14 June 78	
	Seminar in Financial Accounting			

Monograph Collection

We have determined the following figures which represent the <u>number of volumes</u> in the library, for the proposed courses.

Accounting	HF	5601-5689	1500 vols.
Managerial Accounting see Cost Accounting	HF	5689 C8	250 vols.

Over the past several years, every effort has been made to fill gaps in the economics and commerce collection, and special attention has been given to several areas, among which are accounting and finance. The University of Western Ontario is noted for its strength in this area, and the collection at SFU, compares favourably.

Periodicals

A study completed by Mrs. Roberts in 1970, showed that the library held the most frequently mentioned titles, for example, the <u>Canadian Journal of Economics</u>, which was among the top fifty. The growth rate in periodical subscriptions has been equal to the funding over the past several years and the journal collection is substantial. Close scrutiny indicates that we have the major indexes, abstracting services and periodical titles.

Costs

From March 1977-March 1978, 924 titles were selected and kept from the Coutts Approval Plan. Of these titles, approximately 122 titles (Sept. 1977-June 6/78) were directly related

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14 June 78

to Accounting. Noting a modest increase in purchase of monographs, as stated by the department, an additional 50 titles @ \$16.35 per volume would cost the library \$800, and could be accommodated by a slight adjustment in the budget appropriation.

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Conclusion

T. Var

The library does not foresee any undue strain upon present resources, and is in a good position to support the two new course proposals.

GT:vk