

SIMON FRASER UNIVERSITY

S. 76-192

MEMORANDUM

To Members of Senate

From Office of the Dean of Graduate Studies

Subject Graduate Calendar Changes -
Department of Economics & Commerce

Date December 21, 1976

MOTION I: That Senate approve the Graduate Calendar Changes in the Department of Economics and Commerce.

MOTION II: That Senate approve the following new courses: Econ 888-4 and 889-4.

MOTION III: That Senate approve the change in title for Econ 830 and 831.

MOTION IV: That Senate approve the change in description for MBA 605-5.

These changes were approved by the Senate Graduate Studies Committee on December 13, 1976 and by the Executive Committee of the Senate Graduate Studies Committee on December 20, 1976.

Jon Wheatley
Jon Wheatley
Dean of Graduate Studies.

mm/

FACULTY OF ARTS CALENDAR ENTRY

1977-78

GRADUATE STUDIES.

DEPARTMENT OF ECONOMICS AND COMMERCE.

P. 48 CHANGE OF PROGRAM DESCRIPTION : FROM " The Department of Economics and Commerce offers graduate work leading to the degrees of Master of Arts (M.A.) and Doctor of Philosophy (Ph.D.) in economics and to the Master of Business Administration (M.B.A.) in commerce."

TO " The Department of Economics and Commerce offers graduate work leading to the degrees of Master of Arts (M.A.) and Doctor of Philosophy (Ph.D.) within the Graduate Academic Program and to the degree of Master of Business Administration (M.B.A.) within the Graduate Professional Program."

p. 48 GRADUATE ACADEMIC PROGRAM

CHANGE OF PROGRAM DESCRIPTION : FROM " The Department's teaching and research capabilities are best developed in the following areas: economic theory, statistics and econometrics, international economics, resources and environmental economics, monetary economics, economic development, regional economics, labor economics, economic history, finance and marketing.

TO "The facilities of this program are best developed for offering coursework and research supervision in the following areas: macroeconomic theory, microeconomic theory, econometrics economic development, international economics, labour economics, monetary economics, regional economics, resource economics, finance and marketing. Courses and research may be undertaken within other areas of economics and commerce or other related disciplines by special arrangement and with the express approval of the student's Supervisory committee and the Department's Graduate Studies Committee.

RATIONALE: Further specification of the areas of expertise within the department making more explicit the possible emphases.

CHANGE OF REGULATIONS : FROM "**Admission**

For admission requirements, refer to General Regulations section.

The M.A. program normally will include the following:

1. Successful completion of at least 30 approved semester hour credits beyond the level of bachelor's degree with honors in economics.

This work usually will consist either of six graduate courses (30 credits) or of four graduate courses (20 credits) and a thesis (10 credits). Students must satisfy the Department that they have achieved a satisfactory level of competence in microeconomic theory, macroeconomic theory, quantitative methods and mathematical economics. Except where students have successfully undertaken equivalent work at the undergraduate level or in graduate work at another university, the requirements regarding microeconomic and macroeconomic theory will be met by completing one of the graduate courses ECON 800-5 or 801-5, and one of ECON 805-5 or 806-5; the requirement regarding quantitative methods will be met by completing the graduate course ECON 835-5 and the requirement regarding mathematical economics will be met by completing the undergraduate course ECON 331-5. Since the latter course is a prerequisite to all required graduate courses, all incoming students are required to enrol in it in their first term or to pass a pre-announced screening examination on the material currently covered in it. (Information on the material currently covered in this course/exam may be obtained directly from the Department.)

2. Successful completion of a thesis or two extended essays.

Students must give evidence of their research and writing ability by the satisfactory completion either of a thesis (counting for 10 credits) or of not less than two extended essays (no credits).

TO "

ADMISSION REQUIREMENTS.

University admission requirements are given in the General Regulations Section. In addition, the Department requires that for clear admission the applicant must hold a bachelor's degree with honors in economics or in economics and commerce, or must complete additional work to that standard. Normally, the Graduate Admissions Committee will specify the appropriate additional requirements at the time of admission.

DEGREE REQUIREMENTS

The M.A. Program allows three options: a. the Thesis Option: five graduate courses and an original thesis; b. the Extended Essay Option: eight graduate courses and two extended essays; or c. the Project Option: nine graduate courses and a research project. Normally, every M.A. Program will include the following:

1. Core Coursework (12 credits).

Students must satisfy the Department that they have achieved a satisfactory level of competence in microeconomic theory, macroeconomic theory, quantitative methods and mathematical economics. Except where students have successfully undertaken equivalent work at the undergraduate level or in graduate work at another university, the requirements regarding microeconomic and macroeconomic theory will be met by completing one of the graduate courses ECON 800-4 or 801-4, and one of ECON 805-4 or 806-4, the requirement regarding quantitative methods will be met by completing the graduate course ECON 835-4 and the requirement regarding mathematical economics will be met by completing the undergraduate course ECON 331-5 (no graduate credit). Since the latter course is a prerequisite to all required graduate courses, all incoming students are required to enrol in it in their first term or to pass a preannounced screening examination on the material currently covered in it. (Information on the material currently covered in this course/exam may be obtained directly from the Department).

2. Area Coursework

A minimum of eight (Thesis Option), ~~twenty~~ ^{twenty} (Extended Essay Option), or ~~twenty~~ ^{twenty} (Project Option) additional credits of approved graduate coursework in the students' area(s) of interest.

3. Evidence of Research and Writing Ability met by satisfactory completion of one thesis, two extended essays or one research project. The form of these research papers must meet the standards set out in the General Regulations Section.4. An Oral Examination covering the student's written research, in particular, and program, in general, as outlined in the General Regulations section.

RATIONALE . The department wishes to increase the flexibility of the M. A. program, so that it meets a wider range of student's needs and interests. The introduction of the project option allows students to choose to complete additional course work and gives a different orientation--permitting joint research projects--not permissible under the thesis or extended essay options. The number of courses has been increased because the number of hours for all graduate courses in the department has been reduced from five to four. The department is now explicitly stating the criteria used for admission.

Ph.D. Program

Admission

For admission requirements, refer to General Regulations section.
The Ph.D. program normally will include the following:

1. Successful performance in approved courses amounting to a total of 30 semester hour credits beyond the requirements listed above for the M.A. in economics.

2. Written qualifying examination in three fields. These fields will consist either of separate micro- and macroeconomic theory fields and one other field, or a combined micro- and macroeconomic theory field and two other fields. These other fields may be selected from the following: monetary economics, financial theory, quantitative methods, mathematical economics, international economics, public finance, economic history, development economics, regional economics, resource economics, labor economics, and marketing. Preparation for the qualifying exams in economic theory should include successful completion of ECON 801-5 and ECON 806-5. Preparation for qualifying exams in other fields should include successful completion of the main courses in those fields.

The field in which a thesis is written will normally be one of those in which the student is examined. With the approval of the Department, a student may substitute for one of the fields listed above, a field from a related discipline that is relevant to the research interest of the student.

Qualifying examinations will usually be taken after completion of appropriate course work and/or other preparation, but a student may sit for an examination after the first semester following formal admission to the Ph.D. program. This may be done whether or not specific courses recommended by the department as partial preparation for the examination have been taken. A candidate may be permitted to take a qualifying examination a second time but will not be permitted to take it a third time. One qualifying examination in economic theory must be written within three semesters and must be passed within four academic semesters of beginning the Ph.D. program. All attempts at qualifying examinations must be completed within six academic semesters of beginning the Ph.D. program.

3. An original and significant thesis completed by the candidate under supervision of faculty members of the Department.

A candidate may not submit a thesis until qualifying examinations have been successfully completed.

For further information and regulations, see General Regulations section.

TO "

ADMISSION REQUIREMENTS.

For admission requirements, refer to General Regulations section. In addition, for clear admission the Department requires an M.A. degree with graduate work in the core areas equivalent to ECON 800-4, ECON 805-4, and ECON 835-4. Any deficiency in the core areas must be met by taking the appropriate course(s) in addition to the coursework normally required for the Ph.D. In certain cases, students may be transferred into the Ph.D. Program from the M.A. Program after meeting the core and credit requirements for the M.A. ^{at least} sixty credits of coursework will be required for such a Ph.D. program).

*^
beyond the B.A. Honors*

DEGREE REQUIREMENTS.

The Ph.D. program allows specialization in economics, economics and commerce, or economics and a related field. Normally, every Ph.D program will include the following:

1. Successful performance in approved courses amounting to a total of at least thirty semester hour credits beyond the requirements listed above for the M.A. in economics.
Students specializing in Economics must include ECON 801-4 and ECON 806-4 as part of this coursework. These courses will not be required for students specializing in Economics and Commerce but may be required for students specializing in Economics and a related field depending on the relationship of that field to theoretical economics and the judgement of the student's supervisory committee.

Other courses may be drawn from those normally offered at the graduate level by this or other related departments. Normally, a student must take at least 20 credits of regularly scheduled coursework within this Department; exceptions to this rule must be approved by the student's supervisory committee and the Graduate Studies Committee.
2. Written qualifying examination in three fields.
For students specializing in Economics, these fields will consist either of separate micro- and macroeconomic theory fields and one other field in Economics or a combined macro and microeconomic theory field and two other fields in Economics. The other fields in Economics in which qualifying examinations are normally given are econometrics, mathematical economics, international economics, public economics, economic history, development economics, regional economics, resource economics and labour economics. Qualifying examinations in economic theory usually encompass the topics and readings covered by ECON 800, ECON 801, ECON 805, ECON 806 and the "Departmental Economic Theory Reading Guidelines". Examinations in other fields normally encompass the topics and readings presented in the main courses in those fields and the appropriate "Departmental Field Reading Guidelines."

For students specializing in Economics and Commerce, these fields will consist of an economic analysis field and two other fields drawn from the following: accounting, finance, management science, marketing and organization behaviour. At present regular graduate level coursework is offered for only the marketing and finance fields and ~~such~~ coursework should be taken as preparation for qualifying examinations in those fields. Preparation for other commerce fields should be on the basis of directed study and special coursework. The qualifying examination in economic analysis will normally cover the topics and readings in ECON 800, ECON 805 and ECON 835.

Arrangements for students specializing in Economics and a related field will be recommended by the student's supervisory committee and approved by the Graduate Studies Committee.

Departments
Qualifying examinations will usually be taken after completion of appropriate course work and/or other preparation, but a student may sit for an examination after the first semester following formal admission to the Ph.D. program. This may be done whether or not specific courses recommended by the department as partial preparation for the examination have been taken. A candidate may be permitted to take a qualifying examination a second time but will not be permitted to take it a third time. One qualifying examination in economic theory must be written within three semesters and must be passed within four academic semesters of beginning the Ph.D. program. All attempts at qualifying examinations must be completed within six academic semesters of beginning the Ph.D. program.

3. An original and significant thesis completed by the candidate under supervision of faculty members of the Department.

Dissertation Procedures.

- a. A Thesis Proposal Seminar should be given by each candidate at an early stage in his research program. Each candidate should produce a written prospectus, distribute it to all Department members, and present it on a preannounced date in ECON 900. This cannot be done before all comprehensive examinations have been passed; normally, it should be done within two semesters of passing such examinations and at least one semester before presenting the Thesis Core and Seminar. The ~~members of the~~ ^{members of the} supervisory committee ~~members~~ should attend the presentation and they should arrange for other interested Department members to attend as well. That committee, along with the candidate, should decide on the future course of research on the thesis, paying due regard to the comments that they have received.

Revised

- b. A Thesis Core and a Thesis Seminar should be presented by each candidate after the supervisory committee has agreed that the thesis is substantially complete but before it has formally approved it as ready for a Thesis Defence. The Thesis Core should be a short (20-30 page) paper that describes the major original contributions of the thesis (preferably in a form appropriate for journal submission) and should be distributed to all members of the Department. The Graduate Studies Committee, in consultation with the candidate's supervisory committee, will designate two other members of the Department who may submit written comments on the thesis, thesis core, and/or thesis seminar to the supervisory committee. The supervisory committee will consider these comments, as well as those oral and written comments of the Department members, in determining whether additional substantive work should be done on the thesis or whether

the thesis may be submitted for final typing and approval and being ready for a Thesis Defence. In the latter case, that committee should submit a written report, along with all other written comments to the Graduate Studies Committee. This should be completed at least two months before the proposed date for the Thesis Defence.

- c. The Thesis Defence. Procedures for this defence are described in the General Regulations section.

Rationale: Admissions requirements are changed to ensure that Ph.D. students have the appropriate preparation/background in core areas. The department wishes to clarify the different emphases possible within the Ph.D. degree. It is therefore changing the requirements for the various emphases to suit the interests and needs of the students. Previously, the minimum theory requirement for all Ph.D. students was the equivalent of Econ. 800 and Econ. 805. Now those who are specializing in only Economics will be required to take Econ. 801 and 806 and two economic theory comprehension examinations. Students of economics and commerce will be required to face an examination covering the content in Econ. 835 as well as Econ. 800 and 805. The intent is to increase the theoretical orientation of those pursuing "pure" economics and to increase the practical orientation of those pursuing Economics and Commerce. Special arrangements can be made for other students. A statement of dissertation procedures is added. These procedures will yield greater benefits to department members from the production of Ph.D. theses; thesis writers will benefit from the greater participation of department members.

p. 50-55 DESCRIPTION OF
ECONOMICS GRADUATE
COURSES (ECON)

CHANGE OF CREDIT HOURS : All graduate
Economics course are now 5 credits.
The department is changing them to 4 credits
Following is a listing of courses, titles
and credit hours.

ECON 800 -4	Microeconomic Theory	
ECON 801-4	Advanced Topics in Microeconomic Theory	
ECON 805-4	Macroeconomic Theory	
ECON 806-4	Advanced Topics in Macroeconomic Theory	
ECON 807-4	Methodology in Economic Theory	
ECON 808-4	History of Economic Thought prior to 1870	
ECON 809-4	History of Economic Thought since 1870	
ECON 810-4	Monetary Theory	
ECON 811-4	Advanced Monetary Theory	
ECON 812-4	Stabilization Policy	
ECON 815-4	Portfolio Theory	
ECON 817-4	Theory of Capital Markets	
ECON 830-4	Mathematical Models for Economics	See Appendix A (Change of Title)
ECON 831-4	Mathematical Economics	See Appendix B (Change of title)
ECON 832-4	Activity Analysis	
ECON 835-4	Quantitative Methods	
ECON 837-4	Economic Theory	
ECON 838-4	Topics in Econometrics	
ECON 840-4	Theory of International Trade	
ECON 842-4	International Monetary Economics	
ECON 843-4	Current Problems in International Trade	
ECON 844-4	International Economic Institutions	
ECON 845-4	Marketing Measurement	
ECON 846-4	Marketing Theory and Models	
ECON 847-4	Consumer Behavior	
ECON 850-4	Methodology and Sources in Economic History	
ECON 851-4	Economic History of Europe	
ECON 853-5	Economic History of North America	
ECON 855-4	Theories of Economic Development	
ECON 856-4	Theories of Economic Growth	
ECON 857-4	Studies in Economic Development	
ECON 859-4	Population Economics	

P. 9 ECONOMICS AND COMMERCE (Cont'd)

ECON 861-4 Resource Development and Conservation
ECON 862-4 Forestry Economics
ECON 863-4 Fisheries Economics
ECON 865-4 Regional Economic Theory
ECON 867-4 Regional Development Problems
ECON 869-4 Transportation Economics
ECON 881-4 Labor Economics
ECON 886-4 Industrial Relations
ECON 890-4 Public Finance
ECON 891-4 The Economics of Public Choice
ECON 893-4 Introduction to Marxian Economics
ECON 895-4 Comparative Economic Systems
ECON 896-4 Selected Topics in Economics
ECON 897-4 Readings in Economics

PP. 50-55 CHANGE IN CREDIT HOURS

Rationale: To recognize that there is a limited amount of material that can be absorbed by a student in a given 13 week term--and that amount is judged on average to be worth 4 credits.

p. 51 ECON 830 CHANGE OF TITLE FROM: " Mathematical
Economics I "

To " Mathematical Models for Economics."

PREREQUISITE CHANGE: From " ECON 331-5 "

TO: " ECON 331-5, ECON 800, and ECON 805."

RATIONALE: Instructors of this course feel that this is the appropriate title for the course. Regarding prerequisites, because of the sequential mathematical economic courses the additional prerequisites are required.

p. 51 ECON 831 CHANGE OF TITLE FROM " Mathematical Economics II"

To " Mathematical Economics"

RATIONALE: This change reflects the title change in Econ 830.

CHANGE OF TITLE AND PREREQUISITES ONLY

CALENDAR INFORMATION:

Department: Economics & Commerce Course Number: ECON 830

Title: Mathematical Models for Economics

Description: This course is concerned with the mathematical formulation of basic economic concepts. Applications include use of the calculus in demand and (over)

Credit Hours: 4 Vector: _____ Prerequisite(s) if any: _____

ECON 331-5, ECON 800-4, ECON 805-4

ENROLLMENT AND SCHEDULING:

Estimated Enrollment: _____ When will the course first be offered: _____

How often will the course be offered: _____

JUSTIFICATION:

RESOURCES:

Which Faculty member will normally teach the course: _____

What are the budgetary implications of mounting the course: _____

Are there sufficient Library resources (append details): _____

- Appended: a) Outline of the Course
- b) An indication of the competence of the Faculty member to give the course.
- c) Library resources

Approved: Departmental Graduate Studies Committee: B. Behone Date: Nov. 26/76

Faculty Graduate Studies Committee: J. M. Munro Date: Dec. 1/76

Senate Graduate Studies Committee: Jon Whately Date: 22 Dec 1976

Senate: _____ Date: _____

(cont'd)

production theory, theory of the firm, and distribution theory.
Also the application of difference equation techniques in economic
growth and cycle models, and input-output and linear programming
formulations of transportation and production models.



SIMON FRASER UNIVERSITY

New Graduate Course Proposal Form

CALENDAR INFORMATION:

Department: Economics and Commerce Course Number: Econ 888-4
Title: The Economics of Legal Relationships
Description: An analysis of the economic effects of constraints imposed by common, statute and constitutional law...
Credit Hours: 4 Vector: _____ Prerequisite(s) if any: _____

ENROLLMENT AND SCHEDULING:

Estimated Enrollment: 20 When will the course first be offered: 78-1
How often will the course be offered: once a year

JUSTIFICATION:

This course has been offered twice as a Selected Topics course with an enrollment of over 20 each time. We have faculty with expertise in the area.

RESOURCES:

Which Faculty member will normally teach the course: T. Borcharding
What are the budgetary implications of mounting the course: No monetary implication. One-quarter of the teaching load of the above faculty member.

Are there sufficient Library resources (append details): Yes, existing journals in Library collection will be utilized.

Appended: a) Outline of the Course
b) An indication of the competence of the Faculty member to give the course.
c) Library resources

Approved: Departmental Graduate Studies Committee: [Signature] Date: Nov. 2 1976
Faculty Graduate Studies Committee: [Signature] Date: _____
Faculty: J. M. Munro Date: Nov. 9/76
Senate Graduate Studies Committee: [Signature] Date: 22 Dec 1976
Senate: _____ Date: _____

SIMON FRASER UNIVERSITY

Department of Economics and Commerce

COURSE OUTLINE

COURSE: Economics 888-4

INSTRUCTOR: T. Borcharding

TITLE: Economics of Legal Relationships

The course will be concerned with the role that the development or attenuation of rights to use, sell or transform resources plays in allocation of resources. Stress will be on positive ("what is") aspects of the theory, though normative ("what ought") issues will be touched upon from time to time.

Emphasis will be on the application of theory to the change in constraints occasioned by alterations in common, statute and constitutional law. Emphasis will be on applications to Canadian, U.S. and British institutions. Topics covered will be: transactions costs, common property, nature of the firm under various legal guises, regulation, negligence and torts, "free" goods and price controls, non-profit agencies, crime and malfeasance, custom, certain jurisprudential topics and the anarchy-state dichotomy.

The class will meet for four hours with one or two merciful, but short breaks. The instructor will lecture approximately on 3-half to two-thirds of each class and students will present prepared analyses of certain key articles and chapters from the two books. Original research will be offered towards the end of the term.

There will be a final exam, but no mid-term, which will count around two-fifths/40 per cent of the final grade. A paper will be required and will contribute approximately half of the final grade.

Required texts:

Henry Manne, The Economics of Legal Relationships

Richard A. Posner, The Economics of Law

Virginia Polytechnic Institute and State University, Associate Professor of Economics and Research Associate, Center for Study of Public Choice, 1971-73. Introductory Economics; Price Theory (U, G); Public Finance (U); History of Economic Doctrines (U, G); Contemporary Economic Problems (U).

Stanford University, The Hoover Institution of War, Peace and Revolution, Domestic Studies Research Fellow, 1974-75.

Simon Fraser University, Associate Professor, 1973-. Introductory Economics; Price Theory (U); Business and Society (U, MBA); History of Economic Doctrines (U); Economics of Property Rights (U, G); Public Choice (U, G).

Graduate Research Supervised

A. University of Washington

Social savings from steamships (Ph.D.), Gerry Gunderson, Mt. Holyoke College.

Defense spending and regional multipliers (Ph.D.), George Jensen, California State University, Los Angeles.

Money supply management in Canada (Ph.D.), Robert Cherneff, University of Victoria.

Advertising and competition in North American automobiles (Ph.D.), Mel Fredlund, California State University, Hayward.

Revenue elasticity of taxes, Washington (Ph.D.), Edward Olson, Kansas State University

The monetary paradigm in the history of doctrines and Kuhn's hypothesis (Ph.D.), Galen Burghardt, Federal Reserve Board. Principal advisor.

Flouridation in a public choice framework (Ph.D.), Richard Coffman, City University of New York. Principal advisor.

B. Virginia Polytechnic Institute and State University

Stigler's survivorship hypothesis (Ph.D.), William Overholt, Middle Tennessee State University.

Economics of gun control (Ph.D.), Joseph Maggadino, California State University at Long Beach.

Externalities in the history of doctrines and general equilibrium (Ph.D.), James Marchand, Virginia Commonwealth University. Principal advisor.

Economics of bureaucracy and labor-capital intensities. William Orzechowski, Oglethorpe University. Principal advisor until August 1973.

Economics of J. Perry's "National Dividend Plan" (Ph.D.), Dennis Jacobs, U.S. League of Savings Associations

Essays on anarchy, crime, revolution and persuasion (Ph.D.), Patrick Gunning, Pennsylvania State University. Principal advisor until August 1973.

C. Simon Fraser University

Economics of legal expropriations (M.A.), George Manning.
 Empirical measurement of consumer surplus (M.A., in progress),
 Irene Gordon.

Research Fields

Price theory; public choice; economics of law and property rights;
 public finance.

Refereed Research

A. Articles

1. "The Demand for the Services of Non-Federal Governments,"
American Economic Review, Dec. 1972, pp. 891-901 (with
 R.T. Deacon).
2. "One Hundred Years of Public Spending in the United States,
 1870-1970," pp. 19-44 in Budgets and Bureaucrats: The
 Sources of Government Growth, T.E. Borchering (Ed.).
 Accepted, Duke University Press, June 1974. In press since
 Aug. 1976. Expected publication date, late Fall 1976 or
 early 1977.
3. "The Sources of Growth of Public Spending in the United
 States, 1902-1970," Budgets and Bureaucrats, pp. 45-70.
4. "The Divisibility of Public Outputs in Consumption, Bureaucracy
 and the Size of the Tax-Sharing Group," Budgets and
 Bureaucrats, pp. 211-28 (with W. Bush and R.M. Spann).
 Revised and reprinted, Public Choice Society Monograph
 No. 7, A.T. Denzau and R.J. Mackay (Eds.), Essays on
 Unorthodox Economic Strategies, Blacksburg, Va., University
 Publications, 1976, pp. 105-28.
5. "The Economics of School Integration: Public Choice with
 Tie-Ins," Public Choice, Accepted for publication June
 1976, forthcoming Fall 1977. Approximately 25 pages.

B. Shorter Articles, Communications and Notes

1. "The Firm, the Industry and the Demand for Inputs,"
Canadian Journal of Economics and Political Science,
 Feb. 1970, pp. 140-44 (with L.R. Bassett).
2. "Externalities and Output Taxes," Southern Economic Journal,
 Apr. 1970, pp. 462-64 (with L.R. Bassett). Reprinted in
 R.J. Staaf and F.X. Tannian (Eds.), Externalities:
 Theoretical Dimensions in Political Economy, New York,
 Dunellen Press, 1974, pp. 265-68.
3. "The Relationship Between Firm Size and Factor Price,"
Quarterly Journal of Economics, Aug. 1970, pp. 518-22
 (with L.R. Bassett).

4. "Industry Factor Demand," Western Economic Journal, Sept. 1970, pp. 259-61 (with L.R. Bassett).
5. "Liability in Law and Economics: A Note," American Economic Review, Dec. 1970, pp. 946-48.
6. "A Neglected Social Cost of a Voluntary Military," American Economic Review, Mar. 1971, pp. 195-96.

C. Comments

1. "'Inferior Factors' and the Theory of Production and Demand: Comments," Economica, Aug. 1969, pp. 321-22 (with L.R. Bassett).
2. "Bureaucracy and the Welfare Consequences of Conscription and Voluntarism," Western Economic Journal, Sept. 1972, pp. 356-57.

Invited Papers and Reviews

A. Articles

1. "The Coastal Plan as a Statewide Zoning Ordinance," M. Bruce Johnson (Ed.), The California Coastal Plan: A Critique, San Francisco, Institute for Contemporary Studies, Research Series, 1976, pp. 109-32.

B. Discussions

1. "Problems in the Theory of Public Choice: Discussion," American Economic Review, May 1969, pp. 211-12.
2. "The Economics of Political Decentralization: Discussion," American Economic Review, May 1971, pp. 463-65.

C. Book Reviews

1. Toward A Social Report (Mancur Olson, et al.) in Public Choice, Fall 1970, pp. 93-95.
2. Municipal Needs, Services and Financing (Patrick W. Beaton, Ed.) in Kyklos, Fasc. 4, 1975, pp. 893-95.
3. The Measurement of Social and Economic Performance (Milton Moss, Ed.) in American Political Science Review, forthcoming 1977.

Unpublished Research

A. Completed and submitted

1. "Competition, Exclusion and the Optimal Supply of Public Goods"
2. "Expropriation and Compensation," with Jack Knetsch.
3. "'Why Do All Our Good Apples Go East?' Alchian and Allen's Substitution Theorem Re-examined," with Eugene Silberberg.

B. In Progress

1. The economics of B.C. and Federal Egg Marketing Boards.
Invited by The Fraser Institute, Vancouver, assisted by Gary Dorosh.
2. The growth of the public sector since 1870 in the U.S.
Monograph. Invited to be considered by the Hoover Institution, Stanford University Press.
3. Economics of non-market bureaucracy: theory and evidence.
4. The private supply of "local" public goods.
5. Real estate boards and commission rate fixing, with James Kau.
6. Optimal capital stocks, zero pricing and highway congestion,
with L.R. Bassett.

Unpublished Conference Papers, Discussions and Miscellaneous

A. Papers

1. "Firm Size, Product Price and the Long-Run Demand for Factors,"
Western Economic Association Meetings, Aug. 1967, Corvallis,
Oregon (with L.R. Bassett).
2. "The Demand for the Services of State and Local Government:
An Econometric Approach to Public Choice," Public Choice
Society Meetings, May 1972, Pittsburgh.
3. "The Divisibility of Public Outputs in Consumption, Bureaucracy
and the Size of the Tax-Sharing Group," Econometric Society
Meetings, Dec. 1972, Toronto (with W. Bush).
4. "The Economics of Forced Integration in Education," Public
Choice Society Meetings, Mar. 1974, New Haven.
5. "Bureaucracy and Public Sector Growth," Western Economic
Association Meetings, July 1974, Las Vegas.
6. "The History of U.S. Public Sector Growth Since 1790" and
"Why Leviathan: The Origins of Budgetary Expansion,"
The Intercollegiate Studies Institute, Summer Conference
on the Economics of Government, Aug. 1975, Stanford.

B. Discussions

1. Panel on Public Choice, Southern Economic Association Meetings,
Nov. 1966, Atlanta.
2. Panel on Fiscal Choice and Public Spending, Western Economic
Association, Aug. 1967, Boulder, Colorado.
3. Conference on National Dividend Plan, Center for Study of
Public Choice, May 1972, Blacksburg, Virginia.
4. Panel on Adam Smith, Canadian Economic Association Meetings,
June 1974, Toronto.
5. Panel on Non-Market Institutional Choice, Western Economic
Association Meetings, June 1976, San Francisco.

C. Participant

1. Conference of Law and Economics of Auto Safety, Center for Studies in Law and Economics, May 1975, Key Biscayne, Florida.
2. First Legal Institute for Economists, Center for Studies in Law and Economics, June-July 1976, Key Biscayne, Florida.

University Committees

Member, university lectures committee, University of Washington, 1966-67.
 Member, graduate committee, U.W., 1967-71; Virginia Polytechnic Institute, 1971-72; Simon Fraser University, summer 1976.
 Chairman, appointments committee, V.P.I., 1971-72; member, S.F.U., 1976-.
 Chairman, library committee, V.P.I., 1971-73.
 Chairman, Seminar on Non-Market Bureaucracy, Center for Study of Public Choice, V.P.I., 1972-73.
 Member, University Committee on Mass Transport Study, V.P.I., 1971-73.
 Member, undergraduate curriculum committee, V.P.I., 1972-73.
 Member, seminar committee, S.F.U., fall 1973; chairman, spring 1974.
 Member, planning and priorities committee, S.F.U., 1975-76.
 Member, admissions committee, S.F.U., 1976-.

Association Memberships and Miscellaneous

American Economic Association, Canadian Economic Association, History of Economics Society, National Tax Association, Public Choice Society, Southern Economic Association, Western Economic Association
 Co-editor, Thomas Jefferson Center for Study in Political Economy Monograph Series, 1965-66.
 Member of the Board of Editors, Canadian Journal of Economics, 1975-.
 Referee, American Economic Review, American Political Science Review, Canadian Journal of Economics, Journal of Political Economy, Public Choice, Public Finance Quarterly, Quarterly Journal of Economics, Review of Economics and Statistics, Southern Economic Journal, Western Economic Journal, U.S. National Science Foundation, The Hoover Institution Press, Duke University Press, Canfield Press, Holt-Rinehart, McGraw-Hill and Prentice-Hall.

References

Professor Yoram Barzel, Department of Economics, University of Washington, Seattle 98105.
 Professor David G. Davies, Department of Economics, Duke University, Durham, North Carolina 27706.
 Professor Douglass C. North, Department of Economics, University of Washington, Seattle 98105.
 Professor Mark V. Pauly, Department of Economics, Northwestern University, Evanston, Illinois 60201

SIMON FRASER UNIVERSITY
New Graduate Course Proposal Form

CALENDAR INFORMATION:

Department: Economics and Commerce Course Number: Econ 889-4
Title: Seminar in Law and Economics
Description: An enquiry into the resource allocational and distributional implications of current and alternative legal arrangements.
Credit Hours: 4 Vector: Seminar Prerequisite(s) if any: _____

ENROLLMENT AND SCHEDULING:

Estimated Enrollment: 20 When will the course first be offered: 78-2
How often will the course be offered: once per year

JUSTIFICATION:

This course will serve as a supplement to Econ 888-4. We have faculty with expertise in the area.

RESOURCES:

Which Faculty member will normally teach the course: J. Knetsch
What are the budgetary implications of mounting the course: No monetary implication. One-quarter of the teaching load of the above faculty member.

Are there sufficient Library resources (append details): Yes, existing journals in Library collection will be utilized.

Appended: a) Outline of the Course
b) An indication of the competence of the Faculty member to give the course.
c) Library resources

Approved: Departmental Graduate Studies Committee: [Signature] Date: Nov 9/76
Faculty Graduate Studies Committee: [Signature] Date: _____
Faculty: [Signature] Date: Nov. 9/76
Senate Graduate Studies Committee: [Signature] Date: 22 Dec 1976
Senate: _____ Date: _____

SIMON FRASER UNIVERSITY

Department of Economics and Commerce

COURSE OUTLINE

COURSE: Economics 889-4

INSTRUCTOR: J. Knetsch

TITLE: Seminar in Law and Economics

The Seminar will explore a series of legal institutions and the economic analysis of their consequences.

The major focus will be on the resource allocational and distributional implications of current and alternative legal arrangements. The economic rationale for and effects of the development of various legal doctrines will be considered. Topics may include anti-combines legislation, compensation and public regulation, and market regulation for purposes of safety, consumer information or income maintenance of producers.

Topics to be discussed will be drawn from those listed above after consultation with students.

One seminar paper will normally be required from each student.

Oral interim progress reports will be given in class by the students on their seminar topics.

Class will meet for two - two hour sessions per week.

Reading list will be provided in first week of classes after topic selection.

Jack L. Knetsch

Born: Kalamazoo, Michigan - 1933

Education:

Michigan State University	B.S. - Soil Science
Michigan State University	M.S. - Agricultural Economics
Harvard University	M.P.A. - Public Administration and Economics
Harvard University	Ph.D. - Economics

Present: Professor, SFU

1971-73: Advisor - Malaysia Project, Harvard University Development Advisory Service

1970-71: Senior Staff Member, Council on Environmental Quality

1967-70: Professor of Economics and Director, Natural Resources Policy Center, the George Washington University

1966-67: Lecturer at the University of North Carolina and Visiting Professor, The George Washington University

1961-66: Research Associate, Resources for the Future, Inc.

1956-61: Economist, Tennessee Valley Authority

Member:

Canadian Economics Association
American Economic Association
American Agricultural Economics Association
Regional Science Association

Consultant:

Parks Canada
B.C. Department of Economic Development
Organization of American States
United Nations Development Program
Food and Agriculture Organization of the United Nations
Canadian Department of Indian Affairs and Northern Development
U.S. Army Corps of Engineers
Tennessee Valley Authority
Battelle Memorial Institute
Other public and private organizations

December 1976

VITA

Jack L. Knetsch

Born: Kalamazoo, Michigan - 1933

Education:

Michigan State University	B.S. - Soil Science
Michigan State University	M.S. - Agricultural Economics
Harvard University	M.P.A. - Public Administration and Economics
Harvard University	Ph.D. - Economics

Since

- 1974 : Professor of Economics, Simon Fraser University
- 1973 : Senior Fulbright Scholar and Visiting Professor, University of Newcastle, New South Wales, Australia; and Economist, Environmental Defense Fund
- 1971-73: Advisor - Malaysia Project, Harvard University Development Advisory Service
- 1970-71: Senior Staff Member, U.S. Council on Environmental Quality
- 1967-70: Professor of Economics and Director, Natural Resources Policy Center, The George Washington University
- 1966-67: Lecturer at the University of North Carolina and Visiting Professor, The George Washington University
- 1961-66: Research Associate, Resources for the Future, Inc.
- 1956-61: Economist, Tennessee Valley Authority

Member:

Canadian Economics Association
American Economic Association
American Agricultural Economics Association
Regional Science Association

Consultant:

United Nations Development Program
Food and Agriculture Organizations of the United Nations
Canadian Department of Indian and Northern Affairs
U.S. Army Corps of Engineers
Tennessee Valley Authority
Battelle Memorial Institute
Other public and private organizations

November, 1976

PUBLICATIONS

Jack L. Knetsch

Outdoor Recreation and Water Resources Planning, American Geophysical Union. Water Resources Monograph 3, Washington, D.C., 1974.

Economics of Outdoor Recreation, Johns Hopkins Press for Resources for the Future, Inc., 1967 (with Marion Clawson), 4th printing 1974.

Journal Articles and Papers

"Obtaining Efficient Estimates of Park Use and Testing for the Structural Adequacy of Models," to appear, The Canadian Journal of Statistics, July, 1977 (with J. Beaman and H.K. Cheung).

"Displaced Facilities and Benefit Calculations," Land Economics, February, 1977.

"A Recreation Site Demand and Benefit Model," Regional Studies, Vol. 10, No. 1, 1976 (with Frank Cesario).

"Some Problems in Estimating the Demand for Outdoor Recreation: Comment," American Journal of Agricultural Economics, Vol. 58, No. 3, August, 1976 (with Frank Cesario).

"Estimating Expected Use and Value of Recreation Sites," in C.E. Gearing, W.W. Swart, and T. Var, eds., Planning For Tourism Development, Praeger, New York, 1976 (with R.E. Brown and W.J. Hansen).

"The Economic Value of Recreation Areas: The Case of Saskatchewan Parks," Canadian Journal of Agricultural Economics, February, 1976 (with H.K. Cheung).

Reprinted (longer version) in Canadian Outdoor Recreation Demand Study Technical Notes, to appear, 1977.

"Alternative Pollution Control Strategies," The Australian Quarterly, December, 1973.

"Causal Factors in the Demand for Outdoor Recreation," Economic Record, September, 1972.

"Recreation Benefit Estimating and Forecasting: The Implications of the Identification Problem," Water Resources Research, August 1972 (with C.J. Cicchetti, V.K. Smith and P.A. Patton).

Benefits or Costs? An Assessment of the Water Resources Council's Proposed Principles and Standards, Department of Geography and Environmental Engineering, The Johns Hopkins Univ., March 1972 (with C.J. Cicchetti, R.K. Davis, S.H. Hanke, and R.H. Haveman).

"Economics and Environmental Quality," in Malaysia Institution of Engineers The Role of the Engineer in Environmental Pollution Control, Kuala Lumpur, Malaysia, 1972.

"On the Economics of Mass Demonstrations," American Economic Review, September 1971 (with C.J. Cicchetti, A.M. Freeman, and R.H. Haveman).

"Value Comparisons in Free-Flowing Stream Development," Natural Resources Journal, October, 1971.

"Economics and Management of Coastal Zone Resources," in J.C. Hite and J.M. Stepp, eds., Coastal Zone Resource Management, Praeger, 1971.

"The Time Bias in Recreation Benefit Estimates," Water Resources Research, June 1971 (with Frank J. Cesario).

"Assessing the Demand for Outdoor Recreation," in B.L. Driver, ed., Elements of Outdoor Recreation Planning, Ann Arbor, 1970.

"Outdoor Recreation Economics," The Annals of the American Academy of Political and Social Science, May 1970 (with John V. Krutilla).

Reprinted (shortened version) in Mercurio, 1970.
Reprinted in D.W. Fischer, J.E. Lewis, and G.B. Priddle, eds., Land and Leisure: Concepts and Methods in Outdoor Recreation, Maaroufa Press, Chicago, 1974.

"Economic Analysis in Natural Resource Programs," The Analysis and Evaluation of Public Expenditures: The PPB System, a Compendium of Papers submitted to the Joint Economic Committee, U.S. Congress, 1969.

Reprinted in R.H. Haveman and J. Margolis, eds., Public Expenditures and Policy Analysis, Markham Publishing Company, 1970.

Federal Natural Resources Development: Basic Issues in Benefit and Cost Measurement, Natural Resources Policy Center, The George Washington University, May 1969 (with R.H. Haveman, C.W. Howe, J.V. Krutilla and M.F. Brewer).

"Assessing the Demand for Outdoor Recreation," Journal of Leisure Research, Winter 1969.

"Providing for National Parks and Related Values," in J.G. Nelson and R.C. Scace, eds., The Canadian National Parks: Today and Tomorrow, the University of Calgary, Alberta, 1969.

- "Marketing Recreational Services," in Irving Dubov, ed., Contemporary Agricultural Marketing, University of Tennessee Press, 1968.
- "Demand Study of Canadian Outdoor Recreation," Parks and Recreation, Parks and Recreation Association of Canada, July-August 1968 (with Gordon Taylor).
- "Forest Recreation: A Case of Non-Market Resource Use," Journal of Forestry, February, 1967.
- "Providing Public Recreation," Trends in Parks and Recreation, July, 1967.
- "Economic Aspects of Environmental Pollution," Journal of Farm Economics, December, 1966.
- "Comparisons of Methods for Recreation Evaluation," in Water Research, Allan V. Kneese and Stephen C. Smith, eds., Johns Hopkins Press, 1966 (with Robert K. Davis).
- Reprinted in R. Dorfman and N.S. Dorfman, eds., Economics of the Environment, Norton, New York, 1972.
- Reprinted in D.W. Fischer, J.E. Lewis, and G.B. Priddle, eds., Land and Leisure: Concepts and Methods in Outdoor Recreation, Maaroufa Press, Chicago, 1974.
- "Needs, Demand and Recreation Planning," Trends in Parks and Recreation, October, 1965 (with W.J. Hart).
- "Conflicts in Recreation," American Forests, November, 1965 (with R.K. Davis).
- "Potentials of Water-Based Recreation," Water Resources and Economic Development in the South, published by Agricultural Policy Institute, North Carolina State University, August, 1965.
- "The Influence of Reservoir Projects on Land Values," Journal of Farm Economics, December, 1964.
- "Statistical Analysis and Appraisal: Estimating the Influence of Large Reservoirs on Land Values," The Appraisal Journal, October, 1964 (with C.J. Parrott).
- "Appraisal of Large Scale Projects -- Cost-Benefit Analysis," in Agricultural Planning Studies No. 4, Food and Agricultural Organization of the United Nations, 1963.
- "Discussion: Some Regional Aspects of Accelerated National Growth," Journal of Farm Economics, December, 1963.
- "Economics of Including Recreation as a Purpose of Water Resources Projects," Journal of Farm Economics, December, 1964.

"Outdoor Recreation Research: Some Concepts and Suggested Areas of Study," Journal of Natural Resources, October, 1963 (with Marion Clawson).

"Discussion: Recreation, Residential and Household Consumption Patterns," in Human Resources in the Urban Economy, Mark Perlman, ed., Baltimore: Johns Hopkins Press, 1963.

"Outdoor Recreation Demands and Benefits," Journal of Land Economics, November 1963.

Reprinted in Ekistics, December 1964.

Reprinted in D.S. Watson, ed., Price Theory in Action second edition, Houghton Mifflin, Boston, 1969.

"Land Values and Parks in Urban Fringe Areas," Journal of Farm Economics, December 1962.

"The Watershed as an Entity for Development Planning," Journal of Farm Economics, November, 1961 (with W.J. Hart).

"Discussion: Does the State of the Data Suggest a Program for Modifying Planning and Evaluation Procedure?," in Economics of Watershed Planning, G.S. Tolley and F.E. Riggs, eds., Iowa State College Press, 1961.

"Utilizing Drought-Days in Evaluating Irrigation and Fertility Response Studies," Soil Science Society of America Proceedings, July-August 1960 (with W.L. Parks).

"Moisture Uncertainties and Fertility Response Studies," Journal of Farm Economics, February, 1959.

"Corn Yields as Influenced by Nitrogen Level and Drought Intensity," Agronomy Journal, Vol. 51, 1959 (with W.L. Parks).

Interpreting Results of Irrigation Experiments, TVA Technical Report, T 59-1 AE, August, 1958 (with W.L. Parks).

The Occurrence of Drought in the Tennessee Valley, TVA Technical Report, T 58-2 AE, June, 1958 (with James Smallshaw).

"Economic Considerations in Soil Fertility Research," Quarterly Bulletin of Michigan Agricultural Experiment Station, August, 1956 (with L.S. Robertson and W.B. Sundquist).

Proceedings and Other

"Management Options and Management Integration in Recreational and Commercial Fisheries", Proceedings of the Canadian Sports Fisheries Conference, to appear 1977 (with Parzival Copes).

- "Environmental Impact Assessment: Appraisal and Implications of Experience," Environmental Impact Assessment Conference Proceedings, University of British Columbia, 1976.
- "Macro-Economics, Tourism Research in Canada," Proceedings of Conference of International Association of Scientific Experts in Tourism, Belgrade, 1975, (with T. Var).
- "The Use of Bids for Allocating Deep Water Port Improvements," Statement in Report on Seminar on Multiple Use of the Coastal Zone, National Council on Marine Resources and Engineering Development, 1968.
- "Accommodating Outdoor Recreation and Travel Demands," Proceedings, Tenth Annual Conference, Western Council for Travel Research, 1968.
- "Economic Aspects of Outdoor Recreation," in Proceedings of Conference on Parks and Outdoor Recreation, Conservation Council of Ontario, 1967.
- "Canadian Implications of Outdoor Recreation Economics," in Proceedings of Sixth Annual Federal-Provincial Parks Conference, 1967.
- "Conflicts in Land Use," in SF 70/466/IM, College of Agriculture, University of Missouri, 1966 (with Marion Clawson).
- "Financing Public Outdoor Recreation," in Proceedings of National Conference on Policy Issues in Outdoor Recreation, 1966.
- "Outdoor Recreation in the Market Place," in Bulletin 301 of Virginia Extension Service, September, 1966.
- "Tourism and Economic Development," in Proceedings of Second Symposium on Water Resources Research, Ohio State University, 1966.
- "Water Resources Development Planning as an Aspect of Regional Economic Development," in Proceedings of Coordinating Committee, U.S. Corps of Engineers Appalachian Studies Office Meeting, 1966.
- "Problems of Appraised Recreation Demand," in Proceedings Number 13 of the Western Agricultural Economics Research Council's Committee on the Economics of Water Resources Development, 1966.
- "Some Topics of Interest," in Outdoor Recreation Research Seminar Proceedings, Great Plains Research Economics Committee, 1965.
- "Recreation in Water Resources Development," in Proceedings of the First Annual Meeting of the American Water Resources Association, 1965.
- "Marketing Research and Recreation Use of Resources," in 61st Annual Proceedings, Association of Southern Agricultural Workers, 1964.

"Basic Concepts in Outdoor Recreation," in Proceedings Louisiana Outdoor Recreation Seminar, Louisiana State University, Baton Rouge, December, 1964.

"Outdoor Recreation and Resource Choices: Methodologies and Strategies," British Columbia Department of Economic Development, 1975 (with W.M. Fleming).

Outdoor Recreation Demands and Values, Battelle Memorial Institute, December, 1969 (with Frank J. Cesario and Seymour E. Goldstone).

A Design for Assessing Outdoor Recreation Demands in Canada, National and Historical Parks Branch, Department of Indian Affairs and Northern Development, Canadian Government, November, 1967.

Reprinted in Canadian Outdoor Recreation Demand Study Technical Notes, to appear, 1977.

United Nations Special Fund Soil Survey Project in Lebanon - Report to the Food and Agricultural Organization of the United Nations, 1965.

Reviews

Review of "The Economics of Natural Environments," by J.V. Krutilla and A.C. Fisher, Journal of Economic Literature, Vol. 14, No. 2, 1976.

Review of "The Demand and Supply of Outdoor Recreation: An Econometric Analysis," by C.J. Cicchetti, J.J. Seneca, and P. Davidson, Journal of Economic Literature, March, 1971.

Review of "Essays in Urban Land Economics -- In Honor of Leo Grebler," American Economic Review, December, 1967.

Review of "Resources Conservation -- Economics and Policies," by S.V. Ciriacy-Wantrup, Journal of Natural Resources, January, 1964.

Invited Testimony

"Testimony on Skagit River Development in Washington and British Columbia," before the U.S. Federal Power Commission, January, 1975.

"Testimony on Economics of the Property Tax," before Special Committee of British Columbia Legislative Assembly, June, 1974.

"Statement on the Proposed Tax on Sulfur Emissions," Testimony Prepared for Congressional Committees and Executive Agencies, Taxation with Representation, 1972.

"Statement on the Management of the Coastal Zone of the United States,"
Hearings before the U.S. Senate Subcommittee on Oceanography of the
Committee on Commerce, May, 1970.

Testimony on Snake River Projects before the U.S. Federal Power Commission,
March, 1970.

"Statement on Procedures for Evaluation of Water and Related Land Resource
Projects," Hearings before the U.S. Water Resources Council, September,
1969.

"Statement on Guidelines for Estimating the Benefits of Public Expenditures,"
Hearings before the Subcommittee on Economy in Government of the Joint
Economic Committee of U.S. Congress, May, 1969.

SIMON FRASER UNIVERSITY

New Graduate Course Proposal Form

CALENDAR INFORMATION:

(Change in Description Only)

Department: Economics and Commerce Course Number: MBA 605

Title: Market Strategies

Description: Strategies by which the organization reduces and adapts to uncertainties stemming from elements in its product and resource markets.

Credit Hours: _____ Vector: _____ Prerequisite(s) if any: _____

ENROLLMENT AND SCHEDULING:

Estimated Enrollment: _____ When will the course first be offered: _____

How often will the course be offered: _____

JUSTIFICATION:

Change made for editorial purposes only. No change in course content is implied.

RESOURCES:

Which Faculty member will normally teach the course: _____

What are the budgetary implications of mounting the course: _____

Are there sufficient Library resources (append details): _____

- Appended: a) Outline of the Course
- b) An indication of the competence of the Faculty member to give the course.
- c) Library resources

Approved: Departmental Graduate Studies Committee: [Signature] Date: [Date]

Faculty Graduate Studies Committee: [Signature] Date: _____

Faculty: J. M. Munro Date: Nov. 9/76

Senate Graduate Studies Committee: [Signature] Date: 22 Dec 1976

Senate: _____ Date: _____