

**S. 90 - 54**

**SIMON FRASER UNIVERSITY**

**MEMORANDUM**

**TO: Senate**

**FROM: J. Munro  
Chair, Senate  
Cttee on Academic  
Planning**

**SUBJECT: Curriculum Revisions -  
Faculty of Applied Sciences**

**DATE: November 20, 1990**

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Action undertaken by the Senate Committee on Academic Planning and the Senate Committee on Undergraduate Studies, gives rise to the following motion:

**MOTION: "that Senate approve and recommend approval to the Board of Governors, as set forth in S.90-54 curriculum revisions in the Faculty of Applied Sciences as follows:**

- |      |          |                               |
|------|----------|-------------------------------|
| i)   | S.90-54a | Department of Communication   |
| ii)  | S.90-54b | School of Computing Science   |
| iii) | S.90-54c | School of Engineering Science |
| iv)  | S.90-54d | School of Kinesiology"        |

**Department of Communication  
Summary of Curriculum Revisions**

SCUS Reference: SCUS 90-1, SCUS 90-19

SCAP Reference: SCAP 90-19, SCAP 90-20

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1. Proposed New Courses
  - CMNS 235-3, CMNS 363-4, CMNS 454-4
2. Proposed Prerequisite Changes
  - CMNS 335-4, CMNS 341-4
3. Proposed Changes to Program Descriptions
  - Major Program (Graduation Requirements)
  - Joint Major in Business Administration and Communication (Upper Division Requirements)
4. Proposed Changes to Joint Major in Business Administration and Communication
  - addition of CMNS 363, CMNS 261, and deletion of CMNS 361

SENATE COMMITTEE ON UNDERGRADUATE STUDIES  
NEW COURSE PROPOSAL FORM

1. Calendar Information

Department: Communication

Abbreviation Code: CMNS Course No: 235 Credit Hours: 3 Vector: 2-1-0

Title of Course: INTRODUCTION TO JOURNALISM IN CANADA

Calendar Description of Course: An overview of various facets of journalism as a social, cultural and political practice in Canada. Topics include journalism history, news media structure, the news production process, journalists as an occupational group, and media law and ethics.

Nature of Course: Second-year elective in "policy" and "media" streams.  
Prerequisite for CMNS 335. Would be a basic required course in any future journalism minor. Lecture/tutorial.

Prerequisites (or special instructions): none

What course(s), if any, is being dropped from the calendar if this course is approved: none, but content of CMNS 335 would be revised slightly to avoid overlap.

2. Scheduling

How frequently will the course be offered? once per year

Semester in which the course will first be offered? 1991-3

Which of your present faculty would be available to make the proposed offering possible? R. Hackett; D. Gutstein; (R. Lorimer). Would be team-taught.

3. Objectives of the Course (see on back as well) The proposed course is a reflection of student interest in journalism studies, and is intended as a stepping-stone in building a minor in this area. The course parallels CMNS 230, which focusses on media structure, by examining journalism as a social practice within that structure. It offers important background for upper-year CMNS courses, notably 335 and 341.

4. Budgetary and Space Requirements (for information only)

What additional resources will be required in the following areas:

Faculty: none

Staff: "

Library: (possibly subscriptions to 1 or 2 journalism reviews)

Audio Visual: none

Space: "

Equipment: "

5. Approval

Date: 14 Feb. 1990 22/6/90 Nov. 2/90  
[Signature] [Signature] [Signature]  
Department Chair Dean Chairman, SCUS

SCUS 73-34b: (When completing this form, for instructions see Memorandum SCUS 73-34a. attach course outline).

### Relations/Possible Overlaps with Other Relevant Courses

This course is designed as a new course in an area which has not been covered by any existing communication course. There is no significant overlap with other courses in the Department (except that the two lectures on journalism history overlap with our lecture in CMNS 335 and CMNS 230 respectively, but there are different focuses: while this course focuses on the evolution of journalism as a political and social institution, the two lectures in the Communication courses focus on the development of print and electronic media as industries). This course can serve as an introductory course both to relevant third year Communication courses (CMNS 341, CMNS 335) and to advanced Journalism courses in news production, journalism law and ethics.

DEPARTMENT OF COMMUNICATION

CMNS 235-3

INTRODUCTION TO JOURNALISM IN CANADA

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Lecture Topics:

This is an introductory course for students in journalism. It is designed to offer an overview of journalistic issues in Canadian. Possible 13-week lecture topics are:

1. Introduction to the Course
2. History of Journalism in Canada I: Print Journalism
3. History of Journalism in Canada II: Electronic Journalism
4. Perspectives on Journalism
5. Overview of News Media Industries in Canada
6. How the News is Gathered and Disseminated to Canadians: The News Net
7. The Journalists: Background, Training, Occupational Values
8. The Production of News Within the Newsroom
9. Overview of Issues in Journalistic Ethics
10. Overview of Media Law
11. Journalism in Political Life
12. Journalism and the Canadian Public
13. Journalism and New information Technology

Prerequisites: none

Course Readings: two core texts plus weekly supplementary readings and study material

Required Texts:

Peter Desbarats, Guide to Canadian News Media, Toronto: Harcourt Brace Jovanovich, 1990

Robert Hackett, et al, forthcoming book on journalism and objectivity in Canada

<u>Grade Distribution:</u>	First term essay	20%
	Second term essay	30%
	Tutorial participation	10%
	Scheduled Final examination	40%

The Department expects that the grades awarded in this course will bear some reasonable relation to established university-wide practices with respect to both levels and distribution of grades.

DEPARTMENT OF COMMUNICATION

CMNS 235-3

INTRODUCTION TO JOURNALISM IN CANADA

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Overview:

The course is intended to introduce students to journalism as an important social, cultural and political institution. It focusses on the practices and implications of journalism, and on social, political and economic factors which shape and constrain news production, rather than on communications policy or the structure of media industries as such. These latter topics receive more detailed attention in such courses as CMNS 230-3 (Introduction to Communication Media), and CMNS 333-4 (Broadcasting Regulation and Policy in Canada). This course is a prerequisite for CMNS 335-4 (The Newspaper Industry and Press Policy in Canada), and for CMNS 341-4 (Political Communication).

Prerequisites: None.

Course Readings: Two core texts plus weekly supplementary readings and study material.

Core Texts:

Peter Desbarats, Guide to Canadian News Media. Toronto:  
Harcourt Brace Jovanovich, 1990.

Robert Hackett, et al, forthcoming book on journalism and  
objectivity in Canada.

<u>Grade Distribution:</u>	First term essay	20%
	Second term essay	30%
	Tutorial participation	10%
	Scheduled Final examination	40%

The Department expects that the grades awarded in this course will bear some reasonable relation to established university-wide practices with respect to both levels and distribution of grades.

Weekly Topics and Readings:

Week 1: Introduction.

Week 2: Perspectives in Journalism.

Survey of theories on the nature of journalism and  
relations between journalism and society.

Required:

Ross Eaman, "What is news" and "What is the ideal  
state-press relationship?" in The Media  
Society: Basic Issues and Controversies,  
Toronto: Butterworths, 1987, pp. 33-84.

Supplementary:

G. Stuart Adam, "The journalistic imagination", in  
Journalism, Communication, and the Law,  
Scarborough: Prentice-Hall of Canada, 1976.  
Desbarats, Chapter 7, pp. 153-172.

**Week 3: Historical Background on Journalism in Canada I: Print Journalism.** The evolution of print journalism in Canada, with a focus on journalism as a political and social institution.

Required:

Desbarats, Chapter 1, pp. 1-26.

Supplementary:

Paul Rutherford, The Making of the Canadian Media. Toronto: McGraw-Hill Ryerson, 1978, Chapters 1 & 2.

Kesterton, W.H., A History of Journalism in Canada. Toronto: McClelland and Stewart, 1967.

**Week 4: Historical Background on Journalism in Canada II: Electronic Journalism.** The Development of electronic journalism in Canada.

Required:

Desbarats, Chapter 2, pp. 27-50.

Supplementary:

Rutherford (1978), Chapter 3.

**Week 5: Overview of Media Industries in Canada.** Examination of organizational structures of different types of news media in Canada and the influence of these organizational structures on journalism.

Required:

Desbarats, Chapter 3, pp. 53-78.

Supplementary:

Carman Cumming, et. al., "Canada", in G.T. Kurian (ed.), World Press Encyclopedia. New York: Facts on File, 1982.

A. Carlos Routolo: "Monopoly and socialization", in Press Concentration and Monopoly, Robert Picard, et al. (eds). Norwood: Ablex Publishing, 1988.

**Week 6: How the News is Gathered and Disseminated to Canadians: The News Net.** Description of how news is gathered for distribution to Canadians: The Canadian Press and other news services; parliamentary and legislative press galleries; institutional and other news sources.

Required:

"Support structures in the political news flow", in: Arthur Siegel, Politics and the Media in Canada. Toronto: McGraw-Hill Ryerson, 1983, pp. 184-206.

Supplementary:

Carman Cumming, "The Canadian Press: a force for consensus?", in G. Stuart Adam, 1976.

Frederick J. Fletcher, "The press galleries and coverage of public affairs", The Newspaper and Public Affairs, Royal Commission on Newspapers, 1981.

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**Week 7: The Journalists: Background, Training, Occupational Values.** Portrayal of Canadian journalists: social background; training; personal and occupational values; career patterns; relationships with and perspectives on media industries and management.

Required:

- Desbarats, Chapter 4, pp. 79-101.  
Robert Fulford, et. al., "Philosophical and moral foundations", in The Journalists. Canada: Royal Commission on Newspapers, 1981, pp. 2-39.  
Andre Gosselin, "The collective practices of Quebec journalist", in Canadian Journal of Communication 14(2), pp. 28-40.

Supplementary:

- George Pollard, "Canadian newswriters: a cross media analysis of professional and personal attributes" in Canadian Journal of Communication 85:11(3), pp. 269-286.  
Andrew Macfarlane and Robert Martin, "Political activity and the journalist: a paradox", in Canadian Journal of Communication 10(2), pp. 1-35.

**Week 8: The Production of News within the Newsroom.** General description of the news production process, the organization of newsrooms, division of labour and journalistic routines.

Required:

- Desbarats, Chapter 5, pp. 104-24.  
"Manufacturing of News", in Edwin R. Black (1982), pp. 89-116.

Supplementary:

- Richard V. Ericson, et. al, "Newsrooms and journalists' cultures", in Visualizing Deviance. Toronto: University of Toronto Press, 1987, pp. 95-138.  
Ted Joseph, "Existing decision-making practices on daily newspapers in Canada", in Canadian Journal of Communication 8(2), pp. 65-68.

**Week 9: Overview of Issues in Journalistic Ethics.** Discussion of ethic issues involved in journalistic practice: objectivity, balance, fairness, accuracy, privacy, etc.

Required:

- Desbarats, Chapter 8, pp. 75-89.  
Jeffery Olen, "Journalism and moral reasoning", in Ethics in Journalism. Englewood Cliffs, NJ: Prentice-Hall, 1988.

Supplementary:

Francois Demers, "Journalistic ethics: the rise of the good employee's model: a threat for professionalism?" in Canadian Journal of Communication 14(2), pp. 15-27.

Jim Maclean, "Ethics in the Air", Content, May/June 1986, pp. 4-6.

Carman Cumming, "Ethics -- No Easy Answers", Content, May/June 1988, pp. 9-10.

"What would you do?", Content, May/June 1988, pp. 9-10.

Stanley B. Cunningham, "Terminal distortion: Basal Incoherence in some recent mass media criticism", in Canadian Journal of Communication 12(2), pp. 51-70.

"Ethics in Journalism", Content 3/4, 1985, pp. 2-5.

**Week 10: Overview of Media Law.**

Discussion of legal supports and constraints on "freedom of the press" and the production of news.

Required:

Clare Beckton, "Freedom of press in Canada: prior restraint", in The Media, the Courts and the Charter, pp. 119-142.

Arthur Siegel (1983), Chapter 4.

Supplementary:

Peter Worthington, "Freedom of the Press: a Response"; and Robert Sharpe, "The Charter and Defamation", in The Media, the Courts and the Charter, pp. 143-57.

Roland G. Atkey, "The law and the press in Canada", in Stuart Adam (1976), pp. 125-49.

Stuart M. Robertson, Media Law Handbook. Vancouver, 1982.

**Week 11: Journalism in Political Life.**

The roles of news media in political life: relations between news media and government, the influence of news media on politics and the democratic process.

Required:

Desbarats, Chapter 6.

Anthony Westell, "The press: adversary or channel of communication?" in Harold D. Clarke et. al. (eds), Parliament, Policy and Representation. Toronto: Methuen, 1980.

Supplementary:

Mary Anne Comber and Robert S. Mayne, The Newsmongers. Toronto: McClelland and Stewart, 1986, section 2.

**Week 12: Journalism and the Canadian Public.**

Examination of relations between news media and news sources, media-monitoring organizations, pressure groups and the public in general.

Required:

Jerome A. Barron, "Public access to the media under the Charter"; and J.A. Taylor, "The role of the press council", in The Media, the Courts and the Charter, pp. 177-202; 159-172.

Supplementary:

Dominique Clift, "Press councils and ombudsmen", in The Journalists, pp. 137-150.

R. Ericson, et. al., "The news media", in Negotiating Control, pp. 308-76.

Jean Charron, "Relations between journalists and public relations practitioners: cooperation, conflict and negotiation", in Canadian Journal of Communication 14(2).

**Week 13: Journalism and New Information Technology.**

The changing face of journalism and the working of journalists in light of new information technology.

Required:

Desbarats, Chapter 10.

Supplementary:

David A. Patten, Newspapers and New Media. White Plains, NY: Knowledge Industry Publications, 1986, Chapters 8-9.

David H. Weaver, Videotext Journalism.

SENATE COMMITTEE ON UNDERGRADUATE STUDIES

NEW COURSE PROPOSAL FORM

1. Calendar Information

Department: Communication

Abbreviation Code: CMNS Course No: 363 Credit Hours: 4 Vector: 2-2-0

Title of Course: APPROACHES TO MEDIA AND AUDIENCE RESEARCH

Calendar Description of Course: A survey and application of research approaches to media and audience analysis including content analysis, textual analysis, agenda setting, effects research, focus group and survey research, message evaluation and audience studies.

Nature of Course: lecture/tut

Prerequisites (or special instructions): One of CMNS 215, 220 or 221

What course(s), if any, is being dropped from the calendar if this course is approved: none

2. Scheduling

How frequently will the course be offered? once a year

Semester in which the course will first be offered? 1991-3

Which of your present faculty would be available to make the proposed offering possible? Steve Kline, Bob Hackett, Rick Gruneau, Martin Laba, Alison Beale.

3. Objectives of the Course (see back as well): The course will survey research approaches to media and audience research and introduce students to theoretical and policy issues raised by the application of these methods. Case studies will be used to explore the currently predominant research applications including content analysis, deconstruction and textual analysis, agenda setting, effects, interview, formative message evaluation and audience studies. Students will be expected to acquire basic knowledge of the assumptions and procedures employed in each method and to conduct a related research project. The emphasis of this course will be on the judgmental processes which assist in the adoption of a particular approach and upon research design in relationship to research objectives.

4. Budgetary and Space Requirements (for information only)

What additional resources will be required in the following areas:

Faculty: none

Staff: "

Library: "

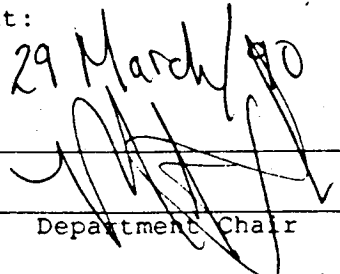
Audio Visual: "

Space: "

Equipment:

5. Approval

Date:

29 March/90  
  
Department Chair

22/6/90  
  
Dean

Nov. 2/90  
  
Chairman, SCUS

SCUS 73-34b: (When completing this form, for instructions see Memorandum SCUS 73-34a. attach course outline).

DEPARTMENT OF COMMUNICATION  
CMNS 363-4  
APPROACHES TO MEDIA AND AUDIENCE RESEARCH

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The course will survey approaches to media and audience research and introduce students to theoretical and policy issues raised by the application of these methods. Case studies will be used to explore currently predominant research approaches including content analysis, deconstruction and textual analysis, agenda setting, effects, interview, formative message evaluation, and audience studies. Students will be expected to acquire basic knowledge of the assumptions and procedures employed in each method and to conduct a related research project. The emphasis of this course will be on the judgmental processes which assist in the adoption of a particular approach and upon research design in relationship to research objectives.

Prerequisites: One of CMNS 215, 220 or 221.

Required Texts:

Arthur Asa Berger, Media Analysis Techniques, (Beverly Hills: Sage, 1982).

Recommended Texts:

Thelma McCormack (ed.), Studies in Communication: Culture, Code and Content Analysis. Greenwood: JAI Press, 1982.

Guido H. Stempel III and Bruce H. Westley (eds.), Research Methods in Mass Communication. Englewood-Cliffs: Prentice-Hall, 1982.

Grade Distribution:

Seminar presentations including discussion of readings for two case studies	30%
Project proposal discussing a communication research issue and its operationalization in terms of a research design. The design should be fully described and justified	35%
Research paper reporting the project results and its interpretation as related to the research issues identified	35%

Seminar Topics:

Part One: Introduction

1. What is Research Media? An introduction to who's doing media analysis and why
2. The Critical and Policy Context of Media Research
3. The Limits and Possibilities of Media Research

Part Two: Selected Methods and illustrative Case Studies

4. Introduction to Quantitative Content Analysis Techniques
5. Content Analysis: The Case of Broadcast News
6. Introduction to 'Textual' Analysis
7. Textual Analysis: The Case of Women in Cinema
8. Introduction to Production Ethnographies
9. Production Ethnography: A Case Study in Television Sports Production
10. Introduction to Effects Analysis and Audience Research
11. Audience Research (1): Agenda-setting, Polling, and Opinion Analysis
12. Audience Research (2): Qualitative Techniques - The Case of Television and Children's Play

Part Three: Conclusion: The Importance of Multi-Methodological Approaches

13. Course Summary and Wrap-up: Bringing Research on Production, Texts and Audiences Together

The Department expects that the grades awarded in this course will bear some reasonable relation to established university-wide practices with respect to both levels and distribution of grades.

SENATE COMMITTEE ON UNDERGRADUATE STUDIES

NEW COURSE PROPOSAL FORM

1. Calendar Information

Department: Communication

Abbreviation Code: CMNS Course No: 454 Credit Hours: 4 Vector: 2-2-0

Title of Course: COMPUTER MEDIATED WORK AND WORKPLACE COMMUNICATION

Calendar Description of Course:

An investigation of the content, quality and character of jobs and workplace communication systems that involve computers. An examination of the influence of managerial goals and workplace relations on the design and choice of hardware and software for: office automation; computer-aided and computer-integrated manufacturing systems; computer-aided design, expert systems, and electronic networks.

Nature of Course: lecture/tutorial

Prerequisites: CMNS 253 or 353 or permission of the instructor. (Students who took CMNS for credit between Fall 89-3 and Summer 91-2 inclusive may not take CMNS 454 for further credit.)

What course(s), if any, is being dropped from the calendar if this course is approved: none

2. Scheduling

How frequently will the course be offered? once a year

Semester in which the course will first be offered? In Spring 1990, this course was offered as CMNS 353, a course on social impacts of information technology whose specific focus varies from semester to semester. It will be offered again in the Fall 1990.

Which of your present faculty would be available to make the proposed offering possible? Pat Howard and Linda Harasim

3. Objectives of the Course

To expose students to academic, business, and union literature reflecting current views and debates regarding both the impact of computerized automatization on factory, retail, office and professional jobs and the influence of existing workplace relations on the choice and design of hardware and software for computer-mediated work.

4. Budgetary and Space Requirements (for information only)

What additional resources will be required in the following areas:

Faculty: none

Staff: none

Library: already relatively rich resources, though might want to update materials on Canadian workplace situations.

Audio Visual: same as above

Space:

Equipment:

5. Approval

Date: 24 April 1990

[Signature]  
Department Chair

22/6/90

[Signature]  
Dean

Nov. 2/90

[Signature]  
Chairman, SCUS

SCUS 73-34b: (When completing this form, for instructions see Memorandum SCUS 73-34a: attach course outline).

## CMNS 454-4

## COMPUTER-MEDIATED WORK AND WORKPLACE COMMUNICATION

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Through lectures, readings, discussions, and research projects computerization of information systems and computerized automation of production systems in blue and white-collar settings will be investigated. Claims that information technology is ushering in a post-industrial society will be critically discussed in the light of evidence regarding the character of communication between labor and management in the context of these new technologies. New and old managerial utopias will be compared. Recent business theory and practice of "participatory management" and "intimate authority" will be critically analyzed. Debates regarding whether the information technologies create or destroy jobs, deskill or upgrade skills, degrade or enrich work will be reviewed. The course will also look at health and safety in the production of the smart machines and collective bargaining for new technology agreements in Europe and North America. The relation between new technologies and workplace communication relations will be treated dialectically, examining both the impact of new technology on the content and character of workplace communication but also, just as importantly, the impact of current workplace relations on the design and choice of hardware and software in workplace automation. The course will conclude with a discussion of alternative proposals for socializing the systems analysis and design of computer-mediated work.

**PREREQUISITES:** CMNS 253 or 353 or permission of the instructor.

**REQUIRED TEXTS:** Robert HOWARD, Brave New Workplace, Penguin Books Canada, 1985

Readings for discussion in tutorials will also be available on reserve in the library and in the Doc Centre.

<b><u>REQUIREMENTS:</u></b>	Participation in Tutorial Discussions	10%
	Take-home Exam in Week Eleven	40%
	Presentation of Research	10%
	Term Paper (2500-3000 words)	40%

The Department expects that the grades awarded in this course will bear some reasonable relation to established university-wide practices with respect to both levels and distribution of grades.

DEPARTMENT OF COMMUNICATION

CMNS 454-4

COMPUTER-MEDIATED WORK AND WORKPLACE COMMUNICATION

Lecture Topics, Readings, and Discussion Schedule

Note: From time to time extra background readings will be put in the Doc Centre for use in tutorial discussions. Such readings will be announced in class. A bibliography of background readings will also be available. Some of these readings will also be available in the Doc Centre.

**WEEK ONE** Introduction: Working with Computers  
No tutorials

**WEEK TWO** The New Managerial Utopians  
Robert HOWARD, "Introduction: Work, Technology, and Utopia" in Brave New Workplace, 1985: 1-11  
Richard Walton, "From control to commitment in the workplace," Harvard Business Review, March-April, 1985: 77-84.  
Edgar H. Schein, "Reassessing the 'Divine Rights' of Managers," reprint from Sloan Management Review, in Inside Guide, Fall 1989: 36-43.

**WEEK THREE** The Old Managerial Utopians  
Howard, *ibid.*, Ch. 1: "Managerial Visions": 15-35  
Craig Littler, "Taylorism, Fordism and Job Design" in D. Knight, H. Wilmot, & D. Collinson, eds., Job Redesign: Critical Perspectives on the Labour Process, Aldershot: Gower, 1985: 10-29.

**WEEK FOUR** The Labor Process Debate  
David Noble, "Social Choice in Machine Design: The Case of Automatically Controlled Machine Tools," Politics and Society, Vol. 8, nos. 3-4: 313-347.  
Philip Kraft, "The Industrialization of Computer Programming: From Programming to 'Software Production'" in Andrew Zimbalist, ed., Case Studies on the Labour Process, New York: Monthly Review Press, 1979: 1-17.

**WEEK FIVE** Control Versus Efficiency  
Howard, *ibid.*, Ch.2: "Contradictions of Control": 36-67  
Larry Hirschhorn, "The Soul of the New Worker," Working Papers, Jan.-Feb., 1982: 42-47.  
Richard Hyman, "Flexible Specialization: Miracle or Myth?" in Richard Hyman & Wolfgang Streeck, eds., New Technology and Industrial Relations, Oxford: Basil Blackwell, 1988: 61-74.

**WEEK SIX** Computer-Mediated Work and Job Stress  
Howard, *ibid.*, Ch. 3: "Personal Costs": 68-90  
Labour Canada Task Force on Microelectronics and Employment, "Microelectronics and Employment" in Graham S. Lowe & Harvey, J. Krahn, eds. Working Canadians, Toronto: Methuen, 1984: 297-303.  
Louise Lamphere, "Fighting the Piece-Rate System: New Dimensions of an Old Struggle in the Apparel Industry" in Andrew Zimbalist, ed. Case Studies on the Labor Process, New York: Monthly Review Press, 1979: 257-276.

## DEPARTMENT OF COMMUNICATION

### WEEK SEVEN Professionalization & Participation Without Power

Howard, *ibid.*, Ch 4: "The Human Connection": 93-118.

James C. Taylor, "Job Design and Quality of Working Life" in Robert Kraut, ed. Technology and the Transformation of White-Collar Work, Hillsdale, N.J.: Lawrence Erlbaum, 1987: 211-235.

### WEEK EIGHT "Participatory Management & Intimate Authority"

Howard, *ibid.*, Ch. 5: "Crafting the Corporate Self": 119-38

Doug Noble, "High Tech Skills: The Corporate Assault on the Hearts and Minds of Union Workers" in D. Hams, ed. It's Our Own Knowledge, Toronto: Garamond, 1989: 59-79.

Carol Axtell Ray, "Skill Reconsidered: The Deskillling and Reskilling of Managers," Work and Occupations, Vol. 16, No. 1, Feb. 1989: 65-79.

### WEEK NINE Producing the Smart Machines

Howard, *ibid.*, Ch. 6: "Hazards of Enchantment": 139-167.

Rosalinda Pineda-Ofreneo, "Issues in the Philippine electronics Industry: A Global Perspective," Economic and Industrial Democracy, Vol. 6, 1985: 185-207.

### WEEK TEN Collective Bargaining for New Technology Agreements

Howard, *ibid.*, Ch. 7: "Labor's Muted Voice": 171-197.

Stephen Wood, "Cooperative Labor Strategy in the U.S. Auto Industry," Economic and Industrial Democracy, Vol. 7, No. 4, 1986: 415-447.

### WEEK ELEVEN Socializing the Analysis and Design of Computer-Mediated Work

Howard, *ibid.*, "Conclusions: Political Visions": 198-213.

Colin Gill, "New Technology and the Future of Work" in Work Unemployment and the New Technology, Cambridge: Polity Press, 1985: 161-184.

Note: The last two weeks of lectures will be devoted to examination of computer-mediated work in different workplace environments. The tutorials will be used for presentations of research results by students so that the instructor and TA are not the only ones to profit from the research findings and analysis of students. Term paper topics must be approved by either the TA or the instructor. The bibliography of background readings will provide sources for many possible paper topics. Research papers may be based entirely on library research or may include results from field research such as participant observation, field interviews, surveys, etc.

### COURSE REQUIREMENTS & GRADING

Participation in Tutorial Discussions	10%
Presentation of Research	10%
Take-home Exam in Week Eleven	40%
Term Paper (2500-3000 words)	40%

Note: The term paper will be due to be handed in at the last lecture of the term. The exam will be handed out after the lecture in Week Eleven and due back on the day of the lecture in Week Twelve.

PROPOSED PREREQUISITE CHANGES: Department of Communication

- a) CMNS 335-4 The Newspaper Industry and Press Policy in Canada

Current Prerequisites: CMNS 230 recommended.

New prerequisites: CMNS 235 or permission of the instructor.  
CMNS 230 strongly recommended. CMNS 261 strongly recommended.

Rationale: The proposed new course CMNS 235 covers introductory material (e.g. on journalism's historical development) which is important background for CMNS 335. The content of 335 will be revised slightly to assume that background, and to focus on the more specialized, advanced material.

- b) CMNS 341-4 Political Communication

Current Prerequisites: CMNS 230 strongly recommended. The Department maintains a current list of courses in Political Science and Sociology that are recommended for students taking CMNS 341-4.

New Prerequisites: CMNS 235 or permission of the instructor.  
CMNS 230 strongly recommended. The Department maintains a current list of courses in Political Science and Sociology that are recommended for students taking CMNS 341-4.

Rationale: Same as (a) above.

PROPOSED PROGRAM DESCRIPTION CHANGES - Department of Communication

a) Change to Graduation Requirements for Communication Major Program

At its plenary meeting on April 23, 1990, the Department of Communication approved the following change in the graduation requirements for Communication majors.

Current requirement (1990/91 calendar): - one of CMNS 261-3, 301-4, or 362-4.

Proposed requirement: - one of CMNS 261-3, 301-4, 362-4, or 363-4.

Rationale: Each student majoring in Communication is expected to take at least one research and methods-oriented course within the discipline. This change adds the new course 363 (Approaches to Media and Audience Research) as one of that group of courses.

b) Changes to Joint Major in Business Administration and Communication (supporting documentation attached)

Re: Joint Major in Business Administration and Communication for the Communication Upper Division Requirements

Current: Current elective courses under the "Policy Analysis" option include CMNS 333-4, Broadcasting Regulation and Policy in Canada.

Proposed Revision: To the option of CMNS 333-4, two other courses should be added: CMNS 334-4, Cultural Policy; and CMNS 335-4, The Newspaper Industry and Press Policy in Canada. Thus, the calendar under the heading "Policy Analysis" will read:

One 300 division policy course chosen from the following:

CMNS 333-4	Broadcasting Regulation and Policy in Canada
CMNS 334-4	Cultural Policy
CMNS 335-4	The Newspaper Industry and Press Policy in Canada

Rationale: The currently listed options for the Joint Major in Business and Communication were drawn up before the courses CMNS 334-4 and 335-4 existed. There is no inherent reason to privilege broadcasting policy over cultural or press policy, for purposes of this Joint Major.

# SIMON FRASER UNIVERSITY

## MEMORANDUM

To: Prof. Parveen Bawa, Chair, Faculty of  
Applied Sciences Undergraduate Curriculum  
Committee

From: Bob Hackett, Chair, Undergraduate  
Curriculum Committee, Dept. of Communication

Subject: Joint Business Admin./CMNS major:  
proposed change

Date: July 10, 1990

This memo is to request approval for a change to the Communication "methods" requirement for the Joint Major program in Business Administration and Communication. This would become effective, contingent upon relevant approval, for the 1991/92 academic year.

EXISTING REQUIREMENTS (p. 110 of 1990/91 Calendar)

Required:

One Methods Course:

- CMNS 301-4 Communication Network Research  
or
- CMNS 361-4 Documentary Research in Communication  
or
- CMNS 362-4 Evaluation Methods for Applied Communication Research

PROPOSED REQUIREMENTS:

Required:

One Methods Course:

- CMNS 261-3 Documentary Research in Communication  
or
- CMNS 301-4 Communication Network Research  
or
- CMNS 362-4 Evaluation Methods for Applied Communication Research  
or
- CMNS 363-4 Approaches to Media and Audience Research

### RATIONALE FOR PROPOSED CHANGES

The proposed changes are consistent with the recently amended "methods" requirements for Communications majors, as approved by the FAS-UCC during Spring 1990. They reflect two recent curriculum changes: First, the former course CMNS 361-4 was dropped in 1989 and replaced by the new course CMNS 261-3, in order to make it more widely available to CMNS majors as background for their upper division courses. Second, the proposed new course CMNS 363-4, approved by the FAS-UCC in Spring 1990, is intended as an addition to our methods offerings commencing in Fall 1991. It is intended as one of the several courses by which Communications majors can fulfil the "methods" requirement.

### APPROVAL FROM THE FACULTY OF BUSINESS ADMINISTRATION

Such approval has been requested; it is hoped that it will be forwarded under separate cover.

**School of Computing Science  
Summary of Curriculum Revisions**

SCUS Reference: SCUS 90-20

SCAP Reference: SCAP 90-21

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1. Proposed Calendar Entry re Post Baccalaureate Diploma in Computing Science
2. Proposed Vector change to CMPT 104
3. Proposed Changes to program requirements - Digital Systems Design Program
4. Proposed change of course title for CMPT 495 and CMPT 496

# Simon Fraser University

## MEMORANDUM

To: Parveen Bawa --- Chair, Undergraduate Curriculum  
..... Committee -- FAS .....  
Subject: Calendar Changes .....

From: Bob Hadley --- Director Undergraduate .....  
..... Program -- School of Computing Science .....  
Date: January 17, 1990 .....

The Undergraduate Curriculum Committee of the School of Computing Science proposes an addition to the calendar description of the undergraduate program in Computing Science. The addition is attached. The proposed calendar entry could be inserted immediately following the calendar entry for the Minor Program in Computing Science.

**RECEIVED**

JAN 17 1990

FACULTY OF  
APPLIED SCIENCES

## **Post Baccalaureate Diploma in Computing Science**

Admission to a Post Baccalaureate Diploma in Computing Science is available for students who have already completed a Bachelor's degree. For information about the Post Baccalaureate Diploma program general regulations, refer to *Continuing Studies*.

### **Program Requirements**

All students must complete an approved program consisting of at least 30 credit hours, and which includes:

- (a)
  - CMPT-300(3) Introduction to Operating Systems
  - CMPT-307(3) Data Structures and Algorithms
  - CMPT-354(3) Database Systems and Structures
- (b) Additional upper division Computing Science courses and/or Computing Science graduate courses (with instructor's consent) totalling at least 12 hours
- (c) Any other upper division courses listed in the SFU calendar to bring the total to at least 30 credit hours.

Courses must be selected in consultation with a program advisor, in order to ensure that the student achieves a coherent program of study. The student will be responsible for satisfying the prerequisites of all courses in the student's program. This may entail taking most or all of the courses listed in the Lower Division Requirements of the Majors Program in Computing Science (depending upon the student's prior transcript).

### **Rationale**

A Post Baccalaureate Diploma is already offered by the School of Computing Science, as it is in many faculties of Simon Fraser. The proposed calendar entry (above) is intended both to convey to prospective students the degree of flexibility of the Post Baccalaureate program in Computing Science, and to convey, in advance of personal enquiries, what the fixed requirements of the Diploma are. At present, our departmental assistant receives numerous queries from potential students about the P.B. Diploma. The proposed entry formalizes the requirements of the Diploma in the School of Computing Science, and ensures consistent application of these requirements from year to year.

**Approved by UCC, School of Applied Science**

Dec. 14th, 1989

# Simon Fraser University

## MEMORANDUM

To: Parveen Bawa -- Chair, Undergraduate Curriculum  
Committee -- FAS  
Subject: Calendar Changes

From: Bob Hadley -- Director Undergraduate  
Program -- School of Computing Science  
Date: May 30, 1990

The Undergraduate Curriculum Committee of the School of Computing Science proposes the following minor change to the calendar description of the undergraduate program in Computing Science:

- The course vector for CMPT 104 is to be changed to include a one hour tutorial each week. Thus, the last line of the course description for CMPT 104 should be changed
- From: (Lecture/Laboratory)
- To: (Lecture/Laboratory/Tutorial)

### Rationale

The instructors of CMPT 104 have found through experience that the material in this course cannot be adequately conveyed entirely through lectures and unsupervised work at terminals on the part of the student. An hourly tutorial each week appears the most desirable solution.

**RECEIVED**

MAY 30 1990

FACULTY OF  
APPLIED SCIENCES

# Revision of the Digital Systems Design Program

## Summary of Changes

In an effort to streamline and render more effective the Digital Systems Design (DSD) program, the following changes to the program are proposed: three lower division courses, and four upper division courses are to be deleted from the *requirements* of the program (but not from the total course offerings of the School of Computing Science). These are to be replaced by two lower division ENSC courses, and one upper division CMPT course. The net result is that seven credit units will be trimmed from the DSD program. In particular, the following courses are to be dropped:

PHYS 221-3 Intermediate Electricity and Magnetism  
PHYS 233-2 Introductory Physics Laboratory A  
MATH 251-3 Calculus III  
MACM 300-3 Introduction to Formal Languages and Automata with Applications  
PHYS 326-3 Electronics and Instrumentation  
PHYS 331-3 Electronics Laboratory  
CMPT 405-3 Design and Analysis of Computing Algorithms

The following courses are to be added to the program:

ENSC 125-5 Basic Electronics Engineering  
ENSC 222-5 Electronic Design I  
CMPT 371-3 Data Communications and Networking

In addition to the deletions and additions described above, the course titles of CMPT 495 and 496 are to be changed to *Digital Systems Design and Specification Project* and *Digital Systems Implementation Project*, respectively.

## Calendar Changes, Official Format

### FROM

#### Lower Division Requirements

Students who plan to undertake the honors program in Digital Systems Design must obtain credit for the following lower division courses (or equivalents):

CMPT 101-4 Modula 2  
105-3 Fundamental Concepts of Computing  
201-4 Data and Program Organization

	205-3	Introduction to Formal Topics in Computing Science
	275-3	Software Engineering
	290-3	Introduction to Digital Systems
	291-2	Introduction to Digital Circuit Design
<b>MATH</b>	151-3	Calculus I
	152-3	Calculus II
	232-3	Elementary Linear Algebra
	251-3	Calculus III
<b>STAT</b>	270-3	Introduction to Probability and Statistics
<b>PHIL</b>	001-3	Critical Thinking
	210-4	Elementary Formal Logic I
<b>PHYS</b>	120-3	Physics I
	121-3	Physics II
	131-2	General Physics Laboratory B
	221-3	Intermediate Electricity and Magnetism
	233-2	Introductory Physics Laboratory A

(57 semester hours)

*Notes (as in the calendar)***Upper Division Requirements**

For an honors degree in Digital Systems Design, the following requirements must be met.

**Depth Requirement**

The following courses must be completed.

<b>CMPT</b>	300-3	Operating Systems I
	390-3	Digital Circuits and Systems
	391-3	Microcomputer Hardware Workshop
	400-3	Hardware Architecture
	402-3	Operating System Software Laboratory
	490-3	VLSI Systems Design
	495-3	Digital Systems Design and Specification Laboratory I
	496-3	Digital Systems Implementation Laboratory
<b>MATH</b>	310-3	Introduction to Ordinary Differential Equations
<b>PHYS</b>	326-3	Electronics and Instrumentation
	331-3	Electronics Laboratory

(33 semester hours)

## Breadth Requirement

The following courses must be completed.

CMPT	307-3	Data Structures and Algorithms
	351-3	Introduction to Computer Graphics (or 410-3 Artificial Intelligence Survey)
	354-3	File and Database Structures
	405-3	Design and Analysis of Computing Algorithms
MACM	300-3	Introduction to Formal Languages and Automata with Applications
	316-3	Numerical Analysis I
(18 semester hours)		

(Remainder as given in Calendar.)

## TO

### Lower Division Requirements

Students who plan to undertake the honors program in Digital Systems Design must obtain credit for the following lower division courses (or equivalents):

CMPT	101-4	Modula 2
	105-3	Fundamental Concepts of Computing
	201-4	Data and Program Organization
	205-3	Introduction to Formal Topics in Computing Science
	275-3	Software Engineering
	290-3	Introduction to Digital Systems
	291-2	Introduction to Digital Circuit Design
MATH	151-3	Calculus I
	152-3	Calculus II
	232-3	Elementary Linear Algebra
STAT	270-3	Introduction to Probability and Statistics
PHIL	001-3	Critical Thinking
	210-4	Elementary Formal Logic I
PHYS	120-3	Physics I
	121-3	Physics II
	131-2	General Physics Laboratory B
ENSC	125-5	Basic Electronics Engineering

**ENSC 222-5 Electronics Design I**

(59 semester hours)

*Notes (as in the calendar)***Upper Division Requirements**

For an honors degree in Digital Systems Design, the following requirements must be met.

**Depth Requirement**

The following courses must be completed.

CMPT 300-3 Operating Systems I  
 371-3 Data Communications and Networking  
 390-3 Digital Circuits and Systems  
 391-3 Microcomputer Hardware Workshop  
 400-3 Hardware Architecture  
 402-3 Operating System Software Laboratory  
 490-3 VLSI Systems Design  
 495-3 Digital Systems Design and Specification Project  
 496-3 Digital Systems Implementation Project

MATH 310-3 Introduction to Ordinary Differential Equations

(30 semester hours)

**Breadth Requirement**

The following courses must be completed.

CMPT 307-3 Data Structures and Algorithms  
 351-3 Introduction to Computer Graphics  
 (or 410-3 Artificial Intelligence Survey)  
 354-3 Database Systems and Structures  
 (new title already approved)

MACM 316-3 Numerical Analysis I

(12 semester hours)

**Credit Hour and Grade Point Requirements**

Additional Computing Science courses must be completed to bring the total upper division credit hours in CMPT/MACM to at least 50. Furthermore, a minimum of 60 semester hours of upper

division credit and an overall total of 132 semester hours, with a graduation grade point average of at least 3.00, are required for the Digital Systems Honors Degree.

*(Remainder as given in Calendar.)*

## RATIONALE

The *general* rationale for the foregoing changes is to improve the efficiency with which the requisite material is conveyed to students in the DSD program. For example, at present, DSD students must take a total of four Physics courses to obtain the requisite background in electrical theory and electronics. In the proposed new program, students will be able to obtain the relevant knowledge in just two ENSC courses. Moreover, these courses concentrate on the particular knowledge which is relevant to the DSD program as a whole. In addition, experience in the DSD program has shown that material covered in MATH-251, MACM-300, and CMPT-405 is not truly essential to the program, and would best be omitted.

Finally, the course titles of CMPT 495 and 496 *should* be changed to more accurately reflect the kind of work *presently* being assigned in these courses. For this reason, we propose the title changes described above.

**Approved** by the Undergraduate Curriculum Committee of the School of Computing Science, August 16, 1990.

### CMPT 495 - Change title

From: Digital Systems Design and Specification Laboratory I  
To: Digital Systems Design and Specification Project

### CMPT 496 - Change title

From: Digital Systems Implementation Laboratory  
To: Digital Systems Implementation Project

**School of Engineering Science  
Summary of Curriculum Revisions**

SCUS Reference: SCUS 90-21

SCAP Reference: SCAP 90-22

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1. Proposed Change to Computer Engineering Option Program Requirements  
- change CMPT 401 to CMPT 300

# MEMO

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**To :** Faculty of Applied Sciences Undergrad Curriculum Committee

**FROM :** Paul Ho, Chairman, Undergrad. Curriculum Committee, ENSC

**SUBJECT :** Calender Changes 1991-92

**Date :** April 24, 1990

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The Undergraduate Curriculum Committee of the School of Engineering Science has approved on April 17, 90 the following calender changes. We are now seeking the approval of the FAS-UCC.

Under Computer Engineering Option, Semester Seven (pg. 58)

CMPT 401-3 Operating Systems II  
to be changed to  
CMPT 300-3 Introduction to Operating Systems

**Rationale** Starting 1989, the contents of the former CMPT 401 will be taught in CMPT 300. This change was not noticed by the last year ENSC-UCC.

distributed: 03-16-89

old CMPT 401 OLD VERSION?  
SCHOOL OF COMPUTING SCIENCE

CMPT 401-3 Operating Systems II

Summer 1989

Instructor: Tiko Kameda

1. Introduction  
Batch, interactive and real time processing, multiprogramming and multiprocessing, virtual architectures.
2. Operating System Services  
Types of services, linking and loading
3. Process Synchronization  
Precedence constraints, fork-join primitives, critical sections, semaphores, monitors, producer-consumer problem, readers-writers problem, message passing.
4. Multiprogramming  
Process descriptor, process management, resource descriptor, resource management, OS nucleus, job and process scheduling, priorities.
5. Memory Management  
Contiguous allocation (first-fit and best-fit), paging, FIFO and LRU replacement policies, segmentation, sharing.
6. Deadlock Problems  
Detection, prevention, recovery.
7. Protection  
Mechanisms and policies, access matrix.

PREQUISITES:

CMPT 201, 205, and 390 (each with a minimum grade of C) || Calendar indicates CMPT 300 & 390

TEXTBOOK: J. Peterson and A. Silberschatz, *Operating System Concepts: Alternate Edition*, Addison Wesley, 1988.

Projects: Will involve some programming under UNIX.

MARK DISTRIBUTION:

Final 45%, Midterm 20%, and Projects/Assignments 35%.

*new*

**CMPT300-3 Introduction to Operating Systems**

**Instructor: Stella Atkins**

**Spring 1990**

This course aims to give the student an understanding of what a modern operating system is and the services it provides. It also discusses some basic issues in operating systems and provides solutions. Topics include multiprogramming, process management, memory management, and file systems.

**Prerequisites:** CMPT201, CMPT205

- (1) **Introduction (1 wk.)**  
History of operating systems, Batch, interactive and real time processing, multiprogramming and multiprocessing, review of hardware architectures
- (2) **Operating System Services (1 wk.)**  
Command language user's view, System call user's view, relocation, loading, linking, input/output processing
- (3) **Process Synchronization (3 wks.)**  
Processes, critical section, semaphores, producer-consumer problem, monitors, message-passing, deadlock.
- (4) **Multiprogramming (1.5 wks.)**  
Process control block, process status, state transitions, OS nucleus, process management, resource descriptor, resource management, job and process scheduling, priorities.
- (5) **Memory Management (2 wks.)**  
Contiguous allocation, first-fit and best-fit algorithms, paging, FIFO and LRU replacement policies,
- (6) **File Systems (1.5 wks.)**  
Logical file operations, access methods, allocation methods, directory systems, physical file systems.
- (7) **Case Studies (2 wks.)**  
Unix, MS DOS, VMS

**Course Textbook:**

- (1) L. Bic and A.C. Shaw, "The Logical Design of Operating Systems," 2nd Edition, Prentice-Hall, 1988.

**References**

- (1) A. Tanenbaum, "Operating Systems: Design and Implementation," Prentice-Hall, 1987.
- (2) J. Peterson and A. Silberschatz, "Operating System Concepts", Alternate Edition, Addison-Wesley, 1988.
- (3) N. Horspool, "C Programming in the Berkeley UNIX Environment", Prentice-Hall, 1986.
- (4) UNIX for Beginners, in UNIX Manual.

**Mark Distribution:**

Final 30%, Midterm 25%, Projects/Assignments 45%.

SCHOOL OF ENGINEERING SCIENCE  
SIMON FRASER UNIVERSITY

M E M O

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To: Bob Hadley, Chairman  
Undergrad Program, Computing Science Dept.

From: Paul Ho, Chairman *PH*  
Undergrad Program, Engineering Science

Date: April 3, 1990

Subject: CMPT 300 and CMPT 401

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By comparing the 1988-89 and the 1989-90 calendars with the attached material, it came to my understanding that the new CMPT 300 is equivalent to the old CMPT 401 and the current CMPT 401 is now a more advanced course in Operating Systems. Unfortunately, these changes to your curriculum were not observed by our previous Chairman of the Undergrad Committee, and we are still requesting students in our computer engineering option to take CMPT 401.

If you can confirm the curriculum changes I mention above, we will make a change to our curriculum, making CMPT 300 instead of CMPT 401 a required course for our computer engineering option.

Paul,  
Yes, your understanding of the change is correct. CMPT 300 is the course your students should take first. Whether you also want them to take CMPT 401 is a question that your UCC may want to consider, I suppose.  
Bob

**School of Kinesiology  
Summary of Curriculum Revisions**

SCUS Reference: SCUS 90-2

SCAP Reference: SCAP 90-23

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1. Proposed New Course - KIN 431-3
2. Proposed Description Changes to Major Program
3. Proposed Description Changes to Honors Program

SENATE COMMITTEE ON UNDERGRADUATE STUDIES

NEW COURSE PROPOSAL FORM

1. Calendar Information

Department: Kinesiology

Abbreviation Code: KIN Course Number: 431

Credit Hours: 3 Vector: (3-1-0)

Title of Course: Environmental Carcinogenesis

Calendar Description of Course:

An introduction to core concepts in the field of environmental carcinogenesis. Emphasis will be on the complex interactions of lifestyle factors, carcinogen exposure, genetic susceptibility and dietary habits as determinants of cancer risk. Classwork will include discussions of new techniques to monitor exposure to environmental carcinogens and of regulatory aspects of governmental agencies towards carcinogenic agents, as well as approaches being used by such agencies in risk assessment.

Prerequisites (or special instructions):

At least 90 semester hours of credit.

What course (courses), if any, is being dropped from the calendar if this course is approved:

None

2. Scheduling

How frequently will the course be offered? 1 time per year.

Semester in which the course will first be offered? Course has been offered successfully on two previous occasions (see attached)  
Which of your present faculty would be available to make the proposed offering possible?

Dr. M.P. Rosin

3. Objectives of the Course

To provide the student with a basic understanding of the biological changes occurring in a tissue during the development of cancer at a molecular, a cellular and a histological level. The student will be introduced to current literature on factors interacting to produce such cancerous changes. In addition, the student will learn how to critically evaluate articles in the area of carcinogenesis in newspapers, magazines

4. Budgetary and Space Requirements (for information only) and scientific journals.

What additional resources will be required in the following areas:

Faculty -

Staff - 1 TA for tutorial

Library - Reference books and reprints will be put on short-term loan as in previous years

Audio Visual - Overhead projector, occasional use of slide projector

Space - Classroom only

Equipment - None

5. Approval

Date: 17 April 90

9/7/90

Nov. 2/90

Department Chairman

Dean

Chairman, SCUS

ENVIRONMENTAL CARCINOGENESIS

Dr. M.P. Rosin  
Office: K9638

This class has been taught as "K420-3, Selected Topics in Kinesiology I" on two previous occasions: in 88-1 (enrollment 32 students) and in 89-2 (enrollment 39 students).

TEXT (required):

Tannock, I.F. and Hill, R.P. (1987) "The Basic Science of Oncology". Pergamon Press

GRADE:

Assignment 1	20%
Assignment 2	15%
Mid-term	25%
Final	40%

TOPICS COVERED:

A multi-factorial approach to cancer studies  
Epidemiological concepts  
Clinical and histological classification and staging of cancer  
Cancer as a multi-stage phenomena  
Initiation events  
Chemical classification of carcinogens/ mechanism of activation  
Oncogenes: possible genotoxic targets for alterations involved in production of a pre-malignant cell  
Activation of oncogenes  
DNA repair mechanisms in humans  
Identification of tumor promoters in humans  
Tumor promoters, protein kinases, growth factors, and gene expression  
Chromosomal changes and tumor development  
Genetic predisposition to cancer  
Occupational factors as contributors to cancer risk  
Viral infections: are they risk factors for specific types of cancer?  
Dietary factors associated with increased cancer risk  
Antimutagens, anticarcinogens in the diet  
Monitoring the environment for genotoxic agents: short-term assays  
The relevance of animal studies as markers for human risk: risk analysis  
New markers for quantifying carcinogen exposure and cancer risk in humans  
Designing epidemiological studies to identify risk factors  
Regulatory processes in Canada

## EXAMPLES OF CLASS ASSIGNMENTS

### Assignment 1

Chose a recent controversial article on carcinogenesis in a non-scientific journal or newspaper. The article must have been published after Dec.1, 1989. Write a scientific critique on this article, well-referenced from scientific journals. The critique must encompass not more than 10 typed pages, double-spaced. This page limitation does not include the list of references, which must be appended to this critique in complete form (scientific journal format).

Deadline for choice of article for this assignment is June 15. The article must be shown to the tutor and its' choice approved by this date. The article itself is due, in the tutor's hands, by 2 P.M. July 6. No excuse for a late paper will be accepted.

This assignment is worth 20% of the final grade for this class.

### Assignment 2

This assignment is to be performed as a group project. Each student will be randomly assigned to a group. The group will choose a topic in the area of environmental carcinogenesis, research it thoroughly, and present their findings orally to the class.

The objectives of this assignment are 1) to encourage group interaction in debating controversial areas and 2) to develop presentation skills. The assignment will be graded on the extent to which the topic was well-researched by the group, the integration of information, and the presentation. Students should strive to make the presentation clear, concise, and interesting.

Examples of topics used in previous years are:

- Pesticides in food
- Radon gas
- An overview of treatment procedures used against cancer
- Sun parlors - do they pose a cancer risk
- Alcohol - a co-carcinogen?
- Chernobyl

This assignment represents 15% of the final grade.

PROPOSED PROGRAM DESCRIPTION CHANGES: SCHOOL OF KINESIOLOGY

a) Changes to Major Program:

*The proposed regulations UNDERLINED below are to be inserted as the 1st paragraph under the heading "Major Program":*

**Major Program**

At the completion of 15-30 credit hours but prior to the completion of the 60th credit hour, students are encouraged to seek approval for entry to a major in Kinesiology. All courses listed as required for the major must be completed at a grade of C- or higher.

b) Changes to Honors Program:

*The proposed requirements UNDERLINED below are to be inserted after the 1st sentence under the heading "Honors Program":*

**Honors Program**

An honors program (requiring 132 semester hours for graduation) is available to students toward the end of their fourth level. Of these 132 credit hours for graduation, 72 credits must be upper levels (with a minimum of 54 in Kinesiology).

SIMON FRASER UNIVERSITY

M E M O R A N D U M

\*\*\*\*\*

TO: Dr. Parveen Bawa  
Faculty of Applied  
Sciences  
SUBJECT: New Course Proposal:  
Kinesiology

FROM: Sharon Thomas, Head,  
Collections Management  
Office  
DATE: September 18, 1990

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Kinesiology 431 presented no problems for the Library as a special topics offering and should not cause any particular difficulties as a permanent course.

*Sharon Thomas*

ST/dab  
DAB391