

SIMON FRASER UNIVERSITY

MEMORANDUM

S.84-79

To Members of Senate

From Office of the Dean of Graduate Studies

Graduate Curriculum Changes, Master
Subject of Natural Resources Management

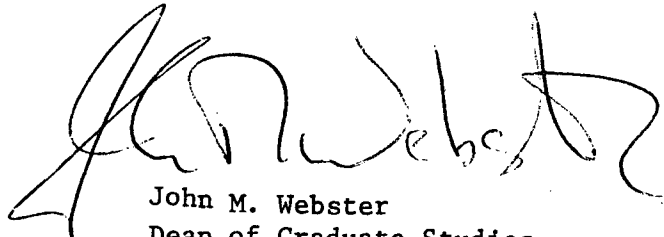
Date November 20, 1984

Action undertaken by the Executive Committee, Senate Graduate Studies Committee at its Meeting on November 19, 1984, gives rise to the following motions:

MOTION: "That Senate approve and recommend approval to the Board of Governors, as set forth in S.84-79, the addition of the following prerequisites to:

MRM 602-5 6 required MRM courses or permission of Instructor
MRM 612-5 MRM 611 or permission of Instructor
MRM 634-5 MRM 633 or permission of Instructor
MRM 646-5 MRM 601, 611, 621, 642 or permission of Instructor
MRM 651-5 Econ 200, MRM 621 or permission of Instructor"

MOTION: "That Senate approve and recommend approval to the Board of Governors, as set forth in S.84-79, the deletion of the course, MRM 647-5 Regional Planning"



John M. Webster
Dean of Graduate Studies.

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SIMON FRASER UNIVERSITY

EGS.84.110

MEMORANDUM

To..... MARIAN MCGINN

From..... ART LIESTMAN

..... Acting Chairman, GRIDS

Subject..... MRM changes

Date..... Nov 13, 1984

The Faculty of Interdisciplinary Studies Graduate Curriculum Committee has approved the proposed changes to the MRM program.

Would you please forward them to the Senate Graduate Studies Committee for approval.

Thank You,



These changes are to add prerequisites to the courses indicated.

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UPDATE (Please state editorial or SCUS/SENATE change)

**MASTER OF NATURAL RESOURCES
MANAGEMENT COURSES (MRM)**

MRM 601-5 Natural Resources Management I: Theory and Practice
Disciplinary and interdisciplinary theory and principles for natural resources analysis and planning.

MRM 602-5 Natural Resources Management II: Advanced Seminar
A review of selected policies, programs and problems related to natural resources management; review and evaluation of student research.

MRM 611-5 Population and Community Ecology
A review of population, community, and ecosystem ecology; implications of these areas for methods of resource management and environmental assessment.

MRM 612-5 Management Models of Biological Resources
Methods of constructing simulation models and their uses in resource management and decision making. Case studies of environmental modelling with emphasis on biological resources.

MRM 613-5 Current Topics in Fisheries Management
Current methods of evaluation of fisheries management problems, with emphasis on the biological aspects; case studies of world fisheries.

MRM 621-5 Economic of Natural Resources
Application of economic theory to natural resources management problems, with a view to assessing existing and alternative policies. Topics include benefit-cost analysis, economics of preservation, pricing of natural resource services, alternative pollution-control strategies, and fisheries management.

MRM 631-5 Hydrology and Geomorphology of Drainage Basins
The morphology and evolution of drainage basins; analysis of surface and subsurface flow in the drainage basin; stream-hillslope erosion and sedimentation.

MRM 632-5 Terrain Evaluation
The extensive classification of a landscape based on geology, geomorphology, soils, vegetation, historic and current land use, and the assessment of qualitative values as an aid to multiple land use management.

MRM 633-5 Introduction to Remote Sensing and Aerial Photographic Interpretation
The application of these techniques in the acquisition and display of selected resource data. Topics include air photo interpretation, multi-band photography, thermal infrared imagery, satellite imagery, ortho-

photography, topographic and thematic mapping, and computer cartography.

MRM 634-5 Slope Stability and Snow Avalanches in Resource Management
Impact of slope failure and snow avalanches in mountainous environments. Technical counter measures, zoning techniques, and the appraisal of acceptable risk are discussed within different geologic, climatic, and socioeconomic contexts.

MRM 641-5 Law and Resources
Advanced study of legal interventions related to resource planning and environmental control. Topics considered include planning law, law of pollution control, legal aspects of land management, property rights, resource taxation, and problem of managing common pool resources.

MRM 642-5 Regional Planning I
Theory and techniques of regional analysis; planning models and their application to key resource sectors.

MRM 643-5 Quantitative Analysis in Resource Management
The use of statistical techniques and mathematical models in resource management with special emphasis on experimentation, survey techniques, and statistical model construction.

MRM 644-5 Public Policy Analysis
A theoretical analysis of alternative policy approaches to major issues facing society. A practical analysis of the structures and processes surrounding major contemporary policy issues and an examination of the nature and substance of those policy issues. Resource management issues are emphasized.

MRM 645-5 Resource Development Communities
Examination of the impact of resource developments on communities in Canada. An overview of the social organization of resources-based communities and an analysis of the participatory process in decision making in resource management.

MRM 646-5 Environmental and Social Impact Assessment
Evaluation and application of current methodologies for social, economic, and biophysical impact assessment.

~~**MRM 647-5 Regional Planning II**~~ **DELETED**
~~A regional planning workshop involving the application of theories and techniques from the Regional Planning I course. The nature and typical~~

Prerequisites: 6 required MRM courses or permission of instructor.

Prerequisites: MRM 611 or permission of instructor.

Prerequisites: MRM 633 or permission of instructor.

Prerequisites: MRM 601, 611, 621, 642 or permission of instructor.

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UPDATE (Please state editorial or
SCUS/SENATE change)~~problems of rural areas, their people, their governmental processes,
and power.~~

DELETED

MRM 648-5 Tourism and Recreation Planning

Evaluation and application of tourism and recreation planning models; regional and international case studies of the biophysical, economic, and social impacts of tourism.

MRM 650-5 Energy Use and Policies

An historical perspective of energy use and future prospects for fossil fuels, hydroelectricity, geothermal, nuclear, solar, wind, and other sources; factors affecting energy demand.

MRM 651-5 Project Evaluation

The role, limitations and methods of benefit cost analysis. Different measurement techniques will be applied to the estimation of a range of benefits and costs. Market and nonmarket allocations will be considered.

MRM 660-5 Special Topics in Natural Resources Management

Special topics in areas not currently offered within the offerings of the MRM Program.

MRM 661-5 Special Topics in Resources Management

Special topics in areas not currently offered within the offerings of the MRM Program.

MRM 662-5 Special Topics in Resources Management

Special topics in areas not currently offered within the offerings of the MRM Program.

MRM 670-5 Introduction to Forestry

Principles of forestry practice, focusing on analysis of economic, social, and ecological impacts, with particular reference to British Columbia.

MRM 671-5 Forest Ecology

Principles of ecology of trees and forests applied to evaluation and management of forest ecosystems.

MRM 672-5 Silviculture

Principles and practice of silviculture; lecture and laboratory, with added emphasis on the state of the art in British Columbia.

MRM 699-10 Research Project

Research project dealing with a specific problem in resource administration or allocation, resulting in the preparation of a formal paper and oral defense.

Prerequisites: Econ 200, MRM 621 or
permission of instructor.