MEMORIAL UNIVERSITY OF NEWFOUNDLAND

Academic Council of the School of Graduate Studies Minutes, WebEx Meeting of May 17, 2021

PRESENT: A. Surprenant (Chair), A. Warren, A. Kim, A. Ghamartale, A. Dorward, I.

Percy, V. Kavanagh, S. Blosser, H. Liu, E. Pittman, A. Variyath, M.

Cheema, C. Bottaro, D. Moralejo, K. Bulmer, M. Burchell, N. Barykina, P. Coady, S. Ganz, T. Norvell, E. Haven, D. Farquharson, F. Khan, R. Joy, R.

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APOLOGIES: A. Lang, A.M. Sullivan, V. Campbell

1. MINUTES

It was moved by F. Khan, and seconded by E. Haven, that the minutes of the meeting held April 19, 2021 be approved as circulated. The motion

CARRIED

- 2. BUSINESS ARISING
- 3. CORRESPONDENCE
- 4. DEAN'S REPORT/REPORT OF SENATE
 - a. All items of business were approved at the regular meeting of Senate held May 11, 2021. Most of the conversation related to the Green Report.
- 5. REPORT OF THE GRADUATE STUDENTS' UNION
 - a. The new GSU Executive positions commenced May 1, 2021, and are familiarizing themselves with the positions.
 - b. Consideration was being given to holding an on-line Aldrich conference, but it was decided it might be better to leave this conference until next year.
 - c. The GSU is also dealing with the issues on the 2nd floor of Feild Hall.
- 6. a) Academic Council Executive
 - i. Engineering

The Faculty of Engineering is requesting approval of new course ENGI 9740, and a revision to section 15.12.3 of the University Calendar, to insert this new course under the 'Courses' listing.

It was moved by E. Pittman, and seconded by T. Norvell, that the proposed new course and revisions to the University Calendar be approved. The motion

CARRIED

Calendar Entry:

15.12 Courses

A selection of the following graduate courses will be offered to meet the requirements

of the students, as far as the resources of the Faculty will allow.

15.12.1 Required Course

9100 Engineering Graduate Seminar (1 credit hour)

15.12.3 Other Courses

- 9022 Marine Geotechnical Engineering
- 9052 Ice Properties and Mechanics
- 9080/99 Special Topics in Ocean Engineering (excluding 9096)
- 9096 Marine and Offshore Ice Engineering
- 9111 Well Testing
- 9112 Multiphase Flow
- 9116 Reliability Engineering
- 9117 Offshore Petroleum Geology and Technology
- 9119 Compact Process Equipment Design
- 9120 Advanced Natural Gas Engineering
- 9150-59 Special Topics in Oil and Gas Engineering
- 9200 Industrial Internship
- 9210 Advanced Engineering Materials
- 9390/94 Special Topics in Engineering Management
- 9440 Optimization Principles in Engineering
- 9495/99 Special Topics in Engineering Analysis (excluding 9496)
- 9540/49 Special Topics in Mechanics, Structures and Materials
- 9560 Applied Remote Sensing
- 9601 Environmental Pollution and Mitigation (cross-listed as Environmental Science 6004)
- 9603 Environmental Sampling and Pollutant Analysis (cross-listed as Environmental Science 6005)
- 9605 Water and Wastewater Treatment
- 9610/15 Special Topics in Environmental Engineering and Applied Science
- 9621 Soil Remediation Engineering
- 9622 Environmental Statistics
- 9625 Environmental Impacts of Offshore Oil and Gas Operations
- 9626 Environmental Management System
- 9628 Environmental Laboratory
- 9629 Environmental Policy and Regulations
- 9630 Pollution Prevention
- 9713 Stochastic Hydrology

• 9740 Advanced Geotechnical Engineering

- 9750 Advanced Topics in Analysis and Design of Reinforced Concrete (formerly 9701)
- 9755 Advanced Topics in Precast and Prestressed Concrete (formerly 9702)
- 9760/64 Special Topics in Geotechnical Engineering
- 9790 Subsea Pipeline Engineering
- 9791/99 Special Topics in Civil Engineering
- 9802/05 (excluding 9804) Special Topics in Computer Engineering
- 9804 Industrial Machine Vision
- 9806/09 Special Topics in Communications Engineering
- 9823 Computer Security
- 9825 Random Signals (formerly 9830)
- 9835 Advanced Electric Machines
- 9841 Thermal Power Plants

- 9843 Solar Engineering
- 9845 Energy Storage
- 9850/53 Special Topics in Power Systems and Controls
- 9862 Power System Protection
- 9863 Grid Integration of Energy Systems
- 9868 ASIC Design
- 9869 Advanced Concurrent Programming
- 9872 Digital Communications
- 9875 Embedded and Real-Time Systems Design
- 9877 Cryptography
- 9878 Wireless and Mobile Communications
- 9880/83 Special Topics in Computer Engineering
- 9884/87 Special Topics in Signal Processing
- 9888/91 Special Topics in Communications Engineering
- 9892/95 Special Topics in Power Systems and Controls
- 9896 Renewable Energy Systems
- 9897/99 Special Topics in Applied Electromagnetics
- 9910 Advanced Manufacturing
- 9920 Advanced Concepts in Mechanical Design
- 9925 Theory and Design of Mechanical Components and Structures
- 9971 Nonlinear and Random Vibrations Analysis
- 9975/99 (excluding 9977 and 9979) Special Topics in Mechanical Engineering
- 9979 Fluid Structure Interactions
- 9985 Advanced Heat Transfer
- 9987 Interfacial and Phase Change Phenomena

ii. Business Administration

The Faculty of Business Administration is requesting approval of revisions to 12.1, items 3 and 4 of the University Calendar, which removes the strict requirement of the GMAT/GRE, while continuing to consider waivers for any of the admission requirements by the Committee on course-based Master's program.

It was moved by E. Pittman, and seconded by A. Dorward, that the proposed revisions be approved. The motion

CARRIED

Calendar Entry:

12.1 Qualifications for Admission

3. In exceptional cases, an applicant who has not completed a Bachelor's degree, but who meets all other requirements, may be considered for admission. Preference will be given to those who present a high GMAT score, have a minimum of 10 years of full-time managerial and executive experience, and have completed several years of university studies. The Faculty may also take into account relevant professional credentials. An applicant who does not meet normal admission requirements may be required to complete, with a high level of achievement, certain undergraduate courses before being considered for admission.

4. 3. Notwithstanding the above, in exceptional cases, and only on the recommendation of the appropriate Faculty of Business Administration Faculty

<u>Council committee</u>, consideration may be given to an applicant who does not qualify for admission consideration in accordance with the entrance requirements outlined above. <u>It is noted that the GMAT/GRE requirement is never waived.</u>

iii. Medicine – Human Genetics

The Faculty of Medicine is requesting approval of revisions to sections 32.1.3.6 and 37.27.2.1, which renames Human Genetics to <u>Human Genetics & Genomics</u>, with new program definitions for the Master's and Ph.D. programs. The change better reflects the current focus of the program, state of the scientific field, and faculty expertise.

It was moved by E. Pittman, and seconded by A. Dorward, that the proposed revisions be approved. The motion

CARRIED

Calendar Entry:

32.1.3.6 Human Genetics & Genomics

The graduate program in Human Genetics & Genomics will enable students provides opportunities to pursue academic studies and research in a number of key areas of genetics-including Mendelian and complex traits with a variety of approaches including molecular genetics, genomics and other omics applications, animal models, bioinformatics, genetic epidemiology, and population genetics. molecular genetics, genomics, genetics of complex traits, genetic epidemiology, gene mapping, medical genetics, birth defects, and population genetics. Our research is interdisciplinary with unique opportunities to apply skills to work with regional genetic isolates, as well as other populations, to explore the genetic and non-genetic determinants of health and diseases of global significance. Faculty members from all three divisions of the Faculty of Medicine (BioMedical Sciences, Community Health and Humanities, and the Clinical Disciplines) participate in the program.

37.27.2.1 Program Areas

5. Human Genetics & Genomics

a) The graduate program in Human Genetics & Genomics will enable students provides opportunities to pursue academic studies and research in a number of key areas of genetics including Mendelian and complex traits with a variety of approaches including molecular genetics, genomics and other omics applications, animal models, bioinformatics, genetic epidemiology, and population genetics cancer genetics, genomics, genetics of complex traits, genetic epidemiology, gene mapping, medical genetics, birth defects, and population genetics. Our research is interdisciplinary with unique opportunities to apply skills to work with regional genetic isolates, as well as other populations, to explore the genetic and non-genetic determinants of health and diseases of global significance. Faculty members from all three divisions of the Faculty of Medicine (Biomedical Sciences, Community Health and Clinical Sciences) participate in the program.

iv. Medicine – MED 6285

The Faculty of Medicine is requesting approval of new course MED 6285, and a revision to section 32.2.3 of the University Calendar, to insert this new course under the 'Graduate Courses' listing.

It was moved by E. Pittman, and seconded by A. Dorward, that the proposed new course and calendar revision be approved. The motion

CARRIED

32.2.3 Graduate Courses

- 6030-6050 Special Topics
- 6070 Seminars in Physiological Instrumentation
- 6075 Human Physiology, Performance and Safety in Extreme Environments (HSPE)
- 6090-6101 Special Topics
- 6102 Critical Theory in Health and Society
- 6103-6119 Special Topics
- 6127 Immunology I
- 6128 Immunology II
- 613A/B Advanced Immunological Methods (same as the former 6130)
- 6131-6139 Special Topics
- 6140 Basic Cardiovascular and Renal Physiology
- 6141 Cardiovascular/Renal Techniques
- 6142 Selected Topics in Cardiovascular and Renal Physiology
- 6143 Cardiovascular Anatomy
- 6144 Current Concepts in Cardiovascular and Renal Pathophysiology
- 6150 Principles of Scholarly Writing for Rural Doctors (may be delivered outside the regular semester timeframe)
- 6151 Principles of Research for Rural Doctors (may be delivered outside the regular semester timeframe)
- 6180 Structure, Function and Pharmacology of Muscle
- 6190 General Pharmacology
- 6192 Pharmacology of Receptors and Receptor Effector Coupling Processes
- 6193 Advanced Topics in Neuroscience
- 6194 Advanced Topics in Physiology
- 6195 Neurobiology of Nervous System Diseases
- 6196 Systems Neuroscience
- 6197 Cellular Neuroscience
- 6198 Neuroanatomy for Graduate Students (accelerated format)
- 6199 Health Sciences: Writing and Grantsmanship
- 6200 Biostatistics I (credit may be obtained for only one of MED 6200 or MED 6262)
- 6220 Introduction to Community Health
- 6225 Health Inequities and the Social Determinants of Health
- 6250 Basic Clinical Epidemiology
- 6255 Clinical Research Design
- 6260 Applied Data Analysis for Clinical Epidemiology
- 6262 Biostatistics in Clinical Medicine (credit may be obtained for only one of MED 6200 or MED 6262)
- 6263 Conducting and Publishing Systematic Review and Meta-analysis
- 6265 Genetics and Clinical Epidemiology
- 6268 Patient Engagement in Health Research
- 6270 Epidemiology I
- 6274 Chronic Disease Epidemiology
- 6275 Epidemiology II

- 6276 Current Topics in Canada's Health Care System
- 6277 Issues in Northern, Rural and Remote Health in Canada
- 6278 Advanced Biostatistics for Health Research
- 6279 Quantitative Methods for Applied Health Research
- 6280 Community Health Research Methods
- 6281 Theory and Approaches to Medical Publication
- 6282 Canadian Health Care System
- 6284 Research and Evaluation Design and Methods
- 6285 Introduction to Applied Health Services Research
- 6286 Ethical Foundations of Applied Health Research
- 6288 Policy and Decision Making
- 6290 Determinants of Health: Healthy Public Policy
- 6292 Qualitative and Quantitative Methods for Health Services Research
- 6293 Knowledge Transfer and Research Uptake
- 6294 Advanced Qualitative Methods
- 6295 Advanced Quantitative Methods
- 6296 Residency
- 6297 Theories of Social Justice in Health
- 6340 Research Topics in Cancer I
- 6341 Research Topics in Cancer II
- 6342 Basic Principles of the Pathology of Cancer
- 6390 Human Population Genetics
- 6391 Selected Topics in Human Genetics
- 6392 Applied Human Genetics
- 6393 Human Molecular Genetics
- 6394 Cancer Genetics
- 6395 Genetic Epidemiology
- 6400 Research Seminars for M.Sc. Students I (one-credit hour)
- 6401 Research Seminars for M.Sc. Students II (one-credit hour)
- 6402 Research Seminars for M.Sc. Students III (one-credit hour)
- 6403 Research Seminars for M.Sc. Students IV (one-credit hour)
- 6410 Research Seminars for Ph.D. Students I (one-credit hour)
- 6411 Research Seminars for Ph.D. Students II (one-credit hour)
- 6412 Research Seminars for Ph.D. Students III (one-credit hour)
- 6413 Research Seminars for Ph.D. Students IV (one-credit hour)
- 6420 Medical Science/Social Responsibility in Health Care: Aspects of Medical History (same as History 6125)
- 6580 Molecular Biology of Cancer (prerequisites: Biology 4241, Biochemistry 4100 [or equivalent])
- 6590 Molecular Biology I (cross-listed as Biology 6590 and credit-restricted with Biochemistry 6590) prerequisites: Biology 4241 (or equivalent)
- 6591 Molecular Biology II (cross-listed as Biology 6591 and creditrestricted with the former Biochemistry 6591) prerequisites: Biology 4241 (or equivalent)
- 6592 Practicing and Teaching Professionalism
- 6900 Medical Geography I Introduction to Geographic Information Science and Spatial Analysis in Health
- 6901 Medical Geography II Geospatial Analysis and Modelling in Health prerequisite: 6900
- 6950 Simulation & Technology-based Learning in the Health Professions
- 6951 Assessment and Evaluation in Health Professions Education (cross-listed as Pharmacy 6951)
- 6953 Current Perspectives and Advances in Medical Education

v. Medicine – Master of Applied Health Services Research (MAHSR)

The Faculty of Medicine is requesting approval of revisions to section 32.1.3.1, which reduces the required course number from 7 to 5; and a change in the required course selection.

It was moved by E. Pittman, and seconded by A. Dorward, that the proposed revisions be approved. The motion

CARRIED

Calendar Entry:

32.1.3.1

Applied Health Services Research

The Applied Health Services Research program is jointly offered by the University of New Brunswick (UNB), Memorial University of Newfoundland (MUN), Saint Mary's University (SMU) and the University of Prince Edward Island (UPEI). Students will be educated in an interdisciplinary environment and will develop a substantive understanding of: the Canadian health system, the conduct of ethical research, critical appraisal, appropriateness of research design for particular policy questions and determinants of health models. They will also gain first hand exposure in a decision-making/policy environment and learn how to conduct research through completion of a thesis. Access to specific computer software and high-speed internet is required and will be the responsibility of each student.

1. Administration

- a. An Advisory Board, consisting of the Deans of Graduate Studies, the Principals from each site, plus student representation as well as health care decision makers and stakeholders from the Atlantic Region will oversee the academic program across the Universities and ensure program integrity.
- b. A Program Management Committee, consisting of the Principals from UNB, Memorial University of Newfoundland, <u>SMU</u> and UPEI will oversee the operation of the program.
- c. At Memorial University of Newfoundland, the program shall be administered through the Office of Research and Graduate Studies (Faculty of Medicine) by a Principal who shall be appointed by the Dean of Graduate Studies on the recommendation of the Dean, Faculty of Medicine.

2. Qualifications for Admission

- a. Admission is limited and competitive. To be considered for admission to the program, an applicant shall normally have a bachelor's degree with a minimum 75% average (or equivalent) from an institution recognized by the Senate. Normally, students should have completed an undergraduate course in statistics.
- b. Students are normally admitted to the Fall semester (September) The deadline for receipt of applications is March 1. Late applications will only be considered if admissions decisions have not yet been made.

3. **Program Requirements**

- a. All students will be required to successfully complete three required seven core courses, two elective courses a four-month residency placement and a thesis. In addition, students must participate in five conference one in-person workshops.
- b. Prior to submission of the thesis to the School of Graduate Studies for examination (see **General Regulation Theses and Reports**), students shall present an open seminar.
- c. The <u>Oo</u>utline of program of study <u>is as follows</u>:

Outline of Program of Study

Term(s)	Require <u>ments</u> Courses
• Semest er 1 <u>&2</u> • Fall	 Workshop 1-Program Orientation Theme: Orientation to first year MED 6290 (Determinants of Health)* MED 62825 (Introduction to Applied Health Services Research)* MED 62894 (Advanced Qualitative Methods) or MED 6295 (Advanced Quantitative Methods)* MED 6286-In-Person Workshop Workshop 2-Monthly Seminars Theme: Research Issues and Critical Appraisal MED 6282 (Canadian Health System) MED 6288 (Policy and Decision Making) MED 6293 (Knowledge Transfer and Research Uptake) MED 6108 (Special Topics)
• Semest er 2 3 • Winter	 MED 6288-Thesis MED 6290 Workshop 3 Theme: Policy and Decision Making
• Semest er 3 4 & 5 • Spring	 Residency Placement: All students are required to complete a 16-week residency placement. The residency placement is negotiated by the Principal in consultation with the student and governed by the agreements outlined in the Atlantic Regional Training Centre residency manual. Workshop 4 Theme: Orientation to second year Monthly Seminars Thesis

Semest er 4 6Fall	 MED 6293 Thesis MED 6294 or MED 6295 Workshop 5 Theme: Communication and Dissemination
• Semest er 5 & 6 • Winter & Spring	Thesis, including public presentation

8.	ANY	OTHER	BUSIN	VESS

9. NOTICE OF MOTION

Notice is being given that at the next regular meeting of Academic Council, a motion will be voted on for a revision to the Constitution of the Academic Council, School of Graduate Studies, which adds Arctic & Sub-Arctic Studies (Labrador Institute) to the listing of members, with 1 representative.

The notice of motion will be distributed to Council members after this Council meeting, which meets the 21 day notice to members prior to the next regular meeting.

10. ADJOURNMENT		The meeting adjourned at 4:20 p.m.		
Aimé	ee Surprenant, Chair	Echo Pittman, Secretary		