**MEMORIAL UNIVERSITY OF NEWFOUNDLAND**

**Academic Council of the School of Graduate Studies**

**Minutes, November 21, 2016**

PRESENT: Dr. D. Farquharson (Acting Chair), Dr. C. Dyck, Dr. A. Hall, Dr. P. Coady, Dr. B. Roebothan, Dr. D. Moralejo, Dr. J. Weber, Dr. J.C. Loredo-Osti, Dr. K. Tahlan, Dr. C. Walsh, Dr. M. Greene, Dr. S. Cadigan, Dr. E. Pittman, Dr. C. Reynolds, Dr. M. Cheema (via teleconference); Dr. D. Mullings (via teleconference)

APOLOGIES: Dr. A. Surprenant, Ms. S. Cleyle, Ms. V. Campbell, Dr. D. Foster, Dr. T. Brown, Dr. R. Joy, Ms. C. Walsh

The Chair welcomed Stephen Bornstein and Dr. Barbara Neis, who attended the meeting on behalf of The Board, regarding the proposed new Master in Occupational Health and Safety program (item 6.a.i), and Ms. Nicole Helwig (item 7.a).

1. MINUTES:

It was moved by Dr. Loredo-Osti, and seconded by Dr. Cheema, that the minutes of October 17, 2016, be approved. The motion

CARRIED

1. BUSINESS ARISING
2. CORRESPONDENCE
3. DEAN’S REPORT/REPORT OF SENATE
4. At its regular meeting of Senate, November 8, 2016, the revisions to the Constitution of the Academic Council, School of Graduate Studies, was passed. The new version will be uploaded following approval of the minutes at its December 13th meeting.
5. The Dean and Associate Dean Interim, attended the annual meeting of the Canadian Associate of Graduate Studies, held November 2-4, 2016 in Toronto.
6. The SGS Holiday function will be held Wednesday, December 14, 2016 from 3-5:00 pm in Room IIC 2014, Bruneau Centre. Invitations will be sent out in the very near future.
7. REPORT OF THE GRADUATE STUDENTS’ UNION

The GSU did not have any business to present at this meeting.

1. STANDING COMMITTEES
2. Academic Council Executive
3. Proposed New Program: Master in Occupational Health and Safety

It was moved by Dr. Coady, and seconded by Dr. Loredo-Osti, to approve in principle the proposed new graduate program, to permit an external review.

Discussion:

It was noted that it was good to see this proposed new program moving forward.

On the call for question, the motion to approve this proposal in principle to permit an external review

CARRIED

1. Medicine – Calendar Revisions

It was moved by Dr. Coady, and seconded by Dr. Roebothan, that the proposed revisions to section 23.2.1, to delete core course 6724, and replace with 6726, be approved. The motion

CARRIED

**23.2.1 Population and Public Health**

1. Minimum requirements for the M.P.H. degree in Population and Public Health will include the successful completion of 42 credit hours as follows:
   1. Eight core courses: Biostatistics I (MED 6200), Epidemiology I (MED 6270), Policy and Decision Making (MED 6288), Disease and Injury Prevention (MED 6721), Environmental Health (MED 6722), Health Promotion (MED 6723), ~~Communicable Disease Prevention and Control (MED 6724), and~~ Public Health Leadership and Management (MED 6725), and MED 6726 Program Development in Public Health.
   2. Six additional credit hours in elective courses chosen from the [**Courses**](http://www.mun.ca/regoff/calendar/sectionNo=GRAD-4816) listing below, or other courses as approved by the M.P.H. program coordinator.
   3. The Public Health Seminar Series courses (MED 6700 - 6701).
   4. Either, the Public Health Practicum (MED 6710) or the Public Health Capstone Research Project (MED 6711) as determined by the Graduate Program Committee depending on the professional background and experience of the candidate.

The Public Health Practicum is a full-time practice experience conducted in a work setting and following the guidelines set forth by the Public Health Agency of Canada (PHAC) at [www.phac-aspc.gc.ca/index-eng.php](http://www.phac-aspc.gc.ca/index-eng.php).

All course work must be completed prior to the initiation of either the Public Health Practicum or the Public Health Capstone Research Project.

**Table 1 Master of Public Health Recommended Course Sequence for Full-Time Students in the Population and Public Health Specialization**

|  |  |
| --- | --- |
| **Semester** | **Courses** |
| **Fall** | * MED 6270 Epidemiology I * MED 6288 Policy and Decision Making * MED 6700 Public Health Seminar Series I * ~~MED 6724 Communicable Disease Prevention and Control~~ * MED 6725 Public Health Leadership and Management * MED 6726 Program Development in Public Health * MED Elective Course |
| **Winter** | * MED 6200 Biostatistics I * MED 6701 Public Health Seminar Series II * MED 6721 Disease and Injury Prevention * MED 6722 Environmental Health * MED 6723 Health Promotion * MED Elective Course |
| **Spring** | * MED 6710 Public Health Practicum, or * MED 6711 Public Health Capstone Project |

1. Education – Calendar Revisions

It was moved by Dr. Coady, and seconded by Dr. Loredo-Osti, that the proposed revisions to section 32.9.3, which requires PhD students to complete two additional courses, be approved. The motion

CARRIED

**32.9 Education**

[www.mun.ca/educ](https://mail.wds.mun.ca/owa/redir.aspx?C=RpP1j3hIN0KTqjouWskPGpQHcAaSz9MItjuD3jvF6-_1bwRBzkCqcIMn2TgRU-pUa_n-Zcc0_5A.&URL=http%3a%2f%2fwww.mun.ca%2feduc)

<http://www.mun.ca/regoff/calendar/sectionNo=GRAD-0376>

**32.9.3 Program of Study**

1.    Courses

Students are required to successfully complete ~~two~~ **four** courses on the doctoral program.

1. Education 701A/B - Doctoral Seminar in Education: Area of Specialization

Education 702A/B - Advanced Educational Research

Students will normally register for the 'A' portion of the above-noted courses in the relevant Fall semester of their program of study and the corresponding 'B' portion of the course in the following Winter semester. A grade of NC (No Grade Expected) will be assigned to the 'A' portion of each of these courses.

b.   ~~Based on a consideration of educational background and research interest, students may be required to complete (or have completed at the masters level) as many as two (2) additional courses in research related to their program focus and specialty.~~

b. **Students will also be required to complete two (2) available graduate courses related to their program focus and specialty, based on the advice of the student’s supervisory committee.**

c. Normally, no more than four courses may be undertaken on a candidate's program.

d.    Education 7003-30 - Special Topics (offered as required)

1. Nursing – Calendar Revisions

It was moved by Dr. Coady, and seconded by Dr. Moralejo, that the proposed revisions to section 20.4.2 (new item 4), and section 20.4.3 (new item 5) be approved. The proposed revisions clarify the requirement for clinical practice hours for the Nurse Practitioner Option and the Post Master’s Nurse Practitioner Graduate Diploma. The revisions also incorporate the removal of the prerequisite or co requisites: 6012, for existing course 6010, and minor adjustments under the Courses section, 20.6.

**20.4.2 Nurse Practitioner Option**

Add new item 4 as follows:

4. Students must complete the required clinical hours per course in order to progress in the program and they must complete the required clinical hours for each life stage (for example, children, pregnancy, older adult) by the end of 690X in order to complete the Nurse Practitioner Option.

* + 1. **Post Master's Nurse Practitioner Graduate Diploma**

Add new item 5 as follows:

5. Students must complete the required clinical hours per course in order to progress in the program and they must complete the required clinical hours for each life stage (for example, children, pregnancy, older adult) by the end of 690X in order to complete the Nurse Practitioner Option.

**20.6 Courses**

A selection of the following graduate courses will be offered to meet the requirements of candidates as far as the resources of the School of Nursing will allow.

* 6010 Research in Nursing: Quantitative Methods (3 credit hours) **(*prerequisite or co-requisite:***

***6012)***

* 6011 Philosophical and Theoretical Foundations of Nursing
* 6012 Statistics for Advanced Nursing Practice
* 6020 Program Development in Nursing
* 6031 Education in Nursing
* 6100 Research in Nursing: Qualitative Methods *(pre or co-requisite: 6011)*
* 6221 Population-Based Nursing *(equivalent to 6220 and 6230)*
* 6240 Nursing Individuals and Families Through Life Transitions *(equivalent to 6200 and 6210)*
* 6250 Foundations for Advanced Nursing Practice (*This course is a prerequisite for all other*

*courses for students in the practicum option though may be taken as a co-requisite in the first*

*term of the program)*

* 6251 Writing Skills for Nurse Practitioners (1 credit hour) *(This course is a prerequisite for all*

*other courses for students in the MN-NP option though may be taken as a co-requisite in the first*

*term of the program)*

* 6310-6350 Special Topics in Nursing
* 6501-6510 Individual Readings and Research in Special Areas
* 6660 MN Practicum 1 *(prerequisites: All required courses including 6020 or 6031, and 6240/****6721***

***6221*** *or 6200/6210 or 6220/6230)*

* 6661 MN Practicum 2 *(prerequisite: 6660 MN Practicum 1)*
* 6703 Advanced Health Assessment and Clinical Practicum 1 (4 credit hours)
* 6704 Applied Pathophysiology and Clinical Practicum 2 (4 credit hours) (*prerequisite: 6703)*
* 6705 Pharmacotherapy and Therapeutics (*prerequisite: 6704)*
* 6706 Nurse Practitioner Roles and Practice Issues
* 6800 Adult Advanced Clinical Decision Making 3 (4 credit hours), (or the former 6800 Adult

Advanced Clinical Decision Making (4 credit hours)) *(prerequisite: 6705)*

* 6802 Family/All Ages Clinical Decision Making 3 (4 credit hours), (or the former 6802 Family/All

Ages Clinical Decision Making (4 credit hours)) One of: 6803 to 6809 Nursing **Specialty** Option

Courses (4 credit hours) *(prerequisite: 6705)*

* 690X Advanced Clinical Practicum 4 (*The integrated practice component will normally consist of a*

*minimum of 400 hours of preceptored specialty clinical practice and biweekly seminars)* (12 credit

hours), (or the former 690X Advanced Clinical Practicum 2 (*The integrated practice component*

*will normally consist of a minimum of 400 hours of preceptored* ***specialty*** *clinical practice and*

*biweekly seminars)* (12 credit hours) (*prerequisite: 6800 or 6802)*

1. MER Calendar Revisions

It was moved by Dr. Coady and seconded by Dr. Hall that the proposed revisions to sections 12.5 and 12.7 which revises the schedule of courses, rearranges the eligible elective courses and core courses which increases the number of required courses from 10 to 11, and decreases the number elective courses from 2 to 1, and revises the course descriptions for existing courses EMRE 6010 and 6020, be approved. The motion

CARRIED

12.5. Program of Study

1. The M.E.R. program consists of 36 credit hours of course work as specified in [**Table 1**](http://www.mun.ca/regoff/calendar/sectionNo=GRAD-1501#GRAD-0147). These include 33~~0~~ credit hours of compulsory courses and ~~3~~6 credit hours of an elective course. The compulsory courses are comprised of 21 credit hours of core courses specified in [**Table 2**](http://www.mun.ca/regoff/calendar/sectionNo=GRAD-1501#GRAD-0151) and 9 credit hours for a research seminar.
2. The compulsory core courses introduce students to the three main areas of study in the program: labour-management relations; human resources management; and labour market and social policy analysis.
3. The e~~E~~lective allows students to specialize in one ~~or~~ more of the three main areas of study. The e~~E~~lective must be chosen from the list of approved electives specified in [**Table 3**](http://www.mun.ca/regoff/calendar/sectionNo=GRAD-1501#GRAD-0154). Other courses may be approved and added to [**Table 3**](http://www.mun.ca/regoff/calendar/sectionNo=GRAD-1501#GRAD-0154) from time to time by the GCER.
4. Candidates are responsible for fulfilling all prerequisites and may require special permission from the Department offering an elective to enrol in the course.
5. The Research Seminar in Employment Relations provides students with both quantitative and qualitative research skills and requires the identification of a research problem, the development and execution of a methodology appropriate to addressing the problem, analysis of results, and completion of final report. The Research Seminar involves 3 credit hours of course work in each of the Fall, Winter, and Spring semesters.
6. The prerequisites for EMRE 6030 and EMRE 6040 are EMRE 6010 and EMRE 6020. In addition, students will normally complete six M.E.R. courses before registering for EMRE 6030 or EMRE 6040. There are no prerequisites for EMRE 6010 and EMRE 6020 but students are advised to take these courses late in their programs, just before taking EMRE 6030 or EMRE 6040. For the core courses, the prerequisite for BUS1 9329 is BUS1 8210. For the remaining core courses, there are no prerequisites. For the elective course, Departmental regulations that specify particular courses as prerequisites will apply but the Departmental requirement to have completed a number of courses will not apply.
7. A waiver of a core course may be granted by the Dean of Graduate Studies on the recommendation of the Director if the candidate can demonstrate that the material in the course has been substantially covered by other courses taken at this or another recognized university. In such cases, the course must be replaced by another course offered by Memorial University of Newfoundland in consultation with the candidate, and approved by the Director. The maximum number of core courses that can be waived is 3 and all replacement courses must be taken during the candidate's period of enrollment in the program.
8. Each student's program of study must be approved by the Director. The Director reserves the right to restrict candidates from taking particular courses if it is deemed that those courses do not add sufficient value beyond courses that the candidate has completed at the undergraduate level.

**12.7 Courses**

The schedule of courses for the M.E.R. program is normally as follows:

**Table 1 Master of Employment Relations Schedule of Courses**

|  |  |
| --- | --- |
| * **Term I (Fall)** * Four core courses from [**Table 2**](http://www.mun.ca/regoff/calendar/sectionNo=GRAD-1501#GRAD-0151) * Employment Relations 6010 Research Seminar in Employment Relations 1: Quantitative Methods * **Term III (Spring)** * Employment Relations 6040 Research Seminar in Employment Relations III: Applied Research Project * One elective from [**Table 3**](http://www.mun.ca/regoff/calendar/sectionNo=GRAD-1501#GRAD-0154) | * **Term II (Winter)** * ~~Three~~ Four core courses from [**Table 2**](http://www.mun.ca/regoff/calendar/sectionNo=GRAD-1501#GRAD-0151) * **~~One elective from Table 3~~** * Employment Relations 6020 Research Seminar in Employment Relations II: Qualitative Methods |

**Table 2 Master of Employment Relations Core Courses**

|  |  |
| --- | --- |
| * **Business** * Business 8204 Human Resource Management * Business 8210 Labour Relations * Business 9329 Labour Law * **Employment Relations** * Employment Relations 6050 Interpersonal skills in Employment Relations | * **Arts** * Economics 6030 Labour Market Economics * History 6075 Advanced Studies in Labour and Working-Class History * ~~One of:~~ Sociology 6360 Sociology of Work~~, Sociology 6090 Special Area in Sociology, or Psychology 6402 Group Processes~~ * *One of Sociology 6090 Special Area in Sociology or Business 9013 Collective Agreement Administration and Arbitration* |

\***Note**: *If students elect to take both SOCI 6030 and BUSI 9013, one will be counted as an elective and the other as required.*

**Table 3 Master of Employment Relations Elective Courses**

|  |  |
| --- | --- |
|  | |
| * **Labour-Management Relations** * Business 9013 Collective Agreement Administration and Arbitration\* * Business 9030 International and Comparative Industrial Relations * Employment Relations 6030: Independent Research Project * **Human Resource Management** * Business 9020 International Human Resource Management Business * Business 9043 Team Building and Diversity * ~~Business 9311 Seminar in Human Resource Management~~ * ~~Business 9314 Business and Taxation Law~~ * Business 9317 Current Topics in Management * Business 9324 Gender, Work and Organizations * Business 9328 Change Management * Education 6203 Leadership: Theory and Practice * Education 6600 Learning and Motivation * Education 6706 Career Education and Career Counselling * Education 6802 Adult Learning and   Development   * Education 6805 Advanced Human Resource Communications * Employment Relations 6030 Independent Research Project * Psychology 6401 Attitudes and Social Cognition * Psychology 6402 Group Processes | * **Labour Market and Social Policy Analysis** * Business 8108 Economics for Business * Economics 6000 Advanced Micro-economic Theory * Economics 6001 Advanced Macro-economic Theory * Education 6410 Philosophical Issues in Educational Policy and Leadership * Employment Relations 6030: Independent Research Project * Gender Studies 6000 Feminist Theory * History 6000 Advanced Studies in Newfoundland History * History 6010 Advanced Studies in Canadian History * History 6070 Advanced Studies in Social History * History 6090 Advanced Studies in Women’s History * History 6120 Advanced Studies in Economic and Business History * Political Science 6700 Canadian Politics * Political Science 6740 Public Administration * Political Science 6790 Public Policy * *Sociology 6090 Special Area in Sociology*\* * Sociology 6320 Gender and Society * Sociology 6370 Feminist Theory and Methods |

1. Biochemistry Calendar Revisions

It was moved by Dr. Coady, and seconded by Dr. Loredo-Osti, that the proposed revisions to sections 25.6 and 32.3 for two new courses 6000 (special topics course to a regular course), and 6999 (attendance and presentation expectations in the departmental seminar program is now being formalized into a graduate course in which all students must enroll in), be approved. The motion

CARRIED

**25.6.1 Program of Study**

The Degree of Master of Science is offered in Biochemistry or Food Science to full-time and part-time students.

The admission requirements for the graduate programs in Biochemistry and Food Science are as given under [**Regulations Governing Master of Science Degrees**](http://www.mun.ca/regoff/calendar/sectionNo=GRAD-0224). All students must enrol in Biochemistry 6999 (Seminars in Biochemistry and Food Science). Depending on the background and/or area of specialization, a candidate's program may include additional courses taken for credit in Biochemistry, Food Science, or related subjects.

The program of a candidate for the M.Sc. Degree shall be the responsibility of the supervisory committee, composed of the Supervisor and at least two other faculty members recommended with the concurrence of the Supervisor by the Head of the Department or delegate.

It is the responsibility of the student to arrange regular meetings with his or her supervisory committee. A semi-annual report, prepared by the Supervisor and signed by all members of the supervisory committee, is required to be given to the Head of the Department or delegate.

~~All graduate students are expected to attend and participate in the Departmental seminars.~~

~~A student completing an M.Sc. Degree will be required to present a seminar on his/her research area. The seminar will normally take place during the last semester of the student's program~~.

~~Any deficiencies noted during the seminar should be carefully considered by the student and the supervisory committee prior to submission of the thesis for final examination.~~

**25.6.2 Courses**

A series of advanced courses in the areas outlined below will be offered. Normally only one course will be offered per semester.

* 6000 Advanced Topics in Lipid and Lipoprotein Metabolism
* ~~6000~~ 6001-6009 Special Topics in Biochemistry
* 6010-6019 Special Topics in Nutrition and Metabolism
* 6020-6029 Special Topics in Food Science
* 6400 Control of Intermediary Metabolism
* 6460 Structural Biochemistry
* 6520 Nutritional Biochemistry
* 6530 Food Biochemistry
* 6590 Cellular, Molecular and Developmental Biology (*credit restricted with Biology 6590 and Medicine 6590)*
* 6630 Marine Biochemistry
* 6680 Processing and Quality of Foods
* 6999 Seminars in Biochemistry and Food Science

**32.3 Biochemistry**

**32.3.1 Program of Study**

1. The Degree of Doctor of Philosophy is offered in Biochemistry or Food Science to full-time and part-time students.
2. The admission requirements for the graduate programs in Biochemistry and Food Science are as given under [**General Regulations**](http://www.mun.ca/regoff/calendar/sectionNo=GRAD-0015). All students must enrol in Biochemistry 6999 (Seminars in Biochemistry and Food Science). Depending on the background and/or area of specialization, a candidate's program may include additional courses taken for credit in Biochemistry, Food Science or related subjects.
3. The program of a candidate for the Ph.D. Degree shall be the responsibility of the supervisory committee, composed of the Supervisor and at least two other faculty members recommended with the concurrence of the Supervisor by the Head.
4. It is the responsibility of the student to arrange regular meetings with his or her graduate supervisory committee. A semi-annual report, prepared by the Supervisor and signed by all members of the supervisory committee, is required to be given to the Head of the Department or delegate.
5. ~~All candidates for the Ph.D. Degree shall be required to attend and participate in Departmental seminars.~~
6. ~~A candidate for the Ph.D. will be required to present a seminar on his/her research area within 18 months of starting the program and again immediately prior to the submission of thesis.~~
7. 5. A candidate for the Ph.D. degree shall normally take the Comprehensive Examination within the first seven semesters of his or her program. The examination will have two components: the preparation of a grant proposal on a topic related to the student’s research specialization followed by an oral examination of the proposal. Failure of this examination will result in the termination of the candidate’s program.

**32.3.2 Courses**

A series of advanced courses in the areas outlined below will be offered. Normally only one course will be offered per semester.

* 6000 Advanced Topics in Lipid and Lipoprotein Metabolism
* ~~6000~~ 6001-6009 Special Topics in Biochemistry
* 6010-6019 Special Topics in Nutrition and Metabolism
* 6020-6029 Special Topics in Food Science
* 6400 Control of Intermediary Metabolism
* 6460 Structural Biochemistry
* 6520 Nutritional Biochemistry
* 6530 Food Biochemistry
* 6590 Cellular, Molecular and Developmental Biology (*credit restricted with Biology 6590 and Medicine 6590)*
* 6630 Marine Biochemistry
* 6680 Processing and Quality of Foods
* 6999 Seminars in Biochemistry and Food Science

6000 – Advanced Topics in Lipid and lipoprotein Metabolism

Lipd and Lipoprotein Metabolism is designed to provide current knowledge about advances and controversies in lipid and lipoprotein metabolism in the context of health and disease. Topics to be covered in the course include advanced knowledge about lipid and lipoprotein synthesis and regulation, reverse cholesterol transport, plus lipid and lipoprotein utilization to regulate cellular and physiological functions. The covered topics will be related to areas including reproductive biology, atherosclerosis, AIDS, Alzheimer’s, and cancer.

6999 – Seminars in Biochemistry and Food Science

This is a seminar course, in which a variety of topics related to biochemical sciences and food sciences will be presented by faculty, students, and visiting guest speakers. Students will both attend and prepare written reports on seminars attended, and will also present a seminar on their own research questions.

1. Computer Science Calendar Revisions

It was moved by Dr. Coady and seconded by Dr. Loredo-Osti, that the proposed revisions to sections 24.10.4 and 32.7.2, which includes a change in the course title for existing course 6907, and the insertion of a cross-listing for existing course 6933, be approved.

Discussion:

The unit will be contacted for clarification on the number of contact hours for both. It was agreed that should a change be necessary, it will be considered as a friendly amendment.

On the call for question, the motion

CARRIED

24.10.4 Courses

A selection of the following graduate courses will be offered to meet the requirements of candidates, as far as the resources of the Department will allow. Normally, students will be expected to complete their course work during the fall and winter semesters. Courses might not be offered in the spring semester.

601W Work Term

6758-6769 Special Topics in Computer Applications

6770-6790 Special Topics in Computer Science

690A/B Research Methods in Computer Science

6901 Applied Algorithms *(credit may be obtained for only one of 6901 and 6783)*

6902 Computational Complexity *(credit may be obtained for only one of 6902 and 6743)*

6903 Concurrent Computing

6904 Advanced Computer Architecture *(credit may be obtained for only one of 6904 and 6722)*

6905 Software Engineering *(credit may only be obtained for one of 6905 or 6713)*

6906 Numerical Methods *(credit may only be obtained for one of 6906 or 6731)*

6907 ~~Introduction to~~ Data Mining **Techniques and Methodologies** *(credit may be obtained for only one of 6907 and 6762)*

6908 Database Technology and Applications *(credit may be obtained for only one of 6908 and 6751)*

6909 Fundamentals of Computer Graphics *(credit may be obtained for only one of 6909 or 6752)*

6910 Services Computing, Semantic Web and Cloud Computing 6911 Bio-inspired Computing

6912 Autonomous Robotics *(credit may be obtained for only one of 6912 and 6778)*

6913 Bioinformatics

6914 3D Modelling and Rendering

6915 Machine Learning

6916 Security and Privacy

6918 Digital Image Processing *(credit may be obtained for only one of 6918 or 6756)*

6921 Syntax and Semantics of Programming Languages *(credit may be obtained for only one of 6921 or 6711)*

6922 Compiling Methods *(credit may be obtained for only one of 6922 and 6712)*

6924 Formal Grammars, Automata and Languages

6925 Advanced Operating Systems

6926 Performance Evaluation of Computer Systems ***(credit may obtained for only one of 6726 and 6926)***

6928 Knowledge-Based Systems *(credit may be obtained for only one of 6928 or 6755)*

6929 Advanced Computational Geometry *(credit may be obtained for only one of 6929 or 6745)*

6930 Theory of Databases *(credit may be obtained for only one of 6930 or 6742)*

6931 Matrix Computations and Applications *(credit may only be obtained for one of 6931 or 6732)* ***(cross-listed with CMSC 6910)***

6932 Matrix Computations in Control *(credit may only be obtained for one of 6932 or 6738)*

**6933 Nonlinear and Linear Optimization *(cross-listed with MATH 6203)***

6999 Master’s Project

32.7.2 Courses

A selection of the following graduate courses will be offered to meet the requirements of candidates, as far as the resources of the Department will allow.

6758-6769 Special Topics in Computer Applications

6770-6790 Special Topics in Computer Science

690A/B Research Methods in Computer Science

6901 Applied Algorithms *(credit may be obtained for only one of 6901 and 6783)*

6902 Computational Complexity *(credit may be obtained for only one of 6902 and 6743)*

6903 Concurrent Computing

6904 Advanced Computer Architecture *(credit may be obtained for only one of 6904 and 6722)*

6905 Software Engineering *(credit may only be obtained for one of 6905 or 6713)*

6906 Numerical Methods *(credit may only be obtained for one of 6906 or 6731)*

6907 ~~Introduction to~~ Data Mining **Techniques and Methodologies** *(credit may be obtained for only one of 6907 and 6762)*

6908 Database Technology and Applications *(credit may be obtained for only one of 6908 and 6751)*

6909 Fundamentals of Computer Graphics *(credit may be obtained for only one of 6909 or 6752)*

6910 Services Computing, Semantic Web and Cloud Computing

6911 Bio-inspired Computing

6912 Autonomous Robotics *(credit may be obtained for only one of 6912 and 6778)*

6913 Bioinformatics

6914 3D Modelling and Rendering

6915 Machine Learning

6916 Security and Privacy

6918 Digital Image Processing *(credit may be obtained for only one of 6918 or 6756)*

6921 Syntax and Semantics of Programming Languages *(credit may be obtained for only one of 6921 or 6711)*

6922 Compiling Methods *(credit may be obtained for only one of 6922 and 6712)*

6924 Formal Grammars, Automata and Languages

6925 Advanced Operating Systems

6926 Performance Evaluation of Computer Systems ***(credit may obtained for only one of 6726 and 6926)***

6928 Knowledge-Based Systems *(credit may be obtained for only one of 6928 or 6755)*

6929 Advanced Computational Geometry *(credit may be obtained for only one of 6929 or 6745)*

6930 Theory of Databases *(credit may be obtained for only one of 6930 or 6742)*

6931 Matrix Computations and Applications *(credit may only be obtained for one of 6931 or 6732)* ***(cross-listed with CMSC 6910)***

6932 Matrix Computations in Control *(credit may only be obtained for one of 6932 or 6738)*

**6933 Nonlinear and Linear Optimization *(cross-listed with MATH 6203)***

viii. Mathematics Calendar Revisions and New Course

It was moved by Dr. Coady and seconded by Dr. Loredo-Osti, that the proposed revisions to sections 25.18.3 and 32.25.4, and the new graduate course MATH 6202 be approved. The motion

CARRIED

**25.18.3 Courses**

A selection of the following graduate courses will be offered to meet the requirements of candidates, as far as the resources of the Department will allow:

**Mathematics**

6100 Dynamical Systems

6101Modern Perturbation Theory

6102 Mathematical Biology

6104 Infinite Dimensional Dynamical Systems

6110 Advanced General Relativity

6112-6119 Special Topics in Applied Mathematics

6120 Theoretical Fluid Dynamics

6121 Functional Differential Equations

6130 Introduction to General Relativity (credit restricted with former 6106)

6160 Partial Differential Equations (credit restricted with former 6109)

6201 Numerical Methods for Partial Differential Equations

**6202 Nonlinear and Linear Optimization (credit restricted with COMP 6933)**

6204 Iterative Methods in Numerical Linear Algebra

6205-6209 Special Topics in Numerical Analysis

6210 Numerical Solution of Differential Equations

6212 Numerical Methods for Initial Value Problems

6230 Differentiable Manifolds and Riemannian Geometry

6299 Masters Project

.**32.25.4 Courses**

A selection of the following graduate courses will be offered to meet the requirements of candidates, as far as the resources of the Department will allow:

**Mathematics**

6100 Dynamical Systems

6101 Modern Perturbation Theory

6102 Mathematical Biology

6104 Infinite Dimensional Dynamical Systems

6110 Advanced General Relativity

6112-6119 Special Topics in Applied Mathematics

6120 Theoretical Fluid Dynamics

6121 Functional Differential Equations

6130 Introduction to General Relativity (credit restricted with former 6106)

6160 Partial Differential Equations (credit restricted with former 6109)

6201 Numerical Methods for Partial Differential Equations

**6202 Nonlinear and Linear Optimization (credit restricted with COMP 6933)**

6204 Iterative Methods in Numerical Linear Algebra

62056-6209 Special Topics in Numerical Analysis

6210 Numerical Solution of Differential Equations

6212 Numerical Methods for Initial Value Problems

6230 Differentiable Manifolds and Riemannian Geometry

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MATH 6202

Many problems in mathematics, computational science, statistics and engineering, may be posed as an optimization problem. These problems are categorized based on the linearity or nonlinearity of the objective function and constraints and the nature of the decision variables. The numerical algorithms designed to solve these problems may be deterministic or stochastic, gradient-based or derivative free. This course is intended for graduate students in Mathematics, Computer Science, and other applied science and engineering disciplines where numerical optimization problems arise.

1. Psychology Calendar Revisions and New Course

It was moved by Dr. Coady and seconded by Dr. Loredo-Osti, that the proposed revisions to section 33.3 and new course 6670 be approved. The motion

CARRIED

**33.3 Program of Study**

Students are required to successfully complete at least 66 credit hours in regulation graduate courses. These include:

a. 9 credit hours in statistics and research design courses (6000, 600l, 6602);

b. ~~30~~ **33** credit hours in core courses (6611, 6612, 6613, 6620, 6623, 6630, 6631, 6632, 6633, 6650,**6670**); and

c. 27 credit hours in practicum courses (7010, 7020, 7021, 7030, 7031, 7032, 7033, 7034, 7035).

Students must also complete a year-long internship, pass a comprehensive exam and successfully complete a research thesis.

**33.3.1 Comprehensive Examination**

The Psy.D. comprehensive exam, consisting of a written and an oral component, shall be taken during the third year of the program. The exam is intended to demonstrate clinical application of the knowledge acquired through course work and practica. The comprehensive exam will be administered according to the guidelines prescribed in the University Calendar for Ph.D. comprehensive examinations.

**33.3.2 Thesis**

Students will complete a thesis that is applied in nature and relevant to the practice and science of clinical psychology and the communities it serves. The School of Graduate Studies General Regulations, Evaluation of Ph.D. and Psy.D. Theses concerning evaluation of Ph.D. theses will be followed.

**33.3.3 Predoctoral Internship**

All students will be required to complete a twelve-month, 1750 clock-hour predoctoral internship.

**33.4 Courses**

6000 Advanced Statistics

6001 Research Design

6602 Research Design in Clinical Psychology

6611 Ethics of Professional Practice

6612 Adult Psychopathology

6613 Child Psychopathology

6614 Selected Topics in Psychopathology

6620 Principles of Adult Assessment and Diagnosis

6621 Principles of Child Assessment and Diagnosis

6622 Selected Topics in Assessment and Diagnosis

6623 Child Psychopathology, Assessment and Diagnosis

6630 Principles of Intervention with Adults

6631 Principles of Intervention with Children

6632 Community Interventions

6633 Clinical Psychopharmacology

6634 Selected Topics in Intervention

6640 Consultation Processes

6650 Supervision

6660-6669 Special Topics in Clinical Psychology

**6670- Interprofessional Education (3-credit hours over six terms: Fall and Winter terms for Years 1, 2 and 3 )**

7010 Practicum in Ethics and Relationship Skills

7020 Practicum in Adult Assessment and Diagnosis

7022 Practicum in Child Assessment and Diagnosis

7030 Practicum in Assessment and Intervention I

7031 Practicum in Assessment and Intervention II

7032 Practicum in Community Intervention and Interprofessional Practice

7033 Practicum in Advanced Assessment and Intervention I

7034 Practicum in Advanced Assessment and Intervention II

7035 Practicum in Rural Intervention and Interprofessional Practice

7050 Practicum in Supervision I

7051 Practicum in Supervision II

PSYC 6670

6670 introduces students to key concepts and skills related collaborative practice in health and social care settings. Students will complete 11 interprofessional education (IPE) activities over three years (first year – 4: Second year – 5: third year – 2) with the first eight sessions focused on the process associated with collaborative practice skill development (Interprofessional Skills Training – IPST) and the last three sessions structured to be increasingly complex case-based interprofessional sessions. Students will be learning with, from, and about other students from medicine, nursing, pharmacy, human kinetics and recreation, police studies and social work throughout all IPE sessions. The IPE sessions are organized sequentially to build on knowledge and skills.

1. ANY OTHER BUSINESS
   * 1. Ms. Nicole Helwig, Manager, Centre for Social Enterprise, gave a short presentation on the Centre to members. This is a partnership of the Faculty of Business Administration and the School of Social Work. It is a new University-wide initiative, and its mandate is to generate knowledge about social entrepreneurship, particularly in the Newfoundland and Labrador context, support teaching and learning and serve as a catalyst to strengthen social enterprises and social entrepreneurship. It aims to be a platform to support creative linkages between academic disciplines to nurture innovation in social entrepreneurship.
2. NOTICE OF MOTION
3. ADJOURNMENT

The meeting adjourned 4:28 pm.

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Danine Farquharson, Acting Chair Peggy Coady, Secretary