

MEMORIAL UNIVERSITY OF NEWFOUNDLAND

Academic Council April 17, 2023 (via email)

Members of Academic Council were asked to review the following items of business, via email, for approval.

1. The Faculty of Nursing are requesting approval of revisions to section 39.6 of the University Calendar. The Faculty of Nursing are removing N6250 and N6013 as prerequisite courses to allow full time students to register for N6011 and N6221. They are also removing the line “Including 6020 or 6031, and 6240/6221 or 6200/6210 or 6220” as a prerequisite for N6660 to allow full-time students to register for N6660
2. The Faculty of Arts and Social Sciences are requesting approval for the addition a new graduate course to the University Calendar. The Faculty of Arts and Social Sciences are expanding their course offerings for the Master of Applied Literary Arts program. ALA 6116 will give students a grounding in methods of composing, recording, sound engineering, and promoting music.
3. The Faculty of Science are requesting approval for the addition of five new graduate courses to sections 15.2 and 15.4.1 to the University Calendar. The purpose of the cross-listing is to simplify course registration and tracking of all mandatory Master of Data Science courses using the DSCI codes.

It was moved by E. Pittman, and seconded by C. Walsh, that the proposed calendar changes be approved. The motion (22 yeas)

CARRIED

Calendar Entries:

39.6 Courses

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

- 6010 Research in Nursing: Quantitative Methods
- 6011 Philosophical and Theoretical Foundations of Nursing (*prerequisite: 6250*)
- 6012 Statistics for Advanced Nursing Practice
- 6013 Research Methods in Nursing (*prerequisite: 6250*)

- 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*) (*prerequisites: 6250, ~~6013~~ and 6011*)
- 6240 Nursing Individuals and Families Through Life Transitions (*equivalent to 6200 and 6210*) (*prerequisites: 6250 and 6011*)
- 6250 Writing 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)
- 6260 Knowledge Translation in Nursing (*prerequisites: 6250 and 6013*)
- 6270 Leading Change in Nursing (*prerequisites: 6250, 6011 and 6013*)
- 6310-6350 Special Topics in Nursing
- 6501-6510 Individual Readings and Research in Special Areas
- 6660 Practicum 1 (*prerequisites: All required courses including ~~6020 or 6031, and 6240/6221 or 6200/6210 or 6220/6230~~*)
- 6661 Practicum 2 (*prerequisite: 6660 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: 6703 and 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)) (*prerequisites: 6703, 6704, 6705 and 6706*)
- 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 Option Courses (4 credit hours) (*prerequisites: 6703, 6704, 6705 and 6706*)
- 690X Advanced Clinical Practicum 4 (*The integrated practice component will normally consist of a minimum of 400 hours of preceptored 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 clinical practice and biweekly seminars*) (12 credit hours) (*prerequisites: 6703, 6704, 6705, 6706, and 6800 or 6802*)

39.6 Courses

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

- 6010 Research in Nursing: Quantitative Methods
- 6011 Philosophical and Theoretical Foundations of Nursing
- 6012 Statistics for Advanced Nursing Practice
- 6013 Research Methods in Nursing (*prerequisite: 6250*)
- 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*) (*prerequisites: 6250, and 6011*)
- 6240 Nursing Individuals and Families Through Life Transitions (*equivalent to 6200 and 6210*) (*prerequisites: 6250 and 6011*)
- 6250 Writing 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)
- 6260 Knowledge Translation in Nursing (*prerequisites: 6250 and 6013*)
- 6270 Leading Change in Nursing (*prerequisites: 6250, 6011 and 6013*)
- 6310-6350 Special Topics in Nursing
- 6501-6510 Individual Readings and Research in Special Areas
- 6660 Practicum 1 (*prerequisites: All required courses*)
- 6661 Practicum 2 (*prerequisite: 6660 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: 6703 and 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)) (*prerequisites: 6703, 6704, 6705 and 6706*)
- 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 Option Courses (4 credit hours) (*prerequisites: 6703, 6704, 6705 and 6706*)

- 690X Advanced Clinical Practicum 4 (*The integrated practice component will normally consist of a minimum of 400 hours of preceptored 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 clinical practice and biweekly seminars*) (12 credit hours) (prerequisites: 6703, 6704, 6705, 6706, and 6800 or 6802)

CALENDAR CHANGES

XX.6 Courses

ALA 6100 **Arts Management_**

ALA 6101 **Literary Production_**

ALA 6102 **Literary Adaptations_**

ALA 6103 **Anthology Building_**

ALA 6104 **Children's Literature and Market Politics**

ALA 6105 **Fan Cultures and Fan Studies_**

ALA 6106 **Film in Theory, Film in Practice**

ALA 6107 **Documentary Film: Theory and Practice_**

ALA 6108 **Life Writing**

ALA 6109 **Literature and Industry_**

ALA 6110 **Literary Tourism**

ALA 6111 **Magazine Writing_**

ALA 6112 **Print Culture**

ALA 6113 **Asian Literature in the Diaspora and in Translation: Memorials, Museums, and Dark Tourism**

ALA 6114 **Literature and Aging_**

ALA 6115 **Writing and Publishing**

ALA 6116 **Songwriting and Music Production**

ALA 6200 **Introduction to Playwriting**

ALA 6201 **Introduction to Dramaturgy**

ALA 6202 **How to Start a Small Theatre Company**

ALA 6300 **Introduction to Information Management: Principles and Practices**

ALA 6301 **Cultural and Heritage Tourism Development**

ALA 6302 **Culinary Tourism**

ALA 6303 **Special Interest Tourism**

ALA 6304 **Introduction to Curatorial and Museum Studies**

CALENDAR ENTRY AFTER CHANGES

XX.6 Courses

ALA 6100 **Arts Management_**

ALA 6101 **Literary Production_**

ALA 6102 **Literary Adaptations_**

ALA 6103 **Anthology Building_**

ALA 6104 **Children’s Literature and Market Politics**
 ALA 6105 **Fan Cultures and Fan Studies_**
 ALA 6106 **Film in Theory, Film in Practice**
 ALA 6107 **Documentary Film: Theory and Practice_**
 ALA 6108 **Life Writing**
 ALA 6109 **Literature and Industry_**
 ALA 6110 **Literary Tourism**
 ALA 6111 **Magazine Writing_**
 ALA 6112 **Print Culture**
 ALA 6113 **Asian Literature in the Diaspora and in Translation: Memorials, Museums, and Dark Tourism**
 ALA 6114 **Literature and Aging_**
 ALA 6115 **Writing and Publishing**
 ALA 6116 **Songwriting and Music Production**
 ALA 6200 **Introduction to Playwriting**
 ALA 6201 **Introduction to Dramaturgy**
 ALA 6202 **How to Start a Small Theatre Company**
 ALA 6300 **Introduction to Information Management: Principles and Practices**
 ALA 6301 **Cultural and Heritage Tourism Development**
 ALA 6302 **Culinary Tourism**
 ALA 6303 **Special Interest Tourism**
 ALA 6304 **Introduction to Curatorial and Museum Studies**

15.4.1 Data Science Required Courses

- Data Science
- DSCI 5001 Statistical Inference for Data Science (propaedeutic)
- DSCI 5002 Basics of Python and R (propaedeutic)
- DSCI 5003 Linear Algebra for Regression Analysis (propaedeutic)
- DSCI 6601 Practical Machine Learning
- DSCI 6602 Deep Learning and Artificial Intelligence
- DSCI 6607 Programmatic Data Analysis Using Python and R
- DSCI 6619 Regression Models (cross listed with STAT 6519)
- DSCI 6659 Statistical Exploration of Data (cross listed with STAT 6559)
- DSCI 6690 Data Science Case Study Series (2 credit hours)
- DSCI 695A/B Capstone Project (2 credit hours)
- ~~Statistics~~
- ~~STAT 6519 Regression Models~~
- ~~STAT 6559 Statistical Exploration of Data~~

15.4.2 Data Science Elective Courses

- **Business**
- BUSI 8025 Information Systems
- BUSI 9021 Data Management
- BUSI 9022 Information Systems Analysis and Design
- BUSI 9912 Probabilistic Models
- **Computer Science**
- COMP 6907 Data Mining Techniques and Methodology
- COMP 6908 Database Technology and Applications
- COMP 6917 Complex Networks
- COMP 6934 Introduction to Data Visualization
- **Data Science**
- DSCI 6650 Reinforcement Learning
- **Mathematics**
- MATH 6100 Dynamical Systems
- MATH 6201 Numerical Methods for Time-Dependent Differential Equations
- MATH 6202 Nonlinear and Linear Optimisation
- MATH 6204 Iterative Methods in Numerical Linear Algebra
- MATH 6210 Numerical Solutions of Differential Equations
- MATH 6351 Advanced Linear Algebra
- **Medicine**
- MED 6260 Applied Data Analysis for Clinical Epidemiology
- MED 6278 Advanced Biostatistics for Health Research
- **Scientific Computing**
- CMCS 6950 Computer Based Tools and Applications
- **Statistics**

- STAT 6503 Stochastic Processes
 - STAT 6505 Survival Analysis
 - STAT 6530 Longitudinal Data Analysis
 - STAT 6545 Computational Statistics
 - STAT 6561 Categorical Data Analysis
 - STAT 6563 Sampling Theory
 - STAT 6564 Experimental Designs
 - STAT 6571 Financial and Environmental Time Series
 - STAT 6573 Statistical Genetics
-

Calendar Changes – Clean Copy

15.2 Program of Study

The minimum requirements for the Degree of Master of Data Science are the successful completion of the following:

1. the graduate courses DSCI 6601, DSCI 6602, DSCI 6607, DSCI 6619, DSCI 6659 plus two additional 3-credit hour courses from the list of [Data Science Elective Courses](#) or courses from other academic units approved by the Dean of Graduate Studies; and
2. DSCI 6690 and DSCI 695A/B and a final project report. The report must demonstrate a satisfactory general mastery of data science knowledge.

15.4.1 Data Science Required Courses

- Data Science
- DSCI 5001 Statistical Inference for Data Science (propaedeutic)
- DSCI 5002 Basics of Python and R (propaedeutic)
- DSCI 5003 Linear Algebra for Regression Analysis (propaedeutic)
- DSCI 6601 Practical Machine Learning
- DSCI 6602 Deep Learning and Artificial Intelligence
- DSCI 6607 Programmatic Data Analysis Using Python and R
- DSCI 6619 Regression Models (cross listed with STAT 6519)

- DSCI 6659 Statistical Exploration of Data (cross listed with STAT 6559)
- DSCI 6690 Data Science Case Study Series (2 credit hours)
- DSCI 695A/B Capstone Project (2 credit hours)

15.4.2 Data Science Elective Courses

- **Business**
 - BUSI 8025 Information Systems
 - BUSI 9021 Data Management
 - BUSI 9022 Information Systems Analysis and Design
 - BUSI 9912 Probabilistic Models
- **Computer Science**
 - COMP 6907 Data Mining Techniques and Methodology
 - COMP 6908 Database Technology and Applications
 - COMP 6917 Complex Networks
 - COMP 6934 Introduction to Data Visualization
- **Data Science**
 - DSCI 6650 Reinforcement Learning
- **Mathematics**
 - MATH 6100 Dynamical Systems
 - MATH 6201 Numerical Methods for Time-Dependent Differential Equations
 - MATH 6202 Nonlinear and Linear Optimisation
 - MATH 6204 Iterative Methods in Numerical Linear Algebra
 - MATH 6210 Numerical Solutions of Differential Equations
 - MATH 6351 Advanced Linear Algebra
- **Medicine**
 - MED 6260 Applied Data Analysis for Clinical Epidemiology
 - MED 6278 Advanced Biostatistics for Health Research

- **Scientific Computing**
- CMCS 6950 Computer Based Tools and Applications
- **Statistics**
- STAT 6503 Stochastic Processes
- STAT 6505 Survival Analysis
- STAT 6530 Longitudinal Data Analysis
- STAT 6545 Computational Statistics
- STAT 6561 Categorical Data Analysis
- STAT 6563 Sampling Theory
- STAT 6564 Experimental Designs
- STAT 6571 Financial and Environmental Time Series
- STAT 6573 Statistical Genetics

Amy Warren, Chair

Echo Pittman, Secretary