



Faculty of Science

Office of the Dean
St. John's, NL Canada A1B 3X7
Tel: 709 864 8154 Fax: 709 864 3316
deansci@mun.ca www.mun.ca/science

MEETING OF THE FACULTY COUNCIL OF THE FACULTY OF SCIENCE

A regular meeting of the Faculty Council of the Faculty of Science will be held on Wednesday, December 2, 2020, at 1:00 p.m. by Webex.

AGENDA

- 1. Regrets**
- 2. Adoption of the Minutes of November 18, 2020**
- 3. Business Arising from the Minutes**
- 4. Correspondence: None**
- 5. Reports of Standing Committees:**
 - A. Undergraduate Studies Committee:**
 - a. Department of Computer Science, add link to CRW Calendar section, Paper 5.A.a (pages 7-13)
 - b. Department of Computer Science, amend pre-requisites for COMP 3201, Paper 5.A.b (pages 14-19)
 - c. Department of Computer Science, amend pre-requisites for COMP 4304, Paper 5.A.c (pages 20-25)
 - d. Department of Computer Science, amend Dissertation wording for joint honours programs in Geography, Pure Mathematics and Statistics, Paper 5.A.d (pages 26-34)
 - e. Department of Computer Science, amend pre-requisites and co-requisites for COMP 2006, 2007 and 2008, Paper 5.A.e (pages 35-41)
 - f. Department of Computer Science, amend pre-requisites for COMP 3550, Paper 5.A.f (pages 42-52)
 - g. Department of Computer Science, amend pre-requisites for COMP 3602, Paper 5.A.g (pages 53-58)
 - h. Department of Computer Science, amend Statistics pre-requisites for COMP 3200, 3202, 3401, 4550 and 4766, Paper 5.A.h (pages 59-66)
 - i. Department of Computer Science, amend Computer Science programs required Statistics course to reflect updated Computer Science course pre-requisite, Paper 5.A.i (pages 67-74)
 - j. Department of Computer Science, change reference to Computer Science undergraduate handbook location, Paper 5.A.j (pages 75-82)
 - k. Department of Computer Science, add reference to Computer Science online major application form, Paper 5.A.k (pages 83-88)
 - l. Department of Computer Science, delete Supplementary Examinations, Paper 5.A.l (pages 89-94)
 - m. Department of Economics, amend program Joint Major in Economics (Co-operative) and Statistics, Paper 5.A.m (pages 95-101)

- n. Department of Psychology, amend pre-requisites/co-requisites for major courses PSYC 2930, 3050, 3100, 3251, 3350, 3450, 3510, 3511, 3650, 3900, 4750, 3810, 3820, 3830, 4661, 4770, 4910, 4980, 499A/B, Paper 5.A.n (pages 102-128)
- o. Department of Psychology, amend pre-requisites/co-requisites for non-restricted courses PSYC 2010, 2020, 2030, 2100, 2150, 2151, 2540, 2800, 2810, 2920, 3533, Paper 5.A.o (pages 129-143)
- p. Department of Psychology, amend programs, Admission to Majors Programs, Admission to Honours Programs, Requirements for Major in Psychology, Requirements for a Major in Behavioural Neuroscience (BSc only), Requirements for Honours in Behavioural Neuroscience (BSc only), Paper 5.A.p (pages 144-166)

B. Graduate Studies Committee: No business.

C. Library Committee: No business.

- 6. **Reports of Delegates from Other Councils**
- 7. **Report of the Dean**
- 8. **Question Period**
- 9. **Adjournment**

A handwritten signature in black ink, appearing to read 'Travis Fridgen', with a stylized, sweeping flourish extending from the end of the name.

Travis Fridgen, Ph.D.
Acting Dean of Science



Faculty of Science

Office of the Dean
St. John's, NL Canada A1B 3X7
Tel: 709 864 8154 Fax: 709 864 3316
deansci@mun.ca www.mun.ca/science

**FACULTY OF SCIENCE
FACULTY COUNCIL OF SCIENCE
MINUTES OF MEETING OF NOVEMBER 18, 2020**

A meeting of the Faculty Council of the Faculty of Science was held on Wednesday, November 18, 2020, at 1:00 p.m. using Webex.

FSC 2794

Present

Biochemistry

M. Berry, R. Bertolo, V. Booth, J. Brunton, M. Codner, H. Fifield, S. Harding, S. Hayes, D. Hunt, S. Mayengbam, M. Mulligan, J. Park, F. Shahidi

Biology

D. Bignell, J. Burke, T. Chapman, S. Dufour

Chemistry

C. Bottaro, R. Collins, M. Katz, C. McCarthy, S. Pansare, B. Power, A. Sheppard

Computer Science

Y. Chen, M. Emshey, O. Meruvia Pastor, V. Prado da Fonseca

Earth Sciences

G. Dunning, A. Langille, G. Layne, A. Malcolm, M. Miskell, S. Piercey

Mathematics & Statistics

D. Harvey, R. Haynes, JC Loredano-Osti, S. Mantyka, D. Pike, T. Stuckless, S. Sullivan

Ocean Sciences

G. Fletcher

Physics & Physical Oceanography

D. Coombs, C. Deacon, M. Evstigneev, M. Morrow, J. Munroe, J. Pittman, K. Poduska

Psychology

M. Courage, D. Hallett, A. Swift-Gallant, C. Thorpe

Dean of Science Office

D. Bennett, J. Blundell, S. Bungay, K. Foss, T. Fridgen, A. Highsted, G. Jackson, G. Kenny, T. Mackenzie, V. MacNab, R. Newhook

Graduate Students

A. Alfosool, G. Diaz Cruz, T. Youssef

Engineering and Applied Science:

X. Duan

Grenfell campus:

S. Barkanova

Medicine:

R. Russell

FSC 2795 Regrets:
B. Snook

FSC 2796 Adoption of Minutes
Moved: Minutes of the meeting of September 16, 2020, meeting be adopted (Berry/Sullivan). **Carried.**

FSC 2797 Business Arising: None

FSC 2798 Correspondence: None

FSC 2799 Reports of Standing Committees:

A. Undergraduate Studies Committee:

Presented by Shannon Sullivan, Chair, Undergraduate Studies Committee

- a.** Department of Biochemistry, proposal for new course, BIOC 1600, Food, Drugs, and Your Body (Sullivan/Berry) **Carried.**
- b.** Department of Biochemistry, proposal for Special Topics Course, BIOC 4232, Enzymes and Receptors, approved by the committee and presented for information only.
- c.** Department of Chemistry, proposal to amend course, CHEM 1010, Introductory Chemistry I (Sullivan/Pansare) **Carried.**
- d.** Department of Chemistry, proposal for new course, CHEM 4310, Surface and Interface Science (Sullivan/Pansare) **Carried.**
- e.** Department of Chemistry, proposal for new course, CHEM 4431, Heterocyclic Chemistry (Sullivan/Pansare) **Carried.**
- f.** Department of Chemistry, proposed calendar change to add new Special Topics course number blocks (Sullivan/Mantyka) **Carried.**

B. Graduate Studies Committee:

- a.** Department of Biology, Request for Approval of a Graduate Course, BIOL 6052, Plant Pathology (Layne/Chapman) **Carried.**
- b.** Department of Mathematics and Statistics, Special Topics course, MATH 6215, Deep Learning and Deep Reinforcement Learning, approved by the committee and presented for information only.

- c. School of Graduate Studies calendar changes proposal revising the 'Pass (with conditions)' category. Faculty of Science Faculty Council supports these changes. (Layne/Bottaro)

C. **Nominating Committee:** No business.

D. **Library Committee:** No business.

FSC 2800

Report of the Dean

Presented by Travis Fridgen, Acting Dean

1. Minister Visit to Ocean Sciences

Andrew Parsons, Minister of Industry, Energy, and Technology is currently visiting the Department of Ocean Sciences in preparation for a nearly \$1.6 M announcement of Industry, Energy, and Technology provincial matching funding, and almost half of that is going to researchers in the Faculty of Science and specifically to Primary applicants Chris Kozak of Chemistry, Scott Harding of Biochemistry, and Kurt Gamperl of Ocean Sciences.

I am also aware that the Faculty did extremely well in the latest round of CFI funding, which was announced just this morning.

2. Bonne Bay Marine Station

As of January 1, 2021, the operations of the Bonne Bay Marine Station will be transferred to Grenfell Campus. The Faculty of Science will remain a prioritized user of the facility in both our teaching and research activities, and we will also be part of the user group committee.

3. The (Petri) Dish

Volume 1, Issue 1 of The (Petri) Dish, The New Faculty of Science Newsletter, was published in November. I would like to congratulate Kelly Foss for a wonderful job. If you have any ideas or stories for this short monthly newsletter, please send them to Kelly (kfoss@mun.ca).

4. Gradual Return to Campus

For the last few months non-academic staff have been able to access campus by making a special request. On November 10th the University announced the next phase of the gradual return to campus for non-academic employees. Beginning November 23rd, staff are being asked to return to campus a minimum of two days per week in order to expand services for graduate and undergraduate students, as well as faculty. The staff in the Faculty of Science have been going above and beyond to provide administrative services, teaching, and advising for our students, and they should be commended. Messages received by the University indicate that students are struggling without direct contact with us and that they would greatly benefit from some face-to-face interactions as soon as that becomes possible. This does not mean there will be free-for-all access to staff by students. The return of staff to campus will lead to a gradual increase in on-campus student services over the winter semester. I believe that this is an important first step in opening campus more fully to students, including having in-person classes, which could occur as early as the spring semester. This step will also help the University evaluate further

expansion of our return to campus which is anticipated to occur in January. Finally, this incremental next step is expected to alleviate mental health concerns, anxiety, and equity issues.

I fully understand that this gradual transition may require some accommodations in the short term. Heads and Admins will work with staff through this transition.

FSC 2801 Question Period

There was discussion about the procedure around dropping courses. Currently, if a student drops a course, the instructor has to sign off on the request, as does the Head of the department of the major. This can cause some problems, as the course being dropped may be outside the department of the major, and the Head can be overriding the decision of the instructor in another department. All Heads should consult with the instructor and take any arguments made by the instructor into account when deciding whether or not to sign off on the drop request.

The Acting Dean was informed that Heads of departments moving to the Core Science Facility in September 2021 have not been consulted on the plans for the move and are not permitted to know the plans. The Acting Dean will ask Facilities Management for details on the move. As of today's date, the information on the move schedule is that it will begin in February but it could be delayed by up to six weeks.

It was noted that in the November 9 Gazette that the university will embark on a new campus master plan and that a firm has been hired to design this plan. What is the Faculty of Science contribution to this plan and what is the request from the Faculty of Science for this round of planning? The Acting Dean was not aware that consultations were underway. The Acting Dean will inquire about these consultations as his advocacy for new space for the Departments of Mathematics and Statistics and Psychology has been ongoing and consistent, and another opportunity to do that would be welcome.

There was significant discussion about the plan for the return to campus of all non-academic staff for a minimum of two days a week beginning on November 23. Many concerns about this plan were expressed, such as maintaining two offices – one on-campus and one at home; keeping six feet of distance is not possible in standard campus offices; will general offices be open for business as usual; provide information on the expanded services that students are asking for that prompted this limited re-opening; worrisome that COVID-19 cases are increasing across Canada; having more students on campus risks research; many reasons why a partial return to campus won't work for lab instructors, especially because of transfer of equipment back and forth from home to campus and campus to home. The Acting Dean reiterated that the university is following public health recommendations with this move to gradually re-open campus in order to transition to a full opening in the future. Dr. Fridgen's communication to Heads regarding teaching staff returning to campus was that it might be more disruptive to bring them back to campus with only two weeks of classes remaining in the semester. They can certainly return to campus after classes are over. Any staff member can return to campus for the full week, if that works best for them with regard to ergonomic set ups and scheduling.

FSC 2802 Adjournment

The meeting adjourned at 2:13 p.m.



Office of the Registrar

St. John's, NL Canada A1C 5S7
Tel: 709 864 8260 Fax: 709 864 2337
www.mun.ca

November 25, 2020

TO: All Members of Faculty Council, Faculty of Science

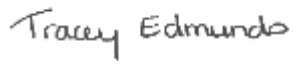
FROM: Tracey Edmunds, Secretary, Faculty of Science Committee on Undergraduate Studies

SUBJECT: **Proposals for Calendar Changes**

At a meeting held on November 18, 2020, the Faculty of Science Committee on Undergraduate Studies agreed that the following item should be forwarded to Faculty Council for approval:

1. Department of Computer Science - Calendar Changes
 - a. Add link to CRW Calendar section
 - b. Amend pre-requisites for Computer Science 3201
 - c. Amend pre-requisites for Computer Science 4304
 - d. Amend Dissertation wording for joint honours programs in Geography, Pure Mathematics and Statistics
 - e. Amend pre-requisites and Co-requisites for Computer Science 2006, 2007 and 2008
 - f. Amend pre-requisites for Computer Science 3550
 - g. Amend pre-requisites for Computer Science 3602
 - h. Amend Statistics pre-requisites for Computer Science 3200, 3202, 3401, 4550 and 4766
 - i. Amend Computer Science programs required Statistics course to reflect updated Computer Science course pre-requisite
 - j. Change reference to Computer Science undergraduate handbook location
 - k. Add reference to Computer Science online major application form
 - l. Delete Supplementary Examinations
2. Department of Economics - Amend program: Joint Major in Economics (Co-operative) and Statistics
3. Department of Psychology - Calendar Changes
 - a. Amend pre-requisites/co-requisites for major courses: Psychology 2930, 3050, 3100, 3251, 3350, 3450, 3510, 3511, 3650, 3900, 4750, 3810, 3820, 3830, 4661, 4770, 4910, 4980, 499A/B
 - b. Amend pre-requisites/co-requisites for non-restricted courses: Psychology 2010, 2020, 2030, 2100, 2150, 2151, 2540, 2800, 2810, 2920, 3533

- c. Amend programs: Admission to Majors Program, Admission to Honours Programs, Requirements for a Major in Psychology, Requirements for a Major in Behavioural Neuroscience (BSc. Only), Requirements for Honours in Behavioural Neuroscience (BSc. Only)

A handwritten signature in black ink that reads "Tracey Edmunds". The signature is written in a cursive, slightly slanted style.

Tracey Edmunds

Memorial University of Newfoundland Undergraduate Calendar Change Proposal Form Cover Page

LIST OF CHANGES

Indicate the Calendar change(s) being proposed by checking and completing as appropriate:

- ☐ New course(s):
- ☐ Amended or deleted course(s):
- ☐ New program(s):
- ☐ Amended or deleted program(s):
- ☐ New, amended or deleted Glossary of Terms Used in the Calendar entries
- ☐ New, amended or deleted Admission/Readmission to the University (Undergraduate) regulations
- ☐ New, amended or deleted General Academic Regulations (Undergraduate)
- ☐ New, amended or deleted Faculty, School or Departmental regulations
- ☒ Other: Add link to CRW courses

ADMINISTRATIVE AUTHORIZATION

By signing below, you are confirming that the attached Calendar changes have obtained all necessary Faculty/School approvals, and that the costs, if any, associated with these changes can be met from within the existing budget allocation or authorized new funding for the appropriate academic unit.

Signature of Dean/Vice-President: _____

Date: _____

Date of approval by Faculty/Academic Council: _____

Memorial University of Newfoundland Undergraduate Calendar Change Proposal Form Senate Summary Page for Programs

PROGRAM TITLE

11.4.1 Admission to Major Programs

RATIONALE

We receive frequent questions about Memorial University's CRW courses. We would like to link to section **6.1.2.2 Critical Reading and Writing (CRW) Requirement** so that students are better able to find this information.

CALENDAR CHANGES

11.4.1 Admission to Major Programs

Admission to the Major programs in the Department of Computer Science is competitive and selective. Students who wish to enter these programs must submit a completed application form to the Department of Computer Science by June 1 for Fall semester registration.

To be eligible for admission students must have normally completed 24 credit hours as listed below:

1. Computer Science 1001, 1002.
2. Six credit hours in **Critical Reading and Writing (CRW)** courses, including at least 3 credit hours in English courses.
3. Mathematics 1000 and 1001 (or 1090 and 1000).
4. Six credit hours in other courses.

Students who fulfill the eligibility requirements compete for a limited number of available spaces. Selection is based on academic performance, normally cumulative average and performance in recent courses.

CALENDAR ENTRY AFTER CHANGES

11.4.1 Admission to Major Programs

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Students who fulfill the eligibility requirements compete for a limited number of available spaces. Selection is based on academic performance, normally cumulative average and performance in recent courses.

Memorial University of Newfoundland

Undergraduate Calendar Change Proposal Form

Appendix Page

CONSULTATIONS SOUGHT

Consultations Sought From	Comments Received
Academic Advising Centre	No issue with the change
Humanities and Social Sciences	
Business Administration	
Education	
Engineering and Applied Science	
Grenfell Campus (Arts & Social Sciences)	
Grenfell Campus (Science and the Environment)	No concerns with the change
Grenfell Campus (Fine Arts)	
Human Kinetics and Recreation	No concerns with the change
Library	Proposed changes have no bearing on Library services
Marine Institute	
Medicine	
Music	No issue with the change
Nursing	
Pharmacy	
Social Work	
Science	
• Biochemistry	
• Biology	No issue with the change
• Chemistry	
• Earth Sciences	
• Geography	
• Mathematics and Statistics	
• Ocean Sciences	
• Physics and Physical Oceanography	
FoSCUGS	Can do this type of edit without a formal Calendar change

LIBRARY REPORT

Proposed changes have no bearing on Library services

RESOURCE IMPLICATIONS

There are no resource implications associated with this change.

ADDITIONAL INFORMATION REQUIRED FOR NEW COURSE PROPOSALS

Not applicable

Memorial University of Newfoundland

Undergraduate Calendar Change Proposal Form

Cover Page

LIST OF CHANGES

Indicate the Calendar change(s) being proposed by checking and completing as appropriate:

- ☐ New course(s):
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- ☐ New program(s):
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- ☐ New, amended or deleted Admission/Readmission to the University (Undergraduate) regulations
- ☐ New, amended or deleted General Academic Regulations (Undergraduate)
- ☐ New, amended or deleted Faculty, School or Departmental regulations
- ☐ Other:

ADMINISTRATIVE AUTHORIZATION

By signing below, you are confirming that the attached Calendar changes have obtained all necessary Faculty/School approvals, and that the costs, if any, associated with these changes can be met from within the existing budget allocation or authorized new funding for the appropriate academic unit.

Signature of Dean/Vice-President: _____

Date: _____

Date of approval by Faculty/Academic Council: _____

Memorial University of Newfoundland Undergraduate Calendar Change Proposal Form Senate Summary Page for Courses

COURSE NUMBER AND TITLE

COMP 3201 Introduction to Nature-Inspired Computing

RATIONALE

We would like to add a statistics pre-requisite and a Java programming pre-requisite for this course. Basic concepts in data analysis and probability are required for this course, and a background in Java is needed. Currently instructors are teaching these concepts as part of the COMP 3201.

CALENDAR CHANGES

3201 Introduction to Nature-Inspired Computing provides an overview of popular nature-inspired computing methods. Methods that are inspired by both biological and non-biological systems are considered. These methods have been applied to solve problems in various areas of computing such as optimization, machine learning, and robotics. Particular examples of nature-inspired computing methods studied include cellular automata, neural networks, evolutionary computing, swarm intelligence, artificial life, and complex networks. Contributions made in the field of nature-inspired computing that have led to advances in the natural sciences are also discussed.

CR: the former COMP 4752

PR: COMP 2001, COMP 2002 or the former COMP 2711, Statistics 2500 or 2550

CALENDAR ENTRY AFTER CHANGES

3201 Introduction to Nature-Inspired Computing provides an overview of popular nature-inspired computing methods. Methods that are inspired by both biological and non-biological systems are considered. These methods have been applied to solve problems in various areas of computing such as optimization, machine learning, and robotics. Particular examples of nature-inspired computing methods studied include cellular automata, neural networks, evolutionary computing, swarm intelligence, artificial life, and complex networks. Contributions made in the field of nature-inspired computing that have led to advances in the natural sciences are also discussed.

CR: the former COMP 4752

PR: COMP 2001, COMP 2002 or the former COMP 2711, Statistics 2500 or 2550

SECONDARY CALENDAR CHANGES

None

Memorial University of Newfoundland

Undergraduate Calendar Change Proposal Form

Appendix Page

CONSULTATIONS SOUGHT

Consultations Sought From	Comments Received
Academic Advising Centre	Asked about communication plan
Humanities and Social Sciences	
Business Administration	
Education	
Engineering and Applied Science	Queried whether Engineering students would be able to take course without standard pre-requisites in certain situations, as they have in the past
Grenfell Campus (Arts & Social Sciences)	
Grenfell Campus (Science and the Environment)	No concerns with the change
Grenfell Campus (Fine Arts)	
Human Kinetics and Recreation	No concerns with the change
Library	Proposed changes have no bearing on Library services
Marine Institute	
Medicine	
Music	No issue with the change
Nursing	
Pharmacy	
Social Work	
Science	
• Biochemistry	
• Biology	No issue with the change
• Chemistry	
• Earth Sciences	
• Geography	
• Mathematics and Statistics	
• Ocean Sciences	
• Physics and Physical Oceanography	

LIBRARY REPORT

Proposed changes have no bearing on Library services

RESOURCE IMPLICATIONS

None

ADDITIONAL INFORMATION REQUIRED FOR NEW COURSE PROPOSALS

Academic Advising Centre:

From: Cathy Hyde <cs-ugradadv@mun.ca>
Sent: Tuesday, November 24, 2020 4:51 PM
To: 'Pittman, Echo' <echop@mun.ca>
Subject: RE: Consultation on Calendar changes - Computer Science

Hi Echo,

My apologies for taking so long to respond.

3. Students can access the form from the undergrad tab of our website, they will not be able to submit the RO declaration form.
4. Communication will be through the updated Calendar and email to students.

Thanks,

Cathy Hyde, MSc | Manager of Academic Programs

Department of Computer Science

Memorial University of Newfoundland

www.mun.ca/computerscience/

From: Pittman, Echo <echop@mun.ca>
Sent: Tuesday, November 3, 2020 1:20 PM
To: cs-ugradadv@mun.ca
Subject: RE: Consultation on Calendar changes - Computer Science

Hi Cathy,

Thank you for sharing the CS proposed calendar change items with AAC. As we support first year students (Humanities & social sciences, science, and unspecified), students beyond first year who have not identified an academic home and students who plan to change their programs, I will comment on items 1 to 6 that are relevant to the student populations we support.

1. I do not see any issue
2. I do not see any issue
3. Where can students find such an application at the department's website? Would students be allowed to submit a copy of declaration form that can be found at the RO's website?
4. What is the department's communication plan for these changes? Would the department grant waivers for students who followed the university calendars prior to 2021-2022?
5. I do not see any issue.

Echo

Echo Pittman, PhD

Associate Registrar (Academic Advising & Outreach)

Academic Advising Centre (Science Building: 4053)

Tel: (709) 864-3528

Engineering:

From: Cathy Hyde <cs-ugradadv@mun.ca>

Sent: Tuesday, November 24, 2020 3:39 PM

To: 'Engineering Consult' <engrconsult@mun.ca>

Subject: RE: Consultation on Calendar changes - Computer Science

Hi,

My apologies for how long it has taken to get back to you on this. I'm not aware of a formal process re: Engineering students enrolling in CS courses without PRs however, we will continue to accommodate Engineering as possible in future as we have in the past--these PR changes should not change that.

Thanks,

Cathy Hyde, MSc | Manager of Academic Programs Department of Computer Science Memorial University of Newfoundland www.mun.ca/computerscience/

-----Original Message-----

From: Engineering Consult <engrconsult@mun.ca>

Sent: Wednesday, November 4, 2020 4:19 PM

To: Cathy Hyde <cs-ugradadv@mun.ca>

Cc: Jayde Edmunds <edmundsj@mun.ca>; Dennis Peters <dpeters@mun.ca>; Bruce Quinton <bruce.quinton@mun.ca>

Subject: Re: Consultation on Calendar changes - Computer Science

Dear Ms. Hyde,

Thank you for the opportunity to comment on the 12 sets of proposed calendar changes to the Computer Science program.

This proposal arrived too late for October's meeting of the Committee on Undergraduate Studies of the Faculty of Engineering and Applied Science.

Some of the courses listed in your proposal are taken as technical electives by students in our Computer Engineering program. Our students have rarely met the stated prerequisites and have been "signed in" with prerequisite waivers. We trust that this practice will continue and that our compulsory course ECE 5100 "Probability and Random Processes" will be treated as satisfying the new statistics requirement in those Computer Science courses.

With this understanding, we are happy to support these proposed changes.

Yours sincerely,

Dr. Glyn George, Chair
Committee on Undergraduate Studies
Faculty of Engineering and Applied Science Memorial University of Newfoundland
St. John's NL A1B 3X5

Memorial University of Newfoundland Undergraduate Calendar Change Proposal Form Cover Page

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Signature of Dean/Vice-President: _____

Date: _____

Date of approval by Faculty/Academic Council: _____

Memorial University of Newfoundland Undergraduate Calendar Change Proposal Form Senate Summary Page for Courses

COURSE NUMBER AND TITLE

COMP 4304 Data Visualization

RATIONALE

We would like to add a statistics pre-requisite to this course. Rationale is that basic concepts in data analysis and probability are required and currently instructors are teaching these concepts as part of 4304.

CALENDAR CHANGES

4304 Data Visualization covers interactive representation of data using a modern programming library. Topics include an introduction to the software platform and the principles for data selection, analysis, design and creation of dynamic visualizations. Students produce interactive web-based objects, addressing problems in the presentation and understanding of large data collections. The techniques discussed are applicable to different sources and types of data.

CR: the former COMP 4767

PR: COMP 2001 or the former COMP 2710, COMP 2002 or the former COMP 2711, Statistics 2500 or 2550

CALENDAR ENTRY AFTER CHANGES

4304 Data Visualization covers interactive representation of data using a modern programming library. Topics include an introduction to the software platform and the principles for data selection, analysis, design and creation of dynamic visualizations. Students produce interactive web-based objects, addressing problems in the presentation and understanding of large data collections. The techniques discussed are applicable to different sources and types of data.

CR: the former COMP 4767

PR: COMP 2001 or the former COMP 2710, COMP 2002 or the former COMP 2711, Statistics 2500 or 2550

SECONDARY CALENDAR CHANGES

None

Memorial University of Newfoundland

Undergraduate Calendar Change Proposal Form

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Pharmacy	
Social Work	
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• Biology	No issue with the change
• Chemistry	
• Earth Sciences	
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• Mathematics and Statistics	
• Ocean Sciences	
• Physics and Physical Oceanography	

LIBRARY REPORT

Proposed changes have no bearing on Library services

RESOURCE IMPLICATIONS

None

ADDITIONAL INFORMATION REQUIRED FOR NEW COURSE PROPOSALS

Academic Advising Centre:

From: Cathy Hyde <cs-ugradadv@mun.ca>
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To: 'Pittman, Echo' <echop@mun.ca>
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4. Communication will be through the updated Calendar and email to students.

Thanks,

Cathy Hyde, MSc | Manager of Academic Programs

Department of Computer Science

Memorial University of Newfoundland

www.mun.ca/computerscience/

From: Pittman, Echo <echop@mun.ca>
Sent: Tuesday, November 3, 2020 1:20 PM
To: cs-ugradadv@mun.ca
Subject: RE: Consultation on Calendar changes - Computer Science

Hi Cathy,

Thank you for sharing the CS proposed calendar change items with AAC. As we support first year students (Humanities & social sciences, science, and unspecified), students beyond first year who have not identified an academic home and students who plan to change their programs, I will comment on items 1 to 6 that are relevant to the student populations we support.

1. I do not see any issue
2. I do not see any issue
3. Where can students find such an application at the department's website? Would students be allowed to submit a copy of declaration form that can be found at the RO's website?
4. What is the department's communication plan for these changes? Would the department grant waivers for students who followed the university calendars prior to 2021-2022?
5. I do not see any issue.

Echo

Echo Pittman, PhD

Associate Registrar (Academic Advising & Outreach)

Academic Advising Centre (Science Building: 4053)

Tel: (709) 864-3528

Engineering:

From: Cathy Hyde <cs-ugradadv@mun.ca>

Sent: Tuesday, November 24, 2020 3:39 PM

To: 'Engineering Consult' <engrconsult@mun.ca>

Subject: RE: Consultation on Calendar changes - Computer Science

Hi,

My apologies for how long it has taken to get back to you on this. I'm not aware of a formal process re: Engineering students enrolling in CS courses without PRs however, we will continue to accommodate Engineering as possible in future as we have in the past--these PR changes should not change that.

Thanks,

Cathy Hyde, MSc | Manager of Academic Programs Department of Computer Science Memorial University of Newfoundland www.mun.ca/computerscience/

-----Original Message-----

From: Engineering Consult <engrconsult@mun.ca>

Sent: Wednesday, November 4, 2020 4:19 PM

To: Cathy Hyde <cs-ugradadv@mun.ca>

Cc: Jayde Edmunds <edmundsj@mun.ca>; Dennis Peters <dpeters@mun.ca>; Bruce Quinton <bruce.quinton@mun.ca>

Subject: Re: Consultation on Calendar changes - Computer Science

Dear Ms. Hyde,

Thank you for the opportunity to comment on the 12 sets of proposed calendar changes to the Computer Science program.

This proposal arrived too late for October's meeting of the Committee on Undergraduate Studies of the Faculty of Engineering and Applied Science.

Some of the courses listed in your proposal are taken as technical electives by students in our Computer Engineering program. Our students have rarely met the stated prerequisites and have been "signed in" with prerequisite waivers. We trust that this practice will continue and that our compulsory course ECE 5100 "Probability and Random Processes" will be treated as satisfying the new statistics requirement in those Computer Science courses.

With this understanding, we are happy to support these proposed changes.

Yours sincerely,

Dr. Glyn George, Chair
Committee on Undergraduate Studies
Faculty of Engineering and Applied Science Memorial University of Newfoundland
St. John's NL A1B 3X5

Memorial University of Newfoundland Undergraduate Calendar Change Proposal Form Cover Page

LIST OF CHANGES

Indicate the Calendar change(s) being proposed by checking and completing as appropriate:

- ☐ New course(s):
- ☐ Amended or deleted course(s):
- ☐ New program(s):
- ☒ Amended or deleted program(s):
- ☐ New, amended or deleted Glossary of Terms Used in the Calendar entries
- ☐ New, amended or deleted Admission/Readmission to the University (Undergraduate) regulations
- ☐ New, amended or deleted General Academic Regulations (Undergraduate)
- ☐ New, amended or deleted Faculty, School or Departmental regulations
- ☐ Other:

ADMINISTRATIVE AUTHORIZATION

By signing below, you are confirming that the attached Calendar changes have obtained all necessary Faculty/School approvals, and that the costs, if any, associated with these changes can be met from within the existing budget allocation or authorized new funding for the appropriate academic unit.

Signature of Dean/Vice-President: _____

Date: _____

Date of approval by Faculty/Academic Council: _____

Memorial University of Newfoundland

Undergraduate Calendar Change Proposal Form

Senate Summary Page for Programs

PROGRAM TITLE

Computer Science and Geography Joint Honours

Computer Science and Pure Mathematics Joint Honours

Computer Science and Statistics Joint Honours

RATIONALE

We are proposing to change wording related to the dissertation requirements in three of our joint honours programs. For the joint Geography, Pure Mathematics and Statistic programs we would like the regulation to specify the dissertation course numbers, and note that the research topic should be chosen in consultation with both departments (as opposed to requiring approval from heads of both departments). This change will make the wording more consistent with other joint programs.

CALENDAR CHANGES

10.2.14 Computer Science and Geography Joint Honours

As a component of the Degree Regulations for the Honours Degree of Bachelor of Science, the following courses are required:

1. Computer Science Requirements

Forty-eight credit hours in Computer Science courses are required for the Joint Honours:

- a. 1001, 1002, 1003, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, the former 4751.
- b. Six additional credit hours in courses at the 4000 level not including 4780.
- c. Twelve additional credit hours in courses at the 3000 level or beyond.

2. Geography Requirements

Forty-eight credit hours in Geography courses are required for the Joint Honours:

- a. 1050, 2001, 2102, 2195, 2302, 2425, 3202, 3222, 3228 (or the former 2226 and the former 3226), 3250, 3260, 3303, 4202, 4250, 4261, and the former 4294, 490A and 490B.
- b. Three additional credit hours in courses at the 3000 level

3. Additional Requirements

- a. Mathematics 1000, 1001, 2000, and 2050.
- b. ~~An Honours Dissertation (either Computer Science 4780 or Geography 4999). The topic for dissertation must be chosen with the prior approval of the Heads of both Departments.~~ An Honours Dissertation

(either Computer Science 4780 or Geography 4999), with the topic chosen in consultation with both departments.

10.2.16 Computer Science and Pure Mathematics Joint Honours

As a component of the Degree Regulations for the Honours Degree of Bachelor of Science, the following courses are required:

At least 51 credit hours in Computer Science courses are required including the following:

1. Computer Science 1001, 1003, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008.
2. Excluding 4780, 24 additional credit hours from courses numbered 3000 or higher, at least 9 credit hours of which must be in courses at the 4000 level.

The following courses in Mathematics and Statistics are required:

1. Mathematics 1000, 1001, 2000, 2050, 2051, 2130, 2260, 2320, 3000, 3001, 3202, 3210, 3320, 3340, Statistics 2550.
2. Either Mathematics 4000 or 4001.
3. Excluding the former Mathematics 3330, the former 4399, and 439A/B, 15 additional credit hours in courses offered by the Department of Mathematics and Statistics numbered 3000 or higher including at least 9 credit hours from courses numbered 4000 or higher and at least 9 credit hours in Pure Mathematics courses.
4. ~~An Honours Dissertation in one of the departments, with the topic chosen in consultation with both departments.~~ An Honours Dissertation (either Computer Science 4780 or Mathematics 439A/B), with the topic chosen in consultation with both departments.

10.2.17 Computer Science and Statistics Joint Honours

As a component of the Degree Regulations for the Honours Degree of Bachelor of Science, the following courses are required:

1. Mathematics 1000, 1001, 2000, 2050, 2051, 2320, 3340, Statistics 1510 or 2500 or 2550, 2410 or 3410, 2501 or 2560, 3411, 3520, 3521, 3540, 4530, 4590.
2. Eighteen further credit hours in Statistics courses including at least 12 credit hours in courses numbered 4000 or higher, but not including Statistics 4581 and 459A/B.
3. Computer Science 1001, 1003, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 4734.
4. Twenty-one additional credit hours in Computer Science courses at the 3000 level or higher, not including 4780.
5. ~~Either Computer Science 4780 or Statistics 459A/B.~~ An Honours Dissertation (either Computer Science 4780 or Statistics 459A/B), with the topic chosen in consultation with both departments.

CALENDAR ENTRY AFTER CHANGES

10.2.14 Computer Science and Geography Joint Honours

As a component of the Degree Regulations for the Honours Degree of Bachelor of Science, the following courses are required:

1. Computer Science Requirements

Forty-eight credit hours in Computer Science courses are required for the Joint Honours:

- a. 1001, 1002, 1003, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, the former 4751.
- b. Six additional credit hours in courses at the 4000 level not including 4780.
- c. Twelve additional credit hours in courses at the 3000 level or beyond.

2. Geography Requirements

Forty-eight credit hours in Geography courses are required for the Joint Honours:

- c. 1050, 2001, 2102, 2195, 2302, 2425, 3202, 3222, 3228 (or the former 2226 and the former 3226), 3250, 3260, 4202, 4250, 4261, 490A and 490B.
- d. Three additional credit hours in courses at the 3000 level

3. Additional Requirements

- a. Mathematics 1000, 1001, 2000, and 2050.
- b. An Honours Dissertation (either Computer Science 4780 or Geography 4999), with the topic chosen in consultation with both departments.

10.2.16 Computer Science and Pure Mathematics Joint Honours

As a component of the Degree Regulations for the Honours Degree of Bachelor of Science, the following courses are required:

At least 51 credit hours in Computer Science courses are required including the following:

1. Computer Science 1001, 1003, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008.
2. Excluding 4780, 24 additional credit hours from courses numbered 3000 or higher, at least 9 credit hours of which must be in courses at the 4000 level.

The following courses in Mathematics and Statistics are required:

1. Mathematics 1000, 1001, 2000, 2050, 2051, 2130, 2260, 2320, 3000, 3001, 3202, 3210, 3320, 3340, Statistics 2550.
2. Either Mathematics 4000 or 4001.
3. Excluding the former Mathematics 3330, the former 4399, and 439A/B, 15 additional credit hours in courses offered by the Department of Mathematics and Statistics numbered 3000 or higher including at least 9 credit hours from courses numbered 4000 or higher and at least 9 credit hours in Pure Mathematics courses.

4. An Honours Dissertation (either Computer Science 4780 or Mathematics 439A/B), with the topic chosen in consultation with both departments.

10.2.17 Computer Science and Statistics Joint Honours

As a component of the Degree Regulations for the Honours Degree of Bachelor of Science, the following courses are required:

1. Mathematics 1000, 1001, 2000, 2050, 2051, 2320, 3340, Statistics 1510 or 2500 or 2550, 2410 or 3410, 2501 or 2560, 3411, 3520, 3521, 3540, 4530, 4590.
2. Eighteen further credit hours in Statistics courses including at least 12 credit hours in courses numbered 4000 or higher, but not including Statistics 4581 and 459A/B.
3. Computer Science 1001, 1003, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 4734.
4. Twenty-one additional credit hours in Computer Science courses at the 3000 level or higher, not including 4780.
5. An Honours Dissertation (either Computer Science 4780 or Statistics 459A/B), with the topic chosen in consultation with both departments.

Memorial University of Newfoundland

Undergraduate Calendar Change Proposal Form

Appendix Page

CONSULTATIONS SOUGHT

Consultations Sought From	Comments Received
Academic Advising Centre	No issue with the change
Humanities and Social Sciences	
Business Administration	
Education	
Engineering and Applied Science	No concerns with the change
Grenfell Campus (Arts & Social Sciences)	
Grenfell Campus (Science and the Environment)	No concerns with the change
Grenfell Campus (Fine Arts)	
Human Kinetics and Recreation	No concerns with the change
Library	Proposed changes have no bearing on Library services
Marine Institute	
Medicine	
Music	No issue with the change
Nursing	
Pharmacy	
Social Work	
Science	
• Biochemistry	
• Biology	No issue with the change
• Chemistry	
• Earth Sciences	
• Geography	Remove 4291 since it is no longer offered, replace with 490A and B. Remove 3303 since it is no longer offered.
• Mathematics and Statistics	
• Ocean Sciences	
• Physics and Physical Oceanography	

LIBRARY REPORT

Proposed changes have no bearing on Library services

RESOURCE IMPLICATIONS

There are no resource implications associated with this change.

ADDITIONAL INFORMATION REQUIRED FOR NEW COURSE PROPOSALS

From: Catto, Norm <ncatto@mun.ca>
Sent: Wednesday, November 18, 2020 2:24 PM
To: Hyde, Cathy <cathy@mun.ca>
Cc: Mark Hatcher <mhatcher@mun.ca>
Subject: RE: revised geog

Ok, that's good.

Norm Catto

Head, Department of Geography

Memorial University

St. John's NL A1B 3X9

Canada

1-709-864-7463

Fax 1-709-864-3119

Home 368-3024

From: Hyde, Cathy <cathy@mun.ca>
Sent: Wednesday, November 18, 2020 2:21 PM
To: Catto, Norm <ncatto@mun.ca>
Cc: Mark Hatcher <mhatcher@mun.ca>
Subject: RE: revised geog

Thanks for your response. I've made the change to include 490A/B, hopefully I've gotten it right (?)

Cathy Hyde, MSc | Manager of Academic Programs, MSc

Department of Computer Science

Memorial University of Newfoundland

www.mun.ca/computerscience/

From: Catto, Norm <ncatto@mun.ca>
Sent: Wednesday, November 18, 2020 2:09 PM
To: Hyde, Cathy <cathy@mun.ca>
Cc: Mark Hatcher <mhatcher@mun.ca>
Subject: RE: revised geog

Dear Cathy:

Thank you for writing. I would be ok with leaving this general, as you have it, or of specifying a replacement course at the 3000-level. We do require our Majors (and Honours) to take the linked 490 A- 490B (3 credit hours total) at the 4000-level, so I would prefer to see that instead of the general 4000-level 3 ch requirement as in 2c.

Take care and best wishes

Norm

Norm Catto

Head, Department of Geography

Memorial University

St. John's NL A1B 3X9

Canada

1-709-864-7463

Fax 1-709-864-3119

Home 368-3024

From: Hyde, Cathy <cathy@mun.ca>
Sent: Wednesday, November 18, 2020 12:25 PM
To: Catto, Norm <ncatto@mun.ca>
Cc: Mark Hatcher <mhatcher@mun.ca>
Subject: FW: revised geog

Hi Norm,

We've modified the Calendar entry (see below) to remove references to 3303 and 4291 and replace with any Geog course at the 3000- and 4000-level. Is this change sufficient? If not, can you please make a suggestion to how things should be modified further? Thanks very much in advance,

10.2.14 Computer Science and Geography Joint Honours

As a component of the **Degree Regulations** for the Honours Degree of Bachelor of Science, the following courses are required:

1. **Computer Science Requirements**

Forty-eight credit hours in Computer Science courses are required for the Joint Honours:

- a. 1001, 1002, 1003, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, the former 4751.
- b. Six additional credit hours in courses at the 4000 level not including 4780.
- c. Twelve additional credit hours in courses at the 3000 level or beyond.

2. **Geography Requirements**

Forty-eight credit hours in Geography courses are required for the Joint Honours:

- a. 1050, 2001, 2102, 2195, 2302, 2425, 3202, 3222, 3228 (or the former 2226 and the former 3226), 3250, 3260, 3222, ~~3303~~, 4202, 4250, 4261, ~~and the former 4291~~, [490A](#) and [490B](#).
- b. Three additional credit hours in courses at the 3000 level.

3. **Additional Requirements**

- a. Mathematics 1000, 1001, 2000, and 2050.
- b. An Honours Dissertation (either Computer Science 4780 or Geography 4999), with the topic chosen in consultation with both departments.

Cathy Hyde, MSc | Manager of Academic Programs, MSc

Departments of Computer Science and Psychology

Memorial University of Newfoundland

Tel: (709) 864-3059

www.mun.ca/computerscience/

www.mun.ca/psychology/

Memorial University of Newfoundland Undergraduate Calendar Change Proposal Form Cover Page

LIST OF CHANGES

Indicate the Calendar change(s) being proposed by checking and completing as appropriate:

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Signature of Dean/Vice-President: _____

Date: _____

Date of approval by Faculty/Academic Council: _____

Memorial University of Newfoundland Undergraduate Calendar Change Proposal Form Senate Summary Page for Courses

COURSE NUMBER AND TITLE

2006 Computer Networking

2007 Introduction to Information Management

2008 Social Issues and Professional Practice

RATIONALE

These courses are one credit hour courses that are co-requisites. Course workload and class schedules have been designed in such a way that enrollment in these three courses together should be similar to enrollment in one three credit hour course. Currently the pre- and co-requisites are different between 2006, 2007 and 2008 which causes confusion for students, and results in the need for a significant number of pre-requisite waivers. We would like to change the pre- and co-requisites to be the same for these three courses in an effort to increase consistency and clarity for students.

CALENDAR CHANGES

2006 Computer Networking introduces students to the use of programming interfaces for computer networking and to understand how the Internet works on the level of protocols. It focuses on the most commonly used of those protocols that are in the vast majority of modern computer systems.

CH: 1

CO: COMP 2004, COMP 2007, COMP 2008

CR: the former COMP 3715

PR: COMP 2001, COMP 2002

2007 Introduction to Information Management introduces the basic knowledge needed for managing large volumes of data. It covers topics in information management and database systems from storage and retrieval to security and privacy of data.

CH: 1

CO: COMP 2004, COMP 2006, COMP 2008

CR: the former COMP 3754

PR: COMP 2001, COMP 2002

2008 Social Issues and Professional Practice covers ethical and social considerations of computing to provide students with the basis to address these issues by ethical and technical actions. Case studies are used to illustrate ethical and social issues of computing.

CH: 1

CO: COMP 2004, COMP 2006, COMP 2007

CR: the former COMP 2760

PR: ~~COMP 1003~~ COMP 2001, COMP 2002

CALENDAR ENTRY AFTER CHANGES

2006 Computer Networking introduces students to the use of programming interfaces for computer networking and to understand how the Internet works on the level of protocols. It focuses on the most commonly used of those protocols that are in the vast majority of modern computer systems.

CH: 1

CO: COMP 2004, COMP 2007, COMP 2008

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CH: 1

CO: COMP 2004, COMP 2006, COMP 2007

CR: the former COMP 2760

PR: COMP 2001, COMP 2002

SECONDARY CALENDAR CHANGES

None

Memorial University of Newfoundland

Undergraduate Calendar Change Proposal Form

Appendix Page

CONSULTATIONS SOUGHT

Consultations Sought From	Comments Received
Academic Advising Centre	Asked about communication plan
Humanities and Social Sciences	
Business Administration	
Education	
Engineering and Applied Science	Queried whether Engineering students would be able to take course without standard pre-requisites in certain situations, as they have in the past
Grenfell Campus (Arts & Social Sciences)	
Grenfell Campus (Science and the Environment)	No concerns with the change
Grenfell Campus (Fine Arts)	
Human Kinetics and Recreation	No concerns with the change
Library	Proposed changes have no bearing on Library services
Marine Institute	
Medicine	
Music	No issue with the change
Nursing	
Pharmacy	
Social Work	
Science	
• Biochemistry	
• Biology	No issue with the change
• Chemistry	
• Earth Sciences	
• Geography	
• Mathematics and Statistics	
• Ocean Sciences	
• Physics and Physical Oceanography	

LIBRARY REPORT

Proposed changes have no bearing on Library services

RESOURCE IMPLICATIONS

None

ADDITIONAL INFORMATION REQUIRED FOR NEW COURSE PROPOSALS

Academic Advising Centre:

From: Cathy Hyde <cs-ugradadv@mun.ca>
Sent: Tuesday, November 24, 2020 4:51 PM
To: 'Pittman, Echo' <echop@mun.ca>
Subject: RE: Consultation on Calendar changes - Computer Science

Hi Echo,

My apologies for taking so long to respond.

3. Students can access the form from the undergrad tab of our website, they will not be able to submit the RO declaration form.
4. Communication will be through the updated Calendar and email to students.

Thanks,

Cathy Hyde, MSc | Manager of Academic Programs

Department of Computer Science

Memorial University of Newfoundland

www.mun.ca/computerscience/

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1. I do not see any issue
2. I do not see any issue
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5. I do not see any issue.

Echo

Echo Pittman, PhD

Associate Registrar (Academic Advising & Outreach)

Academic Advising Centre (Science Building: 4053)

Tel: (709) 864-3528

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Cathy Hyde, MSc | Manager of Academic Programs Department of Computer Science Memorial University of Newfoundland www.mun.ca/computerscience/

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To: Cathy Hyde <cs-ugradadv@mun.ca>

Cc: Jayde Edmunds <edmundsj@mun.ca>; Dennis Peters <dpeters@mun.ca>; Bruce Quinton <bruce.quinton@mun.ca>

Subject: Re: Consultation on Calendar changes - Computer Science

Dear Ms. Hyde,

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Some of the courses listed in your proposal are taken as technical electives by students in our Computer Engineering program. Our students have rarely met the stated prerequisites and have been "signed in" with prerequisite waivers. We trust that this practice will continue and that our compulsory course ECE 5100 "Probability and Random Processes" will be treated as satisfying the new statistics requirement in those Computer Science courses.

With this understanding, we are happy to support these proposed changes.

Yours sincerely,

Dr. Glyn George, Chair
Committee on Undergraduate Studies
Faculty of Engineering and Applied Science Memorial University of Newfoundland
St. John's NL A1B 3X5

Memorial University of Newfoundland Undergraduate Calendar Change Proposal Form Cover Page

LIST OF CHANGES

Indicate the Calendar change(s) being proposed by checking and completing as appropriate:

- ☐ New course(s):
- ☒ Amended or deleted course(s):
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Signature of Dean/Vice-President: _____

Date: _____

Date of approval by Faculty/Academic Council: _____

Memorial University of Newfoundland

Undergraduate Calendar Change Proposal Form

Senate Summary Page for Courses

COURSE NUMBER AND TITLE

3550 Introduction to Bioinformatics

RATIONALE

The pre-requisites for this course often cause confusion for students. We have updated the wording of the pre-requisites to be much clearer while achieving the same requirements as the previous (current Calendar) wording.

CALENDAR CHANGES

3550 Introduction to Bioinformatics (same as Biology 3951) deals with the development and application of computational methods to address biological problems. The course will focus on the fundamental concepts, ideas and related biological applications of existing bioinformatics tools. This course will provide hands-on experience in applying bioinformatics software tools and online databases to analyze experimental biological data, and it will also introduce scripting language tools typically used to automate some biological data analysis tasks.

CR: Biology 3951

LH: 3

~~PR: Biology 2060 or Biochemistry 2201 or the former 2101, and 3 credit hours in Computer Science courses at the 1000-level or above excluding COMP 1400, COMP 1401, COMP 1600 and COMP 2000; or COMP 2500 or the former COMP 2710 or COMP 2001, and 3 credit hours in Biology courses at the 1000-level or above excluding Biology 2040 and Biology 2041; or permission of the course instructor~~

Biology 1001; one of COMP 1001, 1002 or 1510; and
6 credit hours in Computer Science or Biology courses at the 2000 level or above,
excluding BIOL 2040, 2041 and 2120; or permission of the instructor

CALENDAR ENTRY AFTER CHANGES

3550 Introduction to Bioinformatics (same as Biology 3951) deals with the development and application of computational methods to address biological problems. The course will focus on the fundamental concepts, ideas and related biological applications of existing bioinformatics tools. This course will provide hands-on experience in applying bioinformatics software tools and online databases to analyze experimental biological data, and it will also introduce scripting language tools typically used to automate some biological data analysis tasks.

CR: Biology 3951

LH: 3

Biology 1001; one of COMP 1001, 1002 or 1510; and
6 credit hours in Computer Science or Biology courses at the 2000 level or above,
excluding BIOL 2040, 2041 and 2120; or permission of the instructor

SECONDARY CALENDAR CHANGES

3951 Introduction to Bioinformatics (same as Computer Science 3550) deals with the development and application of computational methods to address biological problems. The course will focus on the fundamental concepts, ideas and related biological applications of existing bioinformatics tools. This course will provide hands-on experience in applying bioinformatics software tools and online databases to analyze experimental biological data, and it will also introduce scripting language tools typically used to automate some biological data analysis tasks.

CR: Computer Science 3550

LH: 3

~~PR: BIOL 2060 or Biochemistry 2201 or the former 2101, and one Computer Science course at the 1000-level or above excluding Computer Science 1400, or Computer Science 1600 and Computer Science 2000; or Computer Science 2500 or Computer Science 2001, and one Biology course at the 1000-level or above excluding BIOL 2040 and BIOL 2041; or permission of the course instructor~~

Biology 1001; one of COMP 1001, 1002 or 1510; and
6 credit hours in Computer Science or Biology courses at the 2000 level or above,
excluding BIOL 2040, 2041 and 2120; or permission of the instructor

SECONDARY CALENDAR ENTRY AFTER CHANGES

3951 Introduction to Bioinformatics (same as Computer Science 3550) deals with the development and application of computational methods to address biological problems. The course will focus on the fundamental concepts, ideas and related biological applications of existing bioinformatics tools. This course will provide hands-on experience in applying bioinformatics software tools and online databases to analyze experimental biological data, and it will also introduce scripting language tools typically used to automate some biological data analysis tasks.

CR: Computer Science 3550

LH: 3

PR: Biology 1001; one of COMP 1001, 1002 or 1510; and
6 credit hours in Computer Science or Biology courses at the 2000 level or above,
excluding BIOL 2040, 2041 and 2120; or permission of the instructor

Memorial University of Newfoundland

Undergraduate Calendar Change Proposal Form

Appendix Page

CONSULTATIONS SOUGHT

Consultations Sought From	Comments Received
Academic Advising Centre	Asked about communication plan
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Education	
Engineering and Applied Science	Queried whether Engineering students would be able to take course without standard pre-requisites in certain situations, as they have in the past
Grenfell Campus (Arts & Social Sciences)	
Grenfell Campus (Science and the Environment)	Suggestion to include PR changes in cross-listed Biology course, questioned whether further course restrictions were needed in revised PR
Grenfell Campus (Fine Arts)	
Human Kinetics and Recreation	No concerns with the change
Library	Proposed changes have no bearing on Library services
Marine Institute	
Medicine	
Music	No issue with the change
Nursing	
Pharmacy	
Social Work	
Science	
<ul style="list-style-type: none"> Biochemistry 	
<ul style="list-style-type: none"> Biology 	Content with the PR changes to COMP 3550 (cross-listed course)
<ul style="list-style-type: none"> Chemistry 	
<ul style="list-style-type: none"> Earth Sciences 	
<ul style="list-style-type: none"> Geography 	
<ul style="list-style-type: none"> Mathematics and Statistics 	
<ul style="list-style-type: none"> Ocean Sciences 	
<ul style="list-style-type: none"> Physics and Physical Oceanography 	

LIBRARY REPORT

Proposed changes have no bearing on Library services

RESOURCE IMPLICATIONS

None

ADDITIONAL INFORMATION REQUIRED FOR NEW COURSE PROPOSALS

Appendix

Academic Advising Centre:

From: Cathy Hyde <cs-ugradadv@mun.ca>

Sent: Tuesday, November 24, 2020 4:51 PM

To: 'Pittman, Echo' <echop@mun.ca>

Subject: RE: Consultation on Calendar changes - Computer Science

Hi Echo,

My apologies for taking so long to respond.

3. Students can access the form from the undergrad tab of our website, they will not be able to submit the RO declaration form.

4. Communication will be through the updated Calendar and email to students.

Thanks,

Cathy Hyde, MSc | Manager of Academic Programs

Department of Computer Science

Memorial University of Newfoundland

www.mun.ca/computerscience/

From: Pittman, Echo <echop@mun.ca>
Sent: Tuesday, November 3, 2020 1:20 PM
To: cs-ugradadv@mun.ca
Subject: RE: Consultation on Calendar changes - Computer Science

Hi Cathy,

Thank you for sharing the CS proposed calendar change items with AAC. As we support first year students (Humanities & social sciences, science, and unspecified), students beyond first year who have not identified an academic home and students who plan to change their programs, I will comment on items 1 to 6 that are relevant to the student populations we support.

1. I do not see any issue
2. I do not see any issue
3. Where can students find such an application at the department's website? Would students be allowed to submit a copy of declaration form that can be found at the RO's website?
4. What is the department's communication plan for these changes? Would the department grant waivers for students who followed the university calendars prior to 2021-2022?
5. I do not see any issue.

Echo

Echo Pittman, PhD

Associate Registrar (Academic Advising & Outreach)

Academic Advising Centre (Science Building: 4053)

Tel: (709) 864-3528

Biology:

Subject:FW: Consultation on Calendar changes - Computer Science

Date:2020-11-02 09:48

From:Dean of Science <deansci@mun.ca>

To:Amina Ahmed Mahmood <aamahmood@mun.ca>, "Todd, Amy M." <amy.todd@mun.ca>, BiocDHundergrad <biocdhundergrad@mun.ca>, "Hyde, Cathy" <cathy@mun.ca>, Chemistry <chemconsult@mun.ca>, Computer Science consultation <compsci@mun.ca>, Earth Sciences <eascugcon@mun.ca>, James Munroe <jmunroe@mun.ca>, Mark Hatcher <mhatcher@mun.ca>, Math & Stats <mathconsult@mun.ca>, Ocean Sciences <amercier@mun.ca>, "Goulding, Rick" <rgoulding@mun.ca>, Psychology consult

<psychdeputyhead@mun.ca>, "Newhook, Rebecca" <newhook@mun.ca>, Sharene Bungay
<sharene@mun.ca>, Suzanne Dufour <sdufour@mun.ca>, "Mackenzie, Theresa"
<tmackenz@mun.ca>, "Fridgen, Travis" <tfridgen@mun.ca>

Hi Cathy,

The Biology Undergraduate Studies committee has reviewed the proposed calendar changes. We agree with the proposals, and welcome the simplification to the PR for our cross-listed course.

Best wishes,

Suzanne

-----Original Message-----

From: Lourdes Pena-Castillo <lourdes.pena@mun.ca>
Sent: Friday, November 13, 2020 10:52 AM
To: Hyde, Cathy <cathy@mun.ca>; Lourdes Pena-Castillo <lourdes@mun.ca>
Cc: Jody-Lynn Burke <jrotchford@mun.ca>
Subject: Re: COMP 3550 Calendar change

Hi Cathy and Jody,

Thanks! Cathy, you are right we are now requiring two Biology courses for CS students and two CS courses for Biology students, and that was not the intention. So, I have drafted the following as an update:

Biology 1001; one of COMP 1001, 1002 or 1510; and 6 credit hours in Computer Science or Biology courses at the 2000 level or above, excluding BIOL 2040, 2041 and 2120; or permission of the instructor.

Cheers,

Lourdes

On 2020-11-13 10:31 AM, Hyde, Cathy wrote:

> Hi Lourdes,
>

> I have a question about the proposed change to the COMP 3550 prerequisites.

>
> We drafted the following for the updated prerequisites:
>

> PR: Biology 1001 and 1002; two of COMP 1001, 1002 or 1510; and
>
> 6 credit hours in Computer Science or Biology courses at the 2000
> level or above; or permission of the instructor
>
> In the consultation process someone questioned whether we meant to
> allow

> Biol 2040 and 2041 to count for the “6 credit hours in...” part. I asked
> Jody about it and she thought that you probably don’t want those
> courses

> to count. Jodi drafted the following as an update:
>
> /Biology 1001 and 1002; two of COMP 1001, 1002 or 1510; and 6 credit
> hours in Computer Science or Biology courses at the 2000 level or
> above,

> _excluding BIOL 2040, 2041 and 2120_; or permission of the
> instructor./
>
> 1. Are you okay with us leaving the wording as is (which allows for
> Biol

> 2040 and 2041)?
>
> 2.If not, is Jody’s wording satisfactory?
>
> I will point out that if we leave the new wording and allow for
> 2040/2041 there are still more Biology requirements now than there
> were previously since the current Calendar PRs allow a student to take
> 3550 if they have just three credit hours in Biology along with COMP
> 2500/2710/2001 (now we are requiring Biol 1001 and 1002 in all cases).
>
> Thanks,
>
> *Cathy Hyde, MSc | Manager of Academic Programs, MSc*
>
> Department of Computer Science
>
> Memorial University of Newfoundland
>
> www.mun.ca/computerscience/ <<http://www.mun.ca/computerscience/>>
>

--

Lourdes Peña-Castillo, Ph.D.

Associate Professor
Departments of Computer Science, and Biology (joint), Faculty of Science Discipline of Genetics (cross),
Faculty of Medicine Memorial University of Newfoundland
Office: ER6037
Phone Nr.: (709) 864 - 6769
www.cs.mun.ca/~lourdes | she/her/hers

Engineering:

From: Cathy Hyde <cs-ugradadv@mun.ca>
Sent: Tuesday, November 24, 2020 3:39 PM
To: 'Engineering Consult' <engrconsult@mun.ca>
Subject: RE: Consultation on Calendar changes - Computer Science

Hi,

My apologies for how long it has taken to get back to you on this. I'm not aware of a formal process re: Engineering students enrolling in CS courses without PRs however, we will continue to accommodate Engineering as possible in future as we have in the past--these PR changes should not change that.

Thanks,

Cathy Hyde, MSc | Manager of Academic Programs Department of Computer Science Memorial University of Newfoundland www.mun.ca/computerscience/

-----Original Message-----

From: Engineering Consult <engrconsult@mun.ca>
Sent: Wednesday, November 4, 2020 4:19 PM
To: Cathy Hyde <cs-ugradadv@mun.ca>
Cc: Jayde Edmunds <edmundsj@mun.ca>; Dennis Peters <dpeters@mun.ca>; Bruce Quinton <bruce.quinton@mun.ca>
Subject: Re: Consultation on Calendar changes - Computer Science

Dear Ms. Hyde,

Thank you for the opportunity to comment on the 12 sets of proposed calendar changes to the Computer Science program.

This proposal arrived too late for October's meeting of the Committee on Undergraduate Studies of the Faculty of Engineering and Applied Science.

Some of the courses listed in your proposal are taken as technical electives by students in our Computer Engineering program. Our students have rarely met the stated prerequisites and have been "signed

in" with prerequisite waivers. We trust that this practice will continue and that our compulsory course ECE 5100 "Probability and Random Processes" will be treated as satisfying the new statistics requirement in those Computer Science courses.

With this understanding, we are happy to support these proposed changes.

Yours sincerely,

Dr. Glyn George, Chair
Committee on Undergraduate Studies
Faculty of Engineering and Applied Science Memorial University of Newfoundland
St. John's NL A1B 3X5

Grenfell Campus Science:

From: Bailey, Robert F. <rbailey@grenfell.mun.ca>
Sent: Monday, November 2, 2020 2:28 PM
To: cs-ugradadv@mun.ca
Cc: Piercey-Normore, Michele D <mpiercey-normore@grenfell.mun.ca>; Scott, Robert J. <rscott@grenfell.mun.ca>; Bennett, Sylvia S. <sylviab@grenfell.mun.ca>
Subject: RE: Consultation on Calendar changes - Computer Science

Dear Cathy,

The set of Calendar change proposals for Computer Science has been forwarded to me.

The proposed changes seem sensible to me and there is no impact of any of them on the School of Science and the Environment at Grenfell Campus. I have a couple of small comments:

1. In the change to the Calendar entry regarding the department's Undergraduate Handbook, retain the text "available from" (as that's the URL of the department website rather than the handbook itself).
2. In the proposed change to the prerequisites to COMP 3550, should the same change also be made to BIOL 3951 (given that the current Calendar entries are identical)? Also, was it intended to allow BIOL 2040 and 2041 to count as the "6 credit hours in Computer Science or Biology courses at the 2000 level or above"?

Thank you for the opportunity to comment on this proposal.

Regards,

Robert Bailey

Chair, Committee on Academic Programming

School of Science and the Environment

=====

Dr. Robert Bailey

Associate Professor, Mathematics

Chair, General Science program

School of Science and the Environment

Grenfell Campus

Memorial University of Newfoundland

Corner Brook, NL A2H 6P9, Canada

Memorial University of Newfoundland Undergraduate Calendar Change Proposal Form Cover Page

LIST OF CHANGES

Indicate the Calendar change(s) being proposed by checking and completing as appropriate:

- ☐ New course(s):
- ☒ Amended or deleted course(s):
- ☐ New program(s):
- ☐ Amended or deleted program(s):
- ☐ New, amended or deleted Glossary of Terms Used in the Calendar entries
- ☐ New, amended or deleted Admission/Readmission to the University (Undergraduate) regulations
- ☐ New, amended or deleted General Academic Regulations (Undergraduate)
- ☐ New, amended or deleted Faculty, School or Departmental regulations
- ☐ Other:

ADMINISTRATIVE AUTHORIZATION

By signing below, you are confirming that the attached Calendar changes have obtained all necessary Faculty/School approvals, and that the costs, if any, associated with these changes can be met from within the existing budget allocation or authorized new funding for the appropriate academic unit.

Signature of Dean/Vice-President: _____

Date: _____

Date of approval by Faculty/Academic Council: _____

Memorial University of Newfoundland Undergraduate Calendar Change Proposal Form Senate Summary Page for Courses

COURSE NUMBER AND TITLE

3602 Introduction to the Theory of Computation

RATIONALE

The current pre-requisite for COMP 3602 is incomplete. The former COMP 2711 needs to be included in the pre-requisite list because this course is always an acceptable substitute for COMP 2002. Updating the course pre-requisites to include the former COMP 2711 will add clarity for students and it will mean less pre-requisite waivers required.

CALENDAR CHANGES

3602 Introduction to the Theory of Computation

examines various models of computation and their computational power. Several measures of a problem's computational difficulty will be discussed.

CR: the former COMP 3719

PR: COMP 2002 or the former COMP 2711

CALENDAR ENTRY AFTER CHANGES

3602 Introduction to the Theory of Computation

examines various models of computation and their computational power. Several measures of a problem's computational difficulty will be discussed.

CR: the former COMP 3719

PR: COMP 2002 or the former COMP 2711

SECONDARY CALENDAR CHANGES

None

Memorial University of Newfoundland

Undergraduate Calendar Change Proposal Form

Appendix Page

CONSULTATIONS SOUGHT

Consultations Sought From	Comments Received
Academic Advising Centre	Asked about communication plan
Humanities and Social Sciences	
Business Administration	
Education	
Engineering and Applied Science	Queried whether Engineering students would be able to take course without standard pre-requisites in certain situations, as they have in the past
Grenfell Campus (Arts & Social Sciences)	
Grenfell Campus (Science and the Environment)	No concerns with the change
Grenfell Campus (Fine Arts)	
Human Kinetics and Recreation	No concerns with the change
Library	Proposed changes have no bearing on Library services
Marine Institute	
Medicine	
Music	No issue with the change
Nursing	
Pharmacy	
Social Work	
Science	
• Biochemistry	
• Biology	No issue with the change
• Chemistry	
• Earth Sciences	
• Geography	
• Mathematics and Statistics	
• Ocean Sciences	
• Physics and Physical Oceanography	

LIBRARY REPORT

Proposed changes have no bearing on Library services

RESOURCE IMPLICATIONS

None

ADDITIONAL INFORMATION REQUIRED FOR NEW COURSE PROPOSALS

Academic Advising Centre:

From: Cathy Hyde <cs-ugradadv@mun.ca>
Sent: Tuesday, November 24, 2020 4:51 PM
To: 'Pittman, Echo' <echop@mun.ca>
Subject: RE: Consultation on Calendar changes - Computer Science

Hi Echo,

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3. Students can access the form from the undergrad tab of our website, they will not be able to submit the RO declaration form.
4. Communication will be through the updated Calendar and email to students.

Thanks,

Cathy Hyde, MSc | Manager of Academic Programs

Department of Computer Science

Memorial University of Newfoundland

www.mun.ca/computerscience/

From: Pittman, Echo <echop@mun.ca>
Sent: Tuesday, November 3, 2020 1:20 PM
To: cs-ugradadv@mun.ca
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Echo

Echo Pittman, PhD

Associate Registrar (Academic Advising & Outreach)

Academic Advising Centre (Science Building: 4053)

Tel: (709) 864-3528

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From: Cathy Hyde <cs-ugradadv@mun.ca>

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This proposal arrived too late for October's meeting of the Committee on Undergraduate Studies of the Faculty of Engineering and Applied Science.

Some of the courses listed in your proposal are taken as technical electives by students in our Computer Engineering program. Our students have rarely met the stated prerequisites and have been "signed in" with prerequisite waivers. We trust that this practice will continue and that our compulsory course ECE 5100 "Probability and Random Processes" will be treated as satisfying the new statistics requirement in those Computer Science courses.

With this understanding, we are happy to support these proposed changes.

Yours sincerely,

Dr. Glyn George, Chair
Committee on Undergraduate Studies
Faculty of Engineering and Applied Science Memorial University of Newfoundland
St. John's NL A1B 3X5

Memorial University of Newfoundland Undergraduate Calendar Change Proposal Form Cover Page

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Memorial University of Newfoundland

Undergraduate Calendar Change Proposal Form

Senate Summary Page for Courses

COURSE NUMBER AND TITLE

3200 Algorithmic Techniques for Artificial Intelligence
3202 Introduction to Machine Learning
3401 Introduction to Data Mining
4550 Bioinformatics: Biological Data Analysis
4766 Introduction to Autonomous Robotics

RATIONALE

We are proposing to change the statistics pre-requisite for Computer Science courses. Currently the pre-requisite is “Statistics 2550 or any of the courses listed in the credit restrictions of Statistics 2550”, we would like to change this to be “Statistics 2500 or Statistics 2550”. Both Statistics 2500 and 2550 cover statistics material relevant for the applicable Computer Science courses, however, some of the courses that are credit-restricted with 2550 may not.

CALENDAR CHANGES

3200 Algorithmic Techniques for Artificial Intelligence covers basic algorithmic techniques and data structures that are used to embed basic intelligent behaviors, such as problem solving, reasoning and learning in software systems and agents.

CR: the former COMP 4753

PR: COMP 2001 or the former COMP 2710, COMP 2002 or the former COMP 2711, and Statistics 2500 or Statistics 2550 ~~Statistics 2550 or any of the courses listed in the credit restrictions of Statistics 2550~~

3202 Introduction to Machine Learning introduces concepts and algorithms in machine learning for regression and classification tasks. The course gives the student the basic ideas and intuition behind model selection and evaluation, and selected machine learning methods such as random forests, support vector machines, and hidden Markov models.

PR: COMP 3200; or COMP 2001 or the former COMP 2710, COMP 2002 or the former COMP 2711, and Statistics 2500 or Statistics 2550 ~~Statistics 2550 or any of the courses listed in the credit restrictions of Statistics 2550~~; and Mathematics 2050

3401 Introduction to Data Mining introduces students to the basic concepts and techniques for data mining and knowledge discovery. Students will develop an understanding of the essential data mining technologies, and be able to design and evaluate methods for simple data mining applications.

PR: COMP 2002 or the former COMP 2711, COMP 2007 or the former COMP 3754, and Statistics 2500 or Statistics 2550 ~~Statistics 2550 or any of the courses listed in the credit restrictions of Statistics 2550~~

4550 Bioinformatics: Biological Data Analysis (same as Biology 4606) provides students with the basis to analyse a variety of biological data within an integrated programming environment for data manipulation, calculation and graphical display. Students will learn to extract meaningful information from data generated by high-throughput experimentation. The course will introduce one such integrated programming environment and will explore the computational and statistical foundations of the most commonly used biological data analysis procedures.

CR: Biology 4606

LH: 3

PR: Biology 3951 or COMP 3550, and Statistics 2500 or Statistics 2550 ~~Statistics 2550 (or equivalent), or permission of the course instructor~~

4766 Introduction to Autonomous Robotics examines the fundamental constraints, technologies, and algorithms of autonomous robotics. The focus of this course will be on computational aspects of autonomous wheeled mobile robots. The following topics will be covered: major paradigms in robotics, methods of locomotion, kinematics, simple control systems, sensor technologies, stereo vision, feature extraction, modelling uncertainty of sensors and positional information, localization, SLAM, obstacle avoidance, and 2-D path planning.

LH: 3

PR: COMP 2002 or the former COMP 2711, Mathematics 2000, Mathematics 2050, and Statistics 2500 or Statistics 2550 ~~Statistics 2550 or any of the courses listed in the credit restrictions of Statistics 2550~~

CALENDAR ENTRY AFTER CHANGES

3200 Algorithmic Techniques for Artificial Intelligence covers basic algorithmic techniques and data structures that are used to embed basic intelligent behaviors, such as problem solving, reasoning and learning in software systems and agents.

CR: the former COMP 4753

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3202 Introduction to Machine Learning introduces concepts and algorithms in machine learning for regression and classification tasks. The course gives the student the basic ideas and intuition behind model selection and evaluation, and selected machine learning methods such as random forests, support vector machines, and hidden Markov models.

PR: COMP 3200; or COMP 2001 or the former COMP 2710, COMP 2002 or the former COMP 2711, and Statistics 2500 or Statistics 2550; and Mathematics 2050

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LH: 3

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SECONDARY CALENDAR CHANGES

None

Memorial University of Newfoundland

Undergraduate Calendar Change Proposal Form

Appendix Page

CONSULTATIONS SOUGHT

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LIBRARY REPORT

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RESOURCE IMPLICATIONS

None

ADDITIONAL INFORMATION REQUIRED FOR NEW COURSE PROPOSALS

Academic Advising Centre:

From: Cathy Hyde <cs-ugradadv@mun.ca>

Sent: Tuesday, November 24, 2020 4:51 PM

To: 'Pittman, Echo' <echop@mun.ca>

Subject: RE: Consultation on Calendar changes - Computer Science

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www.mun.ca/computerscience/

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Associate Registrar (Academic Advising & Outreach)

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Yours sincerely,

Dr. Glyn George, Chair
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Faculty of Engineering and Applied Science Memorial University of Newfoundland
St. John's NL A1B 3X5

Memorial University of Newfoundland Undergraduate Calendar Change Proposal Form Cover Page

LIST OF CHANGES

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ADMINISTRATIVE AUTHORIZATION

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Signature of Dean/Vice-President: _____

Date: _____

Date of approval by Faculty/Academic Council: _____

Memorial University of Newfoundland Undergraduate Calendar Change Proposal Form Senate Summary Page for Programs

PROGRAM TITLE

Major in Computer Science

Major in Computer Science (Smart Systems)

Major in Computer Science (Visual Computing and Games)

Honours in Computer Science

Honours in Computer Science (Software Engineering)

RATIONALE

We submitted a separate Calendar change to update the Compute Science course Statistics pre-requisites, this change is to update the Computer Science program's required Statistics course to be consistent with the updated Computer Science course pre-requisites.

CALENDAR CHANGES

11.4.3 Major in Computer Science

As a component of the **Degree Regulations** for the General Degree of Bachelor of Science or the **Degree Regulations** for the General Degree of Bachelor of Arts, as appropriate, a student must successfully complete the following courses:

1. Forty-five credit hours in Computer Science courses are required for a major in Computer Science:
 - a. Computer Science 1001, 1002, 1003, 2001, 2002, 2003, 2004, 2005, 2006, 2007, and 2008.
 - b. At least 6 additional credit hours in Computer Science at the 4000 level.
 - c. Twelve additional credit hours in Computer Science at the 3000 level or beyond.
2. Additional courses required are: Mathematics 1000, 1001, 2000, 2050, and Statistics 2500 or 2550 ~~1510 or 2550~~.

11.4.4 Major in Computer Science (Smart Systems) (B.Sc. only)

As a component of the **Degree Regulations** for the General Degree of Bachelor of Science a student must successfully complete the following courses:

1. Forty-five credit hours in Computer Science courses are required for a major in Computer Science (Smart Systems):

- a. Computer Science 1001, 1002, 1003, 2001, 2002, 2003, 2004, 2005, 2006, 2007, and 2008;
 - b. Computer Science 3200, 3201, 3202 and 3301; and
 - c. Six additional credit hours in Computer Science courses selected from Computer Science 3401, 3550, 4301, 4303, 4750, 4766.
2. Additional courses required are: Mathematics 1000, 1001, 2000, 2050, and Statistics 2500 or 2550 ~~1510 or 2550~~.

11.4.5 Major in Computer Science (Visual Computing and Games) (B.Sc. only)

As a component of the **Degree Regulations** for the General Degree of Bachelor of Science a student must successfully complete the following courses:

1. Forty-five credit hours in Computer Science courses are required for a major in Computer Science (Visual Computing and Games):
 - a. Computer Science 1001, 1002, 1003, 2001, 2002, 2003, 2004, 2005, 2006, 2007, and 2008;
 - b. Computer Science 3300, 3301, and 4300;
 - c. Six additional credit hours in Computer Science courses selected from Computer Science 2300, 3200, 4301, 4302, 4303, 4304; and
 - d. Three additional credit hours in Computer Science courses selected from those listed in c. above, or Computer Science 2100, 4766, 4768.
2. Additional courses required are: Mathematics 1000, 1001, 2000, 2050, and Statistics 2500 or 2550 ~~1510 or 2550~~.

11.4.6 Honours in Computer Science

1. See **Bachelor of Arts (Honours) Degree Regulations** or **Degree Regulations** for the Honours Degree of Bachelor of Science (as appropriate).
2. Sixty-three credit hours in Computer Science courses are required for the Honours Degree in Computer Science, including:
 - a. Computer Science 1001, 1002, 1003, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, and 4780.
 - b. Fifteen additional credit hours in Computer Science at the 4000 level.
 - c. Eighteen additional credit hours in Computer Science courses at the 3000 level or beyond.
3. Additional courses required are: Mathematics 1000, 1001, 2000, 2050, and Statistics 2500 or 2550 ~~1510 or 2550~~.

11.4.7 Honours in Computer Science (Software Engineering) (B.Sc. Only)

Completion of the Honours in Computer Science (Software Engineering) Program does not qualify persons to hold the designation "Professional Engineer" as defined by various Provincial Acts governing the Engineering Profession.

1. See **Degree Regulations** for the Honours Degree of Bachelor of Science.

2. Sixty-three credit hours in Computer Science courses are required for the Honours Degree in Computer Science (Software Engineering), including:
 - a. Computer Science 1001, 1002, 1003, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 4770, 4780.
 - b. Nine additional credit hours in Computer Science chosen from 4718, 4721, 4723, the former 4751, the former 4753, the former 4756, 4759, 4766, and 4768.
 - c. Nine additional credit hours in Computer Science at the 4000 level.
 - d. Twelve additional credit hours in Computer Science at the 3000 level or beyond.
3. Additional courses required are: Mathematics 1000, 1001, 2000, 2050, and Statistics 2500 or 2550 ~~4510 or 2550~~.

CALENDAR ENTRY AFTER CHANGES

11.4.3 Major in Computer Science

As a component of the **Degree Regulations** for the General Degree of Bachelor of Science or the **Degree Regulations** for the General Degree of Bachelor of Arts, as appropriate, a student must successfully complete the following courses:

3. Forty-five credit hours in Computer Science courses are required for a major in Computer Science:
 - a. Computer Science 1001, 1002, 1003, 2001, 2002, 2003, 2004, 2005, 2006, 2007, and 2008.
 - b. At least 6 additional credit hours in Computer Science at the 4000 level.
 - c. Twelve additional credit hours in Computer Science at the 3000 level or beyond.
4. Additional courses required are: Mathematics 1000, 1001, 2000, 2050, and Statistics 2500 or 2550.

11.4.4 Major in Computer Science (Smart Systems) (B.Sc. only)

As a component of the **Degree Regulations** for the General Degree of Bachelor of Science a student must successfully complete the following courses:

3. Forty-five credit hours in Computer Science courses are required for a major in Computer Science (Smart Systems):
 - a. Computer Science 1001, 1002, 1003, 2001, 2002, 2003, 2004, 2005, 2006, 2007, and 2008;
 - b. Computer Science 3200, 3201, 3202 and 3301; and
 - c. Six additional credit hours in Computer Science courses selected from Computer Science 3401, 3550, 4301, 4303, 4750, 4766.
4. Additional courses required are: Mathematics 1000, 1001, 2000, 2050, and Statistics 2500 or 2550.

11.4.5 Major in Computer Science (Visual Computing and Games) (B.Sc. only)

As a component of the **Degree Regulations** for the General Degree of Bachelor of Science a student must successfully complete the following courses:

3. Forty-five credit hours in Computer Science courses are required for a major in Computer Science (Visual Computing and Games):
 - a. Computer Science 1001, 1002, 1003, 2001, 2002, 2003, 2004, 2005, 2006, 2007, and 2008;
 - b. Computer Science 3300, 3301, and 4300;
 - c. Six additional credit hours in Computer Science courses selected from Computer Science 2300, 3200, 4301, 4302, 4303, 4304; and
 - d. Three additional credit hours in Computer Science courses selected from those listed in c. above, or Computer Science 2100, 4766, 4768.
4. Additional courses required are: Mathematics 1000, 1001, 2000, 2050, and Statistics 2500 or 2550.

11.4.6 Honours in Computer Science

4. See **Bachelor of Arts (Honours) Degree Regulations** or **Degree Regulations** for the Honours Degree of Bachelor of Science (as appropriate).
5. Sixty-three credit hours in Computer Science courses are required for the Honours Degree in Computer Science, including:
 - a. Computer Science 1001, 1002, 1003, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, and 4780.
 - b. Fifteen additional credit hours in Computer Science at the 4000 level.
 - c. Eighteen additional credit hours in Computer Science courses at the 3000 level or beyond.
6. Additional courses required are: Mathematics 1000, 1001, 2000, 2050, and Statistics 2500 or 2550.

11.4.7 Honours in Computer Science (Software Engineering) (B.Sc. Only)

Completion of the Honours in Computer Science (Software Engineering) Program does not qualify persons to hold the designation "Professional Engineer" as defined by various Provincial Acts governing the Engineering Profession.

4. See **Degree Regulations** for the Honours Degree of Bachelor of Science.
5. Sixty-three credit hours in Computer Science courses are required for the Honours Degree in Computer Science (Software Engineering), including:
 - a. Computer Science 1001, 1002, 1003, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 4770, 4780.
 - b. Nine additional credit hours in Computer Science chosen from 4718, 4721, 4723, the former 4751, the former 4753, the former 4756, 4759, 4766, and 4768.
 - c. Nine additional credit hours in Computer Science at the 4000 level.

- d. Twelve additional credit hours in Computer Science at the 3000 level or beyond.
- 6. Additional courses required are: Mathematics 1000, 1001, 2000, 2050, and Statistics 2500 or 2550.

Memorial University of Newfoundland

Undergraduate Calendar Change Proposal Form

Appendix Page

CONSULTATIONS SOUGHT

Consultations Sought From	Comments Received
Academic Advising Centre	No issue with the change
Humanities and Social Sciences	
Business Administration	
Education	
Engineering and Applied Science	No concerns with the change
Grenfell Campus (Arts & Social Sciences)	
Grenfell Campus (Science and the Environment)	No concerns with the change
Grenfell Campus (Fine Arts)	
Human Kinetics and Recreation	No concerns with the change
Library	Proposed changes have no bearing on Library services
Marine Institute	
Medicine	
Music	No issue with the change
Nursing	
Pharmacy	
Social Work	
Science	
• Biochemistry	
• Biology	No issue with the change
• Chemistry	
• Earth Sciences	
• Geography	
• Mathematics and Statistics	
• Ocean Sciences	
• Physics and Physical Oceanography	

LIBRARY REPORT

Proposed changes have no bearing on Library services

RESOURCE IMPLICATIONS

None

ADDITIONAL INFORMATION REQUIRED FOR NEW COURSE PROPOSALS

N/A

Memorial University of Newfoundland Undergraduate Calendar Change Proposal Form Cover Page

LIST OF CHANGES

Indicate the Calendar change(s) being proposed by checking and completing as appropriate:

- ☐ New course(s):
- ☐ Amended or deleted course(s):
- ☐ New program(s):
- ☐ Amended or deleted program(s):
- ☐ New, amended or deleted Glossary of Terms Used in the Calendar entries
- ☐ New, amended or deleted Admission/Readmission to the University (Undergraduate) regulations
- ☐ New, amended or deleted General Academic Regulations (Undergraduate)
- ☐ New, amended or deleted Faculty, School or Departmental regulations
- ☒ Other: Change reference to Computer Science undergraduate handbook location

ADMINISTRATIVE AUTHORIZATION

By signing below, you are confirming that the attached Calendar changes have obtained all necessary Faculty/School approvals, and that the costs, if any, associated with these changes can be met from within the existing budget allocation or authorized new funding for the appropriate academic unit.

Signature of Dean/Vice-President: _____

Date: _____

Date of approval by Faculty/Academic Council: _____

Memorial University of Newfoundland Undergraduate Calendar Change Proposal Form Senate Summary Page for Programs

PROGRAM TITLE

11.4.12 Undergraduate Handbook

RATIONALE

We would like to remove a reference to the Computer Science undergraduate handbook being available from the general office since we no longer print this document.

CALENDAR CHANGES

11.4.12 Undergraduate Handbook

Additional information about the undergraduate Computer Science programs and courses can be found in the Computer Science Undergraduate Handbook available from ~~the General Office, Department of Computer Science or~~ www.mun.ca/computerscience/.

CALENDAR ENTRY AFTER CHANGES

11.4.12 Undergraduate Handbook

Additional information about the undergraduate Computer Science programs and courses can be found in the Computer Science Undergraduate Handbook available from www.mun.ca/computerscience/.

Memorial University of Newfoundland

Undergraduate Calendar Change Proposal Form

Appendix Page

CONSULTATIONS SOUGHT

Consultations Sought From	Comments Received
Academic Advising Centre	No issue with the change
Humanities and Social Sciences	
Business Administration	
Education	
Engineering and Applied Science	
Grenfell Campus (Arts & Social Sciences)	
Grenfell Campus (Science and the Environment)	Small wording suggestion
Grenfell Campus (Fine Arts)	
Human Kinetics and Recreation	No concerns with the change
Library	Proposed changes have no bearing on Library services
Marine Institute	
Medicine	
Music	No issue with the change
Nursing	
Pharmacy	
Social Work	
Science	
• Biochemistry	
• Biology	No issue with the change
• Chemistry	
• Earth Sciences	
• Geography	
• Mathematics and Statistics	
• Ocean Sciences	
• Physics and Physical Oceanography	

LIBRARY REPORT

Proposed changes have no bearing on Library services

RESOURCE IMPLICATIONS

There are no resource implications associated with this change.

ADDITIONAL INFORMATION REQUIRED FOR NEW COURSE PROPOSALS

From: Bailey, Robert F. <rbailey@grenfell.mun.ca>

Sent: Monday, November 2, 2020 2:28 PM

To: cs-ugradadv@mun.ca

Cc: Piercey-Normore, Michele D <mpiercey-normore@grenfell.mun.ca>; Scott, Robert J. <rscott@grenfell.mun.ca>; Bennett, Sylvia S. <sylviab@grenfell.mun.ca>

Subject: RE: Consultation on Calendar changes - Computer Science

Dear Cathy,

The set of Calendar change proposals for Computer Science has been forwarded to me.

The proposed changes seem sensible to me and there is no impact of any of them on the School of Science and the Environment at Grenfell Campus. I have a couple of small comments:

1. In the change to the Calendar entry regarding the department's Undergraduate Handbook, retain the text "available from" (as that's the URL of the department website rather than the handbook itself).
2. In the proposed change to the prerequisites to COMP 3550, should the same change also be made to BIOL 3951 (given that the current Calendar entries are identical)? Also, was it intended to allow BIOL 2040 and 2041 to count as the "6 credit hours in Computer Science or Biology courses at the 2000 level or above"?

Thank you for the opportunity to comment on this proposal.

Regards,

Robert Bailey

Chair, Committee on Academic Programming

School of Science and the Environment

Academic Advising Centre:

From: Pittman, Echo <echop@mun.ca>
Sent: Tuesday, November 3, 2020 1:20 PM
To: cs-ugradadv@mun.ca
Subject: RE: Consultation on Calendar changes - Computer Science

Hi Cathy,

Thank you for sharing the CS proposed calendar change items with AAC. As we support first year students (Humanities & social sciences, science, and unspecified), students beyond first year who have not identified an academic home and students who plan to change their programs, I will comment on items 1 to 6 that are relevant to the student populations we support.

1. I do not see any issue
2. I do not see any issue
3. Where can students find such an application at the department's website? Would students be allowed to submit a copy of declaration form that can be found at the RO's website?
4. What is the department's communication plan for these changes? Would the department grant waivers for students who followed the university calendars prior to 2021-2022?
5. I do not see any issue.

Echo

Echo Pittman, PhD

Associate Registrar (Academic Advising & Outreach)

Academic Advising Centre (Science Building: 4053)

Tel: (709) 864-3528



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Download Navigate for students now
www.mun.ca/success

****It is the student's responsibility to ensure that they are registered for the appropriate courses. The [University Calendar](#) is the final authority on university regulations. Please check the information above with those regulations.****

This communication is intended for the use of the recipient to whom it is addressed, and may contain confidential, personal, and/or privileged information. Please contact the sender by reply email immediately if you are not the intended recipient of this communication, and do not copy, distribute, or take action relying on it. Any communication received in error should be deleted or destroyed.

From: Academic Advising Centre <advice@mun.ca>
Sent: Friday, October 30, 2020 1:30 PM
To: Pittman, Echo <echop@mun.ca>
Subject: FW: Consultation on Calendar changes - Computer Science

From: Cathy Hyde <cs-ugradadv@mun.ca>
Sent: Friday, October 30, 2020 1:18 PM
To: Dean of Science <deansci@mun.ca>; Faculty of Humanities and Social Sciences <hss@mun.ca>; Shannahan, Rachelle <rshannahan@mun.ca>; Collett, Meghan <mcollett@mun.ca>; engrconsult@mun.ca; Rohr, Linda <lerohr@mun.ca>; miugconsultations@mi.mun.ca; deanofmedicine@med.mun.ca; Sutherland, Ian D <isutherland@mun.ca>; DeanNurse <DeanNurse@mun.ca>; pharminfo@mun.ca; adeanugradswk <adeanugradswk@mun.ca>; Library Correspondence <univlib@mun.ca>; Academic Advising Centre <advice@mun.ca>; kjacobse@grenfell.mun.ca; ssedean@grenfell.mun.ca; thennessey@grenfell.mun.ca
Cc: 'Mark Hatcher' <mhatcher@mun.ca>
Subject: Consultation on Calendar changes - Computer Science

Hi,

I am writing to extend an opportunity for you to provide formal feedback on the attached Calendar change proposals. I have attached 12 proposals relating to:

1. Adding a link to the Calendar CRW page from the Computer Science admissions section
2. Changing the reference to the CS Undergraduate Handbook
3. Changing the reference to the Computer Science major application form
4. Changing prerequisites for COMP 2006/7/8, 3201, 3550, 3602, 4304
5. Changing the Statistics prerequisite for Computer Science courses
6. Changing the Statistics course requirement for Computer Science programs
7. Changing wording related to the required dissertation for Computer Science joint programs with Geography, Pure Math and Statistics
8. Removing references to the option of a supplementary exam in Computer Science courses

If you have any comments on these proposed calendar changes please send them to me: cs-ugradadv@mun.ca.

Thank you,

Cathy Hyde, MSc | Manager of Academic Programs

Department of Computer Science

Memorial University of Newfoundland

www.mun.ca/computerscience/

Grenfell Campus Science:

From: Bailey, Robert F. <rbailey@grenfell.mun.ca>

Sent: Monday, November 2, 2020 2:28 PM

To: cs-ugradadv@mun.ca

Cc: Piercey-Normore, Michele D <mpiercey-normore@grenfell.mun.ca>; Scott, Robert J. <rscott@grenfell.mun.ca>; Bennett, Sylvia S. <sylviab@grenfell.mun.ca>

Subject: RE: Consultation on Calendar changes - Computer Science

Dear Cathy,

The set of Calendar change proposals for Computer Science has been forwarded to me.

The proposed changes seem sensible to me and there is no impact of any of them on the School of Science and the Environment at Grenfell Campus. I have a couple of small comments:

1. In the change to the Calendar entry regarding the department's Undergraduate Handbook, retain the text "available from" (as that's the URL of the department website rather than the handbook itself).
2. In the proposed change to the prerequisites to COMP 3550, should the same change also be made to BIOL 3951 (given that the current Calendar entries are identical)? Also, was it intended to allow BIOL 2040 and 2041 to count as the "6 credit hours in Computer Science or Biology courses at the 2000 level or above"?

Thank you for the opportunity to comment on this proposal.

Regards,

Robert Bailey

Chair, Committee on Academic Programming

School of Science and the Environment

=====

Dr. Robert Bailey

Associate Professor, Mathematics

Chair, General Science program

School of Science and the Environment

Grenfell Campus

Memorial University of Newfoundland

Corner Brook, NL A2H 6P9, Canada

Memorial University of Newfoundland Undergraduate Calendar Change Proposal Form Cover Page

LIST OF CHANGES

Indicate the Calendar change(s) being proposed by checking and completing as appropriate:

- ☐ New course(s):
- ☐ Amended or deleted course(s):
- ☐ New program(s):
- ☐ Amended or deleted program(s):
- ☐ New, amended or deleted Glossary of Terms Used in the Calendar entries
- ☐ New, amended or deleted Admission/Readmission to the University (Undergraduate) regulations
- ☐ New, amended or deleted General Academic Regulations (Undergraduate)
- ☐ New, amended or deleted Faculty, School or Departmental regulations
- ☒ Other: Add reference to Computer Science online major application form

ADMINISTRATIVE AUTHORIZATION

By signing below, you are confirming that the attached Calendar changes have obtained all necessary Faculty/School approvals, and that the costs, if any, associated with these changes can be met from within the existing budget allocation or authorized new funding for the appropriate academic unit.

Signature of Dean/Vice-President: _____

Date: _____

Date of approval by Faculty/Academic Council: _____

Memorial University of Newfoundland Undergraduate Calendar Change Proposal Form Senate Summary Page for Programs

PROGRAM TITLE

11.4.1 Admission to Major Programs

RATIONALE

We would like to include a reference to the Computer Science online major admission form located on the departmental website. Students regularly inquire as to the location of this form, updating the Calendar should mean students are better able to find this information on their own. We would like the website to be linked from “Computer Science Department’s website” www.mun.ca/computerscience (see yellow highlight below).

CALENDAR CHANGES

11.4.1 Admission to Major Programs

Admission to the Major programs in the Department of Computer Science is competitive and selective. Students who wish to enter these programs must submit a completed application form to the Department of Computer Science by June 1 for Fall semester registration. The online application form is located on the [Computer Science Department’s website](http://www.mun.ca/computerscience).

To be eligible for admission students must have normally completed 24 credit hours as listed below:

1. Computer Science 1001, 1002.
2. Six credit hours in Critical Reading and Writing (CRW) courses, including at least 3 credit hours in English courses.
3. Mathematics 1000 and 1001 (or 1090 and 1000).
4. Six credit hours in other courses.

Students who fulfill the eligibility requirements compete for a limited number of available spaces. Selection is based on academic performance, normally cumulative average and performance in recent courses.

CALENDAR ENTRY AFTER CHANGES

11.4.1 Admission to Major Programs

Admission to the Major programs in the Department of Computer Science is competitive and selective. Students who wish to enter these programs must submit a completed application form to the Department of Computer Science by June 1 for Fall semester

registration. The online application form is located on the [Computer Science Department's website](#).

To be eligible for admission students must have normally completed 24 credit hours as listed below:

1. Computer Science 1001, 1002.
2. Six credit hours in Critical Reading and Writing (CRW) courses, including at least 3 credit hours in English courses.
3. Mathematics 1000 and 1001 (or 1090 and 1000).
4. Six credit hours in other courses.

Students who fulfill the eligibility requirements compete for a limited number of available spaces. Selection is based on academic performance, normally cumulative average and performance in recent courses.

Memorial University of Newfoundland

Undergraduate Calendar Change Proposal Form

Appendix Page

CONSULTATIONS SOUGHT

Consultations Sought From	Comments Received
Academic Advising Centre	Asked location of application form, and whether Registrar's Office form could be submitted in addition to the online CS form
Humanities and Social Sciences	
Business Administration	
Education	
Engineering and Applied Science	Queried whether Engineering students would be able to take course without standard pre-requisites in certain situations, as they have in the past
Grenfell Campus (Arts & Social Sciences)	
Grenfell Campus (Science and the Environment)	No concerns with the change
Grenfell Campus (Fine Arts)	
Human Kinetics and Recreation	No concerns with the change
Library	Proposed changes have no bearing on Library services
Marine Institute	
Medicine	
Music	No issue with the change
Nursing	
Pharmacy	
Social Work	
Science	
• Biochemistry	
• Biology	No issue with the change
• Chemistry	
• Earth Sciences	
• Geography	
• Mathematics and Statistics	
• Ocean Sciences	
• Physics and Physical Oceanography	
FoSCUGS	Suggestion to link to CS departmental website

LIBRARY REPORT

Proposed changes have no bearing on Library services

RESOURCE IMPLICATIONS

There are no resource implications associated with this change.

ADDITIONAL INFORMATION REQUIRED FOR NEW COURSE PROPOSALS

Academic Advising Centre:

From: Cathy Hyde <cs-ugradadv@mun.ca>

Sent: Tuesday, November 24, 2020 4:51 PM

To: 'Pittman, Echo' <echop@mun.ca>

Subject: RE: Consultation on Calendar changes - Computer Science

Hi Echo,

My apologies for taking so long to respond.

3. Students can access the form from the undergrad tab of our website, they will not be able to submit the RO declaration form.

4. Communication will be through the updated Calendar and email to students.

Thanks,

Cathy Hyde, MSc | Manager of Academic Programs

Department of Computer Science

Memorial University of Newfoundland

www.mun.ca/computerscience/

From: Pittman, Echo <echop@mun.ca>

Sent: Tuesday, November 3, 2020 1:20 PM

To: cs-ugradadv@mun.ca

Subject: RE: Consultation on Calendar changes - Computer Science

Hi Cathy,

Thank you for sharing the CS proposed calendar change items with AAC. As we support first year students (Humanities & social sciences, science, and unspecified), students beyond first year who have not identified an academic home and students who plan to change their programs, I will comment on items 1 to 6 that are relevant to the student populations we support.

1. I do not see any issue
2. I do not see any issue
3. Where can students find such an application at the department's website? Would students be allowed to submit a copy of declaration form that can be found at the RO's website?
4. What is the department's communication plan for these changes? Would the department grant waivers for students who followed the university calendars prior to 2021-2022?
5. I do not see any issue.

Echo

Echo Pittman, PhD

Associate Registrar (Academic Advising & Outreach)

Academic Advising Centre (Science Building: 4053)

Tel: (709) 864-3528

Memorial University of Newfoundland Undergraduate Calendar Change Proposal Form Cover Page

LIST OF CHANGES

Indicate the Calendar change(s) being proposed by checking and completing as appropriate:

- ☐ New course(s):
- ☐ Amended or deleted course(s):
- ☐ New program(s):
- ☐ Amended or deleted program(s):
- ☐ New, amended or deleted Glossary of Terms Used in the Calendar entries
- ☐ New, amended or deleted Admission/Readmission to the University (Undergraduate) regulations
- ☐ New, amended or deleted General Academic Regulations (Undergraduate)
 - ☒ New, amended or deleted Faculty, School or Departmental regulations
- ☐ Other:

ADMINISTRATIVE AUTHORIZATION

By signing below, you are confirming that the attached Calendar changes have obtained all necessary Faculty/School approvals, and that the costs, if any, associated with these changes can be met from within the existing budget allocation or authorized new funding for the appropriate academic unit.

Signature of Dean/Vice-President: _____

Date: _____

Date of approval by Faculty/Academic Council: _____

Memorial University of Newfoundland Undergraduate Calendar Change Proposal Form Senate Summary Page for Regulations

SECTION OF CALENDAR

Indicate the section of the Calendar impacted by the proposed change(s):

- ☐ Glossary of Terms Used in the Calendar
- ☐ Admission/Readmission to the University (Undergraduate)
- ☐ General Academic Regulations (Undergraduate)
- ☐ Faculty of: Science
- ☐ School of:
- ☒ Department of: Computer Science
- ☐ Other:

RATIONALE

Following an email survey of our department in January, no Computer Science instructor is offering supplementary exams (of the nine responses received). Review of our course outlines for the past two semesters shows that instructors state they do not offer a supplementary exam.

Because of this regulation as stated, students will contact the Head's Office to request a supplementary exam (without checking their course outline), and then be told their course does not have a supplementary exam option. Other departments who did offer this option have removed their department from the list (e.g., Department of Physics and Physical Oceanography).

CALENDAR CHANGES

Faculty of Science section of the Calendar:

8 Supplementary Examinations

1. Supplementary examinations will be allowed in certain courses offered by the Department of Biochemistry, ~~the Department of Computer Science~~, and the Department of Mathematics and Statistics which have written final examinations. In each course, students will be informed as to the possibility of a supplementary examination during the first week of classes. This information will be provided in writing, as part of the Course Syllabus.
2. Supplementary examinations will be of similar length and degree of difficulty as the original final examination.
3. Students who wish to write a supplementary examination must apply in writing to the appropriate department within one week of the official release of grades by the University.

4. Students who have clear or conditional standing may write a supplementary examination in a course if they obtained a final grade of 45-49F and if their grade in the course excluding the original final examination is at least 50%.
5. In order to pass the course, a student who has been approved to write a supplementary examination must pass the supplementary examination. If the student passes the supplementary examination, then a new final grade will be calculated using the same evaluation scheme as used in the course, but with the result of the supplementary examination replacing that of the original final examination. Any additional course requirements, including a requirement to pass the laboratory component of a course, will continue to apply.
6. If the new final grade is higher than the original, it will replace the original grade on the student's transcript, subject to the condition that the new final grade will not exceed the grade which the student had obtained in the course excluding the original final examination. The student's transcript will indicate that the course result was earned as the result of a supplementary examination.
7. Supplementary examinations will be written no later than the first week of the semester immediately following the one in which the course was failed, and will normally coincide with the writing of deferred examinations. Grades for supplementary examinations will be submitted to the Office of the Registrar within one week following the commencement of classes for that semester.
8. A student may write only one supplementary examination for any one registration in a course; if a failing grade is obtained in the course following the supplementary examination then the course must be repeated in order to obtain credit.

Computer Science section of the Calendar:

11.4.10 Supplementary Examinations

~~Supplementary examinations will be allowed in certain Computer Science courses which have written final examinations. Students should refer to Supplementary Examinations in the Faculty of Science section for details.~~

CALENDAR ENTRY AFTER CHANGES

Faculty of Science section of the Calendar:

8 Supplementary Examinations

9. Supplementary examinations will be allowed in certain courses offered by the Department of Biochemistry, and the Department of Mathematics and Statistics which have written final examinations. In each course, students will be informed as to the possibility of a supplementary examination during the first week of classes. This information will be provided in writing, as part of the Course Syllabus.
10. Supplementary examinations will be of similar length and degree of difficulty as the original final examination.
11. Students who wish to write a supplementary examination must apply in writing to the appropriate department within one week of the official release of grades by the University.

12. Students who have clear or conditional standing may write a supplementary examination in a course if they obtained a final grade of 45-49F and if their grade in the course excluding the original final examination is at least 50%.
13. In order to pass the course, a student who has been approved to write a supplementary examination must pass the supplementary examination. If the student passes the supplementary examination, then a new final grade will be calculated using the same evaluation scheme as used in the course, but with the result of the supplementary examination replacing that of the original final examination. Any additional course requirements, including a requirement to pass the laboratory component of a course, will continue to apply.
14. If the new final grade is higher than the original, it will replace the original grade on the student's transcript, subject to the condition that the new final grade will not exceed the grade which the student had obtained in the course excluding the original final examination. The student's transcript will indicate that the course result was earned as the result of a supplementary examination.
15. Supplementary examinations will be written no later than the first week of the semester immediately following the one in which the course was failed, and will normally coincide with the writing of deferred examinations. Grades for supplementary examinations will be submitted to the Office of the Registrar within one week following the commencement of classes for that semester.
16. A student may write only one supplementary examination for any one registration in a course; if a failing grade is obtained in the course following the supplementary examination then the course must be repeated in order to obtain credit.

Memorial University of Newfoundland

Undergraduate Calendar Change Proposal Form

Appendix Page

CONSULTATIONS SOUGHT

Consultations Sought From	Comments Received
Academic Advising Centre	No issue with the change
Humanities and Social Sciences	
Business Administration	
Education	
Engineering and Applied Science	No concerns with the change
Grenfell Campus (Arts & Social Sciences)	
Grenfell Campus (Science and the Environment)	No concerns with the change
Grenfell Campus (Fine Arts)	
Human Kinetics and Recreation	No concerns with the change
Library	Proposed changes have no bearing on Library services
Marine Institute	
Medicine	
Music	No issue with the change
Nursing	
Pharmacy	
Social Work	
Science	
<ul style="list-style-type: none"> Biochemistry 	
<ul style="list-style-type: none"> Biology 	No issue with the change
<ul style="list-style-type: none"> Chemistry 	

• Earth Sciences	
• Geography	
• Mathematics and Statistics	
• Ocean Sciences	
• Physics and Physical Oceanography	

LIBRARY REPORT

Proposed changes have no bearing on Library services

RESOURCE IMPLICATIONS

None

ADDITIONAL INFORMATION REQUIRED FOR NEW COURSE PROPOSALS

N/A

Memorial University of Newfoundland Undergraduate Calendar Change Proposal Form Cover Page

LIST OF CHANGES

Indicate the Calendar change(s) being proposed by checking and completing as appropriate:

- ☐ New course(s):
- ☐ Amended or deleted course(s):
- ☐ New program(s):
- ☐ Amended or deleted program(s):
- ☐ New, amended or deleted Glossary of Terms Used in the Calendar entries
- ☐ New, amended or deleted Admission/Readmission to the University (Undergraduate) regulations
- ☐ New, amended or deleted General Academic Regulations (Undergraduate)
- ☒ New, amended or deleted Faculty, School or Departmental regulations
- ☐ Other:

ADMINISTRATIVE AUTHORIZATION

By signing below, you are confirming that the attached Calendar changes have obtained all necessary Faculty/School approvals, and that the costs, if any, associated with these changes can be met from within the existing budget allocation or authorized new funding for the appropriate academic unit.

Signature of Dean/Vice-President: _____

Date: _____

Date of approval by Faculty/Academic Council: _____

Memorial University of Newfoundland Undergraduate Calendar Change Proposal Form Senate Summary Page for Regulations

SECTION OF CALENDAR

Indicate the section of the Calendar impacted by the proposed change(s):

- ☐ Glossary of Terms Used in the Calendar
- ☐ Admission/Readmission to the University (Undergraduate)
- ☐ General Academic Regulations (Undergraduate)
- ☒ **Faculty of: SCIENCE**
- ☐ School of:
- ☒ **Department of: ECONOMICS, MATHEMATICS & STATISTICS**
- ☐ Other:

RATIONALE

These joint major calendar changes were overlooked when sections 15.5.8 Major in Economics (Co-operative) (B.A. or B.Sc.) and 15.5.9 Honours in Economics (Co-operative) (B.A. or B.Sc.) were revised in fall 2019.

CALENDAR CHANGES

[The proposed Calendar change(s) should be listed here. Additions should be indicated by underlining and deletions by ~~strikethroughs~~.]

10.1.12 Economics (Co-operative) and Statistics Joint Major

www.mun.ca/coop

The Joint Major in Economics (Co-operative) and Statistics allows Economics students to apply their skills in a variety of settings including government, education, and the non-profit and private sectors. It is available exclusively to full-time Economics and Statistics majors (B.Sc. only). ~~The program is available under the Economics Co-operative Education Option (ECEO).~~

~~The ECEO provides an excellent mutual opportunity for students and employers. Qualified students will obtain rewarding employment experience in fields related to Economics for several months of continuous duration. Students will learn valuable practical skills in an employment situation during their course of study. Furthermore, paid employment will help to defray the cost of their education. The timing of the Work Terms and the structure of the ECEO generally are such that employers stand to gain from the acquired employable skills of economists and statisticians in training. The objectives of the Work Term component of the ECEO are embodied in the Work Term descriptions below. The descriptions serve to guide the student and the employer toward achieving these objectives.~~

The program is administered by the designated Academic Staff Member in Co-operative Education (ASM-CE) for the Faculty of Humanities and Social Sciences.

Students who participate in the Economics (Co-operative) and Statistics Joint Major must meet the requirements listed under the **Regulations for the General Degree of Bachelor of Science**. In addition, the Economics (Co-operative) and Statistics Joint Major requires three work term courses as described in **Course Descriptions, Work Terms**.

10.1.12.1 Admission Requirements

1. Admission is competitive-limited and selective. Therefore, prospective students are encouraged to consider an alternate degree program in the event that they are not accepted into the Joint Co-operative program.
2. Applicants should note that it is possible to enter ~~Term 1~~ the co-operative education program only in the Fall semester commencing in September of each academic year. Application forms are available in on the Department of Economics and the Department of Mathematics and Statistics website. The deadline for applications for admission to Term 1 is March 1.
3. The primary criterion used in reaching decisions on applications for admission is overall academic achievement. Students with weak overall academic records are unlikely to be admitted. An applicant may be asked to attend an interview.
4. ~~To be eligible for admission to Term 1 the co-operative education program an applicant must have successfully completed a minimum of 30 credit hours with an overall average of at least 65% as follows: All applicants must have successfully completed Economics 1010 (or the former 2010) and 1020 (or the former 2020); at least 6 credit hours in English; Mathematics 1000 and 1001; and 12 credit hours chosen from courses in the Faculties of Humanities and Social Sciences or Science.~~
It is recommended that students successfully complete English 1110 Critical Reading and Writing II (Context, Substance, Style) as one of these English courses. To be eligible for admission an applicant must have successfully completed a minimum of 30 credit hours with an overall average of at least 65%, including the following: Economics 1010 (or the former 2010) and 1020 (or the former 2020); at least 6 credit hours in English (English 1110 is recommended); Mathematics 1000 and 1001; and 12 credit hours chosen from courses in the disciplines of Humanities, Social Sciences or Science. It is advised that students choose courses which can satisfy the **Regulations for the General Degree of Bachelor of Science.**
5. ~~Students may apply for admission to Advanced Standing.~~
A student who has already completed more than the 30 credit hours that are required for admission to the program may apply for entry with Advanced Standing. Students with Advanced Standing will be placed in a semester of the program judged to be appropriate considering the number of credit hours remaining in their academic program.
6. Transfer students from other universities will be placed in that term of the program judged to be appropriate considering equivalent credits, as determined by the Departments and the designated ASM-CE.

10.1.12.2 Program of Study

1. ~~Promotion from each of Terms 1 through 6 requires a passing grade in all specified required courses and an overall average of at least 60% in all courses including electives. A student who fails a required course, or fails to maintain an overall average of 60% will not be promoted to the next term and will be required to withdraw from the program. The student in question may apply for readmission in a subsequent year after passing the specified required course(s) previously failed, or re-establishing the 60% average.~~
 2. ~~In addition to the 30 credit hours required for admission, students are required to complete the six academic terms in the ECEO program for a total of 120 credit hours. Students must successfully complete three Work Terms which follow Academic Terms 2, 4, and 5.~~
1. A Bachelor of Science student who undertakes a Economics (Co-operative) and Statistics Joint Major shall complete 90 credit hours as follows:
 - a. Economics 1010 (or the former 2010), 1020 (or the former 2020), 2550, 3000, 3001, 3010, 3011, 3550, 4120, 4550, and 4551;
 - b. An additional 9 credit hours in Economics at the 3000 or 4000 level;
 - c. Economics 299W, 399W, and 499W;
 - d. Mathematics 1000, 1001, 2000, 2050, and 2051;
 - e. Statistics 2550, 2560, 2410 (or 3410), 3411, 3520, 3540, and 4590;

- f. An additional 6 credit hours in Statistics;
- g. **Computer Science 1000**;
- h. At least 3 credit hours in an additional science subject other than Mathematics/Statistics, Economics, and Computer Science.
2. Courses shall normally be taken in academic terms or "blocks" in the sequenced course load and order set out in the **Academic Course Program – Economics (Co-operative) and Statistics Joint Major Table**. Unspecified credits may be used to fulfill elective requirements only. A student should refer to **Table 1 Suggested Course Progression for Bachelor of Science Economics (Co-operative) and Statistics Joint Major**.
3. Promotion from each semester requires a passing grade in all specified required courses and a cumulative average of at least 65% in all courses. A student who fails a required course, fails to maintain the required cumulative average, or does not maintain full-time status will not be promoted to the next term and will be required to withdraw from the program.
4. **UNIVERSITY REGULATIONS - General Academic Regulations (Undergraduate) - Classification of Students** notwithstanding, students do not require special permission to register for courses while on work terms if the courses are in addition to the prescribed program. ~~students will require special permission to register for courses while on work terms if the courses are in addition to the prescribed program.~~ Normally, work terms are considered equivalent to a full-time course load with no time for additional course work.

Table 1 Suggested Course Progression for Bachelor of Science Economics (Co-operative) and Statistics Joint Major

Year	Courses
1 (pre-Economics (Co-operative)) [See Note 1.]	ECON 1010, 1020 6 credit hours in English (English 1110 is recommended) Mathematics 1000, 1001 12 credit hours in elective courses [see Note 2.]
2	Computer Science 1000 [see Note 3.] ECON 2550, 3000, 3001, 3010, 3550 ECON 299W (Work Term I (typically in Spring semester)) Mathematics 2000, 2050 Statistics 2550, 2560
3	ECON 3011, 4120, 4550, 4551 ECON 399W (Work Term II (typically in Spring semester)) Mathematics 2051 Statistics 2410 (or 3410), 3411, 3540 3 further credit hours in Statistics courses 3 further credit hours in elective courses [see Note 2.]
4	9 further credit hours in Economics courses at the 3000 or 4000 level ECON 499W (Work Term III (typically in Winter semester)) Statistics 3520, 4590 3 further credit hours in Statistics courses 9 further credit hours in elective courses [see Note 2.] 3 further credit hours in a Science subject other than Computer Science, Economics, Mathematics and Statistics

Notes:

- Courses listed in Year 1 are required to be eligible for admission to the program.
- Elective courses should be chosen with reference to **Faculty of Science Degree Regulations, Electives**.
- Another 1000-level Computer Science course may be substituted with the approval of the Head of the Department of Economics.

CALENDAR ENTRY AFTER CHANGES

10.1.12 Economics (Co-operative) and Statistics Joint Major

www.mun.ca/coop

The Joint Major in Economics (Co-operative) and Statistics allows Economics students to apply their skills in a variety of settings including government, education, and the non-profit and private sectors. It is available exclusively to full-time Economics and Statistics majors (B.Sc. only). The program is administered by the designated Academic Staff Member in Co-operative Education (ASM-CE) for the Faculty of Humanities and Social Sciences.

Students who participate in the Economics (Co-operative) and Statistics Joint Major must meet the requirements listed under the **Regulations for the General Degree of Bachelor of Science**. In addition, the Economics (Co-operative) and Statistics Joint Major requires three work term courses as described in **Course Descriptions, Work Terms**.

10.1.12.1 Admission Requirements

1. Admission is limited and selective.
2. Applicants should note that it is possible to enter the co-operative education program only in the Fall semester of each academic year. Application forms are available on the Department of Economics website.
3. The primary criterion used in reaching decisions on applications for admission is overall academic achievement. Students with weak overall academic records are unlikely to be admitted. An applicant may be asked to attend an interview.
4. To be eligible for admission an applicant must have successfully completed a minimum of 30 credit hours with an overall average of at least 65%, including the following:
Economics 1010 (or the former 2010) and 1020 (or the former 2020); at least 6 credit hours in English (English 1110 is recommended); Mathematics 1000 and 1001; and 12 credit hours chosen from courses in the disciplines of Humanities, Social Sciences or Science. It is advised that students choose courses which can satisfy the **Regulations for the General Degree of Bachelor of Science**.
5. A student who has already completed more than the 30 credit hours that are required for admission to the program may apply for entry with Advanced Standing. Students with Advanced Standing will be placed in a semester of the program judged to be appropriate considering the number of credit hours remaining in their academic program.
6. Transfer students from other universities will be placed in that term of the program judged to be appropriate considering equivalent credits, as determined by the Departments and the designated ASM-CE.

10.1.12.2 Program of Study

1. A Bachelor of Science student who undertakes a Economics (Co-operative) and Statistics Joint Major shall complete 90 credit hours as follows:
 - i. Economics 1010 (or the former 2010), 1020 (or the former 2020), 2550, 3000, 3001, 3010, 3011, 3550, 4120, 4550, and 4551;
 - j. An additional 9 credit hours in Economics at the 3000 or 4000 level;
 - k. Economics 299W, 399W, and 499W;
 - l. Mathematics 1000, 1001, 2000, 2050, and 2051;
 - m. Statistics 2550, 2560, 2410 (or 3410), 3411, 3520, 3540, and 4590;
 - n. An additional 6 credit hours in Statistics;
 - o. Computer Science 1000;
 - p. At least 3 credit hours in an additional science subject other than Mathematics/Statistics, Economics, and Computer Science.
2. A student should refer to **Table 1 Suggested Course Progression for Bachelor of Science Economics (Co-operative) and Statistics Joint Major**.

3. Promotion from each semester requires a passing grade in all specified required courses and a cumulative average of at least 65% in all courses. A student who fails a required course, fails to maintain the required cumulative average, or does not maintain full-time status will not be promoted to the next term and will be required to withdraw from the program.
4. **UNIVERSITY REGULATIONS - General Academic Regulations (Undergraduate) - Classification of Students** notwithstanding, students will require special permission to register for courses while on work terms if the courses are in addition to the prescribed program. Normally work terms are considered equivalent to a full-time course load with no time for additional course work.

Table 1 Suggested Course Progression for Bachelor of Science Economics (Co-operative) and Statistics Joint Major

Year	Courses
1 (pre-Economics (Co-operative)) [See Note 1.]	ECON 1010, 1020 6 credit hours in English (English 1110 is recommended) Mathematics 1000, 1001 12 credit hours in elective courses [see Note 2.]
2	Computer Science 1000 [see Note 3.] ECON 2550, 3000, 3001, 3010, 3550 ECON 299W (Work Term I (typically in Spring semester)) Mathematics 2000, 2050 Statistics 2550, 2560
3	ECON 3011, 4120, 4550, 4551 ECON 399W (Work Term II (typically in Spring semester)) Mathematics 2051 Statistics 2410 (or 3410), 3411, 3540 3 further credit hours in Statistics courses 3 further credit hours in elective courses [see Note 2.]
4	9 further credit hours in Economics courses at the 3000 or 4000 level ECON 499W (Work Term III (typically in Winter semester)) Statistics 3520, 4590 3 further credit hours in Statistics courses 9 further credit hours in elective courses [see Note 2.] 3 further credit hours in a Science subject other than Computer Science, Economics, Mathematics and Statistics

Notes:

1. Courses listed in Year 1 are required to be eligible for admission to the program.
2. Elective courses should be chosen with reference to **Faculty of Science Degree Regulations, Electives**.
3. Another 1000-level Computer Science course may be substituted with the approval of the Head of the Department of Economics.

Memorial University of Newfoundland

Undergraduate Calendar Change Proposal Form

Appendix Page

CONSULTATIONS SOUGHT	RESPONSE	DATE
Business	No	
Education	No	
Engineering	No	
Grenfell Campus	No	
Human Kinetics and Recreation	No	
Humanities and Social Sciences	No	
Marine Institute	No	
Medicine	No	
Music	No	
Nursing	No	
Pharmacy	No	
Science	No	
Social Work	No	
Registrar's Office	No	

LIBRARY REPORT

NA

RESOURCE IMPLICATIONS

There are no implications.

Memorial University of Newfoundland Undergraduate Calendar Change Proposal Form Cover Page

LIST OF CHANGES

Indicate the Calendar change(s) being proposed by checking and completing as appropriate:

- ☐ New course(s):
- ☒ Amended or deleted course(s): PSYC 2930, 3050, 3100, 3251, 3350, 3450, 3510, 3511, 3650, 3900, 4750, 3810, 3820, 3830, 4661, 4770, 4910, 4980, 499A/B
- ☐ New program(s):
- ☐ Amended or deleted program(s):
- ☐ New, amended or deleted Glossary of Terms Used in the Calendar entries
- ☐ New, amended or deleted Admission/Readmission to the University (Undergraduate) regulations
- ☐ New, amended or deleted General Academic Regulations (Undergraduate)
- ☐ New, amended or deleted Faculty, School or Departmental regulations
- ☐ Other:

ADMINISTRATIVE AUTHORIZATION

By signing below, you are confirming that the attached Calendar changes have obtained all necessary Faculty/School approvals, and that the costs, if any, associated with these changes can be met from within the existing budget allocation or authorized new funding for the appropriate academic unit.

Signature of Dean/Vice-President: _____

Date: _____

Date of approval by Faculty/Academic Council: _____

Memorial University of Newfoundland Undergraduate Calendar Change Proposal Form Senate Summary Page for Courses

COURSE NUMBER AND TITLE

PSYC 2930 Research and Writing in Psychology

RATIONALE

This change amends the pre-requisites for PSYC 2930 to include PSYC 2910 as a co-requisite or pre-requisite, which is necessary due to the integrative nature of assignments for both courses. Specifically, an understanding of the statistical output of assignments in PSYC 2910 are required for some assignments in PSYC 2930.

CALENDAR CHANGES

2930 Research and Writing in Psychology is an introduction to the fundamentals of preparing psychology reports, emphasizing organization, correct use of terminology, adherence to appropriate discipline style, concise and accurate description, preparation of abstracts, and integration of numerical data. Topics for reports will be selected each semester by the instructor.

CO: PSYC 2910

PR: PSYC 1000, ~~and~~ 1001 and admission to a Major in Psychology or Behavioural Neuroscience

UL: may not be used towards the Faculty of Humanities and Social Sciences CRW requirement or the former R/W requirement

CALENDAR ENTRY AFTER CHANGES

2930 Research and Writing in Psychology is an introduction to the fundamentals of preparing psychology reports, emphasizing organization, correct use of terminology, adherence to appropriate discipline style, concise and accurate description, preparation of abstracts, and integration of numerical data. Topics for reports will be selected each semester by the instructor.

CO: PSYC 2910

PR: PSYC 1000, 1001 and admission to a Major in Psychology or Behavioural Neuroscience

UL: may not be used towards the Faculty of Humanities and Social Sciences CRW requirement or the former R/W requirement

Memorial University of Newfoundland Undergraduate Calendar Change Proposal Form Senate Summary Page for Courses

COURSE NUMBER AND TITLE

PSYC 3050 Developmental Psychology
PSYC 3100 Social Psychology
PSYC 3350 Perception
PSYC 3450 Human Cognition
PSYC 3650 Abnormal Psychology
PSYC 3750 Animal Behaviour I (same as Biology 3750)
PSYC 3820 Research Techniques in Behavioural Neuroscience
PSYC 3830 Behavioural Endocrinology
PSYC 4661 Family Psychology
PSYC 4770 Research Experience in Animal Behaviour

RATIONALE

The following courses require their pre-requisites to be updated to reflect the requirement that Behavioural Neuroscience majors take PSYC 2521 in lieu of PSYC 2520 (which is still required for Psychology majors). PSYC 2520 OR PSYC 2521 is a pre-requisite for all 3000-level and 4000-level majors courses in Psychology.

CALENDAR CHANGES

3050 Developmental Psychology is an examination of the methods of study and an evaluation of current findings and theoretical issues of importance to an understanding of development. Topics will be drawn from perception, learning, cognition, social learning, memory and language development.

CR: PSYC 2010, PSYC 2025

PR: PSYC 2520 or 2521, 2911, and 2930 or the former 2570, and admission to a Major in Psychology or Behavioural Neuroscience

3100 Social Psychology is an examination of the concepts and principles involved in social behaviour. Topics covered will include attitudes, social cognition, interpersonal relations, and group processes.

CR: PSYC 2100, the former PSYC 2125

PR: PSYC 2520 or 2521, 2911, and 2930 or the former 2570, and admission to a Major in Psychology or Behavioural Neuroscience

3350 Perception is a broad survey of theory and research in sensation and perception.
PR: PSYC 2520 or 2521, the former 2570, and 2911, and 2930 or the former 2570, and admission to a Major in Psychology or Behavioural Neuroscience

3450 Human Cognition is an introduction to the experimental study of the mental representations and processes involved in human cognition. Topics such as attention, perception and pattern recognition, concepts and the organization of knowledge, language processes, mental imagery, reasoning, problem solving, decision making and skilled performance will be covered with an emphasis on experimental analysis and techniques.

CR: PSYC 2440, PSYC 2425

PR: PSYC 2520 or 2521, 2911, and 2930 or the former 2570, and admission to a Major in Psychology or Behavioural Neuroscience

3650 Abnormal Psychology is an examination of the nature, explanation and treatment of psychological disorders with an emphasis on research methods and current findings.

CR: PSYC 3640, PSYC 3626

PR: PSYC 2520 or 2521, 2911, and 2930 or the former 2570, and admission to a Major in Psychology or Behavioural Neuroscience

3750 Animal Behaviour I (same as Biology 3750) is an introduction to the mechanisms, development, function and evolution of behaviour in animals. Topics include the history of ethology and comparative psychology, and behavioural ecology; methods of animal behaviour study, behaviour of animals in relation to physiology, learning, communication, mating systems, and other areas in Biology and Psychology.

CR: Biology 3750

PR: Biology 1001, 1002 and PSYC 2520 or 2521, 2911, and 2930 or the former 2570, and admission to a Major in Psychology or Behavioural Neuroscience

3820 Research Techniques in Behavioural Neuroscience allows students to increase their understanding of how knowledge is generated in the study of neuroscience and behavior. Students will visit various on- campus laboratories that are engaged in research relevant to these fields. In addition to observations and hands-on tutorials, readings, discussions, and writing assignments will strengthen students' understanding of the techniques used to answer specific research questions in neuroscience and behaviour.

PR: Science 1807; PSYC 2520 or 2521, 2911, and 2930, or the former 2570, Biology 1001 and 1002, and admission to a Major in Psychology or Behavioural Neuroscience

3830 Behavioural Endocrinology explores the behavioural effects of hormones and the question of how hormones act on the brain to influence behaviour. Topics include: basic concepts in neuroendocrinology, reproductive behaviour (sexual and parental), sexual differentiation of the brain and behaviour, aggressive behaviour, and the neuroendocrinology of stress, including the effects of stress on the brain and behaviour.

PR: PSYC 2520 or 2521, 2911, and 2930 or the former 2570, Biology 1001 and 1002, and admission to a Major in Psychology or Behavioural Neuroscience

4661 Family Psychology is a study of the reciprocal relationship between family processes and abnormal behaviour. The course will focus on the role of family

dynamics in the etiology of abnormal behaviour, the impact of psychological disorders on family functioning and the application of family therapy to create therapeutic change.
PR: PSYC 3650, or all of 2520 or 2521, 2930 or the former 2570, 2911, and 3640, and admission to a Major in Psychology or Behavioural Neuroscience

4770 Research Experience in Animal Behaviour (same as Biology 4770) allows students to gain research experience in selected areas of animal behaviour. This course may be offered in a usual 12-week semester or as a two-week field course.

CR: Biology 4770

LC: either three hours of lecture per week or a two-week field course that embodies equivalent instructional time

PR: Science 1807 and Science 1808; PSYC 2520 or 2521, 2930 or the former 2570, 2911 and PSYC 3750 or BIOL 3750 and admission to a major in Psychology or Behavioural Neuroscience

CALENDAR ENTRY AFTER CHANGES

3050 Developmental Psychology is an examination of the methods of study and an evaluation of current findings and theoretical issues of importance to an understanding of development. Topics will be drawn from perception, learning, cognition, social learning, memory and language development.

CR: PSYC 2010, PSYC 2025

PR: PSYC 2520 or 2521, 2911, and 2930 or the former 2570, and admission to a Major in Psychology or Behavioural Neuroscience

3100 Social Psychology is an examination of the concepts and principles involved in social behaviour. Topics covered will include attitudes, social cognition, interpersonal relations, and group processes.

CR: PSYC 2100, the former PSYC 2125

PR: PSYC 2520 or 2521, 2911, and 2930 or the former 2570, and admission to a Major in Psychology or Behavioural Neuroscience

3350 Perception is a broad survey of theory and research in sensation and perception.

PR: PSYC 2520 or 2521, the former 2570, and 2911, and 2930 or the former 2570, and admission to a Major in Psychology or Behavioural Neuroscience

3450 Human Cognition is an introduction to the experimental study of the mental representations and processes involved in human cognition. Topics such as attention, perception and pattern recognition, concepts and the organization of knowledge, language processes, mental imagery, reasoning, problem solving, decision making and skilled performance will be covered with an emphasis on experimental analysis and techniques.

CR: PSYC 2440, PSYC 2425

PR: PSYC 2520 or 2521, 2911, and 2930 or the former 2570, and admission to a Major in Psychology or Behavioural Neuroscience

3650 Abnormal Psychology is an examination of the nature, explanation and treatment of psychological disorders with an emphasis on research methods and current findings.

CR: PSYC 3640, PSYC 3626

PR: PSYC 2520 or 2521, 2911, and 2930 or the former 2570, and admission to a Major in Psychology or Behavioural Neuroscience

3750 Animal Behaviour I (same as Biology 3750) is an introduction to the mechanisms, development, function and evolution of behaviour in animals. Topics include the history of ethology and comparative psychology, and behavioural ecology; methods of animal behaviour study, behaviour of animals in relation to physiology, learning, communication, mating systems, and other areas in Biology and Psychology.

CR: Biology 3750

PR: Biology 1001, 1002 and PSYC 2520 or 2521, 2911, and 2930 or the former 2570, and admission to a Major in Psychology or Behavioural Neuroscience

3820 Research Techniques in Behavioural Neuroscience allows students to increase their understanding of how knowledge is generated in the study of neuroscience and behavior. Students will visit various on- campus laboratories that are engaged in research relevant to these fields. In addition to observations and hands-on tutorials, readings, discussions, and writing assignments will strengthen students' understanding of the techniques used to answer specific research questions in neuroscience and behaviour.

PR: Science 1807; PSYC 2520 or 2521, 2911, and 2930, or the former 2570, Biology 1001 and 1002, and admission to a Major in Psychology or Behavioural Neuroscience

3830 Behavioural Endocrinology explores the behavioural effects of hormones and the question of how hormones act on the brain to influence behaviour. Topics include: basic concepts in neuroendocrinology, reproductive behaviour (sexual and parental), sexual differentiation of the brain and behaviour, aggressive behaviour, and the neuroendocrinology of stress, including the effects of stress on the brain and behaviour.

PR: PSYC 2520 or 2521, 2911, and 2930 or the former 2570, Biology 1001 and 1002, and admission to a Major in Psychology or Behavioural Neuroscience

4661 Family Psychology is a study of the reciprocal relationship between family processes and abnormal behaviour. The course will focus on the role of family dynamics in the etiology of abnormal behaviour, the impact of psychological disorders on family functioning and the application of family therapy to create therapeutic change.

PR: PSYC 3650, or all of 2520 or 2521, 2930 or the former 2570, 2911, and 3640, and admission to a Major in Psychology or Behavioural Neuroscience

4770 Research Experience in Animal Behaviour (same as Biology 4770) allows students to gain research experience in selected areas of animal behaviour. This course may be offered in a usual 12-week semester or as a two-week field course.

CR: Biology 4770

LC: either three hours of lecture per week or a two-week field course that embodies equivalent instructional time

PR: Science 1807 and Science 1808; PSYC 2520 or 2521, 2930 or the former 2570, 2911 and PSYC 3750 or BIOL 3750 and admission to a major in Psychology or Behavioural Neuroscience

SECONDARY CALENDAR CHANGES

Note that although two of the above courses (Psyc 3750, Psyc 4770) are cross-listed with Biology, no secondary changes are required as the PRs for these courses are different in each Major program.

Memorial University of Newfoundland Undergraduate Calendar Change Proposal Form Senate Summary Page for Courses

COURSE NUMBER AND TITLE

PSYC 3251 Learning

RATIONALE

This change is to introduce a credit restriction (CR) of PSYC 2225 Survey in Learning, offered on the Grenfell campus.

CALENDAR CHANGES

3251 Learning introduces students to topics of learning phenomena and learning theories. Topics to be studied include the evolutionary context of learning, habituation and sensitization, Pavlovian conditioning, operant conditioning, and generalization and discrimination in learning. Applications of learning principles to topics such as child rearing, education, drug use and rehabilitation, as well as to other topics of contemporary interest, will also be discussed.

CR: PSYC 2225

PR: PSYC 2520 or 2521, 2911, and 2930 or the former 2570, and admission to a Major in Psychology or Behavioural Neuroscience

CALENDAR ENTRY AFTER CHANGES

3251 Learning introduces students to topics of learning phenomena and learning theories. Topics to be studied include the evolutionary context of learning, habituation and sensitization, Pavlovian conditioning, operant conditioning, and generalization and discrimination in learning. Applications of learning principles to topics such as child rearing, education, drug use and rehabilitation, as well as to other topics of contemporary interest, will also be discussed.

CR: PSYC 2225

PR: PSYC 2520 or 2521, 2911, and 2930 or the former 2570, and admission to a Major in Psychology or Behavioural Neuroscience

SECONDARY CALENDAR CHANGES

13.25.1 Survey Courses

2225 Survey of Learning is a survey of learning phenomena and learning theories.

Topics to be studied shall include: the evolutionary context of learning, habituation and sensitization, imprinting, Pavlovian conditioning, instrumental learning, generalization and discrimination in learning and neural mechanisms of learning.

CR: Psychology 2240, and the former Psychology 2250, and Psychology 3251

Memorial University of Newfoundland Undergraduate Calendar Change Proposal Form Senate Summary Page for Courses

COURSE NUMBER AND TITLE

PSYC 3810 Neurobiology of Learning and Memory

RATIONALE

This change is to introduce a credit restriction (CR) of PSYC 2825 Survey in Biological Psychology, offered on the Grenfell campus.

CALENDAR CHANGES

3810 Neurobiology of Learning and Memory (same as the former PSYC 3250) examines how organisms adjust their behaviour to regularities in the environment as a result of experience. Experience changes behavior by modifying the nervous system. We will take a multidisciplinary approach, combining information from psychology and neuroscience to study learning and memory. Students will gain an understanding of sensitization, habituation, and classical and operant conditioning using animal models, with a particular emphasis on the synaptic and molecular changes that occur with learning and memory.

CR: PSYC 2825, the former PSYC 3250

PR: PSYC 2520 or 2521, 2911, and 2930 or the former 2570, and admission to a Major in Psychology or Behavioural Neuroscience

CALENDAR ENTRY AFTER CHANGES

3810 Neurobiology of Learning and Memory (same as the former PSYC 3250) examines how organisms adjust their behaviour to regularities in the environment as a result of experience. Experience changes behavior by modifying the nervous system. We will take a multidisciplinary approach, combining information from psychology and neuroscience to study learning and memory. Students will gain an understanding of sensitization, habituation, and classical and operant conditioning using animal models, with a particular emphasis on the synaptic and molecular changes that occur with learning and memory.

CR: PSYC 2825, the former PSYC 3250

PR: PSYC 2520 or 2521, 2911, and 2930 or the former 2570, and admission to a Major in Psychology or Behavioural Neuroscience

SECONDARY CALENDAR CHANGES

13.25.1 Survey Courses

2825 Survey of Biological Psychology is a survey of the biological bases of behaviour. Topics to be studied shall include: the structure and function of the nervous

system, nerve conduction, sensory and motor structures, emotions, sexual behaviour, psychopharmacology, and behavioural evolution. Additional topics may include: the biological basis of circadian rhythms and sleep, consciousness and language, learning and memory, development and plasticity, and psychological disorders.

CR: Psychology 2810, ~~and the former Psychology 2850,~~ and Psychology 3810

Memorial University of Newfoundland Undergraduate Calendar Change Proposal Form Senate Summary Page for Programs

COURSE NUMBER AND TITLE

PSYC 3510 Directed Study

PSYC 3511 Directed Study

RATIONALE

This entry is to clarify for students that Psychology 3510 and 3511 cannot be used to fulfill the 3000-level course requirements for the Psychology Major. These Directed Study courses are focussed research experiences and do not encompass content breadth in the particular research area, as is found in the required 3000-level courses.

CALENDAR CHANGES

3510 Directed Study provides an opportunity to work with an individual faculty member on a research project. The student will submit a formal written report of the research conducted. Permission of the instructor is required.

PR: PSYC 2911 and 2930 or the former 2570, and admission to a Major in Psychology or Behavioural Neuroscience

UL: cannot be used to fulfill the 3000-level course requirements for a Major in Psychology

3511 Directed Study provides an opportunity to work with an individual faculty member on a research project. The student will submit a formal written report of the research conducted. Permission of the instructor is required.

PR: PSYC 2911 and 2930 or the former 2570, and admission to a Major in Psychology or Behavioural Neuroscience

UL: cannot be used to fulfill the 3000-level course requirements for a Major in Psychology

CALENDAR ENTRY AFTER CHANGES

3510 Directed Study provides an opportunity to work with an individual faculty member on a research project. The student will submit a formal written report of the research conducted. Permission of the instructor is required.

PR: PSYC 2911 and 2930 or the former 2570, and admission to a Major in Psychology or Behavioural Neuroscience

UL: cannot be used to fulfill the 3000-level course requirements for a Major in Psychology

3511 Directed Study provides an opportunity to work with an individual faculty member on a research project. The student will submit a formal written report of the research conducted. Permission of the instructor is required.

PR: PSYC 2911 and 2930 or the former 2570, and admission to a Major in Psychology or Behavioural Neuroscience

UL: cannot be used to fulfill the 3000-level course requirements for a Major in Psychology

Memorial University of Newfoundland

Undergraduate Calendar Change Proposal Form

Senate Summary Page for Courses

COURSE NUMBER AND TITLE

PSYC 3900 Design and Analysis III

RATIONALE

The rationale of this calendar change is to include the pre-requisite of admission to the Honours program for Psychology 3900. This is a required course for Honours students and is restricted to Honours students. Students are currently admitted via individual override capacity waivers. This change will eliminate the need for this additional administration as Honours students will be able to use self-service to enrol without a waiver.

CALENDAR CHANGES

3900 Design and Analysis III is a course on complex and specialized research design in Psychology. Multifactor research designs that employ both between- and within-subjects independent variables. Advantages and disadvantages of using multifactor research designs to test psychological hypotheses. Hierarchical designs and incomplete factorials. The use of covariates and blocking to increase experimental precision. Problems created by missing data. Single subject designs. How to answer specific psychological questions in the context of complex designs. The design and analysis of non-experimental psychological research. Applications of such techniques as the analysis of variance and multiple linear regression to the data obtained with these research designs, with special attention to problems inherent in psychological research.

CR: PSYC 3950, Statistics 3520

LH: one laboratory period weekly

PR: PSYC 2911 and admission to a Major or an Honours program in Psychology or Behavioural Neuroscience

CALENDAR ENTRY AFTER CHANGES

3900 Design and Analysis III is a course on complex and specialized research design in Psychology. Multifactor research designs that employ both between- and within-subjects independent variables. Advantages and disadvantages of using multifactor research designs to test psychological hypotheses. Hierarchical designs and incomplete factorials. The use of covariates and blocking to increase experimental precision. Problems created by missing data. Single subject designs. How to answer specific psychological questions in the context of complex designs. The design and analysis of non-experimental psychological research. Applications of such techniques as the

analysis of variance and multiple linear regression to the data obtained with these research designs, with special attention to problems inherent in psychological research.

CR: PSYC 3950, Statistics 3520

LH: one laboratory period weekly

PR: PSYC 2911 and admission to an Honours program in Psychology or Behavioural Neuroscience

Memorial University of Newfoundland

Undergraduate Calendar Change Proposal Form

Senate Summary Page for Courses

COURSE NUMBER AND TITLE

PSYC 4910 Systems in Contemporary Psychology

RATIONALE

The addition of PSYC 3900 as a co-requisite will eliminate the current waivers required to enroll each student into to this course, which is a required course only for Honours students. Majors will be permitted to take the course if there is sufficient space. The wording has been simplified to integrate the courses offered on the St. John's and Grenfell campus.

CALENDAR CHANGES

4910 Systems in Contemporary Psychology is a study of paradigms and explanations in contemporary psychology in the context of their historical antecedents.
~~PR: at the St. John's campus, 30 credit hours in Psychology courses required in the majors program and admission to a Major in Psychology or Behavioural Neuroscience or, at the Grenfell campus, 30 credit hours in Psychology courses including Psychology 3950~~

CO: PSYC 3900 or 3950, or permission of instructor

PR: 30 credit hours in Psychology courses required in a Majors program

CALENDAR ENTRY AFTER CHANGES

4910 Systems in Contemporary Psychology is a study of paradigms and explanations in contemporary psychology in the context of their historical antecedents.

CO: PSYC 3900 or 3950, or permission of instructor

PR: 30 credit hours in Psychology courses required in a Majors program

SECONDARY CALENDAR CHANGES

13.25.3 Senior Courses

4910 Systems of Psychology is a study of paradigms and explanations in contemporary psychology in the context of their historical antecedents.

~~PR: at the St. John's campus, 30 credit hours in Psychology courses required in the majors program and admission to a Major in Psychology or Behavioural Neuroscience or, at the Grenfell campus, 30 credit hours in Psychology courses including Psychology 3950~~

CO: PSYC 3900 or 3950, or permission of instructor

PR: 30 credit hours in Psychology courses required in a Majors program

Memorial University of Newfoundland Undergraduate Calendar Change Proposal Form Senate Summary Page for Courses

COURSE NUMBER AND TITLE

PSYC 4980 The Psychology of Money and Financial Behavior

RATIONALE

The following course requires its pre-requisites to be updated to reflect the requirement that Behavioural Neuroscience majors take PSYC 2521 in lieu of PSYC 2520 (which is still taken by Psychology majors). PSYC 2520 OR PSYC 2521 is a pre-requisite for all 3000-level and 4000-level majors courses.

In addition, PSYC 2930 (a required course for all majors) was erroneously omitted as a pre-requisite (typographical error) but shall be added.

CALENDAR CHANGES

4980 The Psychology of Money and Financial Behavior is designed to help students understand the multitude of factors that influence decisions individuals make about money and other related objects of value. These factors include the perceptions, motivations, attitudes, emotions, personality characteristics, and cognitive process that underlie human interactions with money. The course will also explore the developmental and neurological bases of human monetary behavior as well as clinical aspects such as money related addictions, criminality, and psychopathology.

PR: PSYC 2520 or 2521, 2930 or the former 2570 and 2911, admission to a Major in Psychology or Behavioural Neuroscience, and any two 3000 level majors courses in Psychology

CALENDAR ENTRY AFTER CHANGES

4980 The Psychology of Money and Financial Behavior is designed to help students understand the multitude of factors that influence decisions individuals make about money and other related objects of value. These factors include the perceptions, motivations, attitudes, emotions, personality characteristics, and cognitive process that underlie human interactions with money. The course will also explore the developmental and neurological bases of human monetary behavior as well as clinical aspects such as money related addictions, criminality, and psychopathology.

PR: PSYC 2520 or 2521, 2930 or the former 2570, 2911, admission to a Major in Psychology or Behavioural Neuroscience, and any two 3000 level majors courses in Psychology

Memorial University of Newfoundland

Undergraduate Calendar Change Proposal Form

Senate Summary Page for Courses

COURSE NUMBER AND TITLE

PSYC 499A/B Honours Dissertation

RATIONALE

This change will add the pre-requisite that prior to enrolment in the Honours dissertation course, students should have completed at least two 3000- level majors courses in Psychology.

CALENDAR CHANGES

499A and 499B Honours Dissertation is a linked course, based on independent study of an approved problem in Psychology. The topic will be chosen in consultation with the Faculty Advisor. The first semester will normally involve directed reading in this area, and preparation of a dissertation proposal. The second semester will be devoted to conducting the study, gathering data, data analysis and preparation of a formal written report. The dissertation must be submitted for grading before the end of the tenth week of the semester in which the student is registered for 499B.

CH: 6

PR: admission to the Honours Program and a minimum of 6 credit hours in Psychology majors courses at the 3000 level or above

CALENDAR ENTRY AFTER CHANGES

499A and 499B Honours Dissertation is a linked course, based on independent study of an approved problem in Psychology. The topic will be chosen in consultation with the Faculty Advisor. The first semester will normally involve directed reading in this area, and preparation of a dissertation proposal. The second semester will be devoted to conducting the study, gathering data, data analysis and preparation of a formal written report. The dissertation must be submitted for grading before the end of the tenth week of the semester in which the student is registered for 499B.

CH: 6

PR: admission to the Honours Program and a minimum of 6 credit hours in Psychology majors courses at the 3000 level or above

Memorial University of Newfoundland Undergraduate Calendar Change Proposal Form Appendix Page

CONSULTATIONS SOUGHT

Academic Unit	Response Received
Humanities and Social Sciences	Yes
Business Administration	No
Education	No
Engineering and Applied Science	No
Human Kinetics and Recreation	No
Marine Institute	Yes
Medicine	Yes
Music	Yes
Nursing	No
Pharmacy	No
Science	
Biochemistry	No
Biology	Yes
Chemistry	No
Computer Science	No
Earth Sciences	No
Mathematics and Statistics	No
Ocean Sciences	Yes
Office of the Dean	No
Physics and Oceanography	No
Social Work	No
Library	No

Grenfell Campus	
Arts and Social Science	Yes
Science and the Environment	Yes
Fine Arts	Yes

LIBRARY REPORT

None required

RESOURCE IMPLICATIONS

Nil

Subject RE: Consultation for Calendar Changes- Psychology Majors Courses
From Hennessey, Todd <THENNESSEY@grenfell.mun.ca>
To Deputy Head, Department of Psychology <psychdeputyhead@mun.ca>
Date 2020-10-30 10:06



Hi Carolyn
 Thanks once again for the opportunity to review; no feedback from Fine Arts.

Todd

TODD HENNESSEY, PhD (Birmingham) | DEAN

School of Fine Arts
 Grenfell Campus, Memorial University
 Corner Brook, Newfoundland
 O: 709.637.6277
 C: 709.640.5695

www.grenfell.mun.ca

-----Original Message-----

From: Deputy Head, Department of Psychology <psychdeputyhead@mun.ca>
 Sent: October 29, 2020 3:01 PM
 To: hss@mun.ca; Shannahan, Rachelle <rshannahan@mun.ca>; Collett, Meghan <mcollett@mun.ca>;
engrconsult@mun.ca; Rohr, Linda <lerohr@mun.ca>; MIUG Consultations <MIUGconsultations@mi.mun.ca>;
deanofmedicine@med.mun.ca; Sutherland, Ian D <isutherland@mun.ca>; deanNurse@mun.ca;
pharminfo@mun.ca; deansci@mun.ca; adeanugradswk@mun.ca; univlib@mun.ca; Jacobsen, Ken
 <kjacobse@grenfell.mun.ca>; Dean - School of Science and the Environment
 <ssedean@grenfell.mun.ca>; Hennessey, Todd <THENNESSEY@grenfell.mun.ca>
 Subject: Consultation for Calendar Changes- Psychology Majors Courses

Hello-

The Psychology Department is proposing a set of Calendar changes to our Majors course. Please find attached a set of Senate Summary pages outlining the following changes:

1. Addition to PSYC 2930 of a co-requisite or pre-requisite of PSYC 2910.
2. Addition of the course PSYC 2521, introduced last year as a replacement of PSYC 2520 for our Behavioural Neuroscience majors, as an option to the current pre-requisite PSYC 2520 (still taken by Psychology majors) for all of our 3000- and 4000-level majors courses.
3. Credit restriction for PSYC 3251 with PSYC 2225 (Grenfell course).
4. Credit restriction for PSYC 3810 with PSYC 2825 (Grenfell course).
5. Clarification via a UL for PSYC 3510 and 3511 that these courses cannot fulfill the 3000-level major course requirements.
6. Change of the pre-requisite to PSYC 3900 from admission to the Majors to admission to the Honours program, as this course is reserved for Honours students.
7. Addition to PSYC 4910 of the pre-requisite or co-requisite of PSYC 3900, to restrict this course primarily to Honours students. An addition also notes that majors may be admitted if there is sufficient space.
 (Note that this change will create a secondary change in Section 13.25.3, Grenfell courses).
8. Addition to PSYC 4980 of the pre-requisite of PSYC 2930, which corrects a typographical error.
9. The addition to PSYC 499A/B (Honours Dissertation) of the pre-requisite of at least two 3000-level majors courses in Psychology.

These changes will not require a Library Report and have no resource

Subject RE: Consultation for Calendar Changes- Psychology Majors Courses
From MIUG Consultations <MIUGconsultations@mi.mun.ca>
To Deputy Head, Department of Psychology <psychdeputyhead@mun.ca>
Date 2020-10-30 11:05



Hello,

Thank you for the opportunity to review and comment on the proposal for Calendar Changes to Psychology Majors courses.

The Marine Institute supports the proposal.

Regards,
 Bev

Bev Fleet
 Chair, Undergraduate Studies Committee
 Marine Institute, Memorial University
 TEL: 709-778-0369
 FAX: 709-778-0535
Bev.Fleet@mi.mun.ca

-----Original Message-----

From: Deputy Head, Department of Psychology <psychdeputyhead@mun.ca>
 Sent: Thursday, October 29, 2020 3:01 PM
 To: hss@mun.ca; rshannahan@mun.ca; mcollett@mun.ca; engrconsult@mun.ca; lerohr@mun.ca; MIUG Consultations <MIUGconsultations@mi.mun.ca>; deanofmedicine@med.mun.ca; isutherland@mun.ca; deanNurse@mun.ca; pharminfo@mun.ca; deansci@mun.ca; adeanugradswk@mun.ca; univlib@mun.ca; kjacobse@grenfell.mun.ca; ssedean@grenfell.mun.ca; thennessey@grenfell.mun.ca
 Subject: Consultation for Calendar Changes- Psychology Majors Courses

Hello-

The Psychology Department is proposing a set of Calendar changes to our Majors course. Please find attached a set of Senate Summary pages outlining the following changes:

1. Addition to PSYC 2930 of a co-requisite or pre-requisite of PSYC 2910.
2. Addition of the course PSYC 2521, introduced last year as a replacement of PSYC 2520 for our Behavioural Neuroscience majors, as an option to the current pre-requisite PSYC 2520 (still taken by Psychology majors) for all of our 3000- and 4000-level majors courses.
3. Credit restriction for PSYC 3251 with PSYC 2225 (Grenfell course).
4. Credit restriction for PSYC 3810 with PSYC 2825 (Grenfell course).
5. Clarification via a UL for PSYC 3510 and 3511 that these courses cannot fulfill the 3000-level major course requirements.
6. Change of the pre-requisite to PSYC 3900 from admission to the Majors to admission to the Honours program, as this course is reserved for Honours students.
7. Addition to PSYC 4910 of the pre-requisite or co-requisite of PSYC 3900, to restrict this course primarily to Honours students. An addition also notes that majors may be admitted if there is sufficient space.
 (Note that this change will create a secondary change in Section 13.25.3, Grenfell courses).
8. Addition to PSYC 4980 of the pre-requisite of PSYC 2930, which corrects a typographical error.
9. The addition to PSYC 499A/B (Honours Dissertation) of the pre-requisite of at least two 3000-level majors courses in Psychology.

Subject **Re: FW: Consultation for Calendar Changes- Psychology Majors Courses**
 From Annie Mercier <amercier@mun.ca>
 To <psychdeputyhead@mun.ca>
 Date 2020-10-30 12:19



Dear Carolyn:

Our undergraduate committee has reviewed the proposal and we have no issues with the suggested changes to the Psychology Majors Courses.

All the best,

Annie

Annie Mercier, PhD
 Professor and Deputy Head
 Department of Ocean Sciences
 Memorial University
 709-864-2011
amercier@mun.ca

On 2020-10-29 3:14 p.m., Dean of Science wrote:

-----Original Message-----

From: Deputy Head, Department of Psychology [mailto:psychdeputyhead@mun.ca]
 Sent: Thursday, October 29, 2020 3:01 PM

Hello-

The Psychology Department is proposing a set of Calendar changes to our Majors course. Please find attached a set of Senate Summary pages outlining the

1. Addition to PSYC 2930 of a co-requisite or pre-requisite of PSYC 2910.
2. Addition of the course PSYC 2521, introduced last year as a replacement of PSYC 2520 for our Behavioural Neuroscience majors, as an option to the curriculum for all of our 3000- and 4000-level majors courses.
3. Credit restriction for PSYC 3251 with PSYC 2225 (Grenfell course).
4. Credit restriction for PSYC 3810 with PSYC 2825 (Grenfell course).
5. Clarification via a UL for PSYC 3510 and 3511 that these courses cannot fulfill the 3000-level major course requirements.
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8. Addition to PSYC 4980 of the pre-requisite of PSYC 2930, which corrects a typographical error.
9. The addition to PSYC 499A/B (Honours Dissertation) of the pre-requisite of at least two 3000-level majors courses in Psychology.

These changes will not require a Library Report and have no resource implications.

Please send any comments on these proposals to me at:

psychdeputyhead@mun.ca

Thanks,
 Carolyn

Subject Consultation for Calendar Changes– Psychology Majors Courses
From Karen Bulmer <kbulmer@mun.ca>
To <psychdeputyhead@mun.ca>
Date 2020-11-02 08:37



The School of Music has no issue with the proposed changes.

Sincerely,

Dr. Karen Bulmer — Associate Dean (Teaching and Learning)
Associate Professor of Low Brass
Graduate Officer for Ethnomusicology Programs (MA/PhD)
(she/her/hers)
School of Music
Memorial University of Newfoundland
St. John's, NL A1C 5S7
(709) 864-3673

Subject RE: Consultation for Calendar Changes– Department of Psychology
From Bailey, Robert F. <rbailey@grenfell.mun.ca>
To psychdeputyhead@mun.ca <psychdeputyhead@mun.ca>
Cc Piercey–Normore, Michele D <mpiercey–normore@grenfell.mun.ca>, Scott, Robert J. <rscott@grenfell.mun.ca>, Bennett, Sylvia S. <sylviab@grenfell.mun.ca>, Warkentin, Ian <ian.warkentin@grenfell.mun.ca>, Jacobsen, Ken <kjacobse@grenfell.mun.ca>
Date 2020–11–02 14:39



Dear Carolyn,

The three sets of Calendar change proposals from the Department of Psychology have been forwarded to me.

The proposed changes seem sensible to me and there is no impact of any of them on the School of Science and the Environment at Grenfell Campus. I have a couple of small comments, including one not directly related to the proposals:

1. No comments about the changes to Psychology majors courses, other than that the wording of the prerequisites for PSYC 4910 does seem quite complicated and perhaps could be phrased differently.
2. No comments about the changes to Psychology non–restricted courses, other than to mention that PSYC 2150, 2800 and 3533 are also listed in the Grenfell Campus section of the Calendar -- but the School of Arts and Social Science would have to determine if a corresponding change should be made.
3. In the Psychology degree regulations, while this is not directly related to the changes proposed, perhaps the opportunity could be taken to address the following issue. In the Calendar entry for the Requirements for a Major in Psychology (11.11.3), clause 2c gives precedence to a Chemistry route which is no longer offered (CHEM 1010/1011) rather than one which is (CHEM 1050/1051), and also omits the Grenfell Campus version (CHEM 1200/1001), even though this does appear in some of the department's other programs (e.g. Behavioural Neuroscience), as well as other programs in the Faculty of Science (including Chemistry).

In order to accurately reflect current offerings in Chemistry at both campuses (as well as to accommodate students who may have taken first–year Chemistry in the past), I suggest rephrasing 2c as follows:

"Either Chemistry 1050 and 1051 (or 1200 and 1001, or 1010 and the former 1011), or Physics 1020 (or 1050) and 1021 (or 1051)."

Thank you for the opportunity to comment on these proposals.

Regards,

Robert Bailey

Chair, Committee on Academic Programming

School of Science and the Environment

Subject Comments on cal changes from AD in HSS
From Craig, Ailsa <acraig@mun.ca>
To psychdeputyhead@mun.ca <psychdeputyhead@mun.ca>
Date 2020-10-29 16:38



Dear Carolyn

I've reviewed both sets of calendar changes, and am curious if requiring PSYC 1000 and 1001 as PR for 2930 is necessary when PSYC 1000 is being removed as PR in the other set of changes because of AP PSYC credits? —although that might be specific to only those courses because they are non-restricted courses, I'm not sure.

For the non-restricted courses, I am also wondering if how the rationale is worded is correctly—but I'm not familiar with how the AP courses for psyc work, so it may be fully clear to others.

I hope your term is going well,

Ailsa

Subject Psychology Changes**From** Warren, Kelly <kwarren@grenfell.mun.ca>**To** psychdeputyhead@mun.ca <psychdeputyhead@mun.ca>**Date** 2020-11-24 12:31

Hi Carolyn,

I just received the changes you noted. Thanks for passing that along. I had meant to get back to you earlier, but I'm not quite sure where this semester is going. The one thing we did note is in 4910, the 3950 has actually been changed to 2950 for our requirements and that is supposed to come into effect with the 2021-2022 calendar. I mentioned it to our registrar back when you first sent out the email looking for consultation and she said it should automatically be updated but to let you know just in case. This is in relation to our general students no longer having to complete the 3950 course as part of the degree. That course is now reserved mainly for the honours program as 3900 is for students on the St. John's campus. I will note the changes you have indicated. Thanks again.

Kelly

Sent from my iPhone



Subject Re: Fwd: FW: Consultation for Calendar Changes- Psychology Majors Courses
From Suzanne Dufour <sdufour@mun.ca>
To Deputy Head, Department of Psychology <psychdeputyhead@mun.ca>
Reply-To <sdufour@mun.ca>
Reply-To <sdufour@mun.ca>
Date 2020-11-14 09:08

Thank you Carolyn, that makes sense!

Have a good weekend,
Suzanne

On 2020-11-03 15:27, Deputy Head, Department of Psychology wrote:

Thanks, Suzanne.

The rationale for 3510/3511 not counting for the 3rd year course requirements is that these courses are not actually what I'd call 'broad content courses' in our specific research areas, such as Cognition, Animal Behaviour, etc.- unlike our other 3000-level courses.

Instead, the Directed Studies courses are most often very focussed quasi-independent research projects that students engage in with a faculty member. So, they are probably more valuable in some ways with respect to the depth of learning, but they lack the breadth that the 3000-level content courses are designed to give.

Best,
Carolyn

On 2020-11-03 14:47, Suzanne Dufour wrote:

Hi Carolyn,

The Biology Undergraduate Studies Committee has reviewed the proposed calendar changes to the Majors and Non-Majors courses in Psychology. We are supportive of all the proposed changes. Out of curiosity - could you share with us your rationale for why PSYC 3510 and 3511 cannot fulfill the 3000-level major course requirements?

Thanks,
Suzanne

Suzanne Dufour
 Associate Professor
 Department of Biology and Deputy Head (Undergraduate)
 Memorial University of Newfoundland
 St. John's, NL
 A1B 3X9
 Canada

Tel: (709)864-8025
 Fax: (709)864-3018

----- Original Message -----

Subject: FW: Consultation for Calendar Changes- Psychology Majors Courses
 Date: 2020-10-29 15:14
 From: Dean of Science <deansci@mun.ca>
 To: Amina Ahmed Mahmood <aamahmood@mun.ca>, "Todd, Amy M." <amy.todd@mun.ca>, BiocDHundergrad <biocdhundergrad@mun.ca>, "Hyde, Cathy" <cathy@mun.ca>, Chemistry <chemconsult@mun.ca>, Computer Science consultation <compsci@mun.ca>, Earth Sciences <eascugcon@mun.ca>, James Munroe <jmunroe@mun.ca>, Mark Hatcher

Memorial University of Newfoundland

Undergraduate Calendar Change Proposal Form

Cover Page

LIST OF CHANGES

Indicate the Calendar change(s) being proposed by checking and completing as appropriate:

- ☐ New course(s):
- ☒ Amended or ~~deleted~~ course(s): PSYC 2010, 2020, 2030, 2100, 2150, 2151, 2540, 2800, 2810, 2920, 3533
- ☐ New program(s):
- ☐ Amended or deleted program(s):
- ☐ New, amended or deleted Glossary of Terms Used in the Calendar entries
- ☐ New, amended or deleted Admission/Readmission to the University (Undergraduate) regulations
- ☐ New, amended or deleted General Academic Regulations (Undergraduate)
- ☐ New, amended or deleted Faculty, School or Departmental regulations
- ☐ Other:

ADMINISTRATIVE AUTHORIZATION

By signing below, you are confirming that the attached Calendar changes have obtained all necessary Faculty/School approvals, and that the costs, if any, associated with these changes can be met from within the existing budget allocation or authorized new funding for the appropriate academic unit.

Signature of Dean/Vice-President: _____

Date: _____

Date of approval by Faculty/Academic Council: _____

Memorial University of Newfoundland Undergraduate Calendar Change Proposal Form Senate Summary Page for Courses

COURSE NUMBER AND TITLE

PSYC 2010 **Biological and Cognitive Development**
PSYC 2020 **Social and Personality Development**
PSYC 2030 **Adult Development**
PSYC 2100 **Attitudes and Social Cognition**
PSYC 2150 **Introduction to Forensic Psychology**
PSYC 2151 **Health Psychology**
PSYC 2540 **Psychology of Gender**
PSYC 2800 **Drugs and Behaviour**
PSYC 2920 **Research Methods in Psychology for Non-Majors**
PSYC 3533 **Sexual Behaviour**

RATIONALE

This change will remove the PR of PSYC 1000 from these non-majors Psychology courses to eliminate the current need to sign pre-requisite course waivers for students with Advanced Placement in Psychology (i.e., credit for PSYC 1001).

CALENDAR CHANGES

2010 Biological and Cognitive Development is a survey of principles underlying human development from the prenatal stage to adolescence. Topics covered will include biological, physical, linguistic, sensory, cognitive and intellectual changes.

CR: PSYC 2025, PSYC 3050

PR: PSYC ~~1000~~ and 1001

UL: cannot be used towards the Psychology major

2020 Social and Personality Development (same as the former PSYC 2011) is an examination of relevant research on human socialization and personality development with special emphasis on parenting influences, attachment, imitation, sex role and moral development in childhood and adolescence.

CR: PSYC 2025, the former PSYC 2011

PR: PSYC ~~1000~~ and 1001

UL: cannot be used towards the Psychology major

2030 Adult Development (same as the former PSYC 2012) examines physical and psychological changes from early adulthood until the end of the lifespan. Topics include career choices, love partnerships, parenting and grandparenting, cognitive changes, interpersonal changes, and healthy aging.

CR: the former PSYC 2012

PR: PSYC ~~1000~~ and 1001

UL: cannot be used towards the Psychology major

2100 Attitudes and Social Cognition is an examination of the concepts and principles involved in the interaction between the individual and others. Emphasis will be on the theoretical and empirical concerns of attitude formation and change, social perception, and social cognition.

CR: the former PSYC 2125, PSYC 3100

PR: PSYC ~~4000~~ and 1001

UL: cannot be used towards the Psychology major

2150 Introduction to Forensic Psychology will provide an in-depth overview of the relationship between psychology and the law. A variety of topics will be discussed and critically evaluated, including the use and misuse of psychology-based investigative methods such as offender and geographic profiling, detection of deception, investigative interviewing, eyewitness testimony, jury decision-making, corrections and treatment, risk assessment, and criminal responsibility.

PR: PSYC ~~4000~~ and 1001

UL: cannot be used towards the Psychology major

2151 Health Psychology will explore the history, aims and future of health psychology. Topics covered will consider the contributions of a wide range of psychological theory within the context of psychosocial risk factors for illness, illness prevention, health promotion, and the health care system itself. These theories extend from rather individualistic notions of health and wellness (e.g., personality, attitudes, and behaviour) to concepts associated with characteristics of the broader social environment (e.g., social support, economic challenges, and organizational factors). An overall bio-psycho-social approach to health and wellness is explored.

PR: PSYC ~~4000~~ and 1001

UL: cannot be used towards the Psychology major

2540 Psychology of Gender is an examination of the influence of gender on development and socialization, attitude formation, cognition, personality and mental health.

PR: PSYC ~~4000~~ and 1001

UL: cannot be used towards the Psychology major

2800 Drugs and Behaviour is an examination of the neurophysiology of drug action, the measurable effect of drugs on experimentally controlled behaviour, and a survey of information available on common self-administered drugs and their immediate and long-term effects.

PR: PSYC ~~4000~~ and 1001

UL: cannot be used towards the Psychology major

2920 Research Methods in Psychology for Non-Majors provides an introduction to the design, understanding, and application of psychological research. Topics covered include understanding and applying scientific method, creating and testing hypotheses,

constructing reliable and valid experiments, and the proper use of controls. An emphasis will be placed on thinking critically about psychology and common errors of judgment.

PR: PSYC ~~4000~~ and 1001

UL: cannot be used towards the Psychology major or any Psychology honours or joint honours programs

3533 Sexual Behaviour covers the most important aspects of human sexuality with a psychology theory and research framework. The course will examine the biological, behavioural and socio-cultural bases of the human sexual response. Topics include sexual interaction and communication, contraception, sexually transmitted infections, reproduction, sexual orientation, transgender and intersex, variations in sexual behaviour, sex and gender, sexual dysfunction and therapy, and sexual coercion.

PR: PSYC ~~4000~~ and 1001

UL: cannot be used towards the Psychology major

CALENDAR ENTRY AFTER CHANGES

2010 Biological and Cognitive Development is a survey of principles underlying human development from the prenatal stage to adolescence. Topics covered will include biological, physical, linguistic, sensory, cognitive and intellectual changes.

CR: PSYC 2025, PSYC 3050

PR: PSYC 1001

UL: cannot be used towards the Psychology major

2020 Social and Personality Development (same as the former PSYC 2011) is an examination of relevant research on human socialization and personality development with special emphasis on parenting influences, attachment, imitation, sex role and moral development in childhood and adolescence.

CR: PSYC 2025, the former PSYC 2011

PR: PSYC 1001

UL: cannot be used towards the Psychology major

2030 Adult Development (same as the former PSYC 2012) examines physical and psychological changes from early adulthood until the end of the lifespan. Topics include career choices, love partnerships, parenting and grandparenting, cognitive changes, interpersonal changes, and healthy aging.

CR: the former PSYC 2012

PR: PSYC 1001

UL: cannot be used towards the Psychology major

2100 Attitudes and Social Cognition is an examination of the concepts and principles involved in the interaction between the individual and others. Emphasis will be on the theoretical and empirical concerns of attitude formation and change, social perception, and social cognition.

CR: the former PSYC 2125, PSYC 3100

PR: PSYC 1001

UL: cannot be used towards the Psychology major

2150 Introduction to Forensic Psychology will provide an in-depth overview of the relationship between psychology and the law. A variety of topics will be discussed and critically evaluated, including the use and misuse of psychology-based investigative methods such as offender and geographic profiling, detection of deception, investigative interviewing, eyewitness testimony, jury decision-making, corrections and treatment, risk assessment, and criminal responsibility.

PR: PSYC 1001

UL: cannot be used towards the Psychology major

2151 Health Psychology will explore the history, aims and future of health psychology. Topics covered will consider the contributions of a wide range of psychological theory within the context of psychosocial risk factors for illness, illness prevention, health promotion, and the health care system itself. These theories extend from rather individualistic notions of health and wellness (e.g., personality, attitudes, and behaviour) to concepts associated with characteristics of the broader social environment (e.g., social support, economic challenges, and organizational factors). An overall bio-psycho-social approach to health and wellness is explored.

PR: PSYC 1001

UL: cannot be used towards the Psychology major

2540 Psychology of Gender is an examination of the influence of gender on development and socialization, attitude formation, cognition, personality and mental health.

PR: PSYC 1001

UL: cannot be used towards the Psychology major

2800 Drugs and Behaviour is an examination of the neurophysiology of drug action, the measurable effect of drugs on experimentally controlled behaviour, and a survey of information available on common self-administered drugs and their immediate and long-term effects.

PR: PSYC 1001

UL: cannot be used towards the Psychology major

2920 Research Methods in Psychology for Non-Majors provides an introduction to the design, understanding, and application of psychological research. Topics covered include understanding and applying scientific method, creating and testing hypotheses, constructing reliable and valid experiments, and the proper use of controls. An emphasis will be placed on thinking critically about psychology and common errors of judgment.

PR: PSYC 1001

UL: cannot be used towards the Psychology major or any Psychology honours or joint honours programs

3533 Sexual Behaviour covers the most important aspects of human sexuality with a psychology theory and research framework. The course will examine the biological, behavioural and socio-cultural bases of the human sexual response. Topics include sexual interaction and communication, contraception, sexually transmitted infections, reproduction, sexual orientation, transgender and intersex, variations in sexual behaviour, sex and gender, sexual dysfunction and therapy, and sexual coercion.

PR: PSYC 1001

UL: cannot be used towards the Psychology major

SECONDARY CALENDAR CHANGES

13.25.4 Non-Restricted Courses

2150 Introduction to Forensic Psychology will provide an in-depth overview of the relationship between psychology and the law. A variety of topics will be discussed and critically evaluated, including the use and misuse of psychology-based investigative methods such as offender and geographic profiling, detection of deception, investigative interviewing, eyewitness testimony, jury decision-making, corrections and treatment, risk assessment, and criminal responsibility.

PR: PSYC ~~4000~~ and 1001

UL: cannot be used towards the Psychology major

2800 Drugs and Behaviour is an examination of the neurophysiology of drug action, the measurable effect of drugs on experimentally controlled behaviour, and a survey of information available on common self-administered drugs and their immediate and long-term effects.

PR: PSYC ~~4000~~ and 1001

UL: cannot be used towards the Psychology major

3533 Sexual Behaviour

covers the most important aspects of human sexuality with a psychology theory and research framework. The course will examine the biological, behavioural and socio-cultural bases of the human sexual response. Topics include sexual interaction and communication, contraception, sexually transmitted infections, reproduction, sexual orientation, transgender and intersex, variations in sexual behaviour, sex and gender, sexual dysfunction and therapy, and sexual coercion.

PR: PSYC ~~4000~~ and 1001

UL: cannot be used towards the Psychology major

Memorial University of Newfoundland Undergraduate Calendar Change Proposal Form Senate Summary Page for Courses

COURSE NUMBER AND TITLE

PSYC 2810 Brain and Behaviour

RATIONALE

This change will remove the PR of PSYC 1000 to eliminate the current need to sign pre-requisite course waivers for students with Advanced Placement in Psychology (i.e., credit for PSYC 1001).

In addition, the recently introduced course PSYC 2521 (course for Behavioural Neuroscience majors equivalent to 2520), will be added as a credit restriction.

CALENDAR CHANGES

2810 Brain and Behaviour is a broad survey of physiological psychology at an elementary level. Topics will include the following: structure of the nervous system, nerve conduction, sensory and motor systems, behavioural biology of reproduction, aggression, feeding and drinking, sleep and arousal, pleasure and pain, learning and memory.

CR: PSYC 2520 or 2521, 2825, the former PSYC 3801

PR: PSYC ~~4000~~ and 1001

CALENDAR ENTRY AFTER CHANGES

2810 Brain and Behaviour is a broad survey of physiological psychology at an elementary level. Topics will include the following: structure of the nervous system, nerve conduction, sensory and motor systems, behavioural biology of reproduction, aggression, feeding and drinking, sleep and arousal, pleasure and pain, learning and memory.

CR: PSYC 2520 or 2521, 2825, the former PSYC 3801

PR: PSYC 1001

Memorial University of Newfoundland

Undergraduate Calendar Change Proposal Form

Appendix Page

CONSULTATIONS SOUGHT

Academic Unit	Response Received
Humanities and Social Sciences	Yes
Business Administration	No
Education	No
Engineering and Applied Science	Yes
Human Kinetics and Recreation	Yes
Marine Institute	No
Medicine	No
Music	No
Nursing	No
Pharmacy	No
Science	
Biochemistry	No
Biology	No
Chemistry	No
Computer Science	No
Earth Sciences	No
Mathematics and Statistics	No
Ocean Sciences	Yes
Office of the Dean	No
Physics and Oceanography	No
Social Work	No
Library	No

Grenfell Campus	
Arts and Social Science	Yes
Science and the Environment	Yes
Fine Arts	Yes

LIBRARY REPORT

None required

RESOURCE IMPLICATIONS

Nil

Subject Comments on cal changes from AD in HSS
From Craig, Ailsa <acraig@mun.ca>
To psychdeputyhead@mun.ca <psychdeputyhead@mun.ca>
Date 2020-10-29 16:38



Dear Carolyn

I've reviewed both sets of calendar changes, and am curious if requiring PSYC 1000 and 1001 as PR for 2930 is necessary when PSYC 1000 is being removed as PR in the other set of changes because of AP PSYC credits? —although that might be specific to only those courses because they are non-restricted courses, I'm not sure.

For the non-restricted courses, I am also wondering if how the rationale is worded is correctly—but I'm not familiar with how the AP courses for psyc work, so it may be fully clear to others.

I hope your term is going well,

Ailsa

Subject RE: Consultation for Calendar Changes- Psychology Non-restricted Courses
From Hennessey, Todd <THENNESSEY@grenfell.mun.ca>
To Deputy Head, Department of Psychology <psychdeputyhead@mun.ca>
Date 2020-10-30 10:03



Hi Charlene
 Thanks again, and no feedback from us on this.

Cheers
 Todd

TODD HENNESSEY, PhD (Birmingham) | DEAN

School of Fine Arts
 Grenfell Campus, Memorial University
 Corner Brook, Newfoundland
 O: 709.637.6277
 C: 709.640.5695

www.grenfell.mun.ca

-----Original Message-----

From: Deputy Head, Department of Psychology <psychdeputyhead@mun.ca>
 Sent: October 29, 2020 3:16 PM
 To: hss@mun.ca; Shannahan, Rachelle <rshannahan@mun.ca>; Collett, Meghan <mcollett@mun.ca>; engrconsult@mun.ca; Rohr, Linda <lerohr@mun.ca>; MIUG Consultations <MIUGconsultations@mi.mun.ca>; deanofmedicine@med.mun.ca; Sutherland, Ian D <isutherland@mun.ca>; deanNurse@mun.ca; pharminfo@mun.ca; deansci@mun.ca; adeanugradswk@mun.ca; univlib@mun.ca; Jacobsen, Ken <kjacobse@grenfell.mun.ca>; Dean - School of Science and the Environment <ssedean@grenfell.mun.ca>; Hennessey, Todd <THENNESSEY@grenfell.mun.ca>
 Subject: Consultation for Calendar Changes- Psychology Non-restricted Courses

Hello again-

The Psychology Department is proposing a set of Calendar changes to our Non-Majors course. Please find attached a set of Senate Summary pages outlining the following changes:

1. Removing the pre-requisite of PSYC 1000 from all of our non-restricted (non-majors) courses. This change will remove the requirement for us to sign course waivers for PSYC 1000 for students who have Advanced Placement (AP) scores in Psychology of at least 4, which gives them credit for completion of PSYC 1001.

2. Adding a credit restriction to PSYC 2810 of the recently-introduced PSYC 2521, which overlaps in content.

These changes will not require a Library Report and have no resource implications.

Please send any comments on these proposals to me at:
psychdeputyhead@mun.ca

Thanks,
 Carolyn

--
 Carolyn Walsh, PhD (she/her)
 Associate Professor
 Deputy Head, Psychology
 Memorial University
 St. John's, NL,
 A1B 3X9
 phone: 709-864-4738
 fax: 709-864-2430
 e-mail: psychdeputyhead@mun.ca

Subject **Re: FW: Consultation for Calendar Changes- Psychology Non-restricted Courses**
From Annie Mercier <amercier@mun.ca>
To <psychdeputyhead@mun.ca>
Date 2020-10-30 12:18



Dear Carolyn:

Our undergraduate committee has reviewed the proposal and we have no issues with the suggested changes.

All the best,

Annie

Annie Mercier, PhD
Professor and Deputy Head
Department of Ocean Sciences
Memorial University
709-864-2011
amercier@mun.ca

On 2020-10-29 3:30 p.m., Dean of Science wrote:

-----Original Message-----
From: Deputy Head, Department of Psychology [mailto:psychdeputyhead@mun.ca]
Sent: Thursday, October 29, 2020 3:16 PM
Subject: Consultation for Calendar Changes- Psychology Non-restricted Courses

Hello again-

The Psychology Department is proposing a set of Calendar changes to our Non-Majors course. Please find attached a set of Senate Summary pages outlining

1. Removing the pre-requisite of PSYC 1000 from all of our non-restricted (non-majors) courses. This change will remove the requirement for us to sign c
2. Adding a credit restriction to PSYC 2810 of the recently-introduced PSYC 2521, which overlaps in content.

These changes will not require a Library Report and have no resource implications.

Please send any comments on these proposals to me at:
psychdeputyhead@mun.ca

Thanks,
Carolyn

--
Carolyn Walsh, PhD (she/her)
Associate Professor
Deputy Head, Psychology
Memorial University
St. John's, NL,
A1B 3X9
phone: 709-864-4738
fax: 709-864-2430
e-mail: psychdeputyhead@mun.ca

Subject RE: Consultation for Calendar Changes– Department of Psychology
From Bailey, Robert F. <rbailey@grenfell.mun.ca>
To psychdeputyhead@mun.ca <psychdeputyhead@mun.ca>
Cc Piercey–Normore, Michele D <mpiercey–normore@grenfell.mun.ca>, Scott, Robert J. <rscott@grenfell.mun.ca>, Bennett, Sylvia S. <sylviab@grenfell.mun.ca>, Warkentin, Ian <ian.warkentin@grenfell.mun.ca>, Jacobsen, Ken <kjacobse@grenfell.mun.ca>
Date 2020–11–02 14:39



Dear Carolyn,

The three sets of Calendar change proposals from the Department of Psychology have been forwarded to me.

The proposed changes seem sensible to me and there is no impact of any of them on the School of Science and the Environment at Grenfell Campus. I have a couple of small comments, including one not directly related to the proposals:

1. No comments about the changes to Psychology majors courses, other than that the wording of the prerequisites for PSYC 4910 does seem quite complicated and perhaps could be phrased differently.
2. No comments about the changes to Psychology non–restricted courses, other than to mention that PSYC 2150, 2800 and 3533 are also listed in the Grenfell Campus section of the Calendar -- but the School of Arts and Social Science would have to determine if a corresponding change should be made.
3. In the Psychology degree regulations, while this is not directly related to the changes proposed, perhaps the opportunity could be taken to address the following issue. In the Calendar entry for the Requirements for a Major in Psychology (11.11.3), clause 2c gives precedence to a Chemistry route which is no longer offered (CHEM 1010/1011) rather than one which is (CHEM 1050/1051), and also omits the Grenfell Campus version (CHEM 1200/1001), even though this does appear in some of the department's other programs (e.g. Behavioural Neuroscience), as well as other programs in the Faculty of Science (including Chemistry).

In order to accurately reflect current offerings in Chemistry at both campuses (as well as to accommodate students who may have taken first–year Chemistry in the past), I suggest rephrasing 2c as follows:

"Either Chemistry 1050 and 1051 (or 1200 and 1001, or 1010 and the former 1011), or Physics 1020 (or 1050) and 1021 (or 1051)."

Thank you for the opportunity to comment on these proposals.

Regards,

Robert Bailey

Chair, Committee on Academic Programming

School of Science and the Environment

Subject Psychology Changes

From Warren, Kelly <kwarren@grenfell.mun.ca>

To psychdeputyhead@mun.ca <psychdeputyhead@mun.ca>

Date 2020-11-24 12:31



Hi Carolyn,

I just received the changes you noted. Thanks for passing that along. I had meant to get back to you earlier, but I'm not quite sure where this semester is going. The one thing we did note is in 4910, the 3950 has actually been changed to 2950 for our requirements and that is supposed to come into effect with the 2021-2022 calendar. I mentioned it to our registrar back when you first sent out the email looking for consultation and she said it should automatically be updated but to let you know just in case. This is in relation to our general students no longer having to complete the 3950 course as part of the degree. That course is now reserved mainly for the honours program as 3900 is for students on the St. John's campus. I will note the changes you have indicated. Thanks again.

Kelly

Sent from my iPhone

Subject Re: Consultation for Calendar Changes– Psychology Non-restricted Courses
From Rohr, Linda <lrohr@mun.ca>
To Deputy Head, Department of Psychology <psychdeputyhead@mun.ca>
Date 2020-11-04 16:03



Hello,

No concerns from HKR for the proposed calendar changes to the Psychology non-restricted courses.

Linda

Linda E. Rohr PhD

Dean, School of Human Kinetics & Recreation

Memorial University

t: 709.864.8129 f: 709.864.7531 e: lrohr@mun.ca

PE 2027

We acknowledge that the lands on which Memorial University's campuses are situated are in the traditional territories of diverse Indigenous groups, and we acknowledge with respect the diverse histories and cultures of the Beothuk, Mi'kmaq, Innu, and Inuit of this province.

From: "Deputy Head, Department of Psychology" <psychdeputyhead@mun.ca>

Date: Thursday, October 29, 2020 at 3:15 PM

To: Faculty of Humanities and Social Sciences <hss@mun.ca>, "Shannahan, Rachelle" <rshannahan@mun.ca>, "Collett, Meghan" <mcollett@mun.ca>, "engrconsult@mun.ca" <engrconsult@mun.ca>, Linda Rohr <lrohr@mun.ca>, "miugconsultations@mi.mun.ca" <miugconsultations@mi.mun.ca>, "deanofmedicine@med.mun.ca" <deanofmedicine@med.mun.ca>, "Sutherland, Ian D" <isutherland@mun.ca>, DeanNurse <DeanNurse@mun.ca>, "pharminfo@mun.ca" <pharminfo@mun.ca>, Dean of Science <deansci@mun.ca>, adeanugradswk <adeanugradswk@mun.ca>, Library Correspondence <univlib@mun.ca>, "kjacobse@grenfell.mun.ca" <kjacobse@grenfell.mun.ca>, "ssedean@grenfell.mun.ca" <ssedean@grenfell.mun.ca>, "thennessey@grenfell.mun.ca" <thennessey@grenfell.mun.ca>

Subject: Consultation for Calendar Changes– Psychology Non-restricted Courses

Hello again–

The Psychology Department is proposing a set of Calendar changes to our

Memorial University of Newfoundland Undergraduate Calendar Change Proposal Form Cover Page

LIST OF CHANGES

Indicate the Calendar change(s) being proposed by checking and completing as appropriate:

- ☐ New course(s):
- ☐ Amended or deleted course(s):
- ☐ New program(s):
- ☒ Amended ~~or deleted~~ program(s):
 - 11.11.1 Admission to Majors Program
 - 11.11.2 Admission to Honours Programs
 - 11.11.3 Requirements for a Major in Psychology
 - 11.11.5 Requirements for a Major in Behavioural Neuroscience (BSc. Only)
 - 11.11.6. Requirements for Honours in Behavioural Neuroscience (BSc Only)
- ☐ New, amended or deleted Glossary of Terms Used in the Calendar entries
- ☐ New, amended or deleted Admission/Readmission to the University (Undergraduate) regulations
- ☐ New, amended or deleted General Academic Regulations (Undergraduate)
- ☐ New, amended or deleted Faculty, School or Departmental regulations
- ☐ Other:

ADMINISTRATIVE AUTHORIZATION

By signing below, you are confirming that the attached Calendar changes have obtained all necessary Faculty/School approvals, and that the costs, if any, associated with these changes can be met from within the existing budget allocation or authorized new funding for the appropriate academic unit.

Signature of Dean/Vice-President:

Date:

Date of approval by Faculty/Academic Council:

Memorial University of Newfoundland Undergraduate Calendar Change Proposal Form Senate Summary Page for Programs

PROGRAM TITLE

11.11.1 Admission to Major Program

RATIONALE

This entry is for student information to indicate that the application form for a Major in the Psychology Department can be found on the Psychology Department website.

CALENDAR CHANGES

11.11.1 Admission to Major Programs

Admission to the Major programs in the Department of Psychology is competitive and selective. Students who wish to enter these programs must submit a completed application form, available on the Psychology Department website in the Winter semester, to the Psychology Department by June 1 for Fall semester registration. To be eligible for admission, students must have completed the 24 credit hours as listed below with an average of at least 65% in Psychology 1000/1001 and an overall average of at least 60% in Psychology, [Critical Reading and Writing](#), and Mathematics:

1. Psychology 1000, 1001.
2. Six credit hours in [Critical Reading and Writing \(CRW\)](#) courses, including at least 3 credit hours in English courses.
3. Mathematics 1000, or two of 1090, 1050, 1051 (or equivalent).
4. Six credit hours of electives (9 if only Mathematics 1000 is successfully completed).

Students who fulfil the eligibility requirements compete for a limited number of available spaces. Selection is based on academic performance, normally cumulative average and performance in recent courses.

CALENDAR ENTRY AFTER CHANGES

11.11.1 Admission to Major Programs

Admission to the Major programs in the Department of Psychology is competitive and selective. Students who wish to enter these programs must submit a completed application form, available on the Psychology Department website in the Winter semester, to the Psychology Department by June 1 for Fall semester registration. To be eligible for admission, students must have completed the 24 credit hours as listed below with an average of at least 65% in Psychology 1000/1001 and an overall average of at least 60% in Psychology, [Critical Reading and Writing](#), and Mathematics:

1. Psychology 1000, 1001.
2. Six credit hours in [Critical Reading and Writing \(CRW\)](#) courses, including at least 3 credit hours in English courses.
3. Mathematics 1000, or two of 1090, 1050, 1051 (or equivalent).

4. Six credit hours of electives (9 if only Mathematics 1000 is successfully completed).

Students who fulfil the eligibility requirements compete for a limited number of available spaces. Selection is based on academic performance, normally cumulative average and performance in recent courses.

Memorial University of Newfoundland

Undergraduate Calendar Change Proposal Form

Senate Summary Page for Programs

PROGRAM TITLE

11.11. 2. Admission to Honours Programs

RATIONALE

This entry is for student information to indicate that the application form for Honours programs in the Psychology Department can be found on the Psychology Department website.

In addition, the list of courses required to be eligible for admission to Honours will be updated to include PSYC 2520 OR PSYC 2521. This reflects the recent change requiring Behavioural Neuroscience majors to take PSYC 2521 in lieu of PSYC 2520.

CALENDAR CHANGES

11.11.2 Admission to Honours Programs

The Honours programs in the Department of Psychology are designed for students who would like to concentrate their studies or pursue graduate work. Students who wish to be admitted to these programs must submit an ~~"Application for Admission to Honours Program Faculties of Humanities and Social Sciences or Science"~~ application to the Department of Psychology by June 1 for Fall semester registration. This form is available at ~~www.mun.ca/regoff/forms.php~~ on the Psychology Department website in the Winter semester. To be eligible for admission, students must have successfully completed Psychology 2910, 2911, 2520 or 2521, and 2930 and obtained in these courses a grade of "B" or better, or an average of 75% or higher. Students who fulfill the eligibility requirements compete for a limited number of available spaces. Selection is based on academic performance in the required courses. In special circumstances, students may be admitted to Honours Programs at times other than June.

Note: *Students are advised to consult the **Bachelor of Arts (Honours) Degree Regulations** or **Degree Regulations for the Honours Degree of Bachelor of Science**, as appropriate.*

CALENDAR ENTRY AFTER CHANGES

The Honours programs in the Department of Psychology are designed for students who would like to concentrate their studies or pursue graduate work. Students who wish to be admitted to these programs must submit an application to the Department of Psychology by June 1 for Fall semester registration. This form is available on the

Psychology Department website in the Winter semester. To be eligible for admission, students must have successfully completed Psychology 2910, 2911, 2520 or 2521, and 2930 and obtained in these courses a grade of "B" or better, or an average of 75% or higher. Students who fulfill the eligibility requirements compete for a limited number of available spaces. Selection is based on academic performance in the required courses. In special circumstances, students may be admitted to Honours Programs at times other than June.

Note: *Students are advised to consult the **Bachelor of Arts (Honours) Degree Regulations** or **Degree Regulations for the Honours Degree of Bachelor of Science**, as appropriate.*

Memorial University of Newfoundland Undergraduate Calendar Change Proposal Form Memorial University of Newfoundland Undergraduate Calendar Change Proposal Form Senate Summary Page for Programs

PROGRAM TITLE

11.11.3 Requirements for a Major in Psychology

RATIONALE

This entry amends the language for the Note in Clause 2d, which inaccurately describes the current course options for laboratory credit hours for a Major in Psychology.

CALENDAR CHANGES

11.11.3 Requirements for a Major in Psychology

Students completing this program cannot receive credit for Psychology 2920. Students who intend to pursue graduate studies should take courses leading to the Honours degree.

1. Students may Major in Psychology as part of either a B.A. or a B.Sc. program, and should consult the **Degree Regulations** for the General Degree of Bachelor of Science or the **Degree Regulations** for the General Degree of Bachelor of Arts, as appropriate. All Majors are required to complete a minimum of 42 credit hours of Psychology as listed below:
 - a. Psychology 1000, 1001, 2520 (or 2521), 2910, 2911, 2930.
 - b. Twelve credit hours in Psychology chosen from the following: 3050, 3100, the former PSYC 3250, 3251, 3350, 3450, 3620, 3650, 3750, or one of 3800, 3810, 3820, 3830, 3840 or 3860.
 - c. Twelve credit hours of 4000-level courses in Psychology, of which at least one must be a research experience course and one must be a selected topics course.
2. Psychology Majors following the B.Sc. program are also required to successfully complete the following:
 - a. Mathematics 1000 (or equivalent).
 - b. Biology 1001 and 1002.
 - c. Either Chemistry 1010 and the former 1011 (or 1050 and 1051); OR Physics 1020 (or 1050) and 1021 (or 1051).

Note:

First year students should think carefully about whether Chemistry or Physics best suits their future program needs. Students should examine the prerequisites for upper-level science courses and attempt to take them in their first year.

- d. Six credit hours of laboratory courses at the 2000 level or above in one of Biochemistry, Biology, Chemistry, Computer Science, Ocean Sciences or Physics. Students are advised to consult the **Course Descriptions** section of the Calendar for their chosen lab courses to ensure pre-requisites are met.

Note:

Biology/Psychology 3750 and 4701 and Biology 3053 cannot be used to satisfy the requirement of 6 laboratory credit hours at the 2000 level or above in either Biology, Chemistry, or Physics.

3. Psychology Majors following the B.A. program are also required to successfully complete Mathematics 1000 or two of 1090, 1050, 1051 (or equivalent), and are encouraged to complete at least 6 credit hours in Biology.

CALENDAR ENTRY AFTER CHANGES

11.11.3 Requirements for a Major in Psychology

Students completing this program cannot receive credit for Psychology 2920. Students who intend to pursue graduate studies should take courses leading to the Honours degree.

1. Students may Major in Psychology as part of either a B.A. or a B.Sc. program, and should consult the **Degree Regulations** for the General Degree of Bachelor of Science or the **Degree Regulations** for the General Degree of Bachelor of Arts, as appropriate. All Majors are required to complete a minimum of 42 credit hours of Psychology as listed below:
 - a. Psychology 1000, 1001, 2520 (or 2521), 2910, 2911, 2930.
 - b. Twelve credit hours in Psychology chosen from the following: 3050, 3100, the former PSYC 3250, 3251, 3350, 3450, 3620, 3650, 3750, or one of 3800, 3810, 3820, 3830, 3840 or 3860.
 - c. Twelve credit hours of 4000-level courses in Psychology, of which at least one must be a research experience course and one must be a selected topics course.
2. Psychology Majors following the B.Sc. program are also required to successfully complete the following:
 - a. Mathematics 1000 (or equivalent).
 - b. Biology 1001 and 1002.
 - c. Either Chemistry 1010 and the former 1011 (or 1050 and 1051); OR Physics 1020 (or 1050) and 1021 (or 1051).

Note:

First year students should think carefully about whether Chemistry or Physics best suits their future program needs. Students should examine the prerequisites for upper-level science courses and attempt to take them in their first year.

- d. Six credit hours of laboratory courses at the 2000 level or above in one of Biochemistry, Biology, Chemistry, Computer Science, Ocean Sciences or

Physics. Students are advised to consult the **Course Descriptions** section of the Calendar for their chosen lab courses to ensure pre-requisites are met.

Note:

Biology/Psychology 3750 and 4701 and Biology 3053 cannot be used to satisfy the requirement of 6 laboratory credit hours at the 2000 level or above.

3. Psychology Majors following the B.A. program are also required to successfully complete Mathematics 1000 or two of 1090, 1050, 1051 (or equivalent), and are encouraged to complete at least 6 credit hours in Biology.

Memorial University of Newfoundland Undergraduate Calendar Change Proposal Form Senate Summary Page for Programs

PROGRAM TITLE

11.11. 5. Requirements for major in Behavioural Neuroscience (BSc. Only)

RATIONALE

This entry is to change Clause 1c to add recent Selected Topics courses in the area of Behavioural Neuroscience that have been added to the Calendar.

In addition, Clause 1c removes the Research Experience course in Learning (PSYC 4270), which ensures that if Behavioural Neuroscience majors take a Selected Topics course that is not in the area, then their required Research Experience course will be in the Behavioural Neuroscience area.

CALENDAR CHANGES

11.11.5. Requirements for major in Behavioural Neuroscience (BSc. Only)

Students completing this program cannot receive credit for Psychology 2920. A program is offered in the Psychology Department to provide an education in Behavioural Neuroscience. Students planning to enroll in the program are advised to consult with the Head of the Department at the earliest opportunity because certain course choices may restrict later options. Students who intend to pursue graduate studies should take courses leading to the Honours degree.

As a component of the Degree Regulations for the General Degree of Bachelor of Science, the program for a Major in Behavioural Neuroscience shall include:

1. a. Psychology 1000, 1001, 2521, 2910, 2911, 2930, 3800, 3820, and one of 3810, 3830, 3840, or 3860.
 - b. Three credit hours in Psychology chosen from the following: 3050, 3100, the former 3250, 3251, 3350, 3450, 3620, 3650, 3750.
 - c. Any research experience course and one of Psychology 4250, 4251, 4850, 4851, 4852, 4853, or 4854; or, any selected topics course and ~~one of~~ Psychology 4270 ~~or~~, 4870.
2. a. Mathematics 1000 (or equivalent) and 1001
 - b. Chemistry 1050 and 1051 (or 1200 and 1001).
 - c. Physics 1020 (or 1050) and 1021 (or 1051).
 - d. Biology 1001 and 1002.
 - e. Six credit hours in Critical Reading and Writing (CRW) courses, including at least 3 credit hours in English courses.
3. Eighteen credit hours from the following courses chosen from at least two different sciences:

- a. Biochemistry: Any 2000-, 3000-, or 4000-level course except the former 2000, 2005, the former 2010, the former 2011, 3202, 3402, or 4502.
- b. Biology: Any 2000-, 3000-, or 4000-level course except 2040, 2041, 2120, 3053, or 3820.
- c. Chemistry: 2100, 2210, 2301 (or the former Chemistry 2300), 2400, 2401, or any 3000 or 4000 level course.
- d. Computer Science: Any 2000, 3000, or 4000 level course except the former 2650 and the former 2801.
- e. Ocean Sciences: any 2000-, 3000-, or 4000-level course.
- f. Mathematics: 2000, 2050, 2051, 3000, 3001 or any 3000 or 4000 level pure or applied mathematics course.
- g. Medicine 310A/B.
- h. Physics: Any 2000, 3000, or 4000 level course except 2151, 3150, 3151.

Notes: 1. Credit may not be obtained for both Biology 3750 and Psychology 3750 or for both Biology 4701 and Psychology 4701.

2. The courses listed under Clause 3 may have prerequisites. It is the student's responsibility to ensure that all prerequisites have been met, or that waivers have been obtained, before registering for these courses.

CALENDAR ENTRY AFTER CHANGES

11.11.5. Requirements for major in Behavioural Neuroscience (BSc. Only)

Students completing this program cannot receive credit for Psychology 2920. A program is offered in the Psychology Department to provide an education in Behavioural Neuroscience. Students planning to enroll in the program are advised to consult with the Head of the Department at the earliest opportunity because certain course choices may restrict later options. Students who intend to pursue graduate studies should take courses leading to the Honours degree.

As a component of the Degree Regulations for the General Degree of Bachelor of Science, the program for a Major in Behavioural Neuroscience shall include:

1. a. Psychology 1000, 1001, 2521, 2910, 2911, 2930, 3800, 3820, and one of 3810, 3830, 3840, or 3860.
 - d. Three credit hours in Psychology chosen from the following: 3050, 3100, the former 3250, 3251, 3350, 3450, 3620, 3650, 3750.
 - e. Any research experience course and one of Psychology 4250, 4251, 4850, 4851, 4852, 4853, or 4854; or, any selected topics course and Psychology 4870.
2. a. Mathematics 1000 (or equivalent) and 1001
 - i. Chemistry 1050 and 1051 (or 1200 and 1001).
 - j. Physics 1020 (or 1050) and 1021 (or 1051).
 - k. Biology 1001 and 1002.
 - l. Six credit hours in Critical Reading and Writing (CRW) courses, including at least 3 credit hours in English courses.

4. Eighteen credit hours from the following courses chosen from at least two different sciences:
 - a. Biochemistry: Any 2000-, 3000-, or 4000-level course except the former 2000, 2005, the former 2010, the former 2011, 3202, 3402, or 4502.
 - b. Biology: Any 2000-, 3000-, or 4000-level course except 2040, 2041, 2120, 3053, or 3820.
 - c. Chemistry: 2100, 2210, 2301 (or the former Chemistry 2300), 2400, 2401, or any 3000 or 4000 level course.
 - d. Computer Science: Any 2000, 3000, or 4000 level course except the former 2650 and the former 2801.
 - e. Ocean Sciences: any 2000-, 3000-, or 4000-level course.
 - f. Mathematics: 2000, 2050, 2051, 3000, 3001 or any 3000 or 4000 level pure or applied mathematics course.
 - g. Medicine 310A/B.
 - h. Physics: Any 2000, 3000, or 4000 level course except 2151, 3150, 3151.

Notes: 1. *Credit may not be obtained for both Biology 3750 and Psychology 3750 or for both Biology 4701 and Psychology 4701.*

2. *The courses listed under Clause 3 may have prerequisites. It is the student's responsibility to ensure that all prerequisites have been met, or that waivers have been obtained, before registering for these courses.*

Memorial University of Newfoundland

Undergraduate Calendar Change Proposal Form

Senate Summary Page for Programs

PROGRAM TITLE

11.11.6 Requirements for Honours in Behavioural Neuroscience (B.Sc. Only)

RATIONALE

This change updates Clause 1a, by removing course Psyc 499A/B, and places this required course in a new Clause – Clause1e- which also clarifies to Behavioural Neuroscience students that the undergraduate thesis is to be submitted in their graduating year (as is stated for Psychology Honours students).

In addition, a Note is added on the advice of the Registrar's Office to clarify to students that the non-Psychology courses referred to in Clause 3 are used to calculate eligibility for Honours standing.

CALENDAR CHANGES

11.11.6 Requirements for Honours in Behavioural Neuroscience (B.Sc. Only)

Students in Behavioural Neuroscience should consult **Degree Regulations** for the Honours Degree of Bachelor of Science. Students completing this program cannot receive credit for Psychology 2920.

1. Honours students in Behavioural Neuroscience are required to successfully complete the following Psychology courses:

a) Psychology 1000, 1001, 2521, 2910, 2911, 2930, 3800, 3820, 3900, ~~499A/B~~.

b) Three credit hours chosen from the following: the former 3250, 3810, 3830, 3840, or 3860.

c) Three credit hours in Psychology chosen from the following: 3050, 3100, 3251, 3350, 3450, 3620, 3650, 3750.

d) Any research experience course and one of Psychology 4850, 4851, 4852, 4853, or 4854; or, any selected topics course and Psychology 4870.

e) Psychology 499A/B, an undergraduate thesis to be submitted in their graduating year.

2. Honours students in Behavioural Neuroscience must also successfully complete the requirements listed in Clauses 2. and 3. of the requirements for a Major in Behavioural Neuroscience.

3. In accordance with **Academic Standing** under the **Degree Regulations** for the Honours Degree of Bachelor of Science, Honours candidates must obtain a grade of "B" or better, or an average of 75% or higher in all the required courses listed in Clauses 1. and 3. of the requirements for a major in Behavioural Neuroscience and Clause 1 of the

requirements for honours in Behavioural Neuroscience, except those at the 1000 level.

Note: Non-Psychology courses taken to fulfill Clause 3. of requirements for a major in Behavioural Neuroscience are used to calculate eligibility for Honours standing.

CALENDAR ENTRY AFTER CHANGES

11.11.6 Requirements for Honours in Behavioural Neuroscience (B.Sc. Only)

Students in Behavioural Neuroscience should consult **Degree Regulations** for the Honours Degree of Bachelor of Science. Students completing this program cannot receive credit for Psychology 2920.

1. Honours students in Behavioural Neuroscience are required to successfully complete the following Psychology courses:

- a) Psychology 1000, 1001, 2521, 2910, 2911, 2930, 3800, 3820, 3900.
- b) Three credit hours chosen from the following: the former 3250, 3810, 3830, 3840, or 3860.
- c) Three credit hours in Psychology chosen from the following: 3050, 3100, 3251, 3350, 3450, 3620, 3650, 3750.
- d) Any research experience course and one of Psychology 4850, 4851, 4852, 4853, or 4854; or, any selected topics course and Psychology 4870.
- e) Psychology 499A/B, an undergraduate thesis to be submitted in their graduating year.

2. Honours students in Behavioural Neuroscience must also successfully complete the requirements listed in Clauses 2. and 3. of the requirements for a Major in Behavioural Neuroscience.

3. In accordance with **Academic Standing** under the **Degree Regulations** for the Honours Degree of Bachelor of Science, Honours candidates must obtain a grade of "B" or better, or an average of 75% or higher in all the required courses listed in Clauses 1. and 3. of the requirements for a major in Behavioural Neuroscience and Clause 1 of the requirements for honours in Behavioural Neuroscience, except those at the 1000 level.

Note: Non-Psychology courses taken to fulfill Clause 3. of requirements for a major in Behavioural Neuroscience are used to calculate eligibility for Honours standing.

Memorial University of Newfoundland

Undergraduate Calendar Change Proposal Form

Appendix Page

CONSULTATIONS SOUGHT

Academic Unit	Response Received
Humanities and Social Sciences	Yes
Business Administration	No
Education	No
Engineering and Applied Science	Yes
Human Kinetics and Recreation	Yes
Marine Institute	Yes
Medicine	Yes
Music	Yes
Nursing	No
Pharmacy	No
Science	
Biochemistry	No
Biology	Yes
Chemistry	No
Computer Science	No
Earth Sciences	No
Mathematics and Statistics	No
Ocean Sciences	Yes
Office of the Dean	No
Physics and Oceanography	No
Social Work	No
Library	No

Grenfell Campus	
Arts and Social Science	Yes
Science and the Environment	Yes
Fine Arts	No

LIBRARY REPORT

None required

RESOURCE IMPLICATIONS

Nil

Subject RE: Consultation for Calendar Changes- Psychology Program Changes
From Hennessey, Todd <THENNESSEY@grenfell.mun.ca>
To Deputy Head, Department of Psychology <psychdeputyhead@mun.ca>
Date 2020-10-30 10:02



Hi Carolyn

Thanks for the opportunity to review these proposals; Fine Arts has no feedback to offer at this time.

Cheers
 Todd

TODD HENNESSEY, PhD (Birmingham) | DEAN

School of Fine Arts
 Grenfell Campus, Memorial University
 Corner Brook, Newfoundland
 O: 709.637.6277
 C: 709.640.5695

www.grenfell.mun.ca

-----Original Message-----

From: Deputy Head, Department of Psychology <psychdeputyhead@mun.ca>
 Sent: October 29, 2020 4:23 PM
 To: hss@mun.ca; Shannahan, Rachelle <rshannahan@mun.ca>; Collett, Meghan <mcollett@mun.ca>; engrconsult@mun.ca; Rohr, Linda <lerohr@mun.ca>; MIUG Consultations <MIUGconsultations@mi.mun.ca>; deanofmedicine@med.mun.ca; Sutherland, Ian D <isutherland@mun.ca>; deanNurse@mun.ca; pharminfo@mun.ca; deansci@mun.ca; adeanugradswk@mun.ca; univlib@mun.ca; Jacobsen, Ken <kjacobse@grenfell.mun.ca>; Dean - School of Science and the Environment <ssedean@grenfell.mun.ca>; Hennessey, Todd <THENNESSEY@grenfell.mun.ca>
 Subject: Consultation for Calendar Changes- Psychology Program Changes

Hello-

The Psychology Department has a set of minor proposed changes to Calendar entries for several of our programs, as per the attached document, outlined below:

1. 11.11.1. Admission to Major Programs- Addition of information that the application for our Majors programs is on the Psychology Department website during the Winter semester.
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3. 11.11.3. Requirements for a Major in Psychology- text is removed in Note for Clause 2d, which is inaccurate.
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6. 11.11.9. Suggested Course Sequences, Tables 3, 4, & 6 (Co-op Programs) - minor changes for student information to indicate that PSYC 499B may be taken in the Spring (optional) semester, and that PSYC 4910 may be offered in either Fall or Winter semesters.

None of the proposed changes require a Library Report or additional resources.

Please contact me with any comments at: psychdeputyhead@mun.ca

Subject FW: Consultation for Calendar Changes- Psychology Program Changes
From <cvardy@mun.ca>
To <psychdeputyhead@mun.ca>
Cc <DeanofMedicine@med.mun.ca>
Date 2020-10-30 13:18



- Psychology_Calendar_Consultation_Program_Changes.pdf (~139 KB)

The Faculty of Medicine is supportive of the proposed changes for the Psychology Program as outlined in your email and attachment.

Regards,

Cathy Vardy, MD
 Vice Dean, Faculty of Medicine

-----Original Message-----

From: Deputy Head, Department of Psychology [mailto:psychdeputyhead@mun.ca]
 Sent: Thursday, October 29, 2020 4:23 PM
 To: hss@mun.ca; rshannahan@mun.ca; mcollett@mun.ca; engrconsult@mun.ca; lerohr@mun.ca; miugconsultations@mi.mun.ca; Steele, Dr. Margaret: Dean of Medicine <DeanofMedicine@med.mun.ca>; isutherland@mun.ca; deanNurse@mun.ca; pharminfo@mun.ca; deansci@mun.ca; adeanugradswk@mun.ca; univlib@mun.ca; kjacobse@grenfell.mun.ca; ssedean@grenfell.mun.ca; thennessey@grenfell.mun.ca
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None of the proposed changes require a Library Report or additional resources.

Please contact me with any comments at: psychdeputyhead@mun.ca

Thanks,
 Carolyn

--
 Carolyn Walsh, PhD (she/her)
 Associate Professor
 Deputy Head, Psychology
 Memorial University
 St. John's, NL,

Subject Re: Consultation for Calendar Changes– Psychology Program Changes
From Rohr, Linda <lrohr@mun.ca>
To Deputy Head, Department of Psychology <psychdeputyhead@mun.ca>
Date 2020-11-04 16:06



Hello,

No concerns from HKR.

Linda

Linda E. Rohr PhD

Dean, School of Human Kinetics & Recreation

Memorial University

t: 709.864.8129 f: 709.864.7531 e: lrohr@mun.ca

PE 2027

We acknowledge that the lands on which Memorial University's campuses are situated are in the traditional territories of diverse Indigenous groups, and we acknowledge with respect the diverse histories and cultures of the Beothuk, Mi'kmaq, Innu, and Inuit of this province.

From: "Deputy Head, Department of Psychology" <psychdeputyhead@mun.ca>
Date: Thursday, October 29, 2020 at 4:22 PM
To: Faculty of Humanities and Social Sciences <hss@mun.ca>, "Shannahan, Rachelle" <rshannahan@mun.ca>, "Collett, Meghan" <mcollett@mun.ca>, "engrconsult@mun.ca" <engrconsult@mun.ca>, Linda Rohr <lrohr@mun.ca>, "miugconsultations@mi.mun.ca" <miugconsultations@mi.mun.ca>, "deanofmedicine@med.mun.ca" <deanofmedicine@med.mun.ca>, "Sutherland, Ian D" <isutherland@mun.ca>, DeanNurse <DeanNurse@mun.ca>, "pharminfo@mun.ca" <pharminfo@mun.ca>, Dean of Science <deansci@mun.ca>, adeanugradswk <adeanugradswk@mun.ca>, Library Correspondence <univlib@mun.ca>, "kjacobse@grenfell.mun.ca" <kjacobse@grenfell.mun.ca>, "ssedean@grenfell.mun.ca" <ssedean@grenfell.mun.ca>, "thennessey@grenfell.mun.ca" <thennessey@grenfell.mun.ca>
Subject: Consultation for Calendar Changes– Psychology Program Changes

Hello–

The Psychology Department has a set of minor proposed changes to

Subject RE: Consultation for Calendar Changes– Department of Psychology
From Bailey, Robert F. <rbailey@grenfell.mun.ca>
To psychdeputyhead@mun.ca <psychdeputyhead@mun.ca>
Cc Piercey–Normore, Michele D <mpiercey–normore@grenfell.mun.ca>, Scott, Robert J. <rscott@grenfell.mun.ca>, Bennett, Sylvia S. <sylviab@grenfell.mun.ca>, Warkentin, Ian <ian.warkentin@grenfell.mun.ca>, Jacobsen, Ken <kjacobse@grenfell.mun.ca>
Date 2020–11–02 14:39



Dear Carolyn,

The three sets of Calendar change proposals from the Department of Psychology have been forwarded to me.

The proposed changes seem sensible to me and there is no impact of any of them on the School of Science and the Environment at Grenfell Campus. I have a couple of small comments, including one not directly related to the proposals:

1. No comments about the changes to Psychology majors courses, other than that the wording of the prerequisites for PSYC 4910 does seem quite complicated and perhaps could be phrased differently.
2. No comments about the changes to Psychology non–restricted courses, other than to mention that PSYC 2150, 2800 and 3533 are also listed in the Grenfell Campus section of the Calendar -- but the School of Arts and Social Science would have to determine if a corresponding change should be made.
3. In the Psychology degree regulations, while this is not directly related to the changes proposed, perhaps the opportunity could be taken to address the following issue. In the Calendar entry for the Requirements for a Major in Psychology (11.11.3), clause 2c gives precedence to a Chemistry route which is no longer offered (CHEM 1010/1011) rather than one which is (CHEM 1050/1051), and also omits the Grenfell Campus version (CHEM 1200/1001), even though this does appear in some of the department's other programs (e.g. Behavioural Neuroscience), as well as other programs in the Faculty of Science (including Chemistry).

In order to accurately reflect current offerings in Chemistry at both campuses (as well as to accommodate students who may have taken first–year Chemistry in the past), I suggest rephrasing 2c as follows:

"Either Chemistry 1050 and 1051 (or 1200 and 1001, or 1010 and the former 1011), or Physics 1020 (or 1050) and 1021 (or 1051)."

Thank you for the opportunity to comment on these proposals.

Regards,

Robert Bailey

Chair, Committee on Academic Programming

School of Science and the Environment

Subject Re: Consultation for Calendar Changes- Psychology Program Changes
From Engineering Consult <engrconsult@mun.ca>
To Deputy Head, Department of Psychology <psychdeputyhead@mun.ca>
Cc Jayde Edmunds <edmundsj@mun.ca>, Dennis Peters <dpeters@mun.ca>, Bruce Quinton <bruce.quinton@mun.ca>
Date 2020-10-30 13:06



Dear Dr. Walsh,

Thank you for the opportunity to comment on the proposed sets of calendar changes to the Psychology program.

These proposals arrived too late for October's meeting of the Committee on Undergraduate Studies of the Faculty of Engineering and Applied Science. On review, I find no impact on Engineering programs from these proposed changes and I am happy to support them.

Yours sincerely,

Dr. Glyn George, Chair
 Committee on Undergraduate Studies
 Faculty of Engineering and Applied Science
 Memorial University of Newfoundland
 St. John's NL A1B 3X5

On 2020-10-29 16:22, Deputy Head, Department of Psychology wrote:

Hello-

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5. 11.11.6. Requirements for Honours in Behavioural Neuroscience (BSc only)- Addition of a Clause (1e) that the PSYC 499A/B Honours dissertation is to be submitted in a student's graduating year. As well, a note is added for clarification on Honours standing calculation.
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None of the proposed changes require a Library Report or additional resources.

Please contact me with any comments at: psychdeputyhead@mun.ca

Subject RE: Consultation for Calendar Changes- Psychology Program Changes
From MIUG Consultations <MIUGconsultations@mi.mun.ca>
To Deputy Head, Department of Psychology <psychdeputyhead@mun.ca>
Date 2020-10-30 11:05



Hello,

Thank you for the opportunity to review and comment on the proposal for Calendar Changes to the Psychology Program.
 The Marine Institute supports the proposal.

Regards,
 Bev

Bev Fleet
 Chair, Undergraduate Studies Committee
 Marine Institute, Memorial University
 TEL: 709-778-0369
 FAX: 709-778-0535
Bev.Fleet@mi.mun.ca

-----Original Message-----

From: Deputy Head, Department of Psychology <psychdeputyhead@mun.ca>
 Sent: Thursday, October 29, 2020 4:23 PM
 To: hss@mun.ca; rshannahan@mun.ca; mcollett@mun.ca; engrconsult@mun.ca; lerohr@mun.ca; MIUG Consultations <MIUGconsultations@mi.mun.ca>; deanofmedicine@med.mun.ca; isutherland@mun.ca; deanNurse@mun.ca; pharminfo@mun.ca; deansci@mun.ca; adeanugradswk@mun.ca; univlib@mun.ca; kjacobse@grenfell.mun.ca; ssedean@grenfell.mun.ca; thennessey@grenfell.mun.ca
 Subject: Consultation for Calendar Changes- Psychology Program Changes

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None of the proposed changes require a Library Report or additional resources.

Please contact me with any comments at: psychdeputyhead@mun.ca

Thanks,

Subject Psychology Changes

From Warren, Kelly <kwarren@grenfell.mun.ca>

To psychdeputyhead@mun.ca <psychdeputyhead@mun.ca>

Date 2020-11-24 12:31



Hi Carolyn,

I just received the changes you noted. Thanks for passing that along. I had meant to get back to you earlier, but I'm not quite sure where this semester is going. The one thing we did note is in 4910, the 3950 has actually been changed to 2950 for our requirements and that is supposed to come into effect with the 2021-2022 calendar. I mentioned it to our registrar back when you first sent out the email looking for consultation and she said it should automatically be updated but to let you know just in case. This is in relation to our general students no longer having to complete the 3950 course as part of the degree. That course is now reserved mainly for the honours program as 3900 is for students on the St. John's campus. I will note the changes you have indicated. Thanks again.

Kelly

Sent from my iPhone



Subject Fwd: FW: Consultation for Calendar Changes- Psychology Program Changes
From Suzanne Dufour <sdufour@mun.ca>
To <psychdeputyhead@mun.ca>
Cc Jody Burke <jodyb@mun.ca>
Reply-To <sdufour@mun.ca>
Reply-To <sdufour@mun.ca>
Date 2020-11-14 09:15

Hi Carolyn,

The Biology Undergraduate Committee has reviewed the proposed calendar changes described in your email below. We are supportive of those changes.

Best wishes,
 Suzanne

----- Original Message -----

Subject: FW: Consultation for Calendar Changes- Psychology Program Changes

Date: 2020-10-30 09:30

From: Dean of Science <deansci@mun.ca>

To: Amina Ahmed Mahmood <aamahmood@mun.ca>, "Todd, Amy M." <amy.todd@mun.ca>, BiocDHundergrad <biocdhundergrad@mun.ca>, "Hyde, Cathy" <cathy@mun.ca>, Chemistry <chemconsult@mun.ca>, Computer Science consultation <compsci@mun.ca>, Earth Sciences <eascugcon@mun.ca>, James Munroe <jmunroe@mun.ca>, Mark Hatcher <mhatcher@mun.ca>, Math & Stats <mathconsult@mun.ca>, Ocean Sciences <amercier@mun.ca>, "Goulding, Rick" <rgoulding@mun.ca>, Psychology consult <psychdeputyhead@mun.ca>, "Newhook, Rebecca" <rnewhook@mun.ca>, Sharene Bungay <sharene@mun.ca>, Suzanne Dufour <sdufour@mun.ca>, "Mackenzie, Theresa" <tmackenz@mun.ca>, "Fridgen, Travis" <tfridgen@mun.ca>

-----Original Message-----

From: Deputy Head, Department of Psychology [mailto:psychdeputyhead@mun.ca]

Sent: Thursday, October 29, 2020 4:23 PM

Subject: Consultation for Calendar Changes- Psychology Program Changes

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4. 11.11.5. Requirements for a Major in Behavioural Neuroscience (BSc only)- addition to Clause 1c of the newly added Selected Topics course numbers in the research area. As well, PSYC 4270 is removed as an option for a Research Experience course for students that have not taken a Selected Topics course in the research area.
5. 11.11.6. Requirements for Honours in Behavioural Neuroscience (BSc only)- Addition of a Clause (1e) that the PSYC 499A/B Honours dissertation is to be submitted in a student's graduating year. As well, a note is added for clarification on Honours standing calculation.
6. 11.11.9. Suggested Course Sequences, Tables 3, 4, & 6 (Co-op Programs) - minor changes for student information to indicate that PSYC 499B may be taken in the Spring (optional) semester, and that PSYC 4910 may be offered in either Fall or Winter semesters.

None of the proposed changes require a Library Report or additional resources.