



Bill Coish &lt;bill.coish@gmail.com&gt;

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## Thank you (RE: Consultation)

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**Bill Coish** <coish@physics.mcgill.ca>  
To: "Jeanne Paquette, Dr." <jeanne.paquette@mcgill.ca>  
Cc: Yajing Liu <yajing.liu@mcgill.ca>

Thu, Sep 24, 2015 at 4:30 PM

Hi Jeanne,

My committee just finished our meeting and everyone agrees we should go ahead with the changes you suggest to the joint major Physics/Geophysics program. Please let me know how we should proceed -- I'm happy to help with the submission if we need to do this jointly, or if the form should somehow originate in Physics.

Cheers,  
Bill

Bill Coish  
Assistant Professor  
Department of Physics  
McGill University  
Fellow, CIFAR Quantum Information Science Program

Phone: +1 (514) 398-6525  
Web: <http://www.physics.mcgill.ca/~coish/index.html>

On Wed, Sep 23, 2015 at 9:13 AM, Jeanne Paquette, Dr. <jeanne.paquette@mcgill.ca> wrote:

I appreciate this, Bill.

We will expect to hear from you soon.

Regards,

Jeanne Paquette  
Associate Professor  
Director of Undergraduate Studies in Earth & Planetary Sciences

Department of Earth & Planetary Sciences  
McGill University  
3450 University Street  
Montreal, QC H3A 2A7

Fax: 514-398-4680  
Phone: 514-398-4402  
e-mail: [jeanne.paquette@mcgill.ca](mailto:jeanne.paquette@mcgill.ca)  
Office: Frank Dawson Adams, FDA214

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**From:** [bill.coish@gmail.com](mailto:bill.coish@gmail.com) [[bill.coish@gmail.com](mailto:bill.coish@gmail.com)] on behalf of Bill Coish [[coish@physics.mcgill.ca](mailto:coish@physics.mcgill.ca)]

**Sent:** Tuesday, September 22, 2015 9:34 PM

**To:** Jeanne Paquette, Dr.

**Cc:** Yajing Liu

**Subject:** Re: Consultation

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The change in the Joint Major in Physics and Geophysics that we think would be desirable, and could be submitted in tandem, is the following:

- three of the upper-level required EPSC courses, specifically EPSC 330, EPSC 350 and EPSC 510, would become part of a broader list of complementary EPSC courses that would include this new course. The complementary list would also include EPSC 435 Applied Geophysics, which had been on hiatus for several years, but which is now being offered every other year by professor Harrington, another recent hiring in the department.

I will follow up tomorrow with the documents. If you could circulate any of this to your colleagues as early as this Thursday, we would very much welcome their feedback.

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Director of Undergraduate Studies in Earth & Planetary Sciences

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**Sent:** Tuesday, September 22, 2015 3:36 PM

**To:** Jeanne Paquette, Dr.

**Subject:** Consultation

Here I am!

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1.0 Degree Title  
Specify the two degrees for concurrent degree programs

Bachelor of Science

1.1 Major (Legacy= Subject) (30-char. max.)  
Physics and Geophysics

1.2 Concentration (Legacy = Concentration/Option)  
If applicable (30 char. max.)

1.3 Minor (with Concentration, if applicable)  
(30 char. max.)

1.4 Category

- Faculty Program (FP)
- Major
- Joint Major
- Major Concentration (CON)
- Minor
- Minor Concentration (CON)
- Honours (HON)
- Joint Honours Component (HC)
- Internship/Co-op
- Thesis (T)
- Non-Thesis (N)
- Other

Please specify

1.5 Complete Program Title  
B.Sc. Major Physics and Geophysics

2.0 Administering Faculty/Unit  
Science

Offering Faculty/Department  
Physics

3.0 Effective Term of revision or retirement  
Please give reasons in 5.0 "Rationale" in the case of retirement  
(Ex. Sept. 2004 = 200409)  Retirement  
Term: 201609

4.0 Existing Credit Weight      Proposed Credit Weight  
69                                      69

5.0 Rationale for revised program  
Renewal among Earth & Planetary Sciences faculty members in geophysics is an opportunity to add flexibility to this program. The three currently required EPSC upper-year courses are replaced by a block of complementary courses that reflects the expertise of recently hired faculty members. One new course (EPSC 520) exposes undergraduate and graduate students to current earthquake research themes, and EPSC 435, revived after several years of hiatus, introduces undergraduates to the use of geophysics in subsurface exploration.

6.0 Revised Program Description (Maximum 150 words)  
(No change to the current program description is required.)

7.0 List of existing program and proposed program

Existing program (list courses as follows: Subj Code/Crse Num, Title, Credit weight, under the headings of: Required Courses, Complementary Courses, Elective Courses)

**U1 Required Courses (30 credits)**

EPSC 203 Structural Geology (3 credits)  
EPSC 210 Introductory Mineralogy (3 credits)  
EPSC 231 Field School 1 (3 credits)  
MATH 222 Calculus 3 (3 credits)  
MATH 223 Linear Algebra (3 credits)  
MATH 314 Advanced Calculus (3 credits)  
PHYS 230 Dynamics of Simple Systems (3 credits)  
PHYS 232 Heat and Waves (3 credits)  
PHYS 257 Experimental Methods 1 (3 credits)  
PHYS 258 Experimental Methods 2 (3 credits)

**U2 Required Courses (18 credits)**

EPSC 320 Elementary Earth Physics (3 credits)  
EPSC 350 Tectonics (3 credits)  
MATH 315 Ordinary Differential Equations (3 credits)  
MATH 319 Introduction to Partial Differential Equations (3 credits)  
PHYS 339 Measurements Laboratory in General Physics (3 credits)  
PHYS 340 Majors Electricity and Magnetism (3 credits)

**U2 or U3 Required Courses (6 credits)**

EPSC 330 Earthquakes and Earth Structure (3 credits)  
EPSC 510 Geodynamics and Geomagnetism (3 credits)

**U3 Required Courses (15 credits)**

PHYS 331 Topics in Classical Mechanics (3 credits)  
PHYS 333 Thermal and Statistical Physics (3 credits)  
PHYS 342 Majors Electromagnetic Waves (3 credits)  
PHYS 432 Physics of Fluids (3 credits)  
PHYS 446 Majors Quantum Physics (3 credits)

Proposed program (list courses as follows: Subj Code/Crse Num, Title, Credit weight, under the headings of: Required Courses, Complementary Courses, Elective Courses)

**Required Courses (60 credits)**

EPSC 203 Structural Geology (3 credits)  
EPSC 210 Introductory Mineralogy (3 credits)  
EPSC 231 Field School 1 (3 credits)  
EPSC 320 Elementary Earth Physics (3 credits)  
  
MATH 222 Calculus 3 (3 credits)  
MATH 223 Linear Algebra (3 credits)  
MATH 314 Advanced Calculus (3 credits)  
MATH 315 Ordinary Differential Equations (3 credits)  
MATH 319 Introduction to Partial Differential Equations (3 credits)  
  
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PHYS 258 Experimental Methods 2 (3 credits)  
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PHYS 340 Majors Electricity and Magnetism (3 credits)  
PHYS 342 Majors Electromagnetic Waves (3 credits)  
PHYS 432 Physics of Fluids (3 credits)  
PHYS 446 Majors Quantum Physics (3 credits)

**Complementary Courses (9 credits)**

EPSC 330 Earthquakes and Earth Structure (3 credits)  
or EPSC 520 Earthquake Physics and Geology (3 credits)  
EPSC 350 Tectonics (3 credits)  
EPSC 435 Applied Geophysics (3 credits)  
EPSC 510 Geodynamics and Geomagnetism (3 credits)



8.0 Consultation with  
Related Units

Yes  No

Financial Consult

Yes  No

Attach list of consultations

9. Approvals

Routing Sequence

Name

Signature

Date

Department

Peter Guitte

*[Signature]*

14/10/2015

Curric/Acad Committee

Faculty 1

Faculty 2

Faculty 3

CGPS

SCTP

APC

Senate

Submitted by

EPSC contact: Jeanne Paquette

Name

Bill Coish

To be completed by ARR:

Phone

(514) 398-6525 (Coish)

CIP Code

Email

coish@physics.mcgill.ca

Submission Date

2015 October 14

10. FQRSC (Research) Indicator (for GPS): Yes No



(2013)

|  |   |  |                                |   |   |   |  |                                     |                                |   |  |                                |  |   |   |
|--|---|--|--------------------------------|---|---|---|--|-------------------------------------|--------------------------------|---|--|--------------------------------|--|---|---|
| <p>1.0 Degree Title<br/>Specify the two degrees for concurrent degree programs<br/><b>Bachelor of Science</b></p> <p>1.1 Major (Legacy= Subject) (30-char. max.)<br/><b>Physics and Geophysics</b></p> <p>1.2 Concentration (Legacy = Concentration/Option)<br/>If applicable (30 char. max.)<br/><br/></p> <p>1.3 Minor (with Concentration, if applicable)<br/>(30 char. max.)<br/><br/></p> <p>1.4 Category</p> <table style="width: 100%; border: none;"> <tr> <td><input type="checkbox"/> Faculty Program (FP)</td> <td><input type="checkbox"/> Honours (HON)</td> </tr> <tr> <td><input type="checkbox"/> Major</td> <td><input type="checkbox"/> Joint Honours Component (HC)</td> </tr> <tr> <td><input checked="" type="checkbox"/> Joint Major</td> <td><input type="checkbox"/> Internship/Co-op</td> </tr> <tr> <td><input type="checkbox"/> Major Concentration (CON)</td> <td><input type="checkbox"/> Thesis (T)</td> </tr> <tr> <td><input type="checkbox"/> Minor</td> <td><input type="checkbox"/> Non-Thesis (N)</td> </tr> <tr> <td><input type="checkbox"/> Minor Concentration (CON)</td> <td><input type="checkbox"/> Other</td> </tr> <tr> <td></td> <td>Please specify<br/><input style="width: 100%;" type="text"/></td> </tr> </table> <p>1.5 Complete Program Title<br/><b>B.Sc. Joint Major in Physics and Geophysics</b></p> | <input type="checkbox"/> Faculty Program (FP)               | <input type="checkbox"/> Honours (HON) | <input type="checkbox"/> Major | <input type="checkbox"/> Joint Honours Component (HC) | <input checked="" type="checkbox"/> Joint Major | <input type="checkbox"/> Internship/Co-op | <input type="checkbox"/> Major Concentration (CON) | <input type="checkbox"/> Thesis (T) | <input type="checkbox"/> Minor | <input type="checkbox"/> Non-Thesis (N) | <input type="checkbox"/> Minor Concentration (CON) | <input type="checkbox"/> Other |  | Please specify<br><input style="width: 100%;" type="text"/> | <p>2.0 Administering Faculty/Unit<br/><b>Science/Physics</b></p> <p>Offering Faculty/Department<br/><b>Science/Physics</b></p> <p>3.0 Effective Term of revision or retirement<br/>Please give reasons in 5.0 "Rationale" in the case of retirement<br/>(Ex. Sept. 2004 = 200409)    <input type="checkbox"/> Retirement</p> <p>Term: <b>201609</b></p> <p>4.0 Existing Credit Weight      Proposed Credit Weight<br/><b>69</b>                                      <b>69</b></p> <p>5.0 Rationale for revised program<br/><b>Renewal among Earth &amp; Planetary Sciences faculty members in geophysics is an opportunity to add flexibility to this program. The three currently required EPSC upper-year courses (EPSC 330, EPSC 350, EPSC 510) are replaced by a block of complementary courses that reflects the expertise of recently hired faculty members. One new course (EPSC 520) exposes undergraduate and graduate students to current earthquake research themes, and EPSC 435, revived after several years of hiatus, introduces undergraduates to the use of geophysics in subsurface exploration.</b></p> |
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| <input checked="" type="checkbox"/> Joint Major  | <input type="checkbox"/> Internship/Co-op                   |  |                                |   |   |   |  |                                     |                                |   |  |                                |  |   |   |
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|  | Please specify<br><input style="width: 100%;" type="text"/> |  |                                |   |   |   |  |                                     |                                |   |  |                                |  |   |   |
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|   |   |
|---|---|
| 8.0 Consultation with Related Units <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Financial Consult <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Attach list of consultations  |   |

|  |                                  |                         |                  |              |                               |  |  |      |                             |                         |  |       |                                  |          |  |       |                           |  |  |                 |                 |  |  |
|--|----------------------------------|-------------------------|------------------|--------------|-------------------------------|--|--|------|-----------------------------|-------------------------|--|-------|----------------------------------|----------|--|-------|---------------------------|--|--|-----------------|-----------------|--|--|
| <b>9. Approvals</b>  |                                  |                         |                  |              |                               |  |  |      |                             |                         |  |       |                                  |          |  |       |                           |  |  |                 |                 |  |  |
| Routing Sequence   | Name                             | Signature               | Date             |              |                               |  |  |      |                             |                         |  |       |                                  |          |  |       |                           |  |  |                 |                 |  |  |
| Department   | Peter Grutter                    |                         | 14 October, 2015 |              |                               |  |  |      |                             |                         |  |       |                                  |          |  |       |                           |  |  |                 |                 |  |  |
| Curric/Acad Committee  |                                  |                         |                  |              |                               |  |  |      |                             |                         |  |       |                                  |          |  |       |                           |  |  |                 |                 |  |  |
| Faculty 1  |                                  |                         |                  |              |                               |  |  |      |                             |                         |  |       |                                  |          |  |       |                           |  |  |                 |                 |  |  |
| Faculty 2  |                                  |                         |                  |              |                               |  |  |      |                             |                         |  |       |                                  |          |  |       |                           |  |  |                 |                 |  |  |
| Faculty 3  |                                  |                         |                  |              |                               |  |  |      |                             |                         |  |       |                                  |          |  |       |                           |  |  |                 |                 |  |  |
| CGPS   |                                  |                         |                  |              |                               |  |  |      |                             |                         |  |       |                                  |          |  |       |                           |  |  |                 |                 |  |  |
| SCTP   |                                  |                         |                  |              |                               |  |  |      |                             |                         |  |       |                                  |          |  |       |                           |  |  |                 |                 |  |  |
| APC  |                                  |                         |                  |              |                               |  |  |      |                             |                         |  |       |                                  |          |  |       |                           |  |  |                 |                 |  |  |
| Senate   |                                  |                         |                  |              |                               |  |  |      |                             |                         |  |       |                                  |          |  |       |                           |  |  |                 |                 |  |  |
| <table style="width: 100%; border: none;"> <tr> <td style="width: 20%; padding: 5px;">Submitted by</td> <td style="padding: 5px;">EPSC Contact: Jeanne Paquette</td> <td style="width: 30%;"></td> <td style="width: 50%;"></td> </tr> <tr> <td style="padding: 5px;">Name</td> <td style="padding: 5px;">Physics Contact: Bill Coish</td> <td style="padding: 5px;">To be completed by ARR:</td> <td></td> </tr> <tr> <td style="padding: 5px;">Phone</td> <td style="padding: 5px;">x 6525 (Coish) x 4402 (Paquette)</td> <td style="padding: 5px;">CIP Code</td> <td style="padding: 5px;"></td> </tr> <tr> <td style="padding: 5px;">Email</td> <td style="padding: 5px;">jeanne.paquette@mcgill.ca</td> <td></td> <td></td> </tr> <tr> <td style="padding: 5px;">Submission Date</td> <td style="padding: 5px;">21 October 2015</td> <td></td> <td></td> </tr> </table> |                                  |                         |                  | Submitted by | EPSC Contact: Jeanne Paquette |  |  | Name | Physics Contact: Bill Coish | To be completed by ARR: |  | Phone | x 6525 (Coish) x 4402 (Paquette) | CIP Code |  | Email | jeanne.paquette@mcgill.ca |  |  | Submission Date | 21 October 2015 |  |  |
| Submitted by   | EPSC Contact: Jeanne Paquette    |                         |                  |              |                               |  |  |      |                             |                         |  |       |                                  |          |  |       |                           |  |  |                 |                 |  |  |
| Name   | Physics Contact: Bill Coish      | To be completed by ARR: |                  |              |                               |  |  |      |                             |                         |  |       |                                  |          |  |       |                           |  |  |                 |                 |  |  |
| Phone  | x 6525 (Coish) x 4402 (Paquette) | CIP Code                |                  |              |                               |  |  |      |                             |                         |  |       |                                  |          |  |       |                           |  |  |                 |                 |  |  |
| Email  | jeanne.paquette@mcgill.ca        |                         |                  |              |                               |  |  |      |                             |                         |  |       |                                  |          |  |       |                           |  |  |                 |                 |  |  |
| Submission Date  | 21 October 2015                  |                         |                  |              |                               |  |  |      |                             |                         |  |       |                                  |          |  |       |                           |  |  |                 |                 |  |  |

10. FQRSC (Research) Indicator (for GPS): Yes    No