



Simon Fraser University
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gradstudies@sfu.ca
www.sfu.ca/grad

MEMORANDUM

ATTENTION Senate
FROM Jeff Derksen,
Chair of Senate Graduate Studies
Committee (SGSC)
RE: New Course Proposals

DATE February 14, 2019

For information:

Acting under delegated authority at the meeting of February 5, 2019, SGSC approved the following new courses, effective **Fall 2019**:

Faculty of Applied Sciences

School of Mechatronic Systems Engineering

- 1) New course: MSE 812 Advanced 3D Printing

Faculty of Environment

Department of Geography

- 2) New course: GEOG 621 Advanced Geographical Political Economy
- 3) New course: GEOG 686 Advanced Health Geography



MEMORANDUM

Attention Dr. Jeff Derksen Date January 17, 2018
Dean, Graduate Studies

From Dr. Parvaneh Saeedi psaeedi@sfu.ca
Faculty of Applied Science, Graduate Studies Committee

Re: FAS- New MSE Graduate Course Proposal – MSE 812

The Faculty of Applied Sciences Graduate Studies Committee would like to recommend new course proposal MSE 812 – Advanced 3D Printing for consideration by SGSC.

FGSC has approved this item by electronic vote. This curriculum item should be effective for **Fall 2019**. Please include it on the next SGSC agenda.

Best Regards,

Parvaneh Saeedi,
Faculty of Applied Science, Graduate Studies Committee



SIMON FRASER UNIVERSITY
SURREY

SCHOOL OF MECHATRONIC SYSTEMS ENGINEERING

December 18, 2018

250-13450 102 Avenue
Surrey, BC V3T 0A3
Canada

Tel: 778-782-8456
Fax: 778-782-7514

Memorandum

From: Dr. Mehrdad Moallem, MSE Graduate Program Committee Chair

A handwritten signature in black ink, appearing to read 'M. Moallem'.

To: Dr. Parvaneh Saeedi, Associate Dean, Faculty of Applied Sciences

Subject: New graduate course proposal (MSE 812-3: Advanced 3D Printing)

Attachments: (1) New Graduate Course Proposal Form
(2) Graduate Course Information Form

The above course has been offered as a Special Topics course in the School of Mechatronic Systems Engineering since 2016. Based on the proposal by the instructor and demand by students, MSE would like to offer it as a new graduate course. The course was approved in the MSE graduate program committee and subsequently in the MSE faculty meeting on November 26, 2018.

New Graduate Course Proposal

Course Subject (eg. PSYC) MSE	Number (eg. 810) 812	Units (eg. 4) 3
Course title (max. 100 characters) Advanced 3D Printing		
Short title (for enrollment/transcript - max. 30 characters) Advanced 3D Printing		
Course description for SFU Calendar (course descriptions should be brief and should never begin with phrases such as "This course will..." or "The purpose of this course is..." If the grading basis is satisfactory/unsatisfactory include this in the description) See attached.		
Rationale for introduction of this course To provide fundamentals and cutting-edge engineering perspectives on advanced 3D printing technologies.		
Term of initial offering (eg. Fall 2019) Fall 2019	Course delivery (eg. 3 hrs/week for 13 weeks) 3 hrs/week for 13 weeks	
Frequency of offerings/year Once every two years	Estimated enrollment per offering 20	
Equivalent courses (courses that replicates the content of this course to such an extent that students should not receive credit for both courses) N/A		
Prerequisite and/or Corequisite		
Criminal record check required? ☐ Yes if yes is selected, add this as prerequisite		Additional course fees? ☐ Yes ☒ No
Campus where course will be taught ☐ Burnaby ☒ Surrey ☐ Vancouver ☐ Great Northern Way ☐ Off campus		
Course Components * ☐ Lecture ☒ Seminar ☐ Lab ☐ Independent ☐ Capstone ☐ _____		
Grading Basis ☒ Letter grades ☐ Satisfactory/ Unsatisfactory ☐ In Progress / Complete		
Repeat for credit? ☐ Yes ☒ No	Total repeats allowed? _____	Repeat within a term? ☐ Yes ☒ No
Required course? ☐ Yes ☒ No	Final exam required? ☒ Yes ☐ No	Capstone course? ☐ Yes ☒ No
Combined with a undergrad course? ☐ Yes ☒ No If yes, identify which undergraduate course and the additional course requirements for graduate students:		

* See important definitions on the curriculum website.

RESOURCES

If additional resources are required to offer this course, provide information on the source(s) of those additional resources.

Faculty member(s) who will normally teach this course

Woo Soo Kim

Additional faculty members, space, and/or specialized equipment required in order to offer this course

CONTACT PERSON

Academic Unit / Program

School of Mechatronic Systems Engineering

Name (typically, Graduate Program Chair)

Mehrdad Moallem

Email

mmoallem@sfu.ca

ACADEMIC UNIT APPROVAL

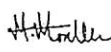
A course outline must be included.

Non-departmentalized faculties need not sign

Graduate Program Committee

Mehrdad Moallem

Signature



Digitally signed by M. Moallem
DN: cn=M. Moallem, o=SFU,
email=mehrdad.moallem@sfu.ca, c=US
Date: 2018.12.17 17:31:02 -0800

Date

December 17, 2018

Department Chair

Farid Golnaraghi

Signature



Date

12/18/18

FACULTY APPROVAL

The course form and outline must be sent by FGSC to the chairs of each FGSC (fgsc-list@sfu.ca) to check for an overlap in content

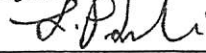
Overlap check done? ☒ YES

This approval indicates that all the necessary course content and overlap concerns have been resolved. The Faculty/Academic Unit commits to providing the necessary resources.

Faculty Graduate Studies Committee

Parvaneh Saeedi

Signature



Date

Jan 17, 2019

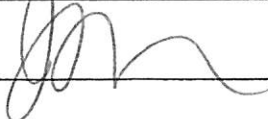
A library review will be conducted. If additional funds are necessary, DGS will contact the academic unit prior to SGSC.

SENATE GRADUATE STUDIES COMMITTEE APPROVAL

Senate Graduate Studies Committee

Jeff Derksen

Signature



Date

FEB - 8 2019

ADMINISTRATIVE SECTION (for DGS office only)

Library Check: JAN 21 2019

Course Attribute:

Course Attribute Value:

Instruction Mode:

Attendance Type:

If different from regular units:

Academic Progress Units:

Financial Aid Progress Units:

Course Description: Advanced 3D Printing

Provides insight regarding advanced additive manufacturing technologies in various mechatronic applications. Comprehensive knowledge is presented relevant to advanced 3D printing technologies including direct writing, paste extrusion, and laser direct writing. Topics range from 3D printable material design to application-driven engineering design technology trends including state-of-the-art 3D printed applications. Students will learn the practical perspective of advanced additive manufacturing with various engineering materials: polymers, metals, composites, nano-materials, and biomaterials.

Graduate Course Information Form
Simon Fraser University
School of Mechatronic Systems Engineering

Course number: MSE 812

Course title: Advanced 3D Printing

Instructor: Dr Woo Soo Kim

Frequency of course offering: Biennial

Course description:

Additive manufacturing as an industrial 3D-printing uses a layer-by-layer technology for manufacturing, where objects are generated by digital automation. Recently it has attracted broad industrial and consumer interest, with potential implications ranging from personalized fabrication to disruption of traditional supply chains. This course will provide insight in the opportunities of advanced additive manufacturing technologies in various mechatronic applications. The goal of this course is to offer a comprehensive knowledge of advanced 3D printing technologies including direct writing, paste extrusion, and laser direct writing. The course will span from 3D printable material design to application-driven engineering design technology trends including a state-of-the-art 3D printed applications. Students will learn the practical perspective of advanced additive manufacturing with various engineering materials: polymers, metals, composites, nano-materials, and biomaterials.

Syllabus:

- 1) Week 1: Overview- 3D printing technology overview and history
- 2) Week 2/3: Structural electronics with additive manufacturing
- 3) Week 4: Extrusion control in 3D printing
- 4) Week 5: 3D printed cellular composite; miniaturized 3D truss design

- 5) Week 6: Metal 3D printing; from liquid metal to low-melting alloys
- 6) Week 7: Additive manufacturing in MEMS
- 7) Week 8: 3D printable ceramic for mechatronic applications
- 8) Week 9: Embedded Sensors for Internet-of-Things
- 9) Week 10: Soft robotics and soft machines
- 10) Week 11: Design optimization in 3D Printing
- 11) Week 12/13: Group project presentation.

Textbook:

- 3D Printing and Additive Manufacturing, Chee Kai Chua, World Scientific, 2014, 548 pages. (available online at SFU library).

Recommended readings:

Notes and selected papers in these journals will be provided.

- "3D Printing and Additive Manufacturing", Editor-in-Chief: Skylar Tibbits, Mary Ann Liebert, Inc.
- "Additive Manufacturing", Editor-in-Chief: Ryan Wicker, Elsevier

Prerequisites: Graduate level standing (students must have taken MSE 220, MSE 221, MSE 320, or equivalent courses).

Grading:

Assignments	10%
Midterm Exam	20%
Final Exam	50%
Project	20%

Does the course have a project? Yes

If yes, please provide details:

Students will work on a project in order to design and analyze 3D printed mechatronic applications. It will be CAD-to-CAM project, which includes practical 3D printing process implementation. A formal technical report will be handed in with details on design sketch, CAD file, and actual 3D printed result. The targeted projects and solutions will be proposed by the student. Students will present their group works in a seminar-like session at the end of the course.

Teaching competency:

Dr Kim (P. Eng) has extensive experience on advanced printing and additive fabrication for more than 10 years in both academic and cutting-edge industrial research settings. At SFU, he developed and taught MSE 425 (Nano Manufacturing) from Summer 2011, in addition to MSE 220 (Engineering Materials), and MSE 221 (Statics & Strength of Materials).



FACULTY OF
ENVIRONMENT

TEL +1 778 782 8787; FAX +1 778 782 8788; Building TASC2-8800

Faculty of Environment www.sfu.ca/fenv

OFFICE OF THE DEAN

Simon Fraser University, 8888 University Drive, Burnaby
BC Canada V5A 1S6

To: Dr. Jeff Derksen, Dean of Graduate Studies / Chair of SGSC

From: Dr. Dongya Yang, Associate Dean /Chair, Faculty of Environment Graduate Studies Committee

Date: Jan. 16, 2019

Re: Geography Course Changes

The Faculty of Environment Graduate Studies Committee has approved the requests from Geography to create two new courses (GEOG 621 and GEOG 686) ~~and to correct typos for GEOG 678).~~

Attached, please find the original Memo from Geography, and all the supporting documents.

Should you have any questions, please feel free to contact.

A handwritten signature in black ink, appearing to be 'Dongya Yang', is written over a horizontal line.

Dongya Yang, Ph.D.
Associate Dean of Research and Graduate Studies
Professor of Bioarchaeology



FACULTY OF
ENVIRONMENT

DEPARTMENT OF
GEOGRAPHY

TEL +1 778 782 3321
sfu.ca/geography

Simon Fraser University
8888 University Drive
Burnaby BC
Canada V5A 1S6

MEMORANDUM

RE: Department of Geography Graduate Calendar changes

Included in package:

~~Calendar Entry Change Form~~

~~Graduate Course Change: GEOG 678~~

New Graduate Course: GEOG 621

New Graduate Course: GEOG 686

Course Outlines for all New Graduate Course Proposals

Course Outlines for Undergrad courses combined with new Graduate courses

New Graduate Courses have been created to offer more elective courses to Geography MA students.

~~Course Change is due to an error in the initial creation of a course, where the wrong prerequisite was added.~~

There have been no changes to the program requirements. All course changes will take effect in Fall 2019 and have been approved by the Geography Department.

Suzana Dragicevic
Geography Graduate Program Chair

New Graduate Course Proposal

Attach a separate document if more space is required.

Course Subject (eg. PSYC) GEOG	Number (eg. 810) 621	Units (eg. 4) 4
Course title (max 100 characters including spaces and punctuation) Advanced Geographical Political Economy		
Short title (for enrollment/transcript - max 30 characters) Advanced Geog Political Econ		
Course description for SFU Calendar * Examines the historical development of the material spaces and places affected by changing capitalist dynamics and the dominant theories through which they are explained, legitimized, and criticized, from a geographical perspective. Special attention is given to interdisciplinary challenges posed by the combination of geographic, political and economic theoretical and methodological traditions.		
Rationale for introduction of this course Human Geography electives needed for Geography MA program.		
Term of initial offering Fall 2019	Course delivery (eg 3 hrs/week for 13 weeks) 4 hrs/week for 13 weeks	
Frequency of offerings/year 1 / year	Estimated enrollment/offering 5	
Equivalent courses (These are previously approved courses that replicate the content of this course to such an extent that students should not receive credit for both courses.)		
Prerequisite and/or Corequisite **		
Educational Goals (optional)		
Criminal record check required? ☐ Yes ***	Additional course fees? ☐ Yes ☒ No	
Campus where course will be taught ☒ Burnaby ☐ Surrey ☐ Vancouver ☐ Great Northern Way ☐ Off campus		
Course Components ☐ Lecture ☒ Seminar ☐ Lab ☐ Research ☐ Practicum ☐ Online ☐ _____		
Grading Basis ☒ Letter grades ☐ Satisfactory or Unsatisfactory ☐ In Progress/Complete		
Repeat for credit? **** ☐ Yes ☒ No	Total repeats allowed? _____	Capstone course? ☐ Yes ☒ No
Required course? ☐ Yes ☒ No	Final exam required? ☐ Yes ☒ No	Repeat within a term? ☐ Yes ☒ No
Combined with an undergrad course? ☒ Yes ☐ No If yes, identify which undergraduate course and what the additional course requirements are for graduate students:		

* Course descriptions should be brief and should never begin with phrases such as "This course will..." or "The purpose of this course is..." If the grading basis is satisfactory/unsatisfactory include this in the description.

** If a course is only available to students in a particular program, that should be stated in the prerequisite.

*** If yes, then add this requirement as a prerequisite.

**** This applies to a Special Topics or Directed Readings course.

RESOURCES

If additional resources are required to offer this course, the department proposing the course should be prepared to provide information on the source(s) of those additional resources.

Faculty member(s) who will normally teach this course Geoff Mann
Additional faculty members, space, and/or specialized equipment required in order to offer this course

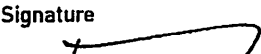
CONTACT PERSON

Department / School / Program Geography	Contact name Erin Rodgers	Contact email geoggrad@sfu.ca
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DEPARTMENTAL APPROVAL

REMINDER: New courses must be identified on a cover memo and confirmed as approved when submitted to FGSC/SGSC. Remember to also include the course outline.

Non-departmentalized faculties need not sign

Department Graduate Program Committee Nicholas Blomley	Signature 	Date Dec 6 2018
Department Chair Tracy Brennand	Signature 	Date Jan 15 2018

LIBRARY REVIEW

Library review done? ☒ YES

Course form, outline, and reading list must be sent by FGSC to lib-courseassessment@sfu.ca for a review of library resources.

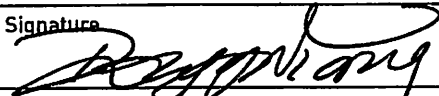
OVERLAP CHECK

Overlap check done? ☒ YES

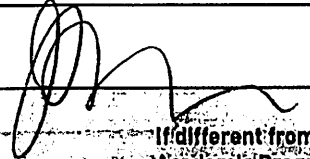
The course form and outline must be sent by FGSC to the chairs of each FGSC (fgsc-list@sfu.ca) to check for an overlap in content.

FACULTY APPROVAL

This approval indicates that all the necessary course content and overlap concerns have been resolved, and that the Faculty/Department commits to providing the required Library funds and any other necessary resources.

Faculty Graduate Studies Committee (FGSC) Dongya Yang	Signature 	Date Jan 16, 2019
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SENATE GRADUATE STUDIES COMMITTEE APPROVAL

Senate Graduate Studies Committee (SGSC) Jeff Derksen	Signature 	Date FEB - 8 2019
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ADMINISTRATIVE SECTION (for DGS office only)

Course Attribute

Course Attribute Value

Instruction Mode

Attendance Type

If different from regular units

Academic Progress Units

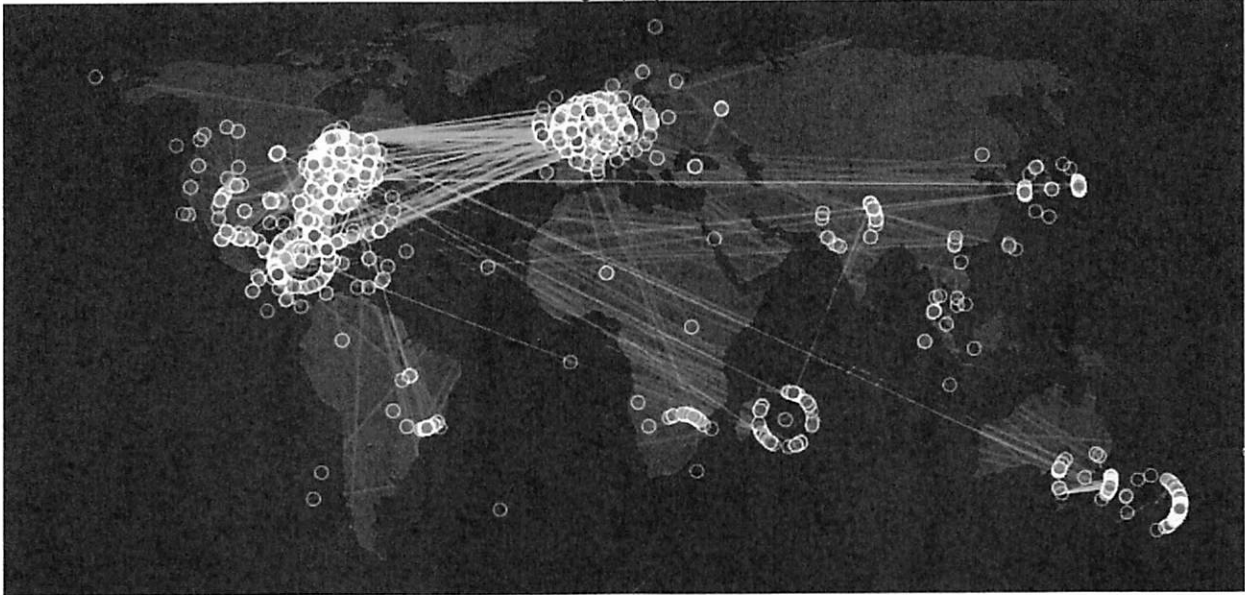
Financial Aid Progress Units

Library review: **JAN 16 2019**

GEOG 621 – Combined with Undergrad course GEOG 421

Additional course work is a research paper, which is probably publishable in an ideal scenario, as well as additional reading.

ADVANCED GEOGRAPHICAL POLITICAL ECONOMY
Geography 621



Instructor: Geoff Mann

This course investigates historical, geographical and political implications of modern political economic thinking. The aim is to provide students with an advanced understanding of political economy, and of some of the most influential political economic theory of the last 200 years, beginning with the early stages of modern industrial development and continuing through to the present day. The course centres on the detailed examination of key texts and the debates and new ideas they have generated. We will emphasize the role and operation of markets, the place of state and non-state institutions, colonialism and the diversity of historical experience, and the work of formal and informal economic governance (macroeconomic policy, (de)regulation, trade regimes, etc.). Students without some familiarity with basic political economy will be expected to do additional reading before the semester begins (please contact the instructor). Active participation in class discussion is required.

Materials

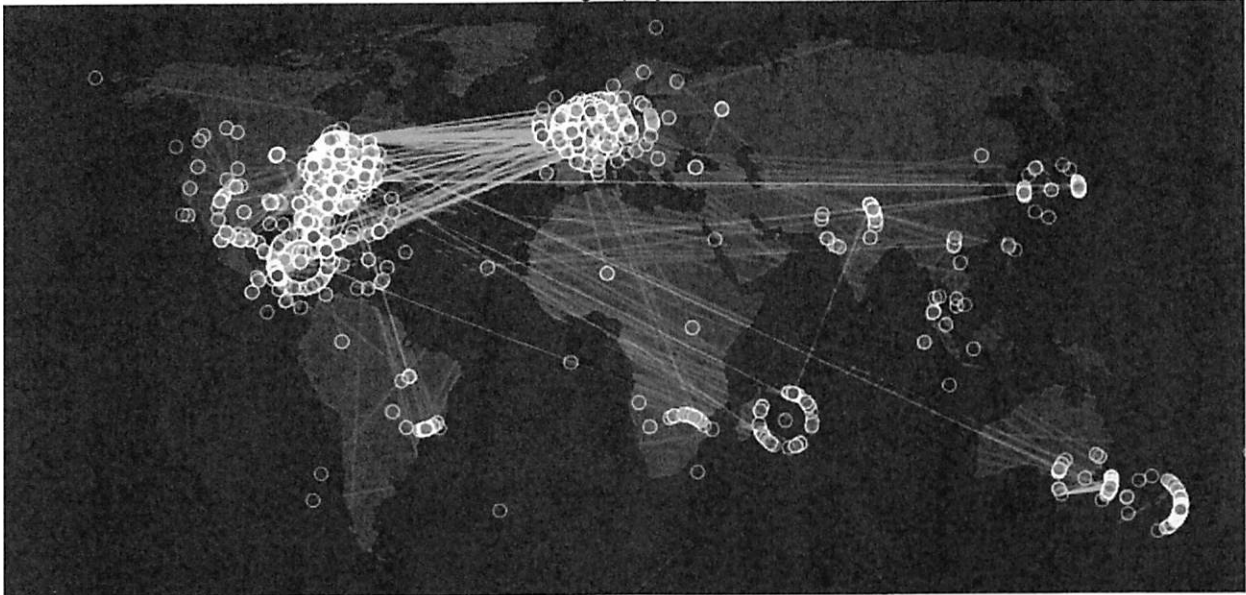
Course reader

Evaluation (tentative)

Research paper	40%
Policy brief	15%
Presentation	15%
Participation	20%
In-class writing	<u>10%</u>
	100%

GEOGRAPHICAL POLITICAL ECONOMY

Geography 421



Instructor: Geoff Mann

This course investigates historical, geographical and political implications of modern political economic thinking. The aim is to provide students with an advanced understanding of political economy, and of some of the most influential political economic theory of the last 200 years, beginning with the early stages of modern industrial development and continuing through to the present day. The course centres on the detailed examination of three key texts and the debates and new ideas they have generated. These are: Marx's *Capital* (1867), Keynes' *General Theory* (1937), and Piketty's *Capital in the 21st Century* (2013). We will emphasize the role and operation of markets, the place of state and non-state institutions, colonialism and the diversity of historical experience, and the work of formal and informal economic governance (macroeconomic policy, (de)regulation, trade regimes, etc.). Students without some familiarity with basic political economy will be expected to do additional reading before the semester begins (please contact the instructor). Active participation in class discussion is required.

Materials

- (1) K. Marx, *Capital*, vol. 1, Penguin 1992.
- (2) J. M. Keynes, *The General Theory of Employment, Interest and Money*, Cambridge 2012.
- (3) T. Piketty, *Capital in the 21st Century*, Belknap-Harvard 2014.

Evaluation (tentative)

2 short papers	40%
Policy brief	15%
Presentation	15%
Participation	20%
In-class writing	10%
	100%

New Graduate Course Proposal

Attach a separate document if more space is required.

Course Subject (eg. PSYC) GEOG	Number (eg. 810) 686	Units (eg. 4) 4
Course title (max 100 characters including spaces and punctuation) Advanced Health Geography		
Short title (for enrollment/transcript - max 30 characters) Advanced Health Geography		
Course description for SFU Calendar * Multiple approaches to relationships to between health and place are discussed. This includes exploring underlying theories, concepts, and methods used by health geographers for traditional and contemporary research.		
Rationale for introduction of this course There are currently no Health Geography courses for graduate students.		
Term of initial offering Fall 2019	Course delivery (eg 3 hrs/week for 13 weeks) 4 hrs/week for 13 weeks	
Frequency of offerings/year 1 / year	Estimated enrollment/offering 5	
Equivalent courses (These are previously approved courses that replicate the content of this course to such an extent that students should not receive credit for both courses.) Students who have taken GEOG 486 may not take this course for further credit.		
Prerequisite and/or Corequisite **		
Educational Goals (optional)		
Criminal record check required? ☐ Yes ***	Additional course fees? ☐ Yes ☒ No	
Campus where course will be taught ☒ Burnaby ☐ Surrey ☐ Vancouver ☐ Great Northern Way ☐ Off campus		
Course Components ☐ Lecture ☒ Seminar ☐ Lab ☐ Research ☐ Practicum ☐ Online ☐ _____		
Grading Basis ☒ Letter grades ☐ Satisfactory or Unsatisfactory ☐ In Progress/Complete		
Repeat for credit? **** ☐ Yes ☒ No	Total repeats allowed? _____	Capstone course? ☐ Yes ☒ No
Required course? ☐ Yes ☒ No	Final exam required? ☐ Yes ☒ No	Repeat within a term? ☐ Yes ☒ No
Combined with an undergrad course? ☒ Yes ☐ No If yes, identify which undergraduate course and what the additional course requirements are for graduate students:		

* Course descriptions should be brief and should never begin with phrases such as "This course will..." or "The purpose of this course is..." If the grading basis is satisfactory/unsatisfactory include this in the description.

** If a course is only available to students in a particular program, that should be stated in the prerequisite.

*** If yes, then add this requirement as a prerequisite.

**** This applies to a Special Topics or Directed Readings course.

RESOURCES

If additional resources are required to offer this course, the department proposing the course should be prepared to provide information on the source(s) of those additional resources.

Faculty member(s) who will normally teach this course

Valorie Crooks, Nadine Schuurman

Additional faculty members, space, and/or specialized equipment required in order to offer this course

CONTACT PERSON

Department / School / Program Geography	Contact name Erin Rodgers	Contact email geoggrad@sfu.ca
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DEPARTMENTAL APPROVAL

REMINDER: New courses must be identified on a cover memo and confirmed as approved when submitted to FGSC/SGSC. Remember to also include the course outline.

Non-departmentalized faculties need not sign

Department Graduate Program Committee Nicholas Blomley	Signature 	Date Dec 6 2018
Department Chair Tracy Brennand	Signature 	Date Jan 15 2018

LIBRARY REVIEW

Library review done? ☒ YES

Course form, outline, and reading list must be sent by FGSC to lib-courseassessment@sfu.ca for a review of library resources.

OVERLAP CHECK

Overlap check done? ☒ YES

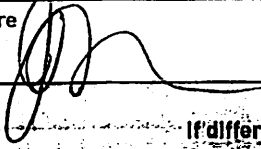
The course form and outline must be sent by FGSC to the chairs of each FGSC (fgsc-list@sfu.ca) to check for an overlap in content.

FACULTY APPROVAL

This approval indicates that all the necessary course content and overlap concerns have been resolved, and that the Faculty/Department commits to providing the required Library funds and any other necessary resources.

Faculty Graduate Studies Committee (FGSC) Dongya Yang	Signature 	Date Jan 16, 2019
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SENATE GRADUATE STUDIES COMMITTEE APPROVAL

Senate Graduate Studies Committee (SGSC) Jeff Derksen	Signature 	Date FEB - 8 2019
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ADMINISTRATIVE SECTION (for DGS office only)

Course Attribute:

Course Attribute Value:

Instruction Mode:

Attendance Type:

Library review: **JAN 16 2019**

If different from regular units:

Academic Progress Units:

Financial Aid Progress Units:

GEOG 686 – Combined with Undergrad course GEOG 486

Graduate students will be expected to facilitate two class discussions and will write an extended final paper.

[class day & time]

Instructor: Dr. Valorie Crooks
Canada Research Chair in Health Service Geographies
Scholar, Michael Smith Foundation for Health Research

RCB 7227
Phone: 778-782-2004
E-mail: crooks@sfu.ca
Office hours: [day & time]

Geography 686: Health Care Geographies

Course Overview:

This seminar course involves an in-depth examination of health care and health services from a health geography perspective, including place-based considerations of care spaces, health workers, and new or emerging forms of care. We will focus on examining 'global health care mobilities', which are global forms of health care provision. Such mobilities include: medical tourism; formal cross-border care; health worker migration; physician voluntourism; some global health diplomacy initiatives; medical outsourcing; off-shore medical schooling; and international retirement migration. Each of these mobilities involves the movement of patients, trainees, workers, and/or technologies across borders in order to facilitate care delivery/receipt. In this course we will take a critical look at these types of global health care mobilities, highlighting the health equity impacts of such practices both here in Canada and internationally.

Mark Breakdown:

Class Participation	20%
Newspaper Assignment	10%
Class Facilitation Assignment	10%
Article Talking Points Assignment	10%
Research Paper Assignment	50%

Prerequisites:

N/A

Required Course Texts:

None.

Assignment Overview and Due Dates:

- Class facilitation assignment (10%) – you will need to take leadership for facilitating discussion in one of the classes this term
 - Newspaper assignment (10%) – you will need to find, synthesize, and present about a recent newspaper article related to course materials
 - Article talking points assignment (10%) – you will need to develop a synthesis sheet of a global health care mobility study and present it in class
 - Research paper assignment (50%) – you will submit a final research paper on December 1st (you must approve your topic with the instructor by November 7th)
-

Class Participation:

Class participation makes up 20% of your final grade. Class participation is measured equally by attendance and *active* participation in the class. Active participation will be assessed according to the student's engagement in class discussion, incorporation of class readings into discussion, willingness to foster a positive exchange of ideas, responses to questions posed by and activities conducted by the facilitator and instructor, and involvement in discussing the journal articles and newspaper articles presented by other students.

Students are allowed one absence from class (because sometimes life happens!). Subsequent absences will result in a letter grade being deducted from the attendance portion of the grade (for example, the second absence will reduce the attendance grade from an 'A' to a 'B' grade). If students are excused from more than one class under SFU policies, documentation must be provided to the instructor at the earliest possible date. If you have any concerns regarding your participation in class, feel free to discuss these with the instructor.

Late Penalty:

All assignments are due at the start of the class on the stated due date. Late assignments will receive a penalty of 10% of the value of the assignment per day, including weekend days. Assignments not received within 5 days of the due date will receive a mark of zero unless prior arrangements have been made with the instructor. This late penalty will be applied to all assignments where an extension was not previously arranged. Assignment extensions will be granted only in rare cases to those students who have extenuating circumstances that warrant such an action. All extensions must be arranged with the course instructor directly prior to the outlined due date and assignments must be submitted in-person (not via e-mail).

Instructor Availability:

I will be holding office hours from [time & day]. If you would like to speak with me in person and are not available during this time please contact me directly. I check my e-mail frequently and tend to respond quickly to e-mail messages. I am happy to receive e-mails from students about the course, the assignments or otherwise. *All e-mail correspondence must include the course number (686) in the*

subject line and be sent from a SFU e-mail address. E-mail messages that do not follow these requirements will likely be deleted without having been read. Please keep in mind that e-mail correspondence should be written in a formal fashion (i.e., not in the same way that you e-mail with your friends!).

Grading Scale:

Percentage	Letter Grade
90–100	A+
85–89.9	A
80–84.9	A-
76–79.9	B+
73–75.9	B
70–72.9	B-
66–69.9	C+
63–65.9	C
60–62.9	C-
50–59.9	D
0–49.9	F

Academic Dishonesty:

Academic dishonesty consists of misrepresentation by deception or by other fraudulent means and can result in serious consequences and/or suspension or expulsion from the university. It is your responsibility to understand what constitutes academic dishonesty. I take matters of academic (dis)honesty very seriously and encourage you to familiarize yourself with the University's expectations of students by visiting: <http://www.sfu.ca/policies/Students/index.html>.

Topical and Reading Overview:

Date	Topic	Readings
	Introduction & Course Overview	n/a
	Medical Tourism (non-controversial procedures)	- Adams, K. et al (in press) "Stay cool, sell stuff cheap, and smile": Examining how reputational management of dental tourism reinforces structural oppression in Los Algodones, Mexico. <i>Social Science & Medicine</i> (this article will be found in the pre-press section of the journal) - Meghani, Z. (2013) The ethics of medical tourism: From the United Kingdom to India seeking medical care. <i>Int J Health Serv</i> 43(4): 779-800. - Kingsbury, P. et al. (2012) Narratives of emotion and anxiety

		in medical tourism: on State of the Heart and Larry's Kidney. <i>Social & Cultural Geography</i> 13(4): 1-19. - Johnston, R. et al. (2016) Providers' perspectives on inbound medical tourism in Central America and the Caribbean: Factors driving and inhibiting sector development and their health equity implications. <i>Global Health Action</i> 9: 32760.
	Medical Tourism (controversial procedures)	- Martin, L.J. (2009) Reproductive tourism in the age of globalization. <i>Globalizations</i> 6(2): 249-263. - Deonandan, R. et al., (2012) Ethical concerns for maternal surrogacy and reproductive tourism. <i>J Med Ethics</i> 38: 742-745. - Einsiedel, EF & Adamson, H. (2012) Stem cell tourism and future stem cell tourists: policy and ethical implications. <i>Developing World Bioethics</i> 12(1): 35-44. - Snyder, J. et al. (2015) Navigating physicians' ethical and legal duties to patients seeking unproven interventions abroad. <i>Canadian Family Physician</i> 61(7): 584-586. - Zarzeczny, A. et al. (2014) Professional regulation – a valuable tool in responding to 'stem cell tourism.' <i>Stem Cell Reports</i> 3:16.
	Health & Wellness Tourism	- Heung, V.C.S. & Kucukusta, D. (2012) Wellness tourism in China: Resources, Development and Marketing. <i>International Journal of Tourism Research</i> 15(4): 346-359. - Islam, N. (2012) New age orientalism: Ayurvedic 'wellness and spa culture'. <i>Health Sociology Review</i> 21(2): 220-231. - Serbulea, M. & Payyappallimana, U. (2012) Onsen (hot springs) in Japan – Transforming terrain into healing landscapes. <i>Health & Place</i> 18(6): 1366-1373. - Hritz, N.M. et al. (2014) Segmenting the college educated generation y health and wellness traveler. <i>Journal of Travel & Tourism Marketing</i> 31(1): 132-145.
	Arranged Cross-Border Care	- Runnels, V. et al. (2014) Canadian physicians' responses to cross border health care. <i>Globalization and Health</i> 10: 20. - Glinos, I.A. et al. (2010) A typology of cross-border patient mobility. <i>Health & Place</i> 16(6): 145-1155. - Osterle, A. (2007) Health care across borders – Austria and its new EU neighbours. <i>Journal of European Social Policy</i> 17(2): 112-124. - Glinos, I.A. & Baeten, R. (2014) Dream vs reality: Seven case-studies on the desirability and feasibility of cross-border hospital collaboration in Europe. <i>Social Science & Medicine</i> 117: 18-24.
	International Retirement Migration	- Legido-Quigley, H. et al. (2012) The health care experience of British pensioners migrating to Spain: A qualitative study. <i>Health Policy</i> 105(1): 46-54. - Sloane, P.D. et al. (2013) Health care experiences of US retirees living in Mexico and Panama: a qualitative study. <i>BMC Health Services Research</i> 13: 411.



		- Hoffman, L. et al (in press) Pills in paradise: exploring international lifestyle and retirement migrants' perceptions of the pharmaceutical sector on Cozumel Island, Mexico. <i>Health & Place</i> (this article is currently in the pre-press section of the journal) - Toyota, M. & Xiang, B. (2012) The emerging transnational "retirement industry" in Southeast Asia. <i>International Journal of Sociology & Social Policy</i> 32(11/12): 708-719.
	International Humanitarian Medical Missions	- Maki, J. et al. (2008) Health impact assessment and short-term medical missions: A methods study to evaluate quality of care. <i>BMC Health Services Research</i> 8: 121. - Asgary, R. & Junck, E. (2013) New trends of short-term humanitarian medical volunteerism: professional and ethical considerations. <i>Journal of Medical Ethics</i> 39: 625-631. - Suchdev, P. et al. (2007) A model for sustainable short-term international medical trips. <i>Ambulatory Pediatrics</i> 7(4): 317-320. - McLennan, S. (2014) Medical voluntourism in Honduras: 'Helping' the poor? <i>Progress in Development Studies</i> 14(2): 163-179.
	Physician Voluntourism	- Snyder, J. et al. (2011) Fly-by medical care: conceptualizing the global and local social responsibilities of medical tourists and physician voluntourists. <i>Globalization and Health</i> 7:6 - Chiu, Y.W. et al. (2014) Perceptions and Efficiency of Short-term Medical Aid Missions Among Key Groups of Health Professionals. <i>Evaluation & The Health Professions</i> 37(3): 379-393. Wall, L.L. et al. (2006) Humanitarian ventures or 'fistula tourism?': the ethical perils of pelvic surgery in the developing world. <i>International Urogynecology Journal</i> 17(6): 559-562. - Green, T. et al. (2009) Perceptions of short-term medical volunteer work: A qualitative study in Guatemala. <i>Globalization & Health</i> 5:4
	Medical Outsourcing	- Bean, S. (2009) Foreign medical outsourcing: Possibilities, Perils and Parameters. <i>Healthcare Quarterly</i> 12(1): 84-87. - Wachter, R.M. (2006) The "dis-location" of US medicine – the implications of medical outsourcing. <i>The New England Journal of Medicine</i> 354:7 - Larson, P.A. & Janower, M.L. (2005) The nighthawk: bird of paradise or albatross? <i>Journal of the American College of Radiology</i> 2(12): 967-970. - McLean, T.R. & Richards, E.P. (2006) Teleradiology: a case study of the economic and legal considerations in international trade in telemedicine. <i>Health Affairs</i> 25(5): 1378-1385.
	Health Worker Migration (impacts & benefits in the	- Islam, N. (2014) The dilemma of physician shortage and international recruitment in Canada. <i>International Journal of</i>

Global North)	<i>Health Policy and Management</i> 3(1): 29-32. - North, N. (2007) International Nurse Migration: Impacts on New Zealand. <i>Policy, Politics & Nursing Practice</i> 8(3): 220-228. - Ronquillo, C. et al. (2011) Beyond greener pastures: exploring contexts surrounding Filipino nurse migration in Canada through oral history. <i>Nursing Inquiry</i> 18(3): 262-275. - Isaksen, L.W. (2012) Transnational spaces of care: migrant nurses in Norway. <i>Social Politics</i> 19(1): 58-77.
Health Worker Migration (impacts & benefits in the Global South)	- Lofters, A.K. (2012) The "brain drain" of health care workers: causes, solutions and the example of Jamaica. <i>Canadian Journal of Public Health</i> 103(5): e376-378. - Dimaya, R.M. et al. (2012) Managing health worker migration: a qualitative study of the Philippine response to nurse brain drain. <i>Human Resources for Health</i> 10:47 - Sheikh, A. et al. (2012) Physician migration at its roots: a study on the factors contributing towards a career choice abroad among students at a medical school in Pakistan. <i>Globalization & Health</i> 8:43 - Akl, E.A. et al. (2007) Why are you draining your brain? Factors underlying decisions of graduating Lebanese medical students to migrate. <i>Social Science & Medicine</i> 64(6): 1278-1284.
** NO CLASS**	
Offshore Medical Schools & Reflecting on the future of global health care mobilities in health geography	- Maharaj, S.R. (2012) The origin and future of offshore medical schools in the Caribbean. <i>The West Indian Medical Journal</i> 61(3): 280-283. - Barer, M.L. et al. (2014) Two wings and a prayer: should Canada make it easier for Canadian doctors trained abroad to enter practice here? <i>Healthcare Policy</i> 9(4): 12-19. - Morgan, J. et al. (2017) "Location is surprisingly a lot more important than you think": a critical thematic analysis of push and pull factor messaging used on Caribbean offshore medical school websites. <i>BMC Medical Education</i> 17: 99. - Eckhert, N.L. (2010) Perspective: Private schools of the Caribbean: outsourcing medical education. <i>Academic Medicine</i> 85(4): 622-630. - Crooks, V.A & J. Morgan (2017) The risky lure of Caribbean offshore medical schools. <i>The Conversation</i>. https://theconversation.com/the-risky-lure-of-caribbean-offshore-medical-schools-78829

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Accommodations:

Students requiring accommodation arrangements in order to complete this course should register with the *Centre for Studies with Disabilities* and discuss with me their accommodation requirements in advance of exams and assignment deadlines.

Tuesdays 8:30-12:30

Instructor: Dr. Valorie Crooks
Canada Research Chair in Health Service Geographies
Scholar, Michael Smith Foundation for Health Research

RCB 7227
Phone: 778-782-2004
E-mail: crooks@sfu.ca
Office hours: Tuesday 1-2pm or by appointment

Geography 486: Health Care Geographies

Course Overview:

This seminar course involves an in-depth examination of health care and health services from a health geography perspective, including place-based considerations of care spaces, health workers, and new or emerging forms of care. We will focus on examining 'global health care mobilities', which are global forms of health care provision. Such mobilities include: medical tourism; formal cross-border care; health worker migration; physician voluntourism; some global health diplomacy initiatives; medical outsourcing; off-shore medical schooling; and international retirement migration. Each of these mobilities involves the movement of patients, trainees, workers, and/or technologies across borders in order to facilitate care delivery/receipt. In this course we will take a critical look at these types of global health care mobilities, highlighting the health equity impacts of such practices both here in Canada and internationally.

Mark Breakdown:

Class Participation	20%
Newspaper Assignment	10%
Class Facilitation Assignment	10%
Article Talking Points Assignment	10%
Research Paper Assignment	50%

Prerequisites:

Geog 386 or HSCI 305.

Required Course Texts:

None.

Assignment Overview and Due Dates:

- Class facilitation assignment (10%) – you will need to take leadership for facilitating discussion in one of the classes this term
- Newspaper assignment (10%) – you will need to find, synthesize, and present about a recent newspaper article related to course materials
- Article talking points assignment (10%) – you will need to develop a synthesis sheet of a global health care mobility study and present it in class
- Research paper assignment (50%) – you will submit a final research paper on December 1st (you must approve your topic with the instructor by November 7th)

Class Participation:

Class participation makes up 20% of your final grade. Class participation is measured equally by attendance and *active* participation in the class. Active participation will be assessed according to the student's engagement in class discussion, incorporation of class readings into discussion, willingness to foster a positive exchange of ideas, responses to questions posed by and activities conducted by the facilitator and instructor, and involvement in discussing the journal articles and newspaper articles presented by other students.

Students are allowed one absence from class (because sometimes life happens!). Subsequent absences will result in a letter grade being deducted from the attendance portion of the grade (for example, the second absence will reduce the attendance grade from an 'A' to a 'B' grade). If students are excused from more than one class under SFU policies, documentation must be provided to the instructor at the earliest possible date. If you have any concerns regarding your participation in class, feel free to discuss these with the instructor.

Late Penalty:

All assignments are due at the start of the class on the stated due date. Late assignments will receive a penalty of 10% of the value of the assignment per day, including weekend days. Assignments not received within 5 days of the due date will receive a mark of zero unless prior arrangements have been made with the instructor. This late penalty will be applied to all assignments where an extension was not previously arranged. Assignment extensions will be granted only in rare cases to those students who have extenuating circumstances that warrant such an action. All extensions must be arranged with the course instructor directly prior to the outlined due date and assignments must be submitted in-person (not via e-mail).

Instructor Availability:

I will be holding office hours from 1 to 2 on Tuesdays. If you would like to speak with me in person and are not available during this time please contact me directly. I check my e-mail frequently and tend to respond quickly to e-mail messages. I am happy to receive e-mails from students about the course, the assignments or otherwise. *All e-mail correspondence must include the course number (486)*

in the subject line and be sent from a SFU e-mail address. E-mail messages that do not follow these requirements will likely be deleted without having been read. Please keep in mind that e-mail correspondence should be written in a formal fashion (i.e., not in the same way that you e-mail with your friends!).

Grading Scale:

Percentage	Letter Grade
90–100	A+
85–89.9	A
80–84.9	A-
76–79.9	B+
73–75.9	B
70–72.9	B-
66–69.9	C+
63–65.9	C
60–62.9	C-
50–59.9	D
0–49.9	F

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Sept 19	Medical Tourism (controversial procedures)	- Martin, L.J. (2009) Reproductive tourism in the age of globalization. <i>Globalizations</i> 6(2): 249-263. - Deonandan, R. et al., (2012) Ethical concerns for maternal surrogacy and reproductive tourism. <i>J Med Ethics</i> 38: 742-745. - Einsiedel, EF & Adamson, H. (2012) Stem cell tourism and future stem cell tourists: policy and ethical implications. <i>Developing World Bioethics</i> 12(1): 35-44. - Snyder, J. et al. (2015) Navigating physicians' ethical and legal duties to patients seeking unproven interventions abroad. <i>Canadian Family Physician</i> 61(7): 584-586. - Zarzechny, A. et al. (2014) Professional regulation – a valuable tool in responding to 'stem cell tourism.' <i>Stem Cell Reports</i> 3:16.
Sept 26	Health & Wellness Tourism	- Heung, V.C.S. & Kucukusta, D. (2012) Wellness tourism in China: Resources, Development and Marketing. <i>International Journal of Tourism Research</i> 15(4): 346-359. - Islam, N. (2012) New age orientalism: Ayurvedic 'wellness and spa culture'. <i>Health Sociology Review</i> 21(2): 220-231. - Serbulea, M. & Payyappallimana, U. (2012) Onsen (hot springs) in Japan – Transforming terrain into healing landscapes. <i>Health & Place</i> 18(6): 1366-1373. - Hritz, N.M. et al. (2014) Segmenting the college educated generation y health and wellness traveler. <i>Journal of Travel & Tourism Marketing</i> 31(1): 132-145.
Oct 3	Arranged Cross-Border Care	- Runnels, V. et al. (2014) Canadian physicians' responses to cross border health care. <i>Globalization and Health</i> 10: 20. - Glinos, I.A. et al. (2010) A typology of cross-border patient mobility. <i>Health & Place</i> 16(6): 145-1155. - Osterle, A. (2007) Health care across borders – Austria and its new EU neighbours. <i>Journal of European Social Policy</i> 17(2): 112-124. - Glinos, I.A. & Baeten, R. (2014) Dream vs reality: Seven case-studies on the desirability and feasibility of cross-border hospital collaboration in Europe. <i>Social Science & Medicine</i> 117: 18-24.
Oct 10	International Retirement Migration	- Legido-Quigley, H. et al. (2012) The health care experience of British pensioners migrating to Spain: A qualitative study. <i>Health Policy</i> 105(1): 46-54. - Sloane, P.D. et al. (2013) Health care experiences of US retirees living in Mexico and Panama: a qualitative study. <i>BMC Health Services Research</i> 13: 411.

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Oct 17	International Humanitarian Medical Missions	- Maki, J. et al. (2008) Health impact assessment and short-term medical missions: A methods study to evaluate quality of care. <i>BMC Health Services Research</i> 8: 121. - Asgary, R. & Junck, E. (2013) New trends of short-term humanitarian medical volunteerism: professional and ethical considerations. <i>Journal of Medical Ethics</i> 39: 625-631. - Suchdev, P. et al. (2007) A model for sustainable short-term international medical trips. <i>Ambulatory Pediatrics</i> 7(4): 317-320. - McLennan, S. (2014) Medical voluntourism in Honduras: 'Helping' the poor? <i>Progress in Development Studies</i> 14(2): 163-179.
Oct 24	Physician Voluntourism	- Snyder, J. et al. (2011) Fly-by medical care: conceptualizing the global and local social responsibilities of medical tourists and physician voluntourists. <i>Globalization and Health</i> 7:6 - Chiu, Y.W. et al. (2014) Perceptions and Efficiency of Short-term Medical Aid Missions Among Key Groups of Health Professionals. <i>Evaluation & The Health Professions</i> 37(3): 379-393. Wall, L.L. et al. (2006) Humanitarian ventures or 'fistula tourism?': the ethical perils of pelvic surgery in the developing world. <i>International Urogynecology Journal</i> 17(6): 559-562. - Green, T. et al. (2009) Perceptions of short-term medical volunteer work: A qualitative study in Guatemala. <i>Globalization & Health</i> 5:4
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Nov 21	** NO CLASS** (office hours also cancelled this week, though I am always available by e-mail and private appointment)	
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