

Simon Fraser University
Maggie Benston Centre 1100
8888 University Drive
Burnaby, BC V5A 1S6

TEL 778.782.3042
FAX 778.782.3080

gradstudies@sfu.ca
www.sfu.ca/grad

MEMORANDUM

ATTENTION Senate
DATE June 20, 2019
FROM Zoë Druick,
Acting Chair of Senate Graduate
Studies Committee (SGSC)
RE: New Course Proposals



For information:

Acting under delegated authority at its meeting of June 20, 2019, SGSC approved the following curriculum items, effective **Spring 2020**:

Faculty of Applied Sciences

- 1) New course: CMPT 631 Industrial Internship (effective Fall 2019)
- 2) New course: ENSC 704 Industrial Internship (effective Fall 2019)
- 3) New course: MSE 795 Industrial Internship (effective Fall 2019)

School of Computing Science

- 4) New course: CMPT 712 Approximation and Randomized Algorithms
- 5) New course: CMPT 720 Robotic Autonomy: Algorithms and Computation
- 6) New course: CMPT 727 Statistical Machine Learning
- 7) New course: CMPT 762 Computer Vision
- 8) New course: CMPT 763 Biomedical Computer Vision
- 9) New course: CMPT 766 Computer Animation and Simulation
- 10) New course: CMPT 770 Parallel & Distributed Computing

Faculty of Arts and Social Sciences

Department of Urban Studies

- 11) New course: URB 601 Urban Professional Development I
- 12) New course: URB 602 Urban Professional Development II

Faculty of Communications, Art and Technology

- 13) New course: CMNS 835 Communication and Cultural Policies, Power and Governance

MEMORANDUM

Attention Dr. Jeff Derksen Date May 28, 2019
Dean, Graduate Studies

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

Re: FAS-CMPT, ENSC, MSE Calendar/new course proposal

The following new courses are approved by the Faculty of Applied Sciences and are forwarded to the Senate Graduate Studies Committee for approval. These curriculum items should be effective for *Fall 2019*. Please include them on the next SGSC agenda.

Currently our graduate students only have the option of enrolling in standard co-op courses. Most often, research students locate internship opportunities on their own and/or in consultation with their Senior Supervisor. These opportunities tend to fit better within their educational background and career goals than those available through co-op. These courses are designed to allow students and academic supervisors to easily manage this process and establish a more direct relationship between the supervisor and industrial partner. Another reason for creating this course is to ensure that students inform their senior supervisor about their intention to apply or accepting an internship offer allowing their supervisor to be more closely involved in the process.

Our existing co-op programs will be still available for our professional Masters degree where the GPC chair plays the role of academic advisor.

School of Computing Science

CMPT 631 – Industrial Internship

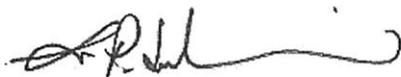
School of Engineering Science

ENSC 704 – Industrial Internship

School of Mechatronics System Engineering

MSE 795 – Industrial Internship

Best Regards,



Parvaneh Saeedi,
Faculty of Applied Science, Graduate Studies Committee



MEMORANDUM

Attention Dr. Jeff Derksen Date May 16, 2019
Dean, Graduate Studies

From Dr. Ghassan Hamarneh hamarneh@sfu.ca
Graduate Program Director, School of Computing Science

Re: CMPT Calendar / new course proposal

The following new course ~~are~~^{is} approved by the CMPT GPC and ~~are~~^{is} forwarded to the Senate Graduate Studies Committee for approval. These curriculum items should be effective for *Fall 2019*. Please include them on the next SGSC agenda.

Rationale: Currently our graduate students only have the option of enrolling in standard co-op courses and, most often, research students locate internship opportunities directly and/or in consultation with their Senior Supervisor. These courses are designed to allow for students and academic supervisors to easily manage this process and establish a more direct relationship between the academic supervisor and industrial partner. Another reason for creating this set of courses is that often students do not inform the academic supervisor about their intention to apply or accepting an internship offer and therefore such courses allows a more direct path for academic supervisor to be involved in the process.

Our existing co-op programs will be still available for our professional master's programs (PMP) degree students and the graduate dual degree program (GDDP) where the GPC chair plays the role of academic advisor.

1. CMPT 631 – Industrial Internship

Best Regards,

Dr. Ghassan Hamarneh
Graduate Program Director,
School of Computing Science

New Graduate Course Proposal

| | | |
|---|--|---|
| Course Subject (eg. PSYC) CMPT | Number (eg. 810) 631 | Units (eg. 4) 3 |
| Course title (max. 100 characters) Industrial Internship | | |
| Short title (for enrollment/transcript - max. 30 characters) Industrial Internship | | |
| 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 See attached. | | |
| Term of initial offering (eg. Fall 2019) Fall 2019 | Course delivery (eg. 3 hrs/week for 13 weeks) 13 weeks of full or part time work | |
| Frequency of offerings/year 3 times/year | Estimated enrollment per offering 2-3 per semester | |
| Equivalent courses (courses that replicates the content of this course to such an extent that students should not receive credit for both courses) | | |
| Prerequisite and/or Corequisite 12 units of CMPT course work with an SFU CGPA of at least 3.0. Approval of supervisor and a GPC representative is required prior to applying for, or accepting an internship | | |
| Criminal record check required? <input type="checkbox"/> Yes <input type="checkbox"/> No if yes is selected, add this as prerequisite | | Additional course fees? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Campus where course will be taught <input type="checkbox"/> Burnaby <input type="checkbox"/> Surrey <input type="checkbox"/> Vancouver <input type="checkbox"/> Great Northern Way <input checked="" type="checkbox"/> Off campus | | |
| Course Components * <input type="checkbox"/> Lecture <input type="checkbox"/> Seminar <input type="checkbox"/> Lab <input type="checkbox"/> Independent <input type="checkbox"/> Capstone <input checked="" type="checkbox"/> Internship | | |
| Grading Basis <input type="checkbox"/> Letter grades <input checked="" type="checkbox"/> Satisfactory/ Unsatisfactory <input type="checkbox"/> In Progress / Complete | | |
| Repeat for credit? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Total repeats allowed? 2 | Repeat within a term? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Required course? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Final exam required? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Capstone course? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Combined with a undergrad course? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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 N/A |
| Additional faculty members, space, and/or specialized equipment required in order to offer this course None required |

CONTACT PERSON

| | | |
|--|--|--------------------------|
| Academic Unit / Program Computing Science | Name (typically, Graduate Program Chair) Ghassan Hamarneh | Email hamarneh@sfu.ca |
|--|--|--------------------------|

ACADEMIC UNIT APPROVAL

A course outline must be included.

Non-departmentalized faculties need not sign

| | | |
|--|---------------------------------|---------------------|
| Graduate Program Committee Ghassan Hamarneh | Signature <i>[Signature]</i> | Date 2019-May-15 |
| Department Chair Mohamed Hefeeda | Signature <i>[Signature]</i> | Date 17 May 2019 |

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 Saredi | Signature <i>[Signature]</i> | Date May 28/2019 |
|---|---------------------------------|---------------------|

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 Zoe Druick | Signature <i>[Signature]</i> | Date JUN 20 2019 |
|---|---------------------------------|---------------------|

ADMINISTRATIVE SECTION (for DGS office only)

Library Check: MAY 22 2019
 Course Attribute: NCRP
 Course Attribute Value: Internship
 Instruction Mode: _____
 Attendance Type: _____

If different from regular units:
 Academic Progress Units: 6 10F
 Financial Aid Progress Units: 3
 Billing Factor: _____

CMPT 631

Course description

An internship in industry or a research environment for graduate research students. A final report will be submitted and graded by the student's supervisor. Units of this course do not count towards computing science breadth requirements. Graded on a satisfactory/unsatisfactory basis. Prerequisite: 12 units of CMPT course work with an SFU CGPA of at least 3.0. Approval of supervisor and a GPC representative is required prior to applying for, or accepting an internship.

Rationale

Currently students only have the option of enrolling in standard Coop courses and most often, research students locate internship opportunities directly and/or in consultation with their Academic Supervisor. The course(s) are being created to allow for students and Supervisors to easily manage this process.



SCHOOL OF ENGINEERING SCIENCE

MEMO

BURNABY
9801 Applied Sciences Building
8888 University Drive Burnaby
BC V5A 1S6 Canada

Tel: 778-782-4923
Fax: 778-782-4951
Web: www.sfu.ca/engineering

ATTENTION Parvaneh Saeedi, Associate Director

FROM Bonnie Gray, Graduate Program Committee Chair

RE New Course proposals

DATE May 17, 2019

Please accept our submission for new Engineering Graduate course proposals:

ENSC 704: Industrial Internship

If you have any questions, please let me know.



Dr Bonnie Gray

New Graduate Course Proposal

| | | |
|---|---|---|
| Course Subject (eg. PSYC) ENSC | Number (eg. 810) 704 | Units (eg. 4) 3 <small>PUB</small> |
| Course title (max. 100 characters) Industrial Internship | | |
| Short title (for enrollment/transcript - max. 30 characters) Industrial Internship | | |
| 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) The first term of an internship in industry or a research environment for MASc, PhD and MEng students. A final report will be submitted and graded by the student's _____ Supervisor. Graded on a satisfactory/unsatisfactory basis. | | |
| Rationale for introduction of this course Currently students only have the option of enrolling in standard Co-op courses and most often, research students locate internship opportunities directly and/or in consultation with their Senior Supervisor. The course(s) are being created to allow for students and Supervisors to easily manage this process. | | |
| Term of initial offering (eg. Fall 2019) Fall 2019 | Course delivery (eg. 3 hrs/week for 13 weeks) 13 weeks of full or part-time paid work | |
| Frequency of offerings/year 3 times per year | Estimated enrollment per offering estimate 2-5 per term | |
| Equivalent courses (courses that replicates the content of this course to such an extent that students should not receive credit for both courses) | | |
| Prerequisite and/or Corequisite 12 units of ENSC course work at the 800-level or higher with an SFU CGPA of at least 3.0. Approval of supervisor and a GPC representative is required prior to applying for, and accepting an internship. | | |
| Criminal record check required? <input type="checkbox"/> Yes <input type="checkbox"/> No if yes is selected, add this as prerequisite | | Additional course fees? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Campus where course will be taught <input type="checkbox"/> Burnaby <input type="checkbox"/> Surrey <input type="checkbox"/> Vancouver <input type="checkbox"/> Great Northern Way <input checked="" type="checkbox"/> Off campus | | |
| Course Components * <input type="checkbox"/> Lecture <input type="checkbox"/> Seminar <input type="checkbox"/> Lab <input type="checkbox"/> Independent <input type="checkbox"/> Capstone <input checked="" type="checkbox"/> Internship | | |
| Grading Basis <input type="checkbox"/> Letter grades <input checked="" type="checkbox"/> Satisfactory/ Unsatisfactory <input type="checkbox"/> In Progress / Complete | | |
| Repeat for credit? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Total repeats allowed? TWO | Repeat within a term? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Required course? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Final exam required? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Capstone course? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Combined with a undergrad course? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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 | Internship that requires prior approval by Senior Supervisor. |
| Additional faculty members, space, and/or specialized equipment required in order to offer this course | |
| None required | |

CONTACT PERSON

| | | |
|--|--|-------------------------|
| Academic Unit / Program Engineering Science | Name (typically, Graduate Program Chair) Dr Bonnie Gray | Email ensegpc@sfu.ca |
|--|--|-------------------------|

ACADEMIC UNIT APPROVAL

A course outline must be included.

Non-departmentalized faculties need not sign

| | | |
|--|---------------------------------|--------------------|
| Graduate Program Committee Dr Bonnie Gray | Signature <i>[Signature]</i> | Date May 16/19. |
| Department Chair Dr Glenn Chapman | Signature <i>[Signature]</i> | Date May 16/19 |

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 <i>[Signature]</i> | Date May 28/ 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 Zoe Druick | Signature <i>[Signature]</i> | Date JUN 20 2019 |
|---|---------------------------------|---------------------|

ADMINISTRATIVE SECTION (for DGS office only)
 Library Check: MAY 27 2019
 Course Attribute: NCPR
 Course Attribute Value: Internship
 Instruction Mode: _____
 Attendance Type: _____

Indirect from regular units: _____
 Academic Progress Units: 6
 Financial Aid Progress Units: 3.125
 Billing Factor: 1



SIMON FRASER UNIVERSITY
SURREY

SCHOOL OF MECHATRONIC SYSTEMS ENGINEERING

May 27, 2019

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 course proposal for new course entitled "MSE 795: Industrial Internship"

We are hereby proposing introduction of the above optional course for our MASc and PhD programs.

New Graduate Course Proposal

| | | |
|---|--|---|
| Course Subject (eg. PSYC) MSE | Number (eg. 810) 795 | Units (eg. 4) 3 ^{Dvs} |
| Course title (max. 100 characters) Industrial Internship | | |
| Short title (for enrollment/transcript - max. 30 characters) Industrial Internship | | |
| 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) Internship in industry or a research environment for graduate research students. A final report will be submitted and graded by the student's Supervisor on a satisfactory/unsatisfactory basis. | | |
| Rationale for introduction of this course Currently students only have the option of enrolling in standard Coop courses and most often, research students locate internship opportunities directly and/or in consultation with their Senior Supervisor. The course(s) are being created to allow for students and Supervisors to easily manage this process. | | |
| Term of initial offering (eg. Fall 2019) Fall 2019 | Course delivery (eg. 3 hrs/week for 13 weeks) 13 weeks of full or part-time work | |
| Frequency of offerings/year 3 times/year | Estimated enrollment per offering 2-5 per semester | |
| Equivalent courses (courses that replicates the content of this course to such an extent that students should not receive credit for both courses) | | |
| Prerequisite and/or Corequisite 12 units of MSE course work at the 700-level or higher with a minimum SFU CGPA of 3.0. Approval of supervisor and a GPC representative is required prior to applying for and accepting an internship." | | |
| Criminal record check required? <input type="checkbox"/> Yes <input type="checkbox"/> No if yes is selected, add this as prerequisite | | Additional course fees? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Campus where course will be taught <input type="checkbox"/> Burnaby <input type="checkbox"/> Surrey <input type="checkbox"/> Vancouver <input type="checkbox"/> Great Northern Way <input checked="" type="checkbox"/> Off campus | | |
| Course Components * <input type="checkbox"/> Lecture <input type="checkbox"/> Seminar <input type="checkbox"/> Lab <input type="checkbox"/> Independent <input type="checkbox"/> Capstone <input checked="" type="checkbox"/> Internship | | |
| Grading Basis <input type="checkbox"/> Letter grades <input checked="" type="checkbox"/> Satisfactory/ Unsatisfactory <input type="checkbox"/> In Progress / Complete | | |
| Repeat for credit? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Total repeats allowed? 2 | Repeat within a term? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Required course? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Final exam required? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Capstone course? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Combined with a undergrad course? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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 | Internship that requires prior approval by Senior Supervisor and a GPC representative. |
| Additional faculty members, space, and/or specialized equipment required in order to offer this course | |
| None required | |

CONTACT PERSON

| | | |
|---|--|--------------------------|
| Academic Unit / Program Mechatronics | Name (typically, Graduate Program Chair) M. Moullem | Email mmoullem@sfu.ca |
|---|--|--------------------------|

ACADEMIC UNIT APPROVAL

A course outline must be included.

Non-departmentalized faculties need not sign

| | | |
|--|--------------------------------|----------------------|
| Graduate Program Committee M. Moullem | Signature <i>M. Moullem</i> | Date May 15, 19 |
| Department Chair Ahmed Rad | Signature <i>AR</i> | Date May 15, 2019 |

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 Parraneh Saeedi | Signature <i>P. Saeedi</i> | Date May 28, 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 Zoe Druick | Signature <i>Z. Druick</i> | Date JUN 20 2019 |
|---|-------------------------------|---------------------|

ADMINISTRATIVE SECTION (for DGS office only)

Unit/Chair: MAY 22 2019
 Course/Author: NOPE
 Unit/Author Value: Internship
 Unit/Author Index: _____
 Approval Type: _____

If different from regular units:
 Academic Progress Units: 6
 Financial Aid Progress Units: 3 148F
 Billing Factor: 1



MEMORANDUM

Attention Dr. Jeff Derksen Date April 17, 2019
Dean, Graduate Studies

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

Re: FAS-CMPT Calendar/course changes

The following new courses are approved by the Faculty of Applied Sciences and are forwarded to the Senate Graduate Studies Committee for approval. These curriculum items should be effective for **Spring 2020**. Please include them on the next SGSC agenda.

School of Computing Science

1. CMPT 712 – Approximation/Randomized Algorithms
2. CMPT 720 – Robotic Autonomy: Algorithms and Computation
3. CMPT 727 – Statistical Machine Learning
4. CMPT 762 – Computer Vision
5. CMPT 763 – Biomedical Computer Vision
6. CMPT 766 – Computer Animation and Simulation
7. CMPT 770 - Parallel and Distributed Computing

Best Regards,

Parvaneh Saeedi,
Faculty of Applied Science, Graduate Studies Committee



COMPUTING SCIENCE

SpMEMO

BURNABY
9971 Applied Sciences
Building
8888 University Drive
Burnaby BC V5A 1S6
Canada

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

Tel: 778-782-4277
Fax: 778-782-3045
Web: www.cs.sfu.ca

| | |
|-----------|---|
| ATTENTION | Pavarneh Saeedi, Associate Director |
| FROM | Ghassan Hamarneh, Graduate Director |
| RE | Calendar/course changes – Effective Spring 2020 New 700 Level Course Proposals |
| DATE | March 21, 2019 |

COURSE PROPOSALS – effective Spring 2020

Our School of Computing Science is currently offering many highly-specialized, low-enrollment specialized topics (ST) graduate courses and relatively much fewer foundational core CMPT graduate courses. Our graduate students are thus having difficulty choosing relevant courses, especially given increased demands from our growing graduate population, especially our Professionals Masters (Prof MSc) programs. We propose to create new 700-level courses that cover foundational, core graduate-level computing science topics, which are appealing to our broad graduate student population (Theses and Prof MSc), and even to some senior undergraduates (e.g. Accelerated Masters). We foresee this will strengthen our graduate program, provide better support for our growing Prof MSc specializations, and increase enrollment in graduate classes.

CMPT 712 – Approximation/Randomized Algorithms

CMPT 720 – Robotic Decision Making *Autonomy: Algorithms and Computation DVB*

CMPT 727 – Statistical Machine Learning

CMPT 762 – Computer Vision

CMPT 763 – Biomedical Computer Vision

CMPT 766 – Computer Animation and Simulation



COMPUTING SCIENCE

-2-

CMPT 770 – Parallel and Distributed Computing

If you have any questions, please let me know.

A handwritten signature in black ink, appearing to read "Ghassan Hamarneh".

Ghassan Hamarneh
Graduate Chair, School of Computing Science



New Graduate Course Proposal

| | | |
|---|--|---|
| Course Subject (eg. PSYC) CMPT | Number (eg. 810) 712 | Units (eg. 4) 3 |
| Course title (max. 100 characters) Approximation and Randomized Algorithms | | |
| Short title (for enrollment/transcript - max. 30 characters) Approx /Random Algorithms | | |
| 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) Discrete optimization of nondeterministic polynomial time (NP) hard problems, design and analysis of approximation and randomized algorithms, and the applications of theoretical analysis to the study of heuristics will be covered in this course. | | |
| Rationale for introduction of this course Discrete optimization problems appear in every area of computing science and ICT (information and communication technology). Approximation and randomized algorithms play a central role in the study of algorithms and heuristics for solving optimization problems. This course will cover the design and analysis of approximation and randomized algorithms. This course has been offered as a special topics in theoretical computer science. It is more appropriate to offer the course as 700 level fundamental course. | | |
| Term of initial offering (eg. Fall 2019) Spring 2020 | Course delivery (eg. 3 hrs/week for 13 weeks) 3 hrs/week for 13 weeks | |
| Frequency of offerings/year One/year | Estimated enrollment per offering 50 | |
| Equivalent courses (courses that replicates the content of this course to such an extent that students should not receive credit for both courses) | | |
| Prerequisite and/or Corequisite None | | |
| Criminal record check required? <input type="checkbox"/> Yes if yes is selected, add this as prerequisite | | Additional course fees? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Campus where course will be taught: <input checked="" type="checkbox"/> Burnaby <input type="checkbox"/> Surrey <input type="checkbox"/> Vancouver <input type="checkbox"/> Great Northern Way <input type="checkbox"/> Off campus | | |
| Course Components * <input checked="" type="checkbox"/> Lecture <input type="checkbox"/> Seminar <input type="checkbox"/> Lab <input type="checkbox"/> Independent <input type="checkbox"/> Capstone <input type="checkbox"/> _____ | | |
| Grading Basis <input checked="" type="checkbox"/> Letter grades <input type="checkbox"/> Satisfactory/ Unsatisfactory <input type="checkbox"/> In Progress / Complete | | |
| Repeat for credit? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Total repeats allowed? <u>0</u> | Repeat within a term? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Required course? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Final exam required? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Capstone course? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Combined with a undergrad course? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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 Igor Shinkar, Qianping Gu, Valentine Kabanets |
| Additional faculty members, space, and/or specialized equipment required in order to offer this course |

CONTACT PERSON

| | | |
|---|---|----------------------------------|
| Academic Unit / Program Computing Science | Name (typically, Graduate Program Chair) Ghassan Hamarneh | Email harmarneh@sfu.ca |
|---|---|----------------------------------|

ACADEMIC UNIT APPROVAL

A course outline must be included.

Non-departmentalized faculties need not sign

| | | |
|---|--|----------------------------|
| Graduate Program Committee Ghassan Hamarneh | Signature  | Date 2018-Nov-20 |
| Department, Chair Mohamed Hefeeda | Signature  | Date NOV 20 18 |

FACULTY APPROVAL

The course form and outline must be sent by PGSC to the chairs of each PGSC (pgsc-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 Saeeedi | Signature  | Date May 28/2019 |
|---|--|----------------------------|

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 Zoe Druick | Signature  | Date JUN 20 2019 |
|--|--|----------------------------|

ADMINISTRATIVE SECTION (for DGS office only)

Library Check: MAY - 8 2019
 Course Attribute: _____
 Course Attribute Value: _____
 Instruction Mode: _____
 Attendance Type: _____

If different from regular units:
 Academic Progress Units: _____
 Financial Aid Progress Units: _____

CMPT 712 - Approximation and Randomized Algorithms - Area I

Instructors: I. Shinkar, Q. Gu, V. Kabanets

Calendar Description:

Discrete optimization of nondeterministic polynomial time (NP) hard problems, design and analysis of approximation and randomized algorithms, and the applications of theoretical analysis to the study of heuristics will be covered in this course.

Course Objectives

Discrete optimization problems appear in every area of computing science and ICT (information and communication technology). Most interesting optimization problems are NP-hard. For an NP-hard problem, it is impossible to have an algorithm which gives an optimal solution efficiently (in polynomial time) for any input instance of the problem unless $P=NP$. Approximation are powerful and widely used approaches for tackling hard optimization problems. An approximation algorithm finds a near-optimal solution with guaranteed accuracy efficiently for any input instance. Randomized algorithms are another powerful and widely used approach to tackle problems for which efficient deterministic algorithms are not known. This course will cover the fundamentals on the design and analysis of approximation and randomized algorithms for discrete optimization problems. By completing this course, students are expected to be able to design approximation and randomized algorithms for their own problems, prove and analyze the correctness and efficiency of their algorithms, and apply theoretical analysis to the study of heuristics.

Topics

Approximation Algorithms:

Introduction to approximation algorithms

Paradigms for approximation algorithms

Greedy, local search, dynamic programming and scaling data

Linear and integer programming

Deterministic rounding of linear programming

Random sampling and randomized rounding of linear programming

Semidefinite programs and randomized rounding

Primal-dual method

Hardness of approximation

Randomized Algorithms:

Introduction to randomized algorithms

Paradigms for randomized algorithms

Game-theoretic techniques

Random sampling

Load balancing

Probabilistic method and existence proofs

Markov chains and random walks

Algebraic Techniques

Other topics (e.g., sublinear algorithms) selected by instructors

Grading

Homework/participation-30%

Midterm - 30%

Final - 40%

Text/reference books:

David P. Williamson and David B. Shmoys

The Design of Approximation Algorithms,

R. Motwani and P. Raghavan

Randomized Algorithms, Cambridge University Press

M. Mitzenmacher and E. Upfal

Probability and Computing: Randomized Algorithms and Probabilistic Analysis, Cambridge University Press

Prerequisites/co-requisites

None

An undergraduate course in algorithms (e.g., these equivalent to SFU cmpt307/cmpt405); basic knowledge of mathematical proofs and analysis for correctness and efficiency of algorithms, probability theory and NP-completeness will be assets.

New Graduate Course Proposal

| | | |
|--|--|---|
| Course Subject (eg. PSYC) CMPT | Number (eg. 810) 720 | Units (eg. 4) 3 |
| Course title (max. 100 characters) Robotic Autonomy: Algorithms and Computation | | |
| Short title (for enrollment/transcript - max. 30 characters) Robotic Autonomy | | |
| 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) Fundamental concepts in robotics and related fields, including computational methods for solving decision making, and algorithms for robots to understand their environment. Topics include modeling and simulation of robotic systems, optimization, optimal control, robotic safety, reinforcement learning, and robotic perception. Applications of the material include unmanned aerial vehicles and self-driving cars. | | |
| Rationale for introduction of this course The material taught in this course is essential for robotics research and development in the industry and academia. | | |
| Term of initial offering (eg. Fall 2019) Spring 2020 | Course delivery (eg. 3 hrs/week for 13 weeks) 3 hrs/week for 13 weeks | |
| Frequency of offerings/year once per year | Estimated enrollment per offering 30 | |
| 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 N/A | | |
| Criminal record check required? <input type="checkbox"/> Yes if yes is selected, add this as prerequisite | | Additional course fees? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Campus where course will be taught <input checked="" type="checkbox"/> Burnaby <input type="checkbox"/> Surrey <input type="checkbox"/> Vancouver <input type="checkbox"/> Great Northern Way <input type="checkbox"/> Off campus | | |
| Course Components * <input checked="" type="checkbox"/> Lecture <input type="checkbox"/> Seminar <input type="checkbox"/> Lab <input type="checkbox"/> Independent <input type="checkbox"/> Capstone <input type="checkbox"/> _____ | | |
| Grading Basis <input checked="" type="checkbox"/> Letter grades <input type="checkbox"/> Satisfactory/ Unsatisfactory <input type="checkbox"/> In Progress / Complete | | |
| Repeat for credit? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Total repeats allowed? <u>n/a</u> | Repeat within a term? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Required course? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Final exam required? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Capstone course? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Combined with a undergrad course? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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 Mo Chen, Angelica Lim, Richard Vaughan |
| Additional faculty members, space, and/or specialized equipment required in order to offer this course N/A |

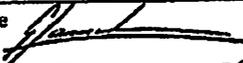
CONTACT PERSON

| | | |
|---|---|---------------------------------|
| Academic Unit / Program Computing Science | Name (typically, Graduate Program Chair) Ghassan Hamarneh | Email hamarneh@sfu.ca |
|---|---|---------------------------------|

ACADEMIC UNIT APPROVAL

A course outline must be included.

Non-departmentalized faculties need not sign

| | | |
|---|---|-----------------------------|
| Graduate Program Committee Ghassan Hamarneh | Signature  | Date 2019-Apr-17 |
| Department Chair Mohamed Hejeda | Signature  | Date APR 17, 2019 |

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

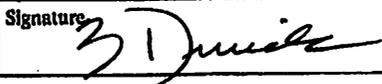
Overlap check done? YES

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 Saerchi | Signature  | Date May 23, 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 Zoe Druick | Signature  | Date JUN 20 2019 |
|--|--|----------------------------|

ADMINISTRATIVE SECTION (for DGS office only)

Library Check: MAY - 6 2019
 Course Attribute: _____
 Course Attribute Value: _____
 Instruction Mode: _____
 Attendance Type: _____

If different from regular units:
 Academic Progress Units: _____
 Financial Aid Progress Units: _____

CMPT 720

Title

Robotic Autonomy: Algorithms and Computation

Calendar Description

Fundamental concepts in robotics and related fields, including computational methods for solving decision making, and algorithms for robots to understand their environment. Topics include modeling and simulation of robotic systems, optimization, optimal control, robotic safety, reinforcement learning, and robotic perception. Applications of the material include unmanned aerial vehicles and self-driving cars.

Topics

- Modelling and simulation
- Optimization
- Optimal control
- Robotic safety
- Reinforcement learning
- Robotic perception

Grading

- Assignments – 40%
- Project proposal – 10%
- Project presentation and report – 50%

Materials

- Course notes

Optional supplementary material

- R. Siegwart, I. R. Nourbakhsh, and D. Scaramuzza, *Introduction to Autonomous Mobile Robots*. The MIT Press, 2011, 9780262015356.
- S. M. LaValle, *Planning Algorithms*. Cambridge University Press, 2006, 9780521862059.
- S. Boyd and L. Vandenberghe, *Convex Optimization*. Cambridge University Press, 2008, 9780521833783.
- D. P. Bertsekas, *Dynamic Programming and Optimal Control*. Athena Scientific, 2017, 1886529434.
- R. S. Sutton and A. G. Barto, *Reinforcement Learning: An Introduction*. MIT Press, 2018.

New Graduate Course Proposal

| | | |
|--|--|---|
| Course Subject (eg. PSYC) CMPT | Number (eg. 810) 727 | Units (eg. 4) 3 |
| Course title (max. 100 characters) Statistical Machine Learning | | |
| Short title (for enrollment/transcript - max. 30 characters) Stat Mach Learning | | |
| <p>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)</p> <p>Statistical foundation for machine learning algorithms, emphasizing bias-variance tradeoff. Students will learn principles for choosing effective methods and tailoring them to fit a given learning problem. Potential topics include: probabilistic graphical models, maximum likelihood estimation, latent variables and the EM algorithm, convex optimization, and variational and sampling-based methods.</p> | | |
| <p>Rationale for introduction of this course</p> <p>There is great demand for grad courses on machine learning, driven by the many fields (visual computing, NLP, biology, etc) that apply ML and the data science masters program. A primary weakness in our existing machine learning course offerings is the lack of a course that helps students understand machine learning at a deep level; this course aims to address this weakness. I spoke with Thomas Loughlin about whether this course overlaps with STAT 852 or other material in that department; we agreed that the 2 courses would be complimentary.</p> | | |
| Term of initial offering (eg. Fall 2019) Spring 2020 | Course delivery (eg. 3 hrs/week for 13 weeks) 3 hrs/week for 13 weeks | |
| Frequency of offerings/year once per year | Estimated enrollment per offering 80 | |
| 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 N/A | | |
| Criminal record check required? <input type="checkbox"/> Yes <input type="checkbox"/> No if yes is selected, add this as prerequisite | | Additional course fees? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Campus where course will be taught <input checked="" type="checkbox"/> Burnaby <input type="checkbox"/> Surrey <input type="checkbox"/> Vancouver <input type="checkbox"/> Great Northern Way <input type="checkbox"/> Off campus | | |
| Course Components * <input checked="" type="checkbox"/> Lecture <input type="checkbox"/> Seminar <input type="checkbox"/> Lab <input type="checkbox"/> Independent <input type="checkbox"/> Capstone <input type="checkbox"/> _____ | | |
| Grading Basis <input checked="" type="checkbox"/> Letter grades <input type="checkbox"/> Satisfactory/ Unsatisfactory <input type="checkbox"/> In Progress / Complete | | |
| Repeat for credit? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Total repeats allowed? <u>n/a</u> | Repeat within a term? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Required course? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Final exam required? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Capstone course? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Combined with an undergrad course? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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 Maxwell Libbrecht, Oliver Schulte, Greg Mori |
| Additional faculty members, space, and/or specialized equipment required in order to offer this course |

CONTACT PERSON

| | | |
|--|--|------------------------------|
| Academic Unit / Program CMPT | Name (typically, Graduate Program Chair) Maxwell Libbrecht | Email maxwl@sfu.ca |
|--|--|------------------------------|

ACADEMIC UNIT APPROVAL

A course outline must be included.

Non-departmentalized faculties need not sign

| | | |
|---|---------------------------------|--------------------------|
| Graduate Program Committee <i>Ahassan Hamarneh</i> | Signature <i>[Signature]</i> | Date <i>Feb 19/19</i> |
| Department Chair <i>Mohamed Hefesler</i> | Signature <i>[Signature]</i> | Date <i>Feb 19/19</i> |

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 <i>Parvaneh Saeedi</i> | Signature <i>[Signature]</i> | Date <i>May 28, 2019</i> |
|--|---------------------------------|-----------------------------|

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 Zoe Druick | Signature <i>[Signature]</i> | Date JUN 20 2019 |
|--|---------------------------------|----------------------------|

ADMINISTRATIVE SECTION (for DGS office only)

Library Check: MAY - 6 2019
 Course Attribute: _____
 Course Attribute Value: _____
 Instruction Mode: _____
 Attendance Type: _____

If different from regular units:
 Academic Progress Units: _____
 Financial Aid Progress Units: _____

CMPT 727 - Statistical Machine Learning - Breadth Area III

Instructors: Maxwell Libbrecht, Oliver Shulte, Greg Mori

Course Description

Statistical foundation for machine learning algorithms, emphasizing bias-variance tradeoff. Students will learn principles for choosing effective methods and tailoring them to fit a given learning problem. Potential topics include; probabilistic graphical models, maximum likelihood estimation, latent variables and the EM algorithm, convex optimization, and variational and sampling-based methods.

Topics

Discrete and continuous modeling; maximum likelihood estimation; the exponential family; latent variables and the EM algorithm; probabilistic graphical models; convex optimization.

Grading

Grading will be based on written assignments, a midterm and a final as follows:

50% Assignments

45% Exams

5% Participation

Materials and Readings

Machine Learning: A Probabilistic Perspective" by Kevin P. Murphy



New Graduate Course Proposal

| | | |
|--|--|---|
| Course Subject (eg. PSYC) CMPT | Number (eg. 810) 762 | Units (eg. 4) 3 |
| Course title (max. 100 characters) Computer Vision | | |
| Short title (for enrollment/transcript - max. 30 characters) Computer Vision | | |
| 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) Selected topics in computer vision including cameras, edge detection, feature matching, optical flow, alignment, epipolar geometry, stereo, structure-from-motion, recognition, segmentation, detection, and deep learning. | | |
| Rationale for introduction of this course Computer Vision is the discipline of "teaching computers to see", becoming an essential field of study for numerous emerging technologies such as autonomous cars, drones, robotics, augmented reality, virtual reality, visual effects, digital mapping and surveillance. | | |
| Term of initial offering (eg. Fall 2019) Spring 2020 | Course delivery (eg. 3 hrs/week for 13 weeks) 3 hrs/week for 13 weeks | |
| Frequency of offerings/year once per year | Estimated enrollment per offering 25 | |
| 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 N/A | | |
| Criminal record check required? <input type="checkbox"/> Yes <input type="checkbox"/> No if yes is selected, add this as prerequisite | | Additional course fees? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Campus where course will be taught <input checked="" type="checkbox"/> Burnaby <input type="checkbox"/> Surrey <input type="checkbox"/> Vancouver <input type="checkbox"/> Great Northern Way <input type="checkbox"/> Off campus | | |
| Course Components * <input checked="" type="checkbox"/> Lecture <input type="checkbox"/> Seminar <input type="checkbox"/> Lab <input type="checkbox"/> Independent <input type="checkbox"/> Capstone <input type="checkbox"/> _____ | | |
| Grading Basis <input checked="" type="checkbox"/> Letter grades <input type="checkbox"/> Satisfactory/ Unsatisfactory <input type="checkbox"/> In Progress / Complete | | |
| Repeat for credit? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Total repeats allowed? n/a | Repeat within a term? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Required course? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Final exam required? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Capstone course? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Combined with a undergrad course? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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 Yasutaka Furukawa, Ping Tan, Greg Mori |
| Additional faculty members, space, and/or specialized equipment required in order to offer this course None |

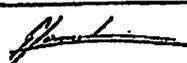
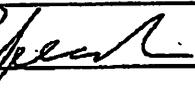
CONTACT PERSON

| | | |
|---------------------------------|---|--------------------------|
| Academic Unit / Program CMPT | Name (typically, Graduate Program Chair) Yasutaka Furukawa | Email furukawa@sfu.ca |
|---------------------------------|---|--------------------------|

ACADEMIC UNIT APPROVAL

A course outline must be included.

Non-departmentalized faculties need not sign

| | | |
|--|--|---------------------|
| Graduate Program Committee Ghassan Hamarneh | Signature  | Date 2018-Nov-15 |
| Department Chair Mohamed Hefeeda | Signature  | Date Nov 20/18 |

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

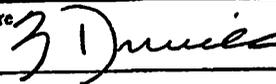
Overlap check done? YES

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 Saeechi | Signature  | Date May 28, 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 Zoe Druick | Signature  | Date JUN 20 2019 |
|---|--|---------------------|

ADMINISTRATIVE SECTION (for DGS office only)

Library Check: MAY - 8 2019
 Course Attribute: _____
 Course Attribute Value: _____
 Instruction Mode: _____
 Attendance Type: _____

If different from regular units:
 Academic Progress Units: _____
 Financial Aid Progress Units: _____

CMPT 762 – Computer Vision

Calendar Description

Selected topics in computer vision including cameras, edge detection, feature matching, optical flow, alignment, epipolar geometry, stereo, structure-from-motion, recognition, segmentation, detection, and deep learning.

Course Description

Computer vision is the process of automatically extracting information from images and videos. The course covers various aspects of Computer Vision, for example, imaging geometry (camera calibration, stereo, and panoramic image stitching), video surveillance (motion detection and tracking), image segmentation, object recognition, and more. The course teaches both traditional techniques and more recent learning-based approaches such as deep neural networks.

Topics

Camera
Features
Image stitching
Photometric stereo
Optical flow
Face
Segmentation
Object detection
Recognition
Reconstruction
Deep Learning

Grading

Coding projects: 60% (15% x 4)
Final project report: 35%
Final project presentation: 5%

Textbooks*

Computer Vision: Algorithms and Applications
Richard Szeliski
Springer
9781848829350

*suggested but not required



New Graduate Course Proposal

| | | |
|--|--|---|
| Course Subject (eg. PSYC) CMPT | Number (eg. 810) 763 | Units (eg. 4) 3 |
| Course title (max. 100 characters) Biomedical Computer Vision | | |
| Short title (for enrollment/transcript - max. 30 characters) Biomedical Computer Vision | | |
| 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) Selected Topics in biomedical imaging. Computer visions, medical data and image representation, file formats, segmentation, registration, classification, anatomical shape modeling, machine and deep learning tools and methods. | | |
| Rationale for introduction of this course Medical imaging (et MRI, CT, ultrasound) provides indispensable data for disease diagnosis and treatment, yet dimensionality, complexity and amount of data generated hinders manual interpretation and necessitates computational methods like the ones covered in this course. | | |
| Term of initial offering (eg. Fall 2019) Spring 2020 | Course delivery (eg. 3 hrs/week for 13 weeks) 3 hrs/week for 13 weeks | |
| Frequency of offerings/year once per year | Estimated enrollment per offering 25 | |
| 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 N/A | | |
| Criminal record check required? <input type="checkbox"/> Yes <input type="checkbox"/> No if yes is selected, add this as prerequisite | | Additional course fees? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Campus where course will be taught <input checked="" type="checkbox"/> Burnaby <input type="checkbox"/> Surrey <input type="checkbox"/> Vancouver <input type="checkbox"/> Great Northern Way <input type="checkbox"/> Off campus | | |
| Course Components * <input checked="" type="checkbox"/> Lecture <input type="checkbox"/> Seminar <input type="checkbox"/> Lab <input type="checkbox"/> Independent <input type="checkbox"/> Capstone <input type="checkbox"/> _____ | | |
| Grading Basis <input checked="" type="checkbox"/> Letter grades <input type="checkbox"/> Satisfactory/ Unsatisfactory <input type="checkbox"/> In Progress / Complete | | |
| Repeat for credit? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Total repeats allowed? n/a | Repeat within a term? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Required course? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Final exam required? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Capstone course? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Combined with a undergrad course? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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 Ghassan Hamarneh |
| Additional faculty members, space, and/or specialized equipment required in order to offer this course none |

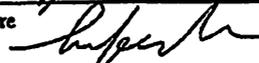
CONTACT PERSON

| | | |
|--|---|---------------------------------|
| Academic Unit / Program CMPT | Name (typically, Graduate Program Chair) Ghassan Hamarneh | Email hamarneh@sfu.ca |
|--|---|---------------------------------|

ACADEMIC UNIT APPROVAL

A course outline must be included.

Non-departmentalized faculties need not sign

| | | |
|---|---|----------------------------|
| Graduate Program Committee Ghassan Hamarneh | Signature  | Date 2019-Apr-10 |
| Department Chair Mohamed Hefeeda | Signature  | Date April 10/19 |

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 May 28, 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 Zoe Druick | Signature  | Date JUN 20 2019 |
|--|--|----------------------------|

| | |
|--|---|
| ADMINISTRATIVE SECTION (for DGS office only) | |
| Library Check | |
| Course Attribute | |
| Course Attribute Value | |
| Instruction Mode | |
| Attendance type | |
| | If different from regular units: Academic Progress Units Financial Aid Progress Units |

763

CMPT 763 - Biomedical Computer Vision – Breadth Area V

Instructors: Ghassan Hamarneh

Calendar Description

Selected Topics in biomedical imaging. Computer visions, medical data and image representation, file formats, segmentation, registration, classification, anatomical shape modeling, machine and deep learning tools and methods.

Students with credit for ENSC 474 and ENSC 895 may not take this course for further credit.

Course Description

The course introduces the students to the foundations of biomedical computer vision and biomedical image computing

Topics

Biomedical imaging modalities / data acquisition

Manifold-valued 3D images (beyond RGB pixels)

Medical imaging file formats (beyond PNG, TIFF)

Segmentation (focus on deformable contours and meshes)

Prior knowledge for medical image segmentation (e.g. statistical geometrical and topological models)

Rigid and non-rigid spatial transformation

Medical image registration

Sample clinical applications

Intro to machine learning and deep learning for medical image analysis

Grading

40% Final

30% Assignments

20% Midterm

10% Quizzes

Materials and Readings

Course notes

Guide to Medical Image Analysis: Methods and Algorithms (Toennies) – Springer Nature - 144717318X

Insight Into Images - A K Peters/CRC Press - 978-1568812175

Medical Image Analysis (Dhawan) Wiley-IEEE Press - 978-0471451310

Biomedical Imaging, Visualization, and Analysis (Robb) - Wiley-Liss - 978-0471283539

Biomedical Image Analysis (ed. Rangayyan and Neuman) - CRC Press - 978-0849396953

Medical Image Analysis Methods (ed. Costaridou) - CRC Press - 978-0849320897

New Graduate Course Proposal

| | | |
|--|--|---|
| Course Subject (eg. PSYC) CMPT | Number (eg. 810) 766 | Units (eg. 4) 3 |
| Course title (max. 100 characters) Computer Animation and Simulation | | |
| Short title (for enrollment/transcript - max. 30 characters) Computer Animation | | |
| 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) Selected topics in computer animation and simulation, including 3D character animation and control, facial animation, simulation of natural phenomena (i.e. fluids, crowd simulation, and deformation of pliant materials). | | |
| Rationale for introduction of this course Currently "CMPT 466 Animation" teaches the basics of animation, such as interpolation, simple physics-based animation and motion capture. There is not enough time to cover more advanced topics and animation systems, such as fluid animation, facial animation and character animation. | | |
| Term of initial offering (eg. Fall 2019) Spring 2020 | Course delivery (eg. 3 hrs/week for 13 weeks) 3 hrs/week for 13 weeks | |
| Frequency of offerings/year once per year | Estimated enrollment per offering 20-40 | |
| 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 N/A | | |
| Criminal record check required? <input type="checkbox"/> Yes <input type="checkbox"/> No if yes is selected, add this as prerequisite | | Additional course fees? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Campus where course will be taught <input checked="" type="checkbox"/> Burnaby <input type="checkbox"/> Surrey <input type="checkbox"/> Vancouver <input type="checkbox"/> Great Northern Way <input type="checkbox"/> Off campus | | |
| Course Components * <input checked="" type="checkbox"/> Lecture <input type="checkbox"/> Seminar <input type="checkbox"/> Lab <input type="checkbox"/> Independent <input type="checkbox"/> Capstone <input type="checkbox"/> _____ | | |
| Grading Basis <input checked="" type="checkbox"/> Letter grades <input type="checkbox"/> Satisfactory/ Unsatisfactory <input type="checkbox"/> In Progress / Complete | | |
| Repeat for credit? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Total repeats allowed? n/a | Repeat within a term? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Required course? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Final exam required? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Capstone course? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Combined with a undergrad course? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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 KangKang Yin, Eugene Flume |
| Additional faculty members, space, and/or specialized equipment required in order to offer this course none. |

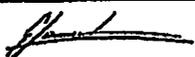
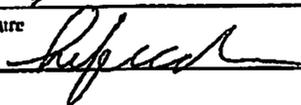
CONTACT PERSON

| | | |
|---|---|---------------------------------|
| Academic Unit / Program school of computing science | Name (typically, Graduate Program Chair) Ghassan Hamarneh | Email hamarneh@sfu.ca |
|---|---|---------------------------------|

ACADEMIC UNIT APPROVAL

A course outline must be included.

Non-departmentalized faculties need not sign

| | | |
|---|---|----------------------------|
| Graduate Program Committee Ghassan Hamarneh | Signature  | Date 2018-Oct-27 |
| Department Chair Mohamed Hefzala | Signature  | Date Nov 2018 |

FACULTY APPROVAL

The course form and outline must be sent by PGSC to the chairs of each PGSC (pgsc-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 Parraneh Saeechi | Signature  | Date May 28 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 Zoë Druick | Signature  | Date JUN 20 2019 |
|--|--|----------------------------|

ADMINISTRATIVE SECTION (for DGS office only)

Library Check: MAY - 6 2019
 Course Attribute: _____
 Course Attribute Value: _____
 Instruction Mode: _____
 Attendance Type: _____

If different from regular units:
 Academic Progress Units: _____
 Financial Aid Progress Units: _____

CMPT 766 - Computer Animation and Simulation

CALENDAR DESCRIPTION:

Selected topics in computer animation and simulation, including 3D character animation and control, facial animation, simulation of natural phenomena (i.e. fluids, crowd simulation, and deformation of pliant materials).

COURSE DETAILS:

This course focuses on simulation-based and learning-based animation methods, such as physics-based character animation, facial animation, and animation of deformable objects. These animation topics can better prepare senior undergraduate students and master's students for future employment in related industry, such as computer games and visual effects, virtual and augmented reality, and medical and engineering simulation and training. They also provide knowledge building blocks for PhD students in related fields such as computer graphics, computer vision, human computer interaction, and human robot interaction. Basic animation methods such as traditional animation and keyframe animation taught in CMPT466 will not be covered in this course. Potential students are expected to be strong in math and programming.

Topics

- Physics-based animation and simulation
- 3D character animation
- Learning-based animation methods
- Facial animation
- Simulation of natural phenomena
- Simulation of deformable objects

Grading

participation 10%; class presentations 20%; assignments 20%; term project 50%

Materials

- Recommend book: Computer Animation: Algorithms and Techniques (third edition), Rick Parent.
- Relevant papers in SIGGRAPH Proceedings and ACM Transactions on Graphics Journal.

New Graduate Course Proposal

| | | |
|--|--|---|
| Course Subject (eg. PSYC) CMPT | Number (eg. 810) 770 | Units (eg. 4) 3 |
| Course title (max. 100 characters) Parallel and Distributed Computing | | |
| Short title (for enrollment/transcript - max. 30 characters) Parallel Distributed Computing | | |
| 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) Principles involved in designing modern parallel and distributed software systems. The course focuses on covering key concepts like concurrency, synchronization, consistency models and fault tolerance. Involves multiple programming projects and reading articles on recent trends in parallel and distributed computing. | | |
| Rationale for introduction of this course Parallel and distributed computing is fundamental to develop software solutions that extract maximum performance from modern parallel systems. | | |
| Term of initial offering (eg. Fall 2019) Spring 2020 | Course delivery (eg. 3 hrs/week for 13 weeks) 3 hrs/week for 13 weeks | |
| Frequency of offerings/year once per year | Estimated enrollment per offering 30 | |
| 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 N/A | | |
| Criminal record check required? <input type="checkbox"/> Yes <input type="checkbox"/> No if yes is selected, add this as prerequisite | | Additional course fees? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Campus where course will be taught <input checked="" type="checkbox"/> Burnaby <input type="checkbox"/> Surrey <input type="checkbox"/> Vancouver <input type="checkbox"/> Great Northern Way <input type="checkbox"/> Off campus | | |
| Course Components * <input checked="" type="checkbox"/> Lecture <input type="checkbox"/> Seminar <input type="checkbox"/> Lab <input type="checkbox"/> Independent <input type="checkbox"/> Capstone <input type="checkbox"/> _____ | | |
| Grading Basis <input checked="" type="checkbox"/> Letter grades <input type="checkbox"/> Satisfactory/ Unsatisfactory <input type="checkbox"/> In Progress / Complete | | |
| Repeat for credit? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Total repeats allowed? <u>n/a</u> | Repeat within a term? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Required course? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Final exam required? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Capstone course? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Combined with a undergrad course? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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 Keval Vora |
| Additional faculty members, space, and/or specialized equipment required in order to offer this course Mohamed Hefeeda, Arrvindh Shriraman, Jlangchuan Liu |

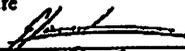
CONTACT PERSON

| | | |
|---------------------------------|--|-----------------------|
| Academic Unit / Program CMPT | Name (typically, Graduate Program Chair) Keval Vora | Email keval@sfu.ca |
|---------------------------------|--|-----------------------|

ACADEMIC UNIT APPROVAL

A course outline must be included.

Non-departmentalized faculties need not sign

| | | |
|--|--|-----------------------|
| Graduate Program Committee Ghassan Hamarneh | Signature  | Date Oct. 27, 2018 |
| Department Chair Mohamed Hefeeda | Signature  | Date Nov. 2018 |

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

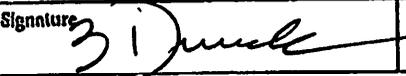
Overlap check done? YES

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 May 28/2019 |
|---|--|---------------------|

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 Zoë Druick | Signature  | Date JUN 20 2019 |
|---|---|---------------------|

ADMINISTRATIVE SECTION (for DGS office only)
 Library Check: MAY - 6 2019
 Course Attribute: _____
 Course Attribute Value: _____
 Instruction Mode: _____
 Attendance Type: _____

If different from regular units:
 Academic Progress Units: _____
 Financial Aid Progress Units: _____

CMPT 770 - Parallel & Distributed Computing

Calendar Description

Principles involved in designing modern parallel and distributed software systems. The course focuses on covering key concepts like concurrency, synchronization, consistency models and fault tolerance. Involves multiple programming projects and reading articles on recent trends in parallel and distributed computing.

Topics

- Principles of Parallel Algorithm Design
- Shared Memory Parallel Programming
- Concurrent Data Structures
- Distributed Memory Model & Programming
- Memory Consistency Models
- Fault Tolerance
- GPU: Massive Parallelism
- Real World Parallel & Distributed Systems

Grading Scheme

Assignments 35%, Project 35%, Exam 30%

Reading List:

None.

Reference Textbooks:

- The Art of Multiprocessor Programming. Maurice Herlihy and Nir Shavit. 2008. Morgan Kaufmann Publishers Inc.
- Distributed Systems: Principles and Paradigms. Andrew S. Tanenbaum and Maarten van Steen. 2006. Prentice-Hall, Inc.



FACULTY OF
ARTS AND SOCIAL SCIENCES

MEMO

Office of the Dean

ATTENTION: Jeff Derksen, Dean
Graduate & Postdoctoral Studies

STREET ADDRESS
Academic Quadrangle
Room 6164

FROM : Sean Zwagerman, Chair
Faculty of Arts and Social Sciences Graduate Studies Committee

MAILING ADDRESS
8888 University Drive
Burnaby BC Canada
V5A 1S6

RE: FASSGSC Proposals

DATE: May 15, 2019

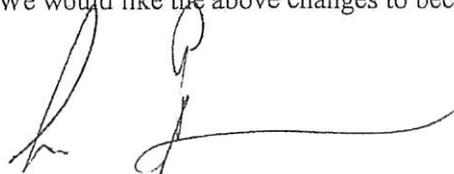
778-782-4967 (Tel)

sean_zwagerman@sfu.ca
www.sfu.ca/fass

The Faculty of Arts and Social Sciences Graduate Committee met on May 2, 2019 and passed the attached motions. Please place these items on the agenda for the next SGSC meeting.

1. ~~Department of Economics~~
 - a) ~~The calendar change of the MA program and associated calendar changes~~
 - b) ~~The deletion of ECON 988 and associated calendar changes~~
2. ~~Department of Political Science~~
 - a) ~~The calendar changes for POL 804~~
3. ~~Department of English~~
 - a) ~~The deletion of ENGL 890 and associated calendar changes~~
4. **Urban Studies Program**
 - a) The new course URB 601
 - b) The new course URB 602
5. ~~Department of Psychology~~
 - a) ~~The proposed TRSS program~~
 - b) ~~The minor changes to CRIM/TRSS courses~~

We would like the above changes to become effective Spring 2019.



Sean Zwagerman
Associate Dean, Faculty of Arts and Social Sciences

20 PVB



SIMON FRASER UNIVERSITY
URBAN STUDIES

FASSGSC 19-9

Urban Studies Program
2nd Floor, 515 West Hastings Street
Vancouver, British Columbia
Canada V6B 5K3

Tel: 778.782.7888
Fax: 778.782.5297

24 April 2019

To: Sean Zwagerman, Associate Dean
Faculty of Arts and Social Sciences

From: Meg Holden, Director
Urban Studies

A handwritten signature in black ink, appearing to be 'MH' or similar initials, written over the name 'Meg Holden'.

New course proposals, Urban Studies 601 and 602

The Urban Studies Program steering committee has approved a new pair of graduate courses related to professional and intellectual development. We request consideration of these proposed courses by the FASS Graduate Studies Curriculum Committee at its next meeting.

The rationale for this pair of new two-credit graduate seminar courses is as follows:

- The Urban Studies Program has a tradition of offering in-depth professional development activities and seminars on a non-credit basis. We have built strong relationships with relevant units at the University as well as throughout our alumni network to develop and maintain these. This year, on March 8th, Urban Studies faculty member Karen Ferguson along with the Urban Studies graduate student association organized, convened and hosted ACCESS BC, the most ambitious effort yet in professional development offerings in Urban Studies. ACCESS BC consisted of an afternoon of interactive programming offered to international graduate students across the university, with a focus on the skills and resources our students need to find good work in BC. It was designed and offered in partnership with SFU Career and Volunteer Services and the Arts and Social Sciences Co-op, with external and alumni partners also presenting and it was sponsored by the Graduate Student Society, office of the Vice President Academic and the Faculty of Arts and Social Sciences. URB 602 allows a means for this event to be repeated in the future, with hosting responsibilities undertaken by students and instructor of this course.

- In order to consider what would be in keeping with work in this vein in other FASS units, we reviewed descriptions and outlines for comparable graduate courses in Sociology & Anthropology (SA 840) and English (ENGL 880) and requested and reviewed the syllabi for comparable pair of courses in GSWS (811&812). These inputs were drawn upon to develop the course outlines represented in this proposal.
- The 2-credit, 2 course structure is preferred because this will allow the key targeted student groups, international students and graduate students who enter Urban Studies directly from their undergraduate degree, to have full-time status in our fee-per-credit system when they take this course along with a seminar course. The courses are designed as a pair and we will strongly recommend that they be taken this way by international students. At the same time, these will not be required courses in order to maintain flexibility within Urban Studies and because we do not see these courses as providing necessary value to all of our students. Each course can also be taken alone; so 601 is not prerequisite for 602.

New course proposal forms and outlines for URB 601 and 602 are attached.

New Graduate Course Proposal

| | | |
|---|--|---|
| Course Subject (eg. PSYC) URB | Number (eg. 810) 601 | Units (eg. 4) 2 |
| Course title (max. 100 characters) Urban Professional Development I | | |
| Short title (for enrollment/transcript - max. 30 characters) Urb Pro Dev I | | |
| 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) Designed to assist and support urban studies student professional development as practitioners and change-agents in a range of possible career paths. | | |
| Rationale for introduction of this course The Urban Studies Program has offered high-quality professional development non-credit programming to great success. Regularizing this pair of credit courses will allow students and faculty to dedicate time and attention to this work that is commensurate to success in connecting urban research and professional practice. | | |
| Term of initial offering (eg. Fall 2019) Spring 2020 | Course delivery (eg. 3 hrs/week for 13 weeks) 2 hrs/week for 13 weeks | |
| Frequency of offerings/year once | Estimated enrollment per offering 12 | |
| Equivalent courses (courses that replicates the content of this course to such an extent that students should not receive credit for both courses) none | | |
| Prerequisite and/or Corequisite none | | |
| Criminal record check required? <input type="checkbox"/> Yes <input type="checkbox"/> No if yes is selected, add this as prerequisite | | Additional course fees? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Campus where course will be taught <input type="checkbox"/> Burnaby <input type="checkbox"/> Surrey <input checked="" type="checkbox"/> Vancouver <input type="checkbox"/> Great Northern Way <input type="checkbox"/> Off campus | | |
| Course Components * <input type="checkbox"/> Lecture <input checked="" type="checkbox"/> Seminar <input type="checkbox"/> Lab <input type="checkbox"/> Independent <input type="checkbox"/> Capstone <input type="checkbox"/> _____ | | |
| Grading Basis <input checked="" type="checkbox"/> Letter grades <input type="checkbox"/> Satisfactory/ Unsatisfactory <input type="checkbox"/> In Progress / Complete | | |
| Repeat for credit? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Total repeats allowed? _____ | Repeat within a term? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Required course? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Final exam required? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Capstone course? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Combined with a undergrad course? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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 Karen Ferguson |
| Additional faculty members, space, and/or specialized equipment required in order to offer this course Meg Holden, other faculty |

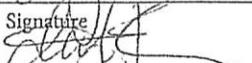
CONTACT PERSON

| | | |
|---|---|--------------------------------|
| Academic Unit / Program Urban Studies | Name (typically, Graduate Program Chair) Meg Holden | Email mholden@sfu.ca |
|---|---|--------------------------------|

ACADEMIC UNIT APPROVAL

A course outline must be included.

Non-departmentalized faculties need not sign

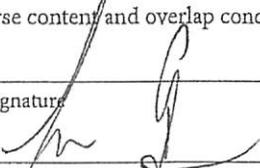
| | | |
|--|---|-----------------------|
| Graduate Program Committee Meg Holden | Signature  | Date 16 April 2019 |
| Department Chair Meg Holden | Signature  | Date 16 April 2019 |

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 SEAN ZWAGERMAN | Signature  | Date 14 MAY 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 Zoë Druick | Signature  | Date JUN 20 2019 |
|--|---|----------------------------|

| | |
|--|-------------------------------------|
| ADMINISTRATIVE SECTION (for DGS office only) | |
| Library Check: APR 24 2019 | |
| Course Attribute: _____ | If different from regular units: |
| Course Attribute Value: _____ | Academic Progress Units: _____ |
| Instruction Mode: _____ | Financial Aid Progress Units: _____ |
| Attendance Type: _____ | |

URBAN PROFESSIONAL DEVELOPMENT I

TERM I: URB 601 (2 credits)

COURSE DESCRIPTION

This is the first of a two-course series designed to assist and support urban studies student professional development as urbanists and researchers in a range of possible career paths.

LEARNING OBJECTIVES

In this course, we will:

- Create and foster an inclusive professional social network beginning with new student habits of peer support and extending into mentorship opportunities with alumni, adjuncts, faculty and associates
- Understand and map the evolving landscape of urban professions in Canada
- Learn to articulate our own urban professional and research skills and to relate these to the articulated needs of local organizations
- Develop an effective professional CV
- Gain practice in professional writing and referencing and in peer review
- Gain practice in job search skills and interview preparation
- Practice skills necessary for healthy work-life balance during graduate school
- Backcast urban studies research results into a professional request for qualifications necessary to complete the research within the scope of a selected public or private sector organization

COURSE EVALUATION

15 % Mapping myself into the urban professional landscape in Canada

30 % Professional CV, including peer review and feedback

30 % Participation and hosting role

25 % Urban professional development logbook and reflections*

* In addition to attending and participating in class, attendance and reflection on other relevant seminars and workshops offered throughout the university are required.

READINGS

Flyvbjerg, B. 2012. Why mass media matter, and how to work with them: phronesis and megaprojects. In *RealSocialScience: Applied Phronesis*. Flyvbjerg, B., Schram, S. and Landman, T. (eds). London: Cambridge University Press, p. 113-71.

Forester, J. 2013. *Planning in the Face of Conflict: the surprising possibilities of facilitative leadership*. Chicago: APA Planners Press.

Jackson, J. 2017. Neoliberalism and urban planning in Toronto: how seasoned planners adjust to their changing circumstances. *International Planning Studies* 23(2): 144-162.

Taşan-Koç, T. and Oranje, M. (eds) 2018. *From Student to Urban Planner: Young Practitioners' Reflections on Contemporary Ethical Challenges*. New York: Routledge.

OUTLINE OF CLASS MEETINGS

SESSION 0: New Graduate Student Orientation (an essential precursor to the course, typically held on a Saturday before the semester begins)

SESSION 1: How to survive and thrive as an Urban Studies student, foreshadowing your professional future as an urbanist (Guests: Eva Lewis, FASS Coop; Ricky Tu, Transition Case Manager for International Students, Health and Counselling Services)

SESSION 2: Urban NGO and social and economic justice work in the city (Guest: Adjunct Professor Seth Klein)

SESSION 3: Urban NGO work in Canada debrief and discussion

SESSION 4: Urban governance work in Canada (Guests: Urban Studies alumni panel of municipal professionals)

SESSION 5 : Urban governance work in Canada debrief and discussion

SESSION 6: Urban development and design work in Canada (Guests: Urban Studies alumni panel of urban development professionals)

SESSION 7 : Urban development and design work in Canada debrief and discussion

SESSION 8 : Crafting and workshopping a professional CV (Guest: Penny Freno)

SESSION 9 : Networking and job search skills practice (Guest: Penny Freno)

SESSION 10 : The soft skills of "fitting in": networking, translating international skills and experience workshop

SESSION 11 : Defining new fields of urban work

SESSION 12 : Your professional future as an urbanist

SESSION 13: Your professional future as an urbanist

New Graduate Course Proposal

| | | |
|---|--|---|
| Course Subject (eg. PSYC) URB | Number (eg. 810) 602 | Units (eg. 4) 2 |
| Course title (max. 100 characters) Urban Professional Development II | | |
| Short title (for enrollment/transcript - max. 30 characters) Urb Pro Dev II | | |
| 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) Designed to assist and support urban studies student professional development as researchers in a range of possible career paths. | | |
| Rationale for introduction of this course The Urban Studies Program has offered high-quality professional development non-credit programming to great success. Regularizing this as a pair of credit courses will allow students and faculty to dedicate time and attention to this work that is commensurate to success in connecting urban research and professional practice. | | |
| Term of initial offering (eg. Fall 2019) Spring 2020 | Course delivery (eg. 3 hrs/week for 13 weeks) 2 hrs/week for 13 weeks | |
| Frequency of offerings/year once | Estimated enrollment per offering 12 | |
| Equivalent courses (courses that replicates the content of this course to such an extent that students should not receive credit for both courses) none | | |
| Prerequisite and/or Corequisite none | | |
| Criminal record check required? <input type="checkbox"/> Yes <input type="checkbox"/> No if yes is selected, add this as prerequisite | | Additional course fees? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Campus where course will be taught <input type="checkbox"/> Burnaby <input type="checkbox"/> Surrey <input checked="" type="checkbox"/> Vancouver <input type="checkbox"/> Great Northern Way <input type="checkbox"/> Off campus | | |
| Course Components * <input type="checkbox"/> Lecture <input checked="" type="checkbox"/> Seminar <input type="checkbox"/> Lab <input type="checkbox"/> Independent <input type="checkbox"/> Capstone <input type="checkbox"/> _____ | | |
| Grading Basis <input checked="" type="checkbox"/> Letter grades <input type="checkbox"/> Satisfactory/ Unsatisfactory <input type="checkbox"/> In Progress / Complete | | |
| Repeat for credit? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Total repeats allowed? 0 | Repeat within a term? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Required course? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Final exam required? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Capstone course? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Combined with a undergrad course? <input type="checkbox"/> Yes <input type="checkbox"/> 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 Karen Ferguson |
| Additional faculty members, space, and/or specialized equipment required in order to offer this course Meg Holden, other faculty |

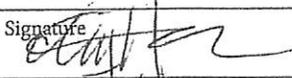
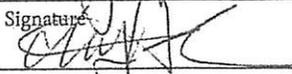
CONTACT PERSON

| | | |
|---|---|--------------------------------|
| Academic Unit / Program Urban Studies | Name (typically, Graduate Program Chair) Meg Holden | Email mholden@sfu.ca |
|---|---|--------------------------------|

ACADEMIC UNIT APPROVAL

A course outline must be included.

Non-departmentalized faculties need not sign

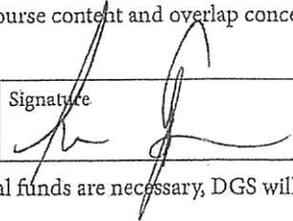
| | | |
|--|---|------------------------------|
| Graduate Program Committee Meg Holden | Signature  | Date 16 April 2019 |
| Department Chair Meg Holden | Signature  | Date 16 April 2019 |

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

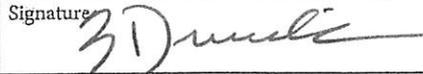
Overlap check done? YES

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 SEAN ZWAGERMAN | Signature  | Date 14 MAY 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 Zoë Druick | Signature  | Date JUN 20 2019 |
|--|---|----------------------------|

ADMINISTRATIVE SECTION (for DGS office only)

Library Check: **APR 24 2019**
 Course Attribute: _____
 Course Attribute Value: _____
 Instruction Mode: _____
 Attendance Type: _____

If different from regular units:
 Academic Progress Units: _____
 Financial Aid Progress Units: _____

URBAN PROFESSIONAL DEVELOPMENT II

TERM II: URB 602 (2 credits)

COURSE DESCRIPTION

This is the second of a two-course series designed to assist and support urban studies student professional development as urbanists and researchers in a range of possible career paths.

LEARNING OBJECTIVES

During this course, we will:

- Create and foster an inclusive professional social network beginning with new student habits of peer support and extending into mentorship opportunities with alumni, adjuncts, faculty and associates
- Learn to articulate and make connections between our own urban professional and research skills and interests and those of our classmates and professional associates within the urban studies community
- Understand and map the evolving landscape of urban academic professions in Canada
- Gain exposure to grant writing, conference presentation, and the publication process for academic audiences
- Develop an effective academic CV portfolio that could serve as the basis of a future PhD or funding application
- Practice skills necessary for healthy work-life balance during graduate school

COURSE EVALUATION

15 % Mapping myself into the urban academic landscape in Canada

30 % Academic portfolio, including peer review and feedback

30 % Participation and hosting role ACCESS BC

25 % Urban professional development logbook and reflections*

* In addition to attending and participating in class, attendance and reflection on other relevant seminars and workshops offered throughout the university are required.

READINGS

Calhoun, C. 2008. Foreword. In *Engaging Contradictions: Theory, politics and method of activist scholarship* (C.R.Hale, ed) Berkeley: University of California Press.

Chatterton, P. 2008. Demand the possible: journeys in changing our world as a public activist-scholar. *Antipode* 40: 421-28.

Gans, H. 2009. A sociology for public sociology: some needed disciplinary changes for creating public sociology. In *A Handbook of Public Sociology*, I. Jeffries (ed). Lanham, MD: Rowman & Littlefield, p. 123-34.

Gurran, N. 2018. Public cities, public scholars? Questioning urban policy and research in Australia. *Urban Policy and Research* 36(1): 1-10.

Piven, F.F. 2010. Reflections on scholarship and activism. *Antipode* 42: 806-10.

Siemiatycki, M. 2012. The role of the planning scholar: research, conflict, and social change. *JPER* 32: 147-59.

Hurley, J. et al. 2016. Exchange between researchers and practitioners in urban planning. *Planning Theory & Practice* 17(3): 447-473.

OUTLINE OF CLASS MEETINGS

SESSION 1: Your academic future as an urbanist (Guest: Research Commons)

SESSION 2: How to survive and thrive as an Urban Studies student redux

SESSION 3: Introduction to ACCESS BC event, establishing hosting role for students

SESSION 4: Seminar on the academic landscape for urbanists in Canada (Guests: Urban Studies faculty, adjuncts, associates)

SESSION 5: Debrief on the academic landscape for urbanists in Canada

SESSION 6: Urban research proposals, grant opportunities, best practices

SESSION 7: Writing a grant application (Guests: Urban Studies CGS-M winning students and alumni)

SESSION 8: Preparing an academic portfolio

SESSION 9: Academic networking : conference-going tips and abstract writing practice

SESSION 10: Hosting ACCESS BC event

SESSION 11: Creating and maintaining an effective online presence (Guests: Urban Studies alumni)

SESSION 12: Peer review of portfolio work

SESSION 13: Presentation of the portfolio



MEMORANDUM

| | |
|-------------------|--|
| ATTENTION: | Senate Graduate Studies Committee |
| FROM: | Stuart Poyntz, Chair, FCAT Graduate Studies Committee |
| RE: | New Graduate Course (CMNS 835) and MFA Program Name Change |
| DATE: | May 16, 2019 |

The following new course has been approved by the Faculty of Communications, Art and Technology and is forwarded to the Senate Graduate Studies Committee for approval.

This course covers a key area of research in Communication Studies and is necessary for both foundational training and training for students specializing in this area. This curriculum item should be effective for ~~Fall~~ 2020.

Spring 19

School of Communication

New Course: CMNS 835 - Communication and Cultural Policies, Power and Governance

FCAT-GSC has also voted to approve the change of the MFA program offered by the School for the Contemporary Arts from *"MFA in Interdisciplinary Studies"* to *"MFA in Interdisciplinary Arts"* to better reflect the nature of the program as a research creation and practice based study rather than a scholarly studies one. The change is to take effect for Fall 2019.

School for the Contemporary Arts

Program name change from "MFA in Interdisciplinary Studies" to "MFA in Interdisciplinary Arts"

Please include both items in the next SGSC agenda.

In addition to this memo, please find enclosed the syllabus, the New Graduate Course Proposal form, the name change memo from SCA, as well as a calendar entry change form.

Sincerely,

A handwritten signature in black ink, appearing to read 'Stuart Poyntz', with a stylized flourish at the end.

Stuart Poyntz, Ph.D.
Associate Dean, Academic, FCAT
Chair, FCAT Graduate Studies Committee

cc: Arne Eigenfeldt, Graduate Program Chair, SCA
Kirsten McAllister, Graduate Program Chair, CMNS

db/SP



SCHOOL OF COMMUNICATION

Shrum Science Centre K9671
8888 University Drive, Burnaby, BC
Canada V5A 1S6

TEL 778.782.3687
FAX 778.782.4024

www.cmns.sfu.ca

Memorandum

To: The Faculty Graduate Studies Committee in the Faculty of Communication, Art and Technology

From: Dr. Kirsten McAllister, Graduate Chair, School of Communication

Re: Proposal for a New Graduate Course in the School of Communication, CMNS 835

Date: April 19, 2019

The following new course, CMNS 835, "Communication and Cultural Policies, Power and Governance", which has been designed by Dr. Sarah Ganter and Prof. Alison Beale, has been approved by the School of Communication and its Graduate Program Committee and is being forwarded to FCAT's Faculty Graduate Studies Committee for approval. This course covers a key area of research in Communication Studies and is necessary for both foundational training and also training for students specializing in this area. This curriculum item should be effective for ~~Fall~~ ^{Spring} 2020. Please include it on the next FGSC agenda. KA

School of Communication: *CMNS 835*

In addition to this memo, please find enclosed the syllabus and the New Graduate Course Proposal form.

Kirsten McAllister
Communication Graduate Chair

April 19, 2019



New Graduate Course Proposal

| | | |
|--|--|---|
| Course Subject (eg. PSYC) CMNS | Number (eg. 810) 835 | Units (eg. 4) 3 |
| Course title (max. 100 characters) Communication and Cultural Policies, Power and Governance | | |
| Short title (for enrollment/transcript - max. 30 characters) Communic and Cultural Policies | | |
| 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) The governance of communication and culture in Canada and globally. Issues in and approaches to communication and cultural policies as a field of international scholarly inquiry in cultural and communication studies. | | |
| Rationale for introduction of this course Advanced study of the domestic and global governance of communication and culture, complementing existing CMNS courses on cultural topics and on the political economy of communication through the examination of current policy issues and policy research methods. | | |
| Term of initial offering (eg. Fall 2019) Spring 2020 | Course delivery (eg. 3 hrs/week for 13 weeks) 3hrs/week for 13 weeks | |
| Frequency of offerings/year 1 a year | Estimated enrollment per offering 12 | |
| Equivalent courses (courses that replicates the content of this course to such an extent that students should not receive credit for both courses) | | |
| Prerequisite and/or Corequisite | | |
| Criminal record check required? <input type="checkbox"/> Yes <input type="checkbox"/> No if yes is selected, add this as prerequisite | | Additional course fees? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Campus where course will be taught <input checked="" type="checkbox"/> Burnaby <input type="checkbox"/> Surrey <input checked="" type="checkbox"/> Vancouver <input type="checkbox"/> Great Northern Way <input type="checkbox"/> Off campus | | |
| Course Components * <input type="checkbox"/> Lecture <input checked="" type="checkbox"/> Seminar <input type="checkbox"/> Lab <input type="checkbox"/> Independent <input type="checkbox"/> Capstone <input type="checkbox"/> _____ | | |
| Grading Basis <input checked="" type="checkbox"/> Letter grades <input type="checkbox"/> Satisfactory/ Unsatisfactory <input type="checkbox"/> In Progress / Complete | | |
| Repeat for credit? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Total repeats allowed? <u>0</u> | Repeat within a term? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Required course? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Final exam required? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Capstone course? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Combined with a undergrad course? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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 Dr. Alison Beale, Dr. Sarah Ganter, Dr. Zoe Druick |
| Additional faculty members, space, and/or specialized equipment required in order to offer this course none |

CONTACT PERSON

| | | |
|--|--|------------------------------------|
| Academic Unit / Program CMNS Graduate Program | Name (typically, Graduate Program Chair) Dr. Kirsten McAllister | Email kirsten_mcallister@sfu.ca |
|--|--|------------------------------------|

ACADEMIC UNIT APPROVAL

A course outline must be included.

Non-departmentalized faculties need not sign

| | | |
|--|--|------------------------|
| Graduate Program Committee Kirsten McAllister | Signature  | Date April 11, 2019 |
| Department Chair Peter Chow-White | Signature  | Date April 11, 2019 |

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

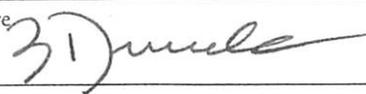
Overlap check done? YES

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 Stuart Poyntz | Signature  | Date May 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 Zoë Druick | Signature  | Date JUN 20 2019 |
|--|--|---------------------|

ADMINISTRATIVE SECTION (for DGS office only)

Library Check: MAY 22 2019
 Course Attribute: _____
 Course Attribute Value: _____
 Instruction Mode: _____
 Attendance Type: _____

If different from regular units:
 Academic Progress Units: _____
 Financial Aid Progress Units: _____

11.06.2019
sganter@sfu.ca

School of Communication
Simon Fraser University
CMNS Graduate Course Proposal

Communication and Cultural Policies, Power, and Governance

Course Overview:

Political uncertainties and fast technological change have challenged media and communication policy research and lead in the last decade to a range of scholarly meta-reflections that discuss the relevance of policy for the broader field of media and communication studies. Many scholars have addressed ideological and analytical barriers of research, criticized the neglect of context, and raised awareness of how different philosophy of science traditions shape policy research in media and communication studies. In this course, we revisit policy as a field of scholarly inquiry in media and communication studies as it has developed over the years, and discuss its value for current academic, public, and political discussions. We will discuss ways and motives with which scholars analyze questions of policy, power and governance to understand the rise of different normative foundations of modes of policy formation, articulation and interpretation over time and across countries.

Learning Outcomes:

Students will learn about different perspectives and approaches in media and communication policy research, current epistemological and ontological discussions and the different implications those have on the development of the field within media and communication studies.

Seminar Format:

This is a weekly participatory seminar. The course is a seminar based on reading and discussion with comments and guidance from the instructor. The aim is to engage with the material, aiming for intellectual independence, critical engagement, synthesis and evaluation rather than regurgitation. There will be issue based team presentations, research workshops on current policy issues and students will have the opportunity to discuss their take home essays in class before the final submission.

Required Readings:

Braman, S. (2006). *Change of State. Information, Policy and Power*. Cambridge, Massachusetts: The MIT Press.
Mueller, M. (2010) *Networks and states: The global politics of Internet governance*. Information revolution and global politics. Cambridge, Massachusetts: The MIT Press.

Additional Readings:

Freedman, D. (2008). *The Politics of Media Policy*. Cambridge, UK. Malden, USA: Polity.

Schedule for the Seminar:

Week 1: Foundations in Media and Communication Policy Research

- Ball, S.J. (1993). What Is Policy? Texts, Trajectories and Toolboxes. *Discourse: Studies in the Cultural Politics of Education*, 13 (2), 10-17. DOI:10.1080/0159630930130203.
- Braman, S. (2006). *Change of State. Information, Policy, and Power*. Chapter 1: An Introduction to Information Policy. (p.1-9). Cambridge, Massachusetts: The MIT Press.
- Freedman, D. (2008). *The Politics of Media Policy. Chapter 1 Introducing Media Policy*. P. 1-23. Cambridge, UK. Malden, USA: Polity.

Week 2: Media and Communication Policy as Research Field- Critique and ways Forward

- Braman, S. (2004). Where has media policy gone? Defining the field in the twenty-first century. *Communication Law and Policy*, 9 (2), 153-182.
- Just, N. & Puppis, M. (2018). Moving Beyond Self-Castigation: Let's Reinvigorate Communication Policy Research Now! In *Communication Research* 68 (2). P. 327-336.
- Padovani, C. (2018). Gendering Media Policy Research and Communication Governance. *Javnost/The Public* 25(3), 256-264.
- Picard, R. (2016). Isolated and Particularised: The State of Contemporary Media and Communications Policy Research. *Javnost- The Public. Journal of European Institute for Communication and Culture*. 23(2): 135-152.

Week 3: Media and Communication Governance- concept, approach or theory?

- Colebatch, H. K. (2009). Governance as a conceptual development in the analysis of policy. *Critical Policy Studies*, 3 (1), 58-67. doi: 10.1080/19460170903158107.
- Puppis, M. (2010). Media Governance: A New Concept for the Analysis of Media Policy and Regulation. *Communication, Culture & Critique*, 3 (2), 134-149. doi: 10.1111/j.1753-9137.2010.01063.x.
- Müller, M. (2010). *Networks and States: The Global Politics of Internet governance*. Information revolution and global politics. Chapter 1 (p. 1-31). Cambridge, Massachusetts: The MIT Press.
- Hofmann, J. Katzenbach, C., & Gollatz, K. (2017). Between coordination and regulation: Finding the governance in Internet governance. *New Media and Society* 19 (9), 1406-1423.

Week 4: Technology as challenge or analytical perspective?

- Just, N. & Latzer, M (2017). Governance by algorithms: reality construction by algorithmic selection on the Internet. *Media, Culture & Society*, 39(2), 238-258.
- Mueller, M. (2010) *Networks and states: The global politics of Internet governance*. Information revolution and global politics Chapter 3. Cambridge: MIT Press.
- Wu, Tim & Yoo, Christopher (2007). Keeping the Internet Neutral? Debate. *Federal Communications Law Journal*, Vol. 59, No.3.
https://papers.ssrn.com/sol3/papers.cfm?abstract_id=953989

Week 5: Market centered approaches in policy research

- Baker, E.C. (2002). *Media, Markets, and Democracy*. Cambridge, UK; New York, US; Oakleigh, [Introduction] Australia; Madrid, Spain; Cape Town, South Africa: Cambridge University Press.
- Becerra, M. & Mastrini, G. (2011). Global Financial Crisis. What Crisis? Argentine Media in View of the 2008 International Financial Crisis. *International Journal of Communication* 4(19), 611-629.
- George L.M, & Hogendorn, C. (2012). Aggregators, search and the economics of new media institutions. *Information Economics and Policy*. 24(2012). Pp. 40-51.
- Just, N. (2018). Governing online platforms: Competition policy in times of platformization. *Telecommunications Policy*, 42 (2018): 386-394.
- Picard, R. (2005). *Media, Money and the Public Interest*. In: Geneva Overholser & Kathleen Hall Jamieson (Eds). *Institutions of American Democracy*. (p. 337-350). Oxford: Oxford University Press.

Week 6: Historical context and analysis

Book review

- Bannerman, S. & Haggart, B. (2014). Historical institutionalism in communication studies. *Communication Theory* 25(1). 1-22.
- Braman, S. (2006). *Change of State. Information, Policy and Power*. Chapter 3: Bounding the Domain: Information Policy for the Twenty-First Century. (p. 39-79). Cambridge, Massachusetts: The MIT Press.
- Löblich, M. (2018). The History of Media Policy Based on mediatization: A Theoretical Perspective. *International Journal of Communication* 12 (2018), 4468-4487.

Week 7: Power formations and diffusions

- Braman, S. (2006). *Change of State. Information, Policy, and Power*. Chapter 2: Forms and Phases of Power: The Bias of the Informational State. Chapter 9: Information, Policy, and Power in the Informational State. (p. 9-38; p. 313-328). Cambridge, Massachusetts: The MIT Press.
- Freedman, D. (2008). *The Politics of Media Policy*. Chapter 4 Dynamics of the Media Policymaking Process. (p. 80-104).
- Kreiss, D. (2015). The problem of citizens: E-democracy for actually existing democracy. *Social Media + Society* 1(2), 1-11.
- Sarikakis, K., & Ganter, S.A (2014). Priorities in global media policy transfer: Audio-visual and digital policy mutations in the EU, MERCOSUR and the U.S. triangle. *European Journal of Communication*, 29 (1), 17-33.
- Schmidt, V. (2008). Discursive Institutionalism: The Explanatory Power of Ideas and Discourse. *Annu. Rev. Polit. Sci.*, 11, 303-3026. Doi:10.1146/annurev.polisci.11.060606.135342.

Week 8: Values, beliefs and principles

- Cuilenburg van, J., & McQuail, D. (2003). Media policy paradigm shifts: towards a new communications policy paradigm. *European Journal of Communication*, 18 (2), 181-207.

11.06.2019
sganter@sfu.ca

Freedman, D. (2008). *The Politics of Media Policy*. Chapter 2: Pluralism, Neo-liberalism and Media Policy. Chapter 3 Reinterpretation of Media Policy principles (p. 24-79). Cambridge, UK. Malden, USA: Polity.

Picard, R. & Picard, V. (2017). *Essential Principles for Contemporary Media and Communications Policymaking*. Reuters Institute for the Studies of Journalism Report. Available from: <https://reutersinstitute.politics.ox.ac.uk>

Week 9: Media and Communication Policy and State Identity

Braman, S. (2006). *Change of State. Information, Policy, and Power*. Chapter 4: Constitutional Principles and the Information Spaces They Create. (p.79-116), Chapter 5 Information Policy and Identity (p. 115-166). Cambridge, Massachusetts: The MIT Press.

Cox, R. (1989). Gramsci, Hegemony and International Relations: An Essay in Method. *Millennium: Journal of International Studies*, 12 (2), 162-175

Padovani, C. & Santaniello, M. (2018). Digital constitutionalism: Fundamental rights and power limitation in the Internet eco-system. *The International Communication Gazette*, 80(4), pp. 295-301

Week 10: Policy as discourse and policy discourses

Research workshop 1: Project definition

Ali, C. & Puppis, M. (2018). When the Watchdog Neither Barks Nor Bites: Communication as a Power Resource in Media Policy and Regulation. *Communication Theory*, 28(3): 270-291

Freedman, D. (2010). Media Policy Silences: The Hidden Face of Communications Decision Making. *The International Journal of Press/Politics*, 15 (3), pp. 344-361.

Dixon, S. (2013). Discursive Intervention in International Intellectual property Policy-making: How Developing Countries and Civil Society Employ Text to Challenge and Change the Status Quo. *Communication, Culture & Critique*, 6 (4), 598-615.

Cohen, N.S. & Shade, L.R. (2008). Gendering Facebook: privacy and commodification. *Feminist Media Studies* 8(2), 210-214.

Streeter, T. (2013). Policy, Politics, and Discourse. *Communication, Culture & Critique*, 6 (2013), 488-501.

Week 11: Between Global Perspectives and the De-Westernization of a research field

Research workshop 2: Project discussion and feedback

Chenoi, J.-M., Rojas Fuerte, J.S. (2018). The difficult path to the insertion of the global south in internet governance. In: D. Opperman (Ed.). *Internet Governance in the Global South. History, Theory, and Contemporary Debates* (p. 42-73). São Paulo: Núcleo de Pesquisa em Relações Internacionais (NUPRI). Available online: www.nupri.prp.usp.br

Frau-Meigs, D. (2011). *Media matters in the cultural contradiction of the "information society" – towards a human rights-based governance*. Brussels: Council of Europe Publishing Editions. [Conclusion].

Flew T. & Waisbord, S. (2015). The ongoing significance of national media systems in the context of media globalization, *Media, Culture & Society*, 37 (4), 620-636. DOI: 0.1177/0163443714566903.

Manokha, I. (2009). Foucault's Concept of Power and the Global Discourse of Human Rights. *Journal of Global Society*. 23(4), p. 429-452.

11.06.2019
sganter@sfu.ca

Raboy, M., & Mansell, R. (2011). *The Handbook of Global Media and Communication Policy*. New York: Wiley-Blackwell. [Introduction]

Week 12: Media and Communication Policy: citizens as analysts

Mueller, M. (2010) *Networks and states: The global politics of Internet governance*. Information revolution and global politics Chapter 2. Cambridge: MIT Press.

Gillespie, Tarleton (2018). *Chapter 3: Community Guidelines or the Sound of No*. In: *Custodians of the Internet. Platforms, content moderation, and the hidden decisions that shape social media*.

Lentz, B. (November 8, 2016). *Funding policy advocacy: An interview with the founder and director of the Media Democracy Fund*. In *Working for Internet Freedoms: Network Neutrality and the Labors of Policy Advocacy in the U.S.* [Special Section]. *International Journal of Communication*, Vol 10: 5811-5826.

Segura, S. & Waisbord, S. (2016) *Media movements: Civil society and media policy reform in Latin America*. Chapter 2: *The field of media activism: organizations and demands*. Zed Books Ltd.

Wildavsky, A. (1979). *The art and craft of policy analysis*. Palgrave Macmillan. Chapter 11 *citizens as analysts*. p. 269-297.

Week 13: Normativity and evidence

Research workshop 3: Final presentations

Braman, S. (2008). *Policy Research in an Evidence-Averse Environment*. *International Journal of Communication*. 2 (2008), 433-449. Available from:

<http://ijoc.org/index.php/ijoc/article/view/322/0>

Just, N. (2009). *Measuring media concentration and diversity: New approaches in Europe and the USA*. *Media, Culture & Society*, 31(1), 97-117.

Winseck, D. & Cuthbert, M. (1997). *From communication to democratic norms: reflections on the normative dimensions of international communication policy*. *Gazette*, 59 (1): 1-20.

Week 14: Knowledge-making in the field: questions and approaches

Feedback on essay drafts

N. Just & M. Puppis. *Trends in Communication Policy Research*. *New Theories, Methods and Subjects*. Bristol: Intellect. [Introduction and Conclusion].

Mueller, M. (1995). *Why Communication Policy is passing "Mass Communications" by: Political Economy as the Missing Link*. *Critical Studies in Mass Communication*. 12 (4): 457-72.

Vennesson, P. (2008). *Case studies and process tracing: theories and practices*, In: Donatella Della Porta. & Michael Keating (Eds.), *Approaches and Methodologies in Social Sciences. A Pluralist Perspective*. (pp. 223-239). Cambridge: CUP.

Grading:

| | |
|---|-----|
| Attendance | 20% |
| Research workshop presentation | 25% |
| Book Review | 25% |
| Final Paper | 30% |
| (2000-3000 words for MAs; 4000-5000 words for PhDs) | |

Note: All students need to hand in all assignments to pass the course. Students are expected to attend each class. However, if a student must miss a class, they must notify the instructor before the class starts. Students missing more than two classes will be evaluated with **F in their participation mark**. You are strongly advised to complete your readings prior to each class. *The School expects that the grades awarded in this course will bear some reasonable relation to established university-wide practices with respect to both levels and distribution of grades. In addition, the School will follow Policy S10.01 with respect to Academic Integrity, and Policies S10.02, S10.03 and S10.04 as regards Student Discipline. [Note: as of May 1, 2009, the previous T10 series of policies covering Intellectual Honesty (T10.02), and Academic Discipline (T10.03) have been replaced with the new S10 series of policies.]*

Grading Guidelines:

| | |
|----------|--|
| A- to A+ | Thorough knowledge of concepts and/or techniques, with a high degree of skill and/or originality in satisfying the requirements of an assignment or course. A comprehensive knowledge of the subject matter and principles taught in the course. A high degree of originality in approach and independence of thought. A superior ability to organize and analyze ideas, and an outstanding ability to communicate (including excellent writing skills). |
| B+ | Very good level of knowledge of concepts and/or techniques, together with considerable skill in using them to satisfy the requirements of an assignment or course. Some originality. |
| B- to B | A substantial knowledge of the subject matter. A moderate degree of originality and independence of thought. A good ability to organize and analyze ideas and an ability to communicate clearly and fluently. |
| C to C+ | Acceptable level of knowledge of concepts and/or techniques, together with some skill in using them to satisfy the requirements of an assignment or a course. |
| C- | Acceptable grasp of the subject matter. Demonstrates understanding of assignment. Some ability to organize and analyze ideas, and ability to communicate adequately. |
| D | Minimum knowledge of concepts and/or techniques needed to satisfy the requirements of an assignment or a course. Rudimentary knowledge of the subject matter. Some evidence that organizational and analytic skills have been developed, but with significant weaknesses in some areas, and significant weaknesses in communication. |

The school expects that the grades awarded in this course will bear some reasonable relation to established university-wide practices with respect to both levels and distribution of grades. In addition, the School will follow Policy S10.01 with respect to Academic Integrity, and Policies S10.02, S10.03 and S10.04 as regards Student Discipline (note: as of May 1, 2009 the previous T10 series of policies covering Intellectual Honesty (T10.02) and Academic Discipline (T10.03) have been replaced with the new S10 series of policies). For further information see: www.sfu.ca/policies/Students/index.html