SFU

MEMO

Dean of
Graduate Studies

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TO: Senate

TEL

FROM   Wade Parkhouse, Dean, Graduate Studies

RE   Faculty of Communication, Art and Technology   [GS2010.21]

CC   Ron Wakkary

DATE   September 14, 2010

For information
Acting under delegated authority at its meeting of 13 September 2010, the SGSC
approved the following curriculum revisions:

Faculty of Communication, Art and Technology   **[GS2010.21]**
School of Interactive Arts and Technology
a)   MA, MSc and PhD Program Changes:
i)   Reduce the requirement of two methods courses to one for Master students
ii) Update the list of elective courses and MSc elective requirements list with courses
     that were not added to the list when approved:
     IAT 834-3 Mixed Methods in Design Research
     IAT 835-3 Sustainable Interaction Design
     IAT 846-3 Interactive systems for Design
iii) Add a newly approved course to the list of electives:
     IAT 847-3 Metacreation: Endowing Machines with Creative Behaviours (S.10.45)
iv) Remove a course from the program:
     IAT 845-3 Methods for Research into Technological Systems

b)   Deletions:
     MTEC 600 - 1 Services Management
     MTEC 601 - 1 Technology and Supply Chain Management
     MTEC 602 - 1 Developing New Products
     MTEC 603 - 1 Branding
     MTEC 604 - 1 Internet Advertising
     MTEC 605 - 1 Management of High Tech Professionals
     MTEC 606 - 1 Global Business in Technology Industries

Senators wishing to consult a more detailed report of curriculum revisions may
do so on the Web at http://www.sfu.ca/senate/Senate_agenda.html following
the posting of the agenda. If you are unable to access the information, please
call 778.782.3168 or email shelley_gair@sfu.ca.

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MTEC 607 - 1 Strategic Management of Innovation
MTEC 608 - 1 High Tech Entrepreneurship
MTEC 609 - 1 E-Customer Relationship Management
MTEC 610-1 The Social Context of E-Business
MTEC 611-1 Knowledge Management Tools and Technologies
MTEC 613-1 E-Business Strategy and Models
MTEC 691-1 Directed Studies
MTEC 692-1 Directed Studies
MTEC 693-1 Directed Studies
MTEC 694-2 Directed Studies
MTEC 695-2 Directed Studies
MTEC 696-2 Directed Studies
MTEC 697-3 Directed Studies
MTEC 698-3 Directed Studies
MTEC 699-3 Directed Studies

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Faculty of Communication, Art and Technology

School of
Interactive Arts and Technology

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Phone: +1-778-782-7431
Fax: +1-778-782-7488
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ATTENTION: SGSC
FROM: School of Interactive Arts and Technology (SIAT)
RE: Major Program Change

DATE: January 7, ~~2009~~ *2010*

Proposed Program Change

The proposed changes to the Graduate Program in Interactive Arts and Technology address four issues:

1. Reducing the requirement of two methods courses to one for Master students (major change).
2. Updating the list of elective courses and MSc elective requirements list with courses that were not added to the list when approved (maintenance). *S.10 45*
3. Adding a newly approved course ~~IAT 848-3~~ IAT 847-3 Metacreation: *S.10 45* Endowing Machines with Creative Behaviours to the list of elective courses (major change).
4. Removing course IAT 845 Methods for Research into Technological Systems from the program (major change).

The changes were approved by the SIAT GPC on November 18, 2009, by SIAT faculty on November 23, 2009, and by FCAT GPC on January 18, 2010.

How the changes affect the program

No prerequisites will be affected by the proposed changes. Reducing the required number of methods courses for master student will create a more flexibility for the students. The requirement of two courses can still be imposed for individual students by their committee if the nature of student's research requires it. There are no adverse implications for existing students.

Justification for the changes

Changes #2, #3 and #4 are results of the course changes, either addition or removal, and those were justified when the courses were approved. Those changes are merely reflected in the graduate program text.

Change #1 is more profound and affects Master program only. It was identified that the lack of designated research methods courses in SIAT program coupled with the stringent requirement for specific elective courses and as well as the total number of required courses (5) by the MSc students reduces their options significantly. The requirement of two methods courses mandates 40% of the courses in our Master

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program to be methods courses. This is limiting for several areas of study within SIAT. However, as students in some research areas do need to have a strong methodological background this requirement can still be imposed on the students by their supervisory committee. The requirement remains unchanged for PhD students. This change does not affect the total number of credits the students must complete towards their degree.

Current calendar language with edits

The affected sections are shown in their entirety. All edits are highlighted, the additions are in bold, and deletions are strikethroughs.

Section 1:

Degrees Offered

The program offers courses leading to an MA, MSc and PhD, and provides graduate study in diverse areas related to people, technology and society, especially the areas of art, design, games and knowledge management.

~~The following degrees, for those who were admitted in September 2003 or earlier, have been phased out: master of applied science (information technology); master of applied science (interactive arts).~~

Section 2:

Degree Requirements

The primary requirement for the MA, MSc and PhD degrees is the thesis. The course requirements are aimed to support the student's thesis research. Students fulfil the following requirements to complete their degree. The MA, MSc and PhD requirements have common components, and are thus presented together. As requirements differ, they are listed respectively for each degree.

Required Courses

Students complete

IAT 800-3 Foundations of Computational Art and Design

and one of

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IAT 801-3 Qualitative Research Methods and Design
IAT 802-3 Quantitative Research Methods and Design

IAT 800 is a mandatory course, but may be waived for those students with sufficient formal educational background in art and design computation.

Core Courses

Master's students complete at least four additional courses as described below.

MA students complete two courses from the following.

IAT 810-3 New Media
IAT 811-3 Computational Poetics
IAT 812-3 Cognition, Learning and Collaboration
IAT 813-3 Artificial Intelligence in Computational Art and Design
IAT 814-3 Knowledge Visualization and Communication

MSc students complete two courses from the following.

IAT 812-3 Cognition, Learning and Collaboration
IAT 813-3 Artificial Intelligence in Computational Art and Design
IAT 814-3 Knowledge Visualization and Communication

PhD students complete at least five additional courses including at least two from the following.

IAT 810-3 New Media
IAT 811-3 Computational Poetics
IAT 812-3 Cognition, Learning and Collaboration
IAT 813-3 Artificial Intelligence in Computational Art and Design
IAT 814-3 Knowledge Visualization and Communication

Electives, Special Topics and Directed Readings

Elective offerings are expanding as the faculty complement grows. Several new special topics courses will be offered that reflect the interest and expertise of new faculty. Course offerings will be listed on the program's website (www.siat.sfu.ca/grad) as they become available.

Master's and PhD students complete two courses from electives, special topics and

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directed readings courses. Required or core courses that are not completed as part of the degree requirements may also be completed as electives. Subject to supervisory committee approval and graduate program committee approval, students may fulfil part of these requirements through other appropriate graduate courses at Simon Fraser University or elsewhere (the latter subject to Simon Fraser University rules on external courses). Normally, all students complete at least one course towards these requirements as either an elective or special topics offered within the program. For determining degree requirements in core, elective, special topics and directed readings categories, the number of courses with at least three units each shall be used. ~~At least one elective must be a research methods course appropriate to the student's course of study.~~

Special topics courses offered in the program will be approved by the graduate program committee to essentially the same criteria required for approval of a new elective. At the time of approval, each special topics course will be evaluated for suitability for study towards the master's or doctoral degree and the results of such evaluation will be noted in the course approval and course outline. At the time of approval, each special topics course will be evaluated for suitability for fulfilling the program's research methods requirement and the results of such evaluation will be noted in the course approval and course outline.

Directed readings are seminar or tutorial experiences that develop special research interests in depth and with faculty supervision. Students should not expect to complete a directed readings course where there is a substantively comparable course offered at Simon Fraser University. Directed readings should be distinct from the work to be undertaken towards the master's thesis. Normally, directed readings should not be completed under the supervision of a student's senior supervisor. Normally a master's student would complete at most one, and for doctoral students at most two, directed readings course during his or her degree. Directed readings offered within the program will be approved by the graduate program committee to essentially the same criteria required for approval of a new elective. At the time of approval, a directed readings course may be approved as fulfilling the program's research methods requirement.

MSc Elective Requirements

Students complete at least one course from the following

add ✓ **IAT 834-3 Mixed Methods in Design Research**
IAT 840-3 Models of Networked Practice
IAT 842-3 Theory and Design of Games
IAT 844-3 Spatial Computing
delete ✓ ~~IAT 845-3 Methods for Research into Technological Systems~~

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add: ✓ **IAT 846-3 Interactive Systems for Design**
 ✓ **IAT 847-3 Metacreation: Endowing Machines with Creative Behaviors**

plus any special topics course or any directed readings course approved by the
graduate program committee for study towards the MSc degree.

List of Elective Courses

The following may be used to satisfy elective requirements, subject to the MSc
elective requirements above. For MA and PhD students, there is no **specific** elective
requirement.

IAT 830-3 Learning Design and Media
IAT 831-3 Encoding Media Practice
IAT 832-3 Exploring Interactivity
IAT 833-3 Embodiment and Electronic Performance
add ✓ **IAT 834-3 Mixed Methods in Design Research**
 ✓ **IAT 835-3 Sustainable Interaction Design**
IAT 840-3 Models of Networked Practice
IAT 842-3 Theory and Design of Games
IAT 844-3 Spatial Computing
delete ✓ ~~IAT 845-3 Methods for Research into Technological Systems~~
add ✓ **IAT 846-3 Interactive Systems for Design**
 ✓ **IAT 847-3 Metacreation: Endowing Machines with Creative Behaviors**
IAT 881-3 Special Topics I
IAT 882-3 Special Topics II
IAT 883-3 Special Topics III
IAT 884-3 Special Topics IV
IAT 885-3 Special Topics V
IAT 886-3 Special Topics VI
IAT 887-3 Special Topics VII
IAT 888-3 Special Topics VIII
IAT 871-3 Directed Reading I
IAT 872-3 Directed Reading II
IAT 873-3 Directed Reading III

Designated Research Methods Courses

For PhD students, at least one elective must be a research methods course
appropriate to the student's course of study. The supervisory committee may

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require a Master's student to take one research method course as an elective.

In addition to IAT 801 and IAT 802 the following research methods courses ✓ satisfy the research methods requirement ~~in the elective course requirements~~. This course requirement must be relevant to the student's thesis work and be approved by the student's supervisor and the graduate program committee as being appropriate. Courses external to SIAT may also be used to satisfy this requirement and must be approved by the student's supervisory committee and the graduate program committee.

IAT 833-3 Embodiment and Electronic Performance
IAT 834-3 Mixed Methods in Design Research
delete ✓ ~~IAT 845-3 Methods for Research into Technological Systems~~

IAT 805-0 Research Colloquium

The research colloquium is an important part of the program. Master's students present in one seminar, and PhD students present two seminars ~~and all are expected~~ *delete* ~~to attend a large majority of the seminars for at least two academic terms~~. **All students must register in the colloquium for at least two academic terms.**

Proposed calendar language (clean copy)

Section 1:

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The program offers courses leading to an MA, MSc and PhD, and provides graduate study in diverse areas related to people, technology and society, especially the areas of art, design, games and knowledge management.

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MSc students complete two courses from the following.

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PhD students complete at least five additional courses including at least two from the following.

IAT 810-3 New Media
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Electives, Special Topics and Directed Readings

Elective offerings are expanding as the faculty complement grows. Several new special topics courses will be offered that reflect the interest and expertise of new faculty. Course offerings will be listed on the program's website (www.siat.sfu.ca/grad) as they become available.

Master's and PhD students complete two courses from electives, special topics and directed readings courses. Required or core courses that are not completed as part of the degree requirements may also be completed as electives. Subject to supervisory committee approval and graduate program committee approval, students may fulfil part of these requirements through other appropriate graduate courses at Simon Fraser University or elsewhere (the latter subject to Simon Fraser University rules on external courses). Normally, all students complete at least one course towards these requirements as either an elective or special topics offered within the program. For determining degree requirements in core, elective, special topics and directed readings categories, the number of courses with at least three units each shall be used.

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MSc Elective Requirements

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IAT 888-3 Special Topics VIII
IAT 871-3 Directed Reading I
IAT 872-3 Directed Reading II

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IAT 873-3 Directed Reading III

Designated Research Methods Courses

For PhD students, at least one elective must be a research methods course
appropriate to the student's course of study. The supervisory committee may require
a Master's student to take one research method course as an elective.

In addition to IAT 801 and IAT 802 the following research methods courses satisfy
the research methods requirement. This course requirement must be relevant to the
student's thesis work and be approved by the student's supervisor and the graduate
program committee as being appropriate. Courses external to SIAT may also be
used to satisfy this requirement and must be approved by the student's supervisory
committee and the graduate program committee.

IAT 833-3 Embodiment and Electronic Performance
IAT 834-3 Mixed Methods in Design Research

IAT 805-0 Research Colloquium

The research colloquium is an important part of the program. Master's students
present in one seminar, and PhD students present two seminars. All students must
register in the colloquium for at least two academic terms.

SFU Connect Collaboration Suite   sheilagh@sfu.ca

SIAT Curriculum Changes

Wednesday, August 18, 2010 4:11:03 PM

From: tom@sfu.ca
To: sheilagh@sfu.ca
Cc: hatala@sfu.ca
Reply To: tom@sfu.ca
Attachments: SIAT-Grad-program-calendar-change-january 2010-2.pdf (37.8KB)

The SIAT graduate curriculum changes detailed in the attached memo from Dr. Marek
Hatala, SIAT GPC chair, were approved at the FCAT Graduate Studies Committee meeting on
January 18, 2010.

Please add these to the next SGSC Agenda.

Thanks

Tom Calvert

SFU Connect Collaboration Suite

sheilagh@sfu.ca

MTEC courses

Wednesday, August 18, 2010 7:44:54 PM

From: tom@sfu.ca
    To: parkhous@sfu.ca
    Cc: cgeisler@sfu.ca; beale@sfu.ca; rwakkary@sfu.ca; sheilagh@sfu.ca
Reply To: tom@sfu.ca

Wade:

The FCAT Graduate Studies Committee has unanimously approved the following motion:

Motion: That the following courses be deleted from the SFU Calendar:

MTEC 600 - 1 Services Management
MTEC 601 - 1 Technology and Supply Chain Management
MTEC 602 - 1 Developing New Products
MTEC 603 - 1 Branding
MTEC 604 - 1 Internet Advertising
MTEC 605 - 1 Management of High Tech Professionals
MTEC 606 - 1 Global Business in Technology Industries
MTEC 607 - 1 Strategic Management of Innovation
MTEC 608 - 1 High Tech Entrepreneurship
MTEC 609 - 1 E-Customer Relationship Management
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MTEC 694-2 Directed Studies
MTEC 695-2 Directed Studies
MTEC 696-2 Directed Studies
MTEC 697-3 Directed Studies
MTEC 698-3 Directed Studies
MTEC 699-3 Directed Studies

Rationale: These courses were set up at the time TechBC was being absorbed into SFU. It is not clear whether they have ever been offered. They are currently listed in the FCAT portion of the Graduate Calendar and FCAT has no interest in their continuation.
    It is my understanding that Business Administration would also welcome their deletion.

Contents

Courses

- 500 and higher

Go to Class search/browse catalog in Student Information System (select on the left menu)

Search current courses/detailed class outlines

2010-2011 Calendar | Interactive Arts and Technology |

Management and Technology MTEC Courses

School of Interactive Arts and Technology | Faculty of Communication, Art and Technology
Simon Fraser University Calendar 2010-2011

MTEC 600-1 Services Management

This course introduces graduate students to the various services related business models, both B2C and B2B, that are established and evolving in the realm of e-Business. The issues of integration of web based services with traditional brick and mortar models are also explored.

MTEC 601-1 Technology and Supply Chain Management

This graduate course introduces students to the central ideas of supply chain management. The web enabled approach is emphasized and compared with traditional methods. Contemporary best practices are researched and discussed.

MTEC 602-1 Developing New Products

This course explores the strategic and operational aspects of new product development including critical success factors. It also provides a focus on the pre-development phase of product innovation.

MTEC 603-1 Branding

This course focuses on the ways that brands acquire and sustain value in the marketplace. Students study the meaning, uses, processes, and methodologies for creating effective and winning brands. The evolution of brand value strategies is also explored.

MTEC 604-1 Internet Advertising

The focus is on the issues, theories, tools, and practice of marketing communications in the Internet marketplace and the role of Internet advertising to businesses. Students will acquire the analytical skills that are needed to plan, design, implement and evaluate internet advertising campaigns.

MTEC 605-1 Management of High Tech Professionals

The course is focused on how to develop competitive advantage in e-business through leadership and the effective management of people. Topics examined include corporate culture, change management, learning organizations, and various human resource practices.

MTEC 606-1 Global Business in Technology Industries

The course is focused on key issues in conducting international business. Students study strategy formulation for international markets, as well as the important role of national culture in business. In addition, strategic alliances in technology companies are examined.

MTEC 607-1 Strategic Management of Innovation

This course reviews some fundamental concepts of strategy in the context of technological innovation, examines the role of core competencies in technology development, and identifies and discusses the various components or dimensions that make up a technology strategy. Case studies are used to illustrate theory with application in the e-business context.

MTEC 608-1 High Tech Entrepreneurship

In today's age of rapid technological progress, ventures are being created daily to satisfy new business needs. The creation of new technology-based ventures is becoming a more popular career choice for science and technology professionals with entrepreneurial ambition. This is a fast-paced, hands-on course that takes the student through the key stages of new venture creation including researching the product opportunity, protecting the venture's intellectual property, planning the venture's seed and start-up stages, determining the financial needs and resources, developing the business plan and valuing the venture.

MTEC 609-1 E-Customer Relationship Management

The course is focused on the evolution of customer relationship management from mortar and brick establishments to the Web. Focus is on issues of e-loyalty and customer services, as well as current practices.

MTEC 610-1 The Social Context of E-Business

The human element on the Web is important. In this course focus is on the development of trust in online communities, how virtual teams operate successfully, and ethical issues that impact online interaction, with particular emphasis on e-business.

MTEC 611-1 Knowledge Management Tools and Technologies

This course investigates the various information systems and technologies used for implementing knowledge management practices within an organization. It describes a framework for analyzing these knowledge services (KSS). Industry examples of knowledge services are discussed in terms of infrastructure services, core services and packaged services.

MTEC 613-1 E-Business Strategy and Models

Effective strategy is central to e-business success. In this course, emphasis is on examination on various strategies and models as they apply in e-business. Issues, strategic choices and challenges are highlighted related to e-business implementation.

MTEC 691-1 Directed Studies

MTEC 692-1 Directed Studies

MTEC 693-1 Directed Studies

MTEC 694-2 Directed Studies

MTEC 695-2 Directed Studies

MTEC 696-2 Directed Studies

MTEC 697-3 Directed Studies

MTEC 698-3 Directed Studies

MTEC 699-3 Directed Studies

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For calendar inquries and technical problems, contact calendar-sfu@sfu.ca | Calendar Changes and Corrections