UNIVERSITY OF TORONTO MISSISSAUGA

50 YEARS | GOVERNING COUNCIL

FOR APPROVAL **PUBLIC** **OPEN SESSION**

TO:	UTM Academic Affairs Committee
SPONSOR: **CONTACT INFO:**	Professor Amrita Daniere, Interim Vice-Principal Academic & Dean
PRESENTER: **CONTACT INFO:**	Professor Tracey Bowen, Vice-Dean, Teaching & Learning vdteachlearn.utm@utoronto.ca
DATE:	May 3, 2023 for May 10, 2023
AGENDA ITEM:	2

ITEM IDENTIFICATION:

Minor Modification: Undergraduate Curriculum Changes: Humanities, Sciences and Social Sciences, UTM

JURISDICTIONAL INFORMATION:

Under section 5.6 of its terms of reference, the Academic Affairs Committee is responsible for major and minor modifications to existing degree programs.

GOVERNANCE PATH:

- **UTM Academic Affairs Committee [for approval] (May 10, 2023)**

PREVIOUS ACTION TAKEN:

None.

HIGHLIGHTS:

The Curriculum Reports are comprised of Minor Modifications to existing undergraduate programs. These curricular changes are intended to have significant positive effects on a cumulative basis but are considered to be minor changes in the context of the UTQAP. It is important to note that the changes brought forward at these meetings will come into effect during the 2024-2025 Academic Year.

The enclosed reports represent the proposed changes from the March 2023 meetings of the Decanal Divisional Undergraduate Curriculum Committees for Humanities, Social Sciences, and Sciences. These curriculum committees consist of the Chairs, Associate Chairs, or Chair's designates of each UTM Department and Institute. Each of the attached curriculum reports are organized by academic unit and then sub-divided based on the type of change(s) being proposed.

Resource implications for all proposed changes were reviewed by the Resource Implications Committee within the Office of the Dean. These curriculum reports reflect all approved resource requests. Where required, library resources have been discussed and approved by the Hazel McCallion Academic Learning Centre (HMALC).

The Humanities Divisional Undergraduate Curriculum Committee report summarizes changes made to 4 programs and 10 courses. Of these course changes, academic units in the Humanities are looking forward to introducing 2 new courses in 2024-2025 along with 5 course modifications and 3 course retirements.

Changes proposed in the Sciences Divisional Undergraduate Curriculum Committee and reflected in the corresponding report include 12 program changes along with 40 course changes, of which 11 are new courses, 28 are modifications to existing courses, and 1 course retirement.

In the Social Sciences, 5 program changes were proposed along with 26 course changes (4 new courses; 17 course modifications; and 5 course retirements).

Though this round of review did not yield a significant number of changes, they are important modifications to maintain the quality, currency, and rigour of our course and programs. New courses to look forward to in 2024-2025 include an Anthropology course in urban sustainability (ANT371H5 *The Natural City: Cultural Approaches to Urban Sustainability*), a medical robotics course (CSC379H5 *Introduction to Medical Robotics*), and additional fine art courses (FAH458H5 *Materials of Modern Art* and FAH474H5 *The Technical Study of Art*).

RECOMMENDATION:

Be It Resolved,

THAT the proposed Humanities, Sciences and Social Sciences undergraduate curriculum changes at UTM, as detailed in the respective curriculum reports, be approved, effective September 1, 2024.

DOCUMENTATION PROVIDED:

- Humanities Curriculum Report
- Sciences Curriculum Report
- Social Sciences Curriculum Report

University of Toronto Mississauga

HUM Curriculum Proposals Report

Winter 2023

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Study of University Pedagogy (UTM), Institute for the

4 Course Modifications

ISP200H5: Writing and Researching across the University

Title:

Track Changes: AdvWriting anced WResearitching facrorss the University and Beyond

Description:

Track Changes:

This course abuildvances the writiong- and readinḡ-related skills that are necessary for success withion thoffere academic settinḡ .ISP100H5 Thein couritse bfocuilds on the 'Wwriting Aboutand Wresearitching' approachesses to. help sStudents devewillo expand their understanding of advanced the woriting process and writiechngiques of genrel atend thediscourse analysis , deespecially within their univdersity context . The class will ndinvg olvef writing in and oust ofudies scholasrship , asnd well as exercises fine theffectiver and cownstructive cwritiqueng prof once anothsser's work .

Prerequisites:

Track Changes:

4.0 credits , including ISP100H5

Rationale:

Revision of title and course description to better reflect the direction of future ISP programs.

Consultation:

Consultation with ISUP curriculum committee occurred on January 27, 2023.

UTM109H5: utmONE: Special Topics at the Intersection of Science and Humanities

Description:

Track Changes:

This course brings together first-year students to explore a current topic or problem at the intersection of science and humanities in a small-group environment . The focus of each section will depend on the instructor's areas of expertise and will provide students with the opportunity to develop foundational learning strategies and sharpen their academic skills to support the transition into university . Students participate in a series of tutorials that will help them build foundational skills for academic success such as creating study plans , taking notes , reading critically , and developing a growth mindset .

Rationale:

We are adding a standard line in the description for all utmONE Foundations courses as a reflection of the updated skills-building tutorials that these courses offer.

Consultation:

Consultation with ISUP curriculum committee occurred on January 27, 2023.

UTM110H5: utmONE: Special Topics at the Intersection of Social Science and Humanities

Description:

Track Changes:

This course brings together first-year students to explore a current topic or problem at the intersection of social science and humanities in a small-group environment . The focus of each section will depend on the instructor's areas of expertise and will provide students with the opportunity to develop foundational learning strategies and sharpen their academic skills to support the transition into university . Students participate in a series of tutorials that will help them build foundational skills for academic success such as creating study plans , taking notes , reading critically , and developing a growth mindset .

Rationale:

We are adding a standard line in the description for all utmONE Foundations courses as a reflection of the updated skills-building tutorials that these courses offer.

Consultation:

Consultation with ISUP curriculum committee occurred on January 27, 2023.

UTM115H5: utmONE: Communication Among Cultures

Description:

Track Changes:

This course is an introduction to inter-cultural communication primarily in the areas of writing and speaking . It is designed to address fundamental skills related to language use in the academic setting by focusing on topics such as customs , attitudes , beliefs , and values . Specific examples will be drawn from real-life university situations , and multiple viewpoints on the nature of diversity in communication will be discussed . ~~As part of this course s~~Students ~~will~~ participate in a series of tutorials that will help them build foundational skills for academic success ~~(~~such as creating study plan~~der~~s , ta~~nd~~king not~~h~~es ~~value~~, ~~of h~~reading~~her edu~~c~~ariti~~on~~cally , and developing a growth mindset ~~, and finding passion)~~ . ~~[24L , ~~< ~~12T~~/ ~~]~~ p>

Exclusions:

Track Changes:

UTM108H5 or UTM109H5 or UTM110H5 or UTM111H5 or UTM112H5 or UTM113H5 or UTM114H5 or UTM116H5 or UTM117H5 or UTM118H5 or UTM119H5 or UTM190H5 or UTM191H5 or UTM192H5 or UTM193H5 or UTM194H5 or UTM195H5 or UTM196H5 or UTM197H5

Rationale:

We are adding a standard line in the description for all utmONE Foundations courses as a reflection of the updated skills-building tutorials that these courses offer.

Consultation:

Consultation with ISUP curriculum committee occurred on January 27, 2023.

3 Retired Courses

UTM112H5: utmONE: Power of Expression

Rationale:

This course has not been offered for more than five years and we do not have faculty interested in offering the course again.

UTM117H5: utmONE: Individualism, The Development Of An Idea

Rationale:

This course has not been offered for more than five years and we do not have faculty interested in offering the course again.

UTM119H5: utmONE: Lights, Camera, Culture: Exploration of Cinema

Rationale:

This course has not been offered for more than five years and we do not have faculty interested in offering the course again.

Visual Studies (UTM), Department of

2 New Courses

FAH458H5: Materials of Modern Art

Contact Hours:
Lecture: / Tutorial: / Practical: / Seminar: 24

Description:

This course examines materials that have played a role in the making of the modern world as well as modern art. Some are of comparatively recent invention; others are ancient but acquired new significance in the global circuits of economic modernity and the changing aesthetic concerns of modern artists. Ranging across vegetable, animal, and mineral matter(s), we will consider materials' role in racial capitalism as well as art history; their technical properties and attendant conservation issues; their poetics; and their agencies and animacies.

Prerequisites:

FAH101H5 and (FAH287H5 or FAH288H5 or FAH289H5)

Exclusions:

FAH492H5 (Winter 2023)

Recommended Preparation:

At least 1.0 credit in FAH or VCC at the 300 or 400-level.

Distribution Requirements:
Humanities

Rationale:
The instructor has successfully taught this course as a topics course and now she wants to put it on the books since it reflects her current research.

Consultation:
Consultation has already taken place with DVS Library Liaison.

FAH474H5: The Technical Study of Art

Contact Hours:
Lecture: / Tutorial: / Practical: / Seminar: 24

Description:

This 4th-year seminar explores collaborations between art historians, conservators and material scientists in the technical study of works of art, especially of the early modern period. With ever more portable and effective means (like X-Radiography and 3D Scanning) that allow us to study the material composition and the inner structures and layers of works of art, the technical study of art has become an important new direction in art history. This course will situate technical art history (also known as technical studies) in the discipline, tracing its rise in the early 20th century as a new scientifically-based discipline that was distinguished from the traditional and intuitive practice of connoisseurship.

Prerequisites:

[FAH101H5 and (FAH274H5 or FAH279H5) and 1.0 credit in FAH or VCC at the 300 or 400 level] or permission of instructor. Students with a background in Chemistry are encouraged to contact the professor.

Exclusions:

FAH493H5 (Fall 2021 and Fall 2023)

Distribution Requirements:
Humanities

Rationale:
This course was successfully taught under a topics course, now adding it to the books since this is an important area of art history that is not currently taught at the University of Toronto.

Consultation:
Consultation with DVS Library Liaison has already taken place.

1 Course Modification

CIN215H5: Bollywood in Context

Exclusions:
Track Changes:

VCC390H5 -, Topic: Bollywood (Winter 2009 and Fall 2009) , CIN302H5 (Fall 2013)

Rationale:
Updating exclusions to reflect specific courses where exclusion applies.

4 Minor Program Modifications

ERSPE0714: Art and Art History - Specialist (Arts)

Completion Requirements:
Track Changes:
12.5 credits are required, comprised of 0.5 credit of ISP100H5 and 7.0 credits in FAS and 5.0 credits in FAH or VCC or VST offered at UTM (see detailed notes below). The following program structure is highly recommended:

First Year:
1. FAH101H5 and ISP100H5
2. 1.0 additional credit in FAH at the 200 level
3. 2.0 credits from FAS143H5 or FAS145H5 or FAS147H5 or FAS232H5 or FAS236H5 or FAS248H5 (All of these courses are open to first-year students.)

Second Year :
1 . VCC101H5
2 . 1.0 credit of FAH at the 200 level
3 . Remaining uncompleted credit (s) from the FAS course list identified in 'First Year' (above) .

Third Year :
1 . 1.0 credit of FAH or VCC at the 300 / 400 level
2 . 2.0 credits of FAS at the 300 / 400 level

Fourth Year :
1 . 1.0 credit of FAH or VCC or VST at the 300 / 400 level
2 . 2.0 credits of FAS at the 300 / 400 level

NOTES :
1 . Completion of the Art & Art History Specialist Program must include : FAH101H5 and VCC101H5 and ISP100H5 and FAS143H5 and FAS145H5 and FAS147H5 and FAS232H5 and FAS236H5 and FAS248H5 . Of the total 12.0-12.5 credits in the program , 4.0 credits of FAH or VCC or VST or FAS must be at the 300 / 400 level with 1.0 credit in FAH or VCC ~~or VST~~ at the 400 level and 1.0 credit of FAS at the 400 level .

2 . Students must take at least 2.0 credits , but no more than 2.5 credits , of FAH at the 200 level . Of these 2.0-2.5 credits , at least 1.5 credits must be completed at UTM (see Note 3 below for the required area distribution and Note 4 below for the St . George exceptions allowed) . VCC 200 level courses do not satisfy FAH 200 level requirements .

3 . At least 0.5 credit of FAH at the 200-level must be completed in each of the following three areas : Ancient & Medieval ; 15th-18th Centuries ; and 19th-21st Centuries . See the departmental website (www.utm.utoronto.ca / dvs) for the distribution of courses by area .

4 . 0.5 credit of FAH at the 200 level may be taken at St . George in an area not covered by current UTM offerings (i.e . one of the following courses – FAH248H1 or FAH260H1 or FAH262H1 or FAH270H1 or FAH272H1) .

5 . For the complete list of VCC courses that satisfy Art & Art History program requirements , please see the departmental website (www.utm.utoronto.ca / dvs) .

6 . As studio space is limited in the 100-level and 200-level FAS courses , priority will be given during the first registration period to students enrolled in the Art & Art History Major or Specialist , Art History Major or Specialist , CCIT Major , VCC Specialist , and to newly admitted students who indicated the Art & Art History code on their application . Students committed to the program should make sure that they are officially registered in the program as soon as possible .

7 . All 300 and 400 level FAS courses are to be enrolled in on ACORN . Students are required to have completed 1.5 credits in FAH or VCC before beginning their 300 / 400 level FAS courses .

8 . It is recommended that students take at least one of the following ‘practicum’ courses : FAH451H5 or FAS453H5 or FAS454H5 or FAS455H5 .

9 . No more than 17.0 credits of FAH and FAS may be completed .

10 . Students enrolling in any FAS course will be required to pay a fee of $~~6~~101-$1~~20~~87 per half-credit course ($~~1~~202-$~~2~~374~~0~~ per full-credit course) in ancillary fees to cover consumable materials used in studio as well as take-away materials . These charges will be automatically added to UofT student account upon enrolment in the course on ACORN . For details on ancillary fees , please see the Student Accounts website (www.fees.utoronto.ca) .

Rationale:

Updating program requirement to reflect the inclusion of VST410Y5. Students will be required to take 1.0 at the 400-level in FAH or VCC, VST410Y5 may not be used to fulfil this requirement.

ERSPE0615: Art History - Specialist (Arts)

Completion Requirements:

Track Changes:

10.5 credits are required distributed across 4 areas (see notes below) .

The following program structure is highly recommended :

First Year :
1 . FAH101H5 and VCC101H5
2 . ISP100H5
3 . 1.0 credit in FAH at the 200 level

Second Year :
1 . 2.0 credits in FAH at the 200 level
2 . 0.5 credit in FAH or VCC at the 300 level

Third Year : 3.0 credits in FAH at the 300 / 400 level , of which at least 1.5 must be at the 300 level .

Fourth Year : 2.5 credits in FAH or VCC or VST at the 300 / 400 level , of which 1.0 must be at the 400 level in FAH or VCC .

NOTES :
1 . Completion of the Art History Specialist Program must include : FAH101H5 and VCC101H5 and ISP100H5 and 3.0 credits of FAH at the 200 level and 4.0 credits of FAH or VCC or VST at the 300 / 400 level , of which 1.0 must be at the 400 level in FAH or VCC .
2 . 2.0 credits from each of the following four areas are required : Ancient & Medieval ; 15th-18th Centuries ; 19th-21st Centuries ; and Visual Culture & Theory . Some courses may satisfy more than one of the distribution requirements . See the departmental website (www.utm.utoronto.ca / dvs) for the distribution of courses by area .
3 . For the complete list of VCC courses that satisfy Art History program requirements , please see the departmental website (www.utm.utoronto.ca / dvs) .
4 . No St . George courses may be substituted for the required 100 or 200 level courses (see Note 5 below for exceptions) .
5 . No more than 4.0 credits in FAH may be taken at the 200 level . VCC 200 level courses do not satisfy FAH 200 level requirements . 0.5 credit of FAH at the 200 level may be taken at St . George in an area not covered by current UTM offerings (i.e . one of the following courses – FAH248H1 or FAH260H1 or FAH262H1 or FAH270H1 or FAH272H1) .
6 . Courses in other programs which have a significant Art History or Visual Culture content , such as offerings in CCIT , Cinema Studies , Philosophy , Drama , English History , East Asian Studies , and Near & Middle Eastern Civilizations , may be substituted for up to 1.0 credit of FAH or VCC credit . ~~Permi~~Conss~~s~~ultation ~~of~~ with~~e Ar~~the ~~History~~DVS ~~P~~Undere~~o~~gra~~m~~duate ~~Dir~~Counse~~ct~~llor prior to enrolment is required . For possible courses options with appropriate course content , please consult the DVS Undergraduate Counsellor .
7 . No more than a total of 16.0 credits of FAH may be completed .
8 . Recommended Language Study : Students wishing to pursue graduate studies in Art History must acquire a basic reading knowledge of at least two languages . A minimum of 2.0 credits in one language , or 1.0 credit each in two languages (for a total of 2.0 credits) is recommended . German , French , and Italian are recommended .

Rationale:

Updating program requirement to reflect the inclusion of VST410Y5. Students will be required to take 1.0 at the 400-level in FAH or VCC, VST410Y5 may not be used to fulfil this requirement.

ERMAJ0797: Cinema Studies - Major (Arts)

Completion Requirements:

Track Changes:

7.5 credits are required , including CIN101H5 , CIN102H5 , ISP100H5 , and 6.0 additional credits from CIN and / or cross-listed courses . Within the 6.0 additional credits :

- 2.0 credits must be at the 200-level ;
- 2.0 credits must be at the 300-level or above ; and
- 0.5 must be at the 400-level .

At least 5.0 credits must be CIN courses . Students must take a minimum of 1.0 credits in courses dedicated to “Auteurs , ” a minimum of 1.0 credits in courses dedicated to “Cinemas in Context , ” and a minimum of 1.0 credits in courses dedicated to “Genres.” A list of courses that count in each area is available on the Department website . Non-CIN courses may also count for credit in these areas with permission of the ~~p~~Undere~~o~~gra~~m~~ d~~irec~~uate Counsellor .

Recommended Structure of Program Requirements :

First Year :

- CIN101H5 and CIN102H5
- ISP100H5
- an optional 0.5 CIN credit at the 200-level

Second Year : 1.5-2.0 credits of CIN (or cross-listed courses) at the 200- and / or 300-level

Third Year : 2.0 credits of CIN (or cross-listed courses) at the 200-level or above

Fourth Year : 2.0 credits of CIN (or cross-listed courses) at the 300-level or above , including at least 0.5 credit at the 400-level

NOTE : Cross-listed courses may count for up to 2.0 credits toward the CIN Major . Non-cross-listed courses with significant Cinema Studies content in other programs may be allowed to count for program credit only with permission , prior to enrolment ,

from the ~~p~~Under~~o~~gra~~m~~ d~~irec~~uate Counsellor .

Cross-listed courses:

DRE350H5 Film Genres in Performance (HUM)
DRE352H5 Stage to Screen (HUM)
FRE393H5 French Society through Film (HUM)
FRE397H5 Colonialism and Post-colonialism in French Cinema (HUM)
GER353H5 German National Cinemas (HUM)
GER354H5 Topics in German Cinema Studies (HUM)
ITA242H5 Classics of Italian Cinema (HUM , INTLO)
ITA24~~6H5 Contemporary Italian Cinema I (HUM)~~
~~ITA24~~7H5 Contemporary Italian Cinema II (HUM)
ITA307H5 Modern Italian Literature and Cinema (HUM)
ITA313H5 Quentin Tarantino and the Spaghetti Western Effect (HUM)
ITA342H5 Post War Italian Cinema I : Mastering Neorealism (HUM)
ITA343H5 Post War Italian Cinema II : Moving Beyond Neorealism (HUM)
PHL221H5 Philosophy at the Movies (HUM)
RLG331H5 Religion on Screen (HUM)
SPA275H5 Latin American Cinema (HUM)
VCC205H5 Monsters (HUM)
VST410H5 or VST410Y5 Internship in Visual Studies (HUM~~, EXP~~)

Rationale:

Removing course since ITA246H5 was integrated with ITA247H5. Updating cross listed course - VST410Y5.

ERMIN0797: Cinema Studies - Minor (Arts)

Completion Requirements:

Track Changes:

4.0 credits are required, including at least 1.0 credit at the 300 level or above.

First Year: CIN101H5 and a further 0.5 credit in CIN at the 200 level.

Higher Years: 3.0 credits from any remaining CIN courses at the 200 level or above , VCC205H5 , VCC334H5 , VCC427H5 , VST410H5 , GER353H5 , GER354H5 , PHL221H5 .

NOTES :

1. A maximum of 1.0 credit may be taken from : DRE350H5 , DRE352H5 , FRE393H5 , FRE397H5 , ITA242H5 , ITA243H5 , ITA24~~6H5 , ITA24~~7H5 , ITA307H5 , ITA309H5 , ITA313H5 , ITA342H5 , ITA343H5 , RLG331H5 , SPA275H5 , WGS341H5 .
2. Some of the choices listed above are only available to students who are enrolled in a program sponsored by the Department or Unit offering the course , and / or who have completed the specified prerequisites .

Rationale:

ITA246H5 was integrated with ITA247H5 therefore removing the course.

University of Toronto Mississauga

SCI Curriculum Proposals Report

Winter 2023

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Anthropology (UTM), Department of

1 New Course

ANT280H5: Special Topics in Biological Anthropology and Archaeology

Contact Hours:
Lecture: 24 **/ Tutorial: / Practical: / Seminar:**

Description:

Special course on selected topics in biological anthropology and/or archaeology; focus of topic changes each year. The contact hours for this course may vary in terms of contact type (L,S,T,P) from year to year, but will be between 24-36 contact hours in total. See the UTM Timetable.

Distribution Requirements:
Science

CNC Allowed:
Y

Credit Value:
fixed: 0.5

Rationale:
Similar to our 300 level course shell, we are proposing a course shell at the 200 level so instructor can test out a new course before formally submitting it with a designated course code.

Consultation:
Circulated to department faculty members for feedback.

Estimated Enrolment:
100-150

Instructor:
N/A

Proposal Status:
Under Review

Biology (UTM), Department of

3 Course Modifications

BIO312H5: Plant Physiology

Contact Hours:

Track Changes: Lecture: ~~36~~24 / Tutorial: / Practical: ~~15~~27 / Seminar:

Rationale:

When the instructor began teaching this course in 2011 the department did not have all of the required lab equipment and therefore only three labs could be offered. As the course progressed and more equipment was purchased the labs increased to five labs, and finally to the current nine labs. The instructor has been teaching the course for the past few years with nine labs, but we have forgotten to revise the teaching hours in the calendar to match what is being taught in the lab. Lecture hours have also been redesigned since the beginning of the course so a reduction of lecture hours is also needed.

Consultation:

Biology Curriculum Committee and Prof. Ensminger (instructor)

Resources:

No new resources will be needed for the change in lab hours as we currently have all required equipment. TA hours will also not increase as we have been requesting the needed TA hours for the past few years.

BIO324H5: Plant Biochemistry

Prerequisites:

Track Changes:

~~BIO203H5 and~~ BIO206H5 and CHM120H5 or permission of instructor< / p>

Rationale:

The instructor would like to drop the BIO203 perquisite for this course. After teaching this course for the past five years, the instructor has realized that the reliance on BIO203 course material is not strict enough to justify a prerequisite that excludes many students and reduces enrollment. The instructor has also noticed that students who enrolled into the course with instructor permission (who had not completed BIO203 previously), have fared no worse than students who had completed BIO203. The course was also designed to attract CPS students and most students in that department are not required to complete BIO203. Dropping the BIO203 prerequisite would allow additional CPS students to enroll into the course.

Consultation:

Biology Curriculum Committee, Associate Chair of BIO

BIO475H5: Virology

Prerequisites:

Track Changes:

BIO206H5 or permission of instructor ~~and~~< / ~~(BIO370Y5 or BIO371H5 or BIO372H5)~~ p>

Recommended Preparation:

Track Changes:

~~BIO373H5~~

Rationale:

The instructor would like to change the current prerequisites and drop the recommended prep. Instructor has realized that the current prerequisites and recommended prep are a bit too restrictive and limit the number of students that take the course. Given the focus of the material covered in BIO475, the BIO206 (Introductory Cell and Molecular Biology) course should be a more appropriate prerequisite and there is no need to list BIo373 as recommended prep.

Consultation:

BIO Curriculum Committee, Associate Chair

4 Minor Program Modifications

ERMAJ1004: Paleontology - Major (Science)

Completion Requirements:

Track Changes:

First Year: BIO152H5, BIO153H5; CHM110H5 , CHM120H5 ; (MAT132H5 and MAT134H5) * or MAT134Y5 or (MAT135H5 and MAT136H5) or MAT135Y5 or (MAT137H5 and MAT139H5) or MAT137Y5 ; ENV100Y5 / ERS101H5 / ERS120H5 / ERS111H5

* Note - MAT132H5 and MAT134H5 - Calculus for Life Sciences is highly recommended .

Second Year: ~~(~~ BIO208H5 , BIO209H5 ~~)~~, BIO259H5 , ERS201H5 , ERS202H5 , ERS203H5 ~~;~~, ESS261H1 ~~; BIO259H5~~

Third ~~Year~~ and Fourth Years: ~~ERS325H5 ;~~ BIO354H5 , BIO356H5 , ERS325H5 , (ERS411H5 or ESS331H1)

Rationale:

ERS411H5 (Paloebiology) is a course offered through the UTM Earth Science department that we think will be a good addition to the Paleo program as a course option. Currently students are required to complete ESS331H1 on the St. George campus and there are times when traveling to the St.George campus is not possible for students. The addition of this course will give students the option of remaining at the UTM campus or attending the course downtown if they wish.

ERSPE0482: Comparative Physiology - Specialist (Science)

Completion Requirements:

Track Changes:

14.5 credits are required, including at least 5.0 at the 300 / 400 level , of which 1.0 credit must be at the 400 level .

First Year:

1. BIO152H5 and BIO153H5 < / li>
2. CHM110H5 and CHM120H5 < / li>
3. (MAT132H5 and MAT134H5) or MAT134Y5 or (MAT135H5 and MAT136H5) or MAT135Y5 or (MAT137H5 and MAT139H5) or MAT137Y5 < / li>
4. 1.0 credit from CLA201H5 or ENV100Y5 or ERS101H5 or PHY136H5 or PHY137H5 or PSY100Y5 or WRI173H5 or WRI307H5

Note : (MAT132H5 and MAT134H5) - Calculus for Life Sciences is highly recommended .

Second Year:

1. BIO202H5 and BIO203H5 and BIO205H5 and BIO206H5 and BIO207H5 and BIO208H5 and BIO209H5 and BIO259H5

Third and Fourth Years :

1. BIO304H5 and BIO310H5 and BIO312H5 and BIO360H5 and BIO409H5 ; < / li>
2. CHM242H5 and CHM243H5 < / li>
3. At least 2.0 credits from : BIO320H5 or BIO347H5 or BIO353H5 or BIO354H5 or BIO361H5 or BIO368H5 or BIO372H5 or BIO404H5 or BIO408H5 or BIO410H5 or BIO411H5 or BIO412H5 or BIO414H5 or BIO417H5 or BIO419H5 or BIO422H5 or BIO429H5 or BIO481Y5 or CHM361H5 or CHM362H5 or JCB487Y5 or PHY332H5 or PHY333H5 or PSY290H5 or PSY395H5 < / li>

4. 1.0 additional BIO credit taken at U of T Mississauga campus

No substitute statistics course will be allowed for BIO360H5 . Students may take no more than 2.0 credits combined in ROP , Internship Program , or Individual Project / Thesis courses at the 300 / 400-level for credit toward their Biology program . Students must consult with the Undergraduate Advisor before enrolling in any St . George course that they wish to use for credit toward any Biology program .

Rationale:

Bit of house keeping in that we previously forgot to add this course to the program as a course option. Instructor initiated request.

ERSPE1020: Ecology and Evolution - Specialist (Science)

Completion Requirements:

Track Changes:

14.5 credits are required , including at least 6.0 credits at the 300 / 400 level , of which 1.0 credits must be at the 400 level .

First Year:

1. BIO152H5 and BIO153H5 < / li>
2. CHM110H5 and CHM120H5 < / li>
3. (MAT132H5 and MAT134H5) or MAT134Y5 or (MAT135H5 and MAT136H5) or MAT135Y5 or (MAT137H5 and MAT139H5) or MAT137Y5 < / li>
4. 1.0 credit from : CLA201H5 or ENV100Y5 or ERS101H5 or PHY136H5 or PHY137H5 or PSY100Y5 or WRI173H5 or WRI307H5

Note : (MAT132H5 and MAT134H5) - Calculus for Life Sciences is highly recommended .

Second Year:

1. BIO202H5 and BIO203H5 and BIO205H5 and BIO206H5 and BIO207H5 and BIO259H5

Third and Fourth Years :

1. BIO313H5 and BIO342H5 and BIO360H5 and BIO443H5
2. 1.0 credit from courses in organismal biology : BIO325H5 or BIO326H5 or BIO339H5 or BIO353H5 or BIO354H5 or BIO356H5 or (BIO370Y5 or BIO371H5)
3. 0.5 credit from field courses : BIO332H5 or BIO416H5 or BIO444H5 other 2-week Ontario Universities Program in Field Biology (OUPFB) Courses
4. 2.0 credits from core ecology / evolutionary biology courses : BIO311H5 or BIO329H5 or BIO330H5 or BIO331H5 or BIO333H5 or BIO341H5 or BIO361H5 or BIO373H5 or BIO376H5 or BIO378H5 or BIO406H5 or BIO427H5 or BIO445H5 or BIO464H5 or GGR312H5 or JBH471H5
5. 1.0 credit from other UTM biology courses at the 300 / 400 level .
6. 1.0 credit from related courses from other departments : MAT222H5 or MAT232H5 or STA302H5 or STA322H5 or GGR227H5 or GGR278H5 or GGR305H5 or GGR307H5 or GGR309H5 or GGR311H5 or from courses listed in #4 , #5 and #6

Rationale:

Bit of house keeping as we had previously missed adding BIO353H5 as a course option to this program. Instructor initiated request.

ERSPE2364: Biology - Specialist (Science)

Completion Requirements:

Track Changes:

13.5 credits are required , including at least 6.0 credits at the 300 / 400 level , of which 1.0 credit must be at the 400 level .

First Year:

1. BIO152H5 and BIO153H5 < / li>
2. CHM110H5 and CHM120H5 < / li>
3. (MAT132H5 and MAT134H5) or MAT134Y5 or (MAT135H5 and MAT136H5) or MAT135Y5 or (MAT137H5 and MAT139H5) or MAT137Y5 < / li>
4. 1.0 credit from : CLA201H5 or ENV100Y5 or (ERS101H5 or ERS120H5) or PHY136H5 or PHY137H5 or PSY100Y5 or WRI173H5 or WRI307H5

Note - (MAT132H5 and MAT134H5) - Calculus for Life Sciences is highly recommended .

Second Year:

1. BIO202H5 and BIO203H5 and BIO205H5 and BIO206H5 and BIO207H5 and BIO259H5

Third and Fourth Years:

1. BIO313H5 or BIO314H5 or BIO409H5 < / li>
2. BIO360H5 < / li>
3. 5.5 additional UTM BIO credits . At least 5.0 of these credits must be at the 300 level or above , of which at least 1.0 must be at the 400 level

It is recommended that students in the specialist program include at least 0.5 credit from each of four of the following groups :

- Ecology and Field Biology: BIO311H5 or BIO312H5 or BIO313H5 or BIO329H5 or BIO330H5 or BIO331H5 or BIO333H5 or BIO373H5 or BIO376H5 or BIO378H5 or BIO412H5 or BIO416H5 or BIO444H5 or BIO464H5
- Biology of Whole Organisms: BIO325H5 or BIO326H5 or BIO329H5 or BIO353H5 or BIO354H5 or BIO356H5 or BIO376H5 or BIO378H5
- Genetics and Evolution: BIO329H5 or BIO341H5 or BIO342H5 or BIO347H5 or BIO407H5 or BIO422H5 or BIO427H5 or BIO443H5 or BIO445H5 or BIO464H5
- Cell, Molecular and Developmental Biology: BIO314H5 or BIO315H5 or BIO324H5 or BIO353H5 or BIO362H5 or (BIO370Y5 or BIO371H5) or BIO368H5 or BIO372H5 or BIO374H5 or BIO375H5 or BIO380H5 or BIO404H5 or BIO407H5 or BIO408H5 or BIO417H5 or BIO419H5 or BIO422H5 or BIO458H5 or BIO475H5 or BIO476H5 or BIO477H5
- Physiology and Behaviour: BIO208H5 or BIO304H5 or BIO310H5 or BIO312H5 or (BIO318Y5 or BIO328H5) or BIO320H5 or BIO324 or BIO368H5 or BIO405H5 or BIO408H5 or BIO409H5 or BIO410H5 or BIO411H5 or BIO414H5 or BIO429H5 or BIO434H5

Up to 1.0 credit may be taken from the following biology-related courses : GGR227H5 or GGR305H5 or GGR307H5 or GGR309H5 or GGR311H5 or GGR312H5 or CHM347H5 or CHM361H5 or CHM362H5 or CHM372H5 or CHM373H5 or PHY332H5 or PHY333H5 or PSY290H5 or PSY355H5 or PSY357H5 or PSY392H5 or PSY395H5 or PSY397H5 or ANT334H5 or ANT336H5 or ANT340H5 .

Additional courses: BIO361H5 or BIO400Y5 or BIO481Y5 or JCB487Y5

Rationale:

This is a bit of house cleaning in that we previously overlooked adding this course to the program as a course option. Instructor initiated request.

Chemical and Physical Sciences (UTM), Department of

2 Course Modifications

CHM412H5: Sensors, Sequencers, and Diagnostic Technologies

Title:

Track Changes: ~~A~~Sen~~alyti~~sors, Sequenc~~al M~~e~~thod~~rs, ~~of~~and ~~B~~Diagno~~mol~~stic Tec~~ule A~~hn~~a~~ol~~ys~~ogies

Rationale:

CHM412H5, once a popular senior level analytical chemistry course offering (reaching and enrolment of 20 in 2015), has suffered from declining course enrolments, particularly over the last few course offerings. This may in part owe to the rather ambiguous course name “Analytical Methods of Biomolecule Analysis” which does not paint a clear picture of the course contents. The new name should be more telling of the true focus of the course, which is related to teaching the design and function of diagnostic assays (including DNA sequencing technologies) for the determination of disease conditions and detection of disease-causing agents

CHM462H5: Revealing the Chemistry behind Biomolecules

Title:

Track Changes: ~~Ad~~Revealin~~c~~g the~~s in~~ Chemi~~cal~~stry behind Bio~~l~~mo~~gy~~lecules

Rationale:

The instructor proposed to change the name of CHM462. The current title is "Advances in Chemical Biology." The term "Advances" is not helpful or descriptive, and it old-fashioned. Moreover, CHM462 does not actually approach the topic of "chemical biology," which normally uses small, synthesized organic molecules to tweak biomolecules, like proteins, nucleic acids, cell membranes, etc. I cover larger biosystems, like protein structure and interactions with other biomolecules and nucleic acid mutations and libraries.

Mathematical and Computational Sciences (UTM), Department of

10 New Courses

CSC299H5: Research Opportunity Program

Description:

This course provides a richly rewarding opportunity for students in their second year to work in the research project of a professor in return for 299H course credit. Students enrolled have an opportunity to become involved in original research, learn research methods and share in the excitement and discovery of acquiring new knowledge. Participating faculty members post their project descriptions for the following summer and fall/winter sessions in early February and students are invited to apply in early March. See Research Opportunity Program (ROP) for more details.

Distribution Requirements:
Science

Rationale:
Sometimes we have particularly strong students, or short but intensive projects, for which an H course would serve better than a Y course.

CSC379H5: Introduction to Medical Robotics

Contact Hours:
Lecture: 24 **/ Tutorial: / Practical:** 12 **/ Seminar:**

Description:

This course examines medical robotics from an application driven perspective. Different categories of medical robots and related application principles for therapeutics are considered, with most examples drawn from surgical robotics. How computer methods assist physicians during their use of robotic treatments for patients is a central focus. These computer-assisted methods include treatment planning, patient registration, human-robot interaction, robot control and task execution. Methods will be implemented and explored in a practical environment including the use of real robots.

Prerequisites:

CSC209H5 and CSC376H5

Recommended Preparation:

CSC301H5 and CSC311H5

Distribution Requirements:
Science

Rationale:
These is no course offering so far to teach students robotics content with focus on medical applications. Robot-assisted surgery CAGR from 2018-22 is 19%, now reaching a total market size of 9 billion $. Additionally, medical robotics is a field that requires collaborative and safe robot methods which translates to another huge market in production and household applications. This will prepare the students to take on jobs in a new sector. Further on, the diversification of offered courses in 3rd/4th year is raise and prepares the department for a future major in robotics. The course will make use of the resource of the robotics teaching lab, and the teach lab engineer.

CSC399H5: Research Opportunity Program

Description:

This course provides a richly rewarding opportunity for students in their third or fourth year to work in the research project of a professor in return for 399H course credit. Students enrolled have an opportunity to become involved in original research, learn research methods and share in the excitement and discovery of acquiring new knowledge. Participating faculty members post their project descriptions for the following summer and fall/winter sessions in early February and students are invited to apply in early March. See Research Opportunity Program (ROP) for more details.

Distribution Requirements:

Science

Rationale:

Sometimes we have particularly strong students, or short but intensive projects, for which an H course would serve better than a Y course.

CSC495H5: Topics in Information Security

Contact Hours:

Lecture: 24 **/ Tutorial: / Practical: / Seminar:**

Description:

Introduction to a topic of current interest in robotics intended Information Security specialists, CSC majors and specialists. Content will vary from year to year but will always maintain a robotics focus. The contact hours for this course may vary in terms of contact type (L, T, P) from year to year, but will be between 24-48 contact hours in total. See the UTM Timetable.

Prerequisites:

CSC347H5. Additional required prerequisite(s) will be available on the UTM timetable along with the topic title prior to course registration.

Distribution Requirements:

Science

Rationale:

Some of our special topics courses these days are in the area of information security; this is a result of our increased hiring in this area. Students sometimes do not have the prerequisites for special topics information security courses, and it is hard for them to anticipate such gaps prior to our special topics courses being announced. Having a separate special topics course for information security will remedy this and clarify messaging to students. CSC347H5 is needed for any advanced study in information security.

Proposal Status:

Under Review

CSC499H5: Research Opportunity Program

Description:

This course provides a richly rewarding opportunity for students in their third or fourth year to work in the research project of a professor in return for 499H course credit. Students enrolled have an opportunity to become involved in original research, learn research methods and share in the excitement and discovery of acquiring new knowledge. Participating faculty members post their project descriptions for the following summer and fall/winter sessions in early February and students are invited to apply in early March. See Research Opportunity Program (ROP) for more details.

Distribution Requirements:

Science

Rationale:

Sometimes we have particularly strong students, or short but intensive projects, for which an H course would serve better than a Y course.

MAT299H5: Research Opportunity Program

Description:

This course provides a richly rewarding opportunity for students in their second year to work in the research project of a professor in return for 299H course credit. Students enrolled have an opportunity to become involved in original research, learn research methods and share in the excitement and discovery of acquiring new knowledge. Participating faculty members post their project descriptions for the following summer and fall/winter sessions in early February and students are invited to apply in early March. See Research Opportunity Program (ROP) for more details.

Distribution Requirements:

Science

Rationale:

MAT would like the ability to offer 0.5 credit/H length/scope ROP projects as this would be more likely to garner uptake in Fall/Winter and may align better with the nature of the research.

MAT399H5: Research Opportunity Program

Description:

This course provides a richly rewarding opportunity for students in their third or fourth year to work in the research project of a professor in return for 399H course credit. Students enrolled have an opportunity to become involved in original research, learn research methods and share in the excitement and discovery of acquiring new knowledge. Participating faculty members post their project descriptions for the following summer and fall/winter sessions in early February and students are invited to apply in early March. See Research Opportunity Program (ROP) for more details.

Distribution Requirements:

Science

Rationale:

MAT would like the ability to offer 0.5 credit/H length/scope ROP projects as this would be more likely to garner uptake in Fall/Winter and may align better with the nature of the research.

MAT499H5: Research Opportunity Program

Description:

This course provides a richly rewarding opportunity for students in their third or fourth year to work in the research project of a professor in return for 499H course credit. Students enrolled have an opportunity to become involved in original research, learn research methods and share in the excitement and discovery of acquiring new knowledge. Participating faculty members post their project descriptions for the following summer and fall/winter sessions in early February and students are invited to apply in early March. See Research Opportunity Program (ROP) for more details.

Distribution Requirements:

Science

Rationale:

MAT would like the ability to offer 0.5 credit/H length/scope ROP projects as this would be more likely to garner uptake in Fall/Winter and may align better with the nature of the research.

STA399H5: Research Opportunity Program

Description:

This course provides a richly rewarding opportunity for students in their third or fourth year to work in the research project of a professor in return for 399H course credit. Students enrolled have an opportunity to become involved in original research, learn research methods and share in the excitement and discovery of acquiring new knowledge. Participating faculty members post their project descriptions for the following summer and fall/winter sessions in early February and students are invited to apply in early March. See Research Opportunity Program (ROP) for more details.

Distribution Requirements:

Science

Rationale:

None of the STA lecture-type courses are Y courses. There is already low uptake/participation in STA ROP courses. There may be increased interest from supervising Faculty if the project scope/length was more reasonable (ie: 4 months during F/W as opposed to 8 months in F/W). STA would like the ability to offer 0.5 credit/H length/scope ROP projects as this would be more likely to garner uptake in Fall/Winter and may align better with the nature of the research. Enrolment limits (restriction) added to better align with Reading Courses.

STA499H5: Research Opportunity Program

Description:

This course provides a richly rewarding opportunity for students in their third or fourth year to work in the research project of a professor in return for 499H course credit. Students enrolled have an opportunity to become involved in original research, learn research methods and share in the excitement and discovery of acquiring new knowledge. Participating faculty members post their project descriptions for the following summer and fall/winter sessions in early February and students are invited to apply in early March. See Research Opportunity Program (ROP) for more details.

Distribution Requirements:

Science

Rationale:

None of the STA lecture-type courses are Y courses. There is already low uptake/participation in STA ROP courses. There may be increased interest from supervising Faculty if the project scope/length was more reasonable (ie: 4 months during F/W as opposed to 8 months in F/W). STA would like the ability to offer 0.5 credit/H length/scope ROP projects as this would be more likely to garner uptake in Fall/Winter and may align better with the nature of the research. Enrolment limits (restriction) added to better align with Reading Courses.

17 Course Modifications

CSC148H5: Introduction to Computer Science

Contact Hours:

Track Changes: Lecture: 3~~6~~8 **/ Tutorial: / Practical: / Seminar:**

Description:

Track Changes:

Abstract data types and data structures for implementing them . Linked data structures . Encapsulation and information-hiding . Object-oriented programming . Specifications . Analyzing the efficiency of programs . Recursion . This course assumes

programming experience in a language such as Python , C++ , or Java , as provided by CSC108H5 . ~~Students who already have this background may consult the Computer Science faculty advisor for advice about skipping CSC108H5 .~~

Rationale:

1. We make like 0-1 exceptions a year. This year, many students asked, we made zero exceptions.
2. Adding two hours lecture time for this multi-lecture course. This change will allow us to have a fixed test time across all LEC sections.

CSC299Y5: Research Opportunity Program

Description:

Track Changes:

This course~~s~~ provides a richly rewarding opportunity for students in their second year to work in the research project of a professor in return for 299Y course credit . Students enrolled have an opportunity to become involved in original research , learn research methods and share in the excitement and discovery of acquiring new knowledge . Participating faculty members post their project descriptions for the following summer and fall / winter sessions in early February and students are invited to apply in early March. See ~~Exp~~Re~~ri~~se~~nti~~al ~~and Inter~~national~~ch Opportunit~~ies~~y Program (ROP) for more details.

Rationale:

Adding enrollment control and directing students appropriately

CSC375H5: Algorithmic Intelligence in Robotics

Prerequisites:

Track Changes:

~~CSC209H5 and (MAT223H5 or MAT240H5) and~~ (STA246H5 or STA256H5) and CSC376H5

Recommended Preparation:

Track Changes:

~~CSC258H5 and~~ CSC301H5

Rationale:

CSC209H5 and (MAT223H5 or MAT240H5) and CSC258H5 are pre-requisites for CSC376H5.

CSC392H5: Computer Science Implementation Project

Note:

Previous:

New:

Only UTM students may enroll in this course. If you are a student at a different campus, you can work with UTM professors but please enroll in your campus's independent study or project course.

Rationale:

Add this note to clarify who can enrol in these courses.

CSC393H5: Computer Science Expository Work

Note:

Previous:

New:
Only UTM students may enroll in this course. If you are a student at a different campus, you can work with UTM professors but please enroll in your campus's independent study or project course.

Rationale:
Add this note to clarify who can enrol in these courses.

CSC399Y5: Research Opportunity Program

Description:
Track Changes:

This course provides a richly rewarding opportunity for students in their third or fourth year to work in the research project of a professor in return for 399Y course credit . Students enrolled have an opportunity to become involved in original research , learn research methods and share in the excitement and discovery of acquiring new knowledge . Participating faculty members post their project descriptions for the following summer and fall / winter sessions in early February and students are invited to apply in early March. See See ~~Exp~~Re~~ri~~se~~nti~~a~~l and Inte~~rnational~~ch Opportuni~~ies~~y Program (ROP) < / a> for more details.

Rationale:
Directing students appropriately.

CSC492H5: Computer Science Implementation Project

Note:
Previous:

New:
Only UTM students may enroll in this course. If you are a student at a different campus, you can work with UTM professors but please enroll in your campus's independent study or project course.

Rationale:
Add this note to clarify who can enrol in these courses.

CSC493H5: Computer Science Expository Work

Note:
Previous:

New:
Only UTM students may enroll in this course. If you are a student at a different campus, you can work with UTM professors but please enroll in your campus's independent study or project course.

Rationale:
Add this note to clarify who can enrol in these courses.

CSC499Y5: Research Opportunity Program

Description:

Track Changes:

This course provides a richly rewarding opportunity for students in their third or fourth year to work in the research project of a professor in return for 499Y course credit. Students enrolled have an opportunity to become involved in original research , learn research methods and share in the excitement and discovery of acquiring new knowledge . Participating faculty members post their project descriptions for the following summer and fall / winter sessions in early February and students are invited to apply in early March . See ~~Exp~~Re~~ri~~se~~ntial a~~nd Inte~~rn~~ational~~ch Opportunit~~ies~~y Program (ROP) for more details.

Rationale:

Directing students appropriately.

MAT399Y5: Research Opportunity Program

Description:

Track Changes:

This course~~s~~ provides a richly rewarding opportunity for students in their third or fourth year to work in the research project of a professor in return for 399Y course credit . Students enrolled have an opportunity to become involved in original research , learn research methods and share in the excitement and discovery of acquiring new knowledge . Participating faculty members post their project descriptions for the following summer and fall / winter sessions in early February and students are invited to apply in early March . See ~~Exp~~Re~~ri~~se~~nti~~a~~l and Inte~~rn~~ational~~ch Opportunit~~ies~~y Program (ROP) for more details .

Prerequisites:

Track Changes:

~~Departmental permission.~~

Rationale:

House-keeping language update for clarity. “Departmental permission” was inaccurate as the administration is handled through EEU, and prerequisites are posted on their website (with input from us). Adding Enrolment Limits to mimic and be consistent with Reading Courses.

MAT499Y5: Research Opportunity Program

Description:

Track Changes:

This course~~s~~ provides a richly rewarding opportunity for students in their third or fourth year to work in the research project of a professor in return for 499Y course credit. Students enrolled have an opportunity to become involved in original research , learn research methods and share in the excitement and discovery of acquiring new knowledge . Participating faculty members post their project descriptions for the following summer and fall / winter sessions in early February and students are invited to apply in early March . See ~~Exp~~Re~~ri~~se~~nti~~a~~l and Inte~~rn~~ational~~ch Opportunit~~ies~~y Program (ROP) for more details .

Prerequisites:

Track Changes:

~~Departmental permission.~~

Rationale:

House-keeping language update for clarity. “Departmental permission” was inaccurate as the administration is handled through EEU, and prerequisites are posted on their website (with input from us). Adding Enrolment Limits to mimic and be consistent with Reading Courses.

STA348H5: Introduction to Stochastic Processes

Prerequisites:

Track Changes:

(STA260H5 or STA238H1 or ECO227Y5) and (MAT223H5 or MAT240H5)

Rationale:

Adding relevant St. G or non-STA courses as they are often accepted when doing prerequisite checks anyway and are relevant/appropriate preparation for STA348H5. Updated “Enrolment Limits” language to accurately reflect name of discipline.

STA378H5: Statistics Research Project

Prerequisites:

Track Changes:

~~Departmental~~STA260H5 / STA261H1 / STAB57H3 , permission of instructor , department and a minimum CGPA of 2.50.< / p>

Rationale:

STA260 is foundational 200-level course, necessary course to understand technical aspects of research topics/projects. Also changing ‘Enrolment Limits’ to reflect bit more limitation on students permitted to take courses, as those in specialists and majors would be better prepared/suited for such research projects.

STA398H5: Statistics Research Project

Prerequisites:

Track Changes:

~~Departmental~~STA260H5 / STA261H1 / STAB57H3 , permission of instructor , department and a minimum CGPA of 2.50.

Rationale:

STA260H5 is foundational 200-level course, necessary course to understand technical aspects of research topics/projects. Also changing ‘Enrolment Limits’ to reflect bit more limitation on students permitted to take courses, as those in specialists and majors would be better prepared/suited for such research projects.

STA399Y5: Research Opportunity Program

Description:

Track Changes:

This course provides a richly rewarding opportunity for students in their ~~sec~~third or fo~~nd~~urth year to work in the research project of a professor in return for ~~2~~399Y course credit . Students enrolled have an opportunity to become involved in original research , learn research methods and share in the excitement and discovery of acquiring new knowledge . Participating faculty members post their project descriptions for the following summer and fall / winter sessions in early February and students are invited to apply in early March. See ~~Exp~~Re~~ri~~se~~nti~~a~~l and Inte~~rnational~~ch Opportunit~~ies~~y Program (ROP) for more details .

Prerequisites:

Track Changes:

~~Permission of instructor and department.~~

Rationale:

Updating wording to add clarity and accuracy. Removing co-reqs to be consistent with all ROP courses in MCS (this information will be provided to EEU for publishing in online doc on the ROP site instead). Also changing 'Enrolment Limits' to reflect bit more limitation on students permitted to take courses, as those in specialists and majors would be better prepared/suited for such research projects.

STA478H5: Statistics Research Project

Prerequisites:

Track Changes:

~~Departmental~~STA302H5 / STA302H1 / STAC67H3 , permission of instructor , department and a minimum CGPA of 2.50.< / p>

Rationale:

STA302H5 is foundational course of any 400-level research topic/project, and needed in most data analysis. This will give the student a solid background to be successful in a reading course. Also changing 'Enrolment Limits' to reflect bit more limitation on students permitted to take courses, as those in specialists and majors would be better prepared/suited for such research projects.

STA498H5: Statistics Research Project

Prerequisites:

Track Changes:

~~Departmental~~STA302H5 / STA302H1 / STAC67H3 , permission of instructor , department and a minimum CGPA of 2.50.< / p>

Rationale:

STA302H5 is foundational course of any 400-level research topic/project, and needed in most data analysis. This will give the student a solid background to be successful in a reading course. Also changing 'Enrolment Limits' to reflect bit more limitation on students permitted to take courses, as those in specialists and majors would be better prepared/suited for such research projects.

1 Course Retirement

CSC475H5: Introduction to Reinforcement Learning

Rationale:

Remove this course. It is a duplicate course with CSC415H5.

8 Minor Program Modifications

ERMAJ1540: Applied Statistics - Major (Science)

Completion Requirements:

Track Changes:

7.0-7.5 credits are required .

First Year:

1. CSC108H5 < / li>
2. MAT102H5 < / li>
3. [(MAT132H5 or MAT135H5 or MAT137H5 or MAT157H5) and (MAT134H5 or MAT136H5 or MAT139H5 or MAT159H5)] or MAT134Y5 or MAT135Y5 or MAT137Y5 or MAT157Y5 < / li>
4. MAT223H5 or MAT240H5

Second Year:

1. MAT232H5 or MAT233H5 or MAT257Y5 < / li>
2. STA256H5 and STA258H5 and STA260H5

Higher Years:

1. STA302H5 and STA304H5 and STA305H5 < / li>
2. 1.0 credit from any 300 / 400 level STA course or CSC322H5 or (CSC311H5 or CSC411H5) or MAT302H5 or MAT311H5 or MAT332H5 or MAT334H5 or MAT344H5 or (MAT337H5 or MAT378H5)

NOTES :

1. MAT133Y5 is included in the credit count only if the student also completes MAT233H5 (in which case MAT232H5 is not required) . < / li>
2. Students are strongly encouraged to familiarize themselves with the 100-level calculus pre-requisites to select the correct courses . < / li>
3. ECO220Y5 cannot be substituted for STA256H5 or STA258H5 and / or STA260H5 . < / li>
4. ECO227Y5 can be substituted for STA256H5 and STA258H5 , but not for STA260H5 . < / li>
5. STA107H5 is highly recommended in first year , but it is not required . < / li>
6. MAT337H5 or MAT378H5 is highly recommended for students intending to pursue graduate level studies in statistics . < / li>
7. Students in the Applied Statistics Major may take at most 0.5 credit of STA Reading or Independent Study courses at either the 300- or 400-level . < / li>
8. STA246H5 will not be permitted as a pre-requisite for any other 200+ level STA courses . In addition , STA246H5 cannot be used towards any program (s) in Applied Statistics or Mathematics . The course is intended only for students in Computer Science programs who will not need STA256H5 for other program requirements .

Rationale:

In 2022, there has been an uptick in application to Reading/Independent Study courses; with some students wanting to complete 2 in one term or greater than 2 throughout their degree. We wish to ensure that these courses remain meaningful, and rigorous, and thus wish to add limitations on the amount that students can take in our specialist/major programs.

ERMAJ2511: Mathematical Sciences - Major (Science)

Completion Requirements:

Track Changes:

8.0 credits are required .

First Year:

1. MAT102H5 < / li>

2. [(MAT132H5 or MAT135H5 or MAT137H5 or MAT157H5) and (MAT134H5 or MAT136H5 or MAT139H5 or MAT159H5)] or MAT134Y5 or MAT135Y5 or MAT137Y5 or MAT157Y5 < / li>
3. MAT223H5 or MAT240H5

Second Year:

1. MAT202H5 and MAT244H5
2. [(MAT232H5 or MAT233H5) and MAT236H5] or MAT257Y5
3. MAT224H5 or MAT247H5

Higher Years:

1. MAT301H5 and (MAT334H5 or MAT354H5) < / li>
2. MAT337H5 or MAT378H5 or MAT392H5 or MAT405H5 < / li>
3. MAT305H5 or MAT311H5 or MAT332H5 < / li>
4. MAT302H5 or MAT315H5 or MAT344H5 < / li>
5. STA256H5 or CSC363H5 or 0.5 credit of MAT at the 300 /-400 level , except MAT322H5 < / li>
6. 0.5 additional credits in MAT at the 400 level

NOTES:

1. MAT137H5 and MAT139H5 are recommended . < / li>
2. Students are strongly encouraged to familiarize themselves with the 100-level calculus pre-requisites to select the correct courses . < / li>
3. Mathematical Majors are strongly encouraged to enroll in MAT240H5 followed by MAT247H5.

Rationale:

CSC363H5 covers sufficiently high-level theoretical mathematics that it should count for credit in all math programs. This change will typically benefit students already enrolled in CSC major or specialist, who also want to complete a MAT major. Also, this brings some consistency with what is allowed at the 300+ level in MAT specialist (can take 300+ level courses in CSC or STA, in addition to MAT).

ERMIN1540: Applied Statistics - Minor (Science)

Completion Requirements:

Track Changes:

4.5 - 5.0 credits are required .

First Year: MAT133Y5 or [(MAT132H5 or MAT135H5 or MAT137H5 or MAT157H5) and (MAT134H5 or MAT136H5 or MAT139H5 or MAT159H5)] or MAT134Y5 or MAT135Y5 or MAT137Y5 or MAT157Y5

Higher Years:

1. ~~1~~0.~~0~~5 credit ~~made up~~ of any ~~combination of (PSY201H5 and PSY202H5) or (BIO360H5 and BIO361H5) or SOC350H5 or ECO220Y5 or any~~ STA course~~s~~ other than STA256H5 and STA258H5 and STA260H5 (see Note #1)
2. MAT232H5 or MAT233H5 or MAT257Y5 <br / ~~li~~>3
3. STA256H5 and STA258H5 and STA260H5 <br / ~~li~~>4
4. 1.0 additional credit of STA at the 300 / 400 level

NOTES:

1. For Higher Years ~~/~~#1 ~~>~~, st~~ar~~udent~~B~~s who include ~~NO~~ST~~E~~A107H5 , STA220H5 ~~:~~and / or STA221H5 in this program are responsible for ensuring that these courses are completed~~B~~ prior to enrolling in STA256H5 and / or ~~/~~STA258H5 ~~>~~. ~~<~~Students should be familiar ~~/~~with ~~>~~all ~~<~~the course prerequisites and exclusions . < / li>
2. Students are strongly encouraged to familiarize themselves with the 100-level calculus pre-requisites to select the correct courses . < / li>
3. ECO220Y5 cannot be substituted for STA256H5 and / or STA258H5 and / or STA260H5 . < / li>
4. ECO227Y5 can be substituted for STA256H5 and STA258H5 , but not for STA260H5 . < / li>

5. ~~Students who include any of PSY201H5 or PSY202H5 or BIO360H5 or BIO361H5 or SOC350H5 or ECO220Y5 in this program are responsible for ensuring that these courses are completed prior to enrolling in STA256H5 and that all STA course prerequisites and exclusions are met . < / li>~~
6. ~~S~~TA246H5 will not be permitted as a pre-requisite for any other 200+ level STA courses . In addition , STA246H5 cannot be used towards any program (s) in Applied Statistics or Mathematics . The course is intended only for students in Computer Science programs who will not need STA256H5 for other program requirements . < / li>
7. Note that Reading or Independent Study courses may not count towards the Applied Statistics minor .

Description of Proposed Changes:

Adding STA260H5 to the list of mandatory 200-level STA courses in Applied Statistics minor; also rewording the program requirement needing non-STA courses to remove specificity/promotion of statistics courses like PSY201H5, 202H5 etc., seeing as the related category now only needs 0.5 credits. One NOTE reworded to add clarity for course planning and exclusion purposes. Adding new NOTE to align with STA Reading Course change proposals (restriction of Reading Courses to only majors and specialists).

Rationale:

STA260H5 is an important statistics course. It is a prerequisite of most of 300+ level STA courses. Currently, STA304H5 and STA360H5 are the only 300/400 level courses that do not require STA260H5 as a prerequisite. Thus, this adjustment makes it possible for (STA minor) students to take most 300+ level courses. Adding new NOTE to align with STA Reading Course change proposals (restriction of Reading Courses to only majors and specialists).

ERMIN1688: Computer Science - Minor (Science)

Completion Requirements:

Track Changes:

4.0 credits are required.

First Year: CSC108H5 and CSC148H5 and MAT102H5

Second Year:
1. CSC207H5 and CSC236H5
2. One of CSC209H5 or CSC258H5 or CSC263H5

Third and Fourth Years: 1.0 credit from any 300 / 400 level CSC course (except for CSC392H5 and CSC393H5 and CSC492H5 and CSC493H5) or GGR335H5 or GGR337H5 or GGR437H5 . No more than 0.5 credit of GGR courses may count to this requirement.

NOTES:

1. Students in the CSC minor are limited to 1.5 credits of computer science courses at the 300 / 400-level . Enrolment in additional CSC courses is restricted to students in CSC specialist and major programs. < / li>
2. Only CSC148H5 and MAT102H5 , taken at the UTM campus , will be accepted .
3. CSC Minor can take no more than one of CSC392H5 or CSC393H5 or CSC492H5 or CSC493H5

Rationale:

CS minors are not allowed to use reading courses to meet program requirements. At the same time, they are limited to 1.5 credits of computer science courses at the 300/ 400-level. CSC minors would have room to take 1.0 CSC required credits at the 300/400L when they only take a reading course.

ERMIN2511: Mathematical Sciences - Minor (Science)

Completion Requirements:

Track Changes:

4.0 credits ~~in MAT~~ are required~~, including 1.0 credit of MAT at the 300 / 400 level~~ .

First Year:

1. MAT102H5 < / li>

2. [(MAT132H5 or MAT135H5 or MAT137H5 or MAT157H5) and (MAT134H5 or MAT136H5 or MAT139H5 or MAT159H5)] or MAT134Y5 or MAT135Y5 or MAT137Y5 or MAT157Y5

Second Year:

1. MAT223H5 or MAT240H5 < / li>
2. [MAT232H5 and (MAT202H5 or MAT224H5 or MAT236H5 or MAT240H5 or MAT244H5 or MAT247H5 or CSC236H5)] or MAT257Y5

Higher Years:

1. 1.0 credit from the following : MAT at the 300+ / 400 level or CSC363H5

NOTES:

1. MAT223H5 or MAT240H5 may be taken in the first year . < / li>
2. Students may replace the combination [(MAT132H5 or MAT135H5 or MAT137H5 or MAT157H5) and (MAT134H5 or MAT136H5 or MAT139H5 or MAT159H5)] or MAT134Y5 or MAT135Y5 or MAT137Y5 or MAT157Y5 and MAT232H5 with the combination (MAT133Y5 and MAT233H5)
3. Students are strongly encouraged to familiarize themselves with the 100-level calculus pre-requisites to select the correct courses.

Description of Proposed Changes:

1) Adjustment to language at top of MAT minor for clarity. 2) Adding CSC363H5 to possible 300+ level courses that MAT minors can take.

Rationale:

1) [top note re credits]This is more consistent with MAT Specialist and Major (and CSC and Stats). The option of taking CSC236 means that “4.0 credits in MAT” is not accurate. 2) CSC363H5 covers sufficiently high-level theoretical mathematics that it should count for credit in all math programs. This change will typically benefit students already enrolled in CSC major or specialist, who also want to complete a MAT minor. Also this brings some consistency with what is allowed at the 300+ level in MAT specialist (can take 300+ level courses in CSC or STA, in addition to MAT).

ERSPE1038: Information Security - Specialist (Science)

Completion Requirements:

Track Changes:

12.5-13.0 credits are required.

First Year:

1. CSC108H5 and CSC148H5 and ISP100H5 < / li>
2. MAT102H5 < / li>
3. [(MAT132H5 or MAT135H5 or MAT137H5 or MAT157H5) and (MAT134H5 or MAT136H5 or MAT139H5 or MAT159H5)] or MAT134Y5 or MAT135Y5 or MAT137Y5 or MAT157Y5 or MAT233H5 < / li>
4. MAT223H5 or MAT240H5

Second Year:

1. CSC207H5 and CSC209H5 and CSC236H5 and CSC258H5 and CSC263H5 < / li>
2. MAT224H5 or MAT240H5 < / li>
3. MAT232H5 or MAT257Y < / li>
4. STA246H5 or STA256H5 or ECO227Y5

Third Year:

1. CSC343H5 and CSC347H5 and CSC363H5 and CSC369H5 and CSC373H5 < / li>
2. MAT301H5 and MAT302H5

Fourth Year:

1. CSC358H5 or CSC458H5
2. 1.0 credit from the following: CSC409H5 or CSC422H5 or CSC423H5 or CSC427H5 or CSC490H5 or CSC495H5

NOTES:

1. In addition to the course requirements above , students must complete an integrative learning experience . This requirement may be met by participating in the Professional Experience Year (PEY) Co-op program * or by completing one of the following half-courses : CSC318H5 , CSC367H5 , CSC375H5 , CSC376H5 , CSC409H5 , CSC420H5 , CSC427H5 , CSC477H5 , CSC490H5 .

* Please be advised that the PEY Co-op Program only applies to UTM Computer Science students in their second year of study . For more information about the PEY Co-op Program , including eligibility requirements , please visit the Experiential and International Opportunities < / a> page of the UTM Academic Calendar .

2. Students are strongly encouraged to familiarize themselves with the 100-level calculus pre-requisites to select the correct courses .

Rationale:

Adding CSC495H5 so that students would have more courses to choose from.

ERSPE1540: Applied Statistics - Specialist (Science)

Completion Requirements:

Track Changes:

12.0-12.5 credits are required .

First Year:

1. CSC108H5 < / li>
2. MAT102H5 < / li>
3. [(MAT132H5 or MAT135H5 or MAT137H5 or MAT157H5) and (MAT134H5 or MAT136H5 or MAT139H5 or MAT159H5)] or MAT134Y5 or MAT135Y5 or MAT137Y5 or MAT157Y5 < / li>
4. MAT223H5 or MAT240H5

Second Year:

1. MAT232H5 or MAT233H5 or MAT257Y5 < / li>
2. MAT244H5 < / li>
3. STA256H5 and STA258H5 and STA260H5

Higher Years:

1. STA302H5 and STA304H5 and STA305H5 and STA348H5 < / li>
2. 2.0 credits of STA at the 300 / 400 level STA course < / li>
3. 2.0 credits from CSC322H5 or (CSC311H5 or CSC411H5) or MAT302H5 or MAT311H5 or MAT332H5 or MAT334H5 or MAT344H5 or (MAT337H5 or MAT378H5) < / li>
4. 1.0 credit of STA

NOTES:

1. MAT133Y5 is included in the credit count only if the student also completes MAT233H5 (in which case MAT232H5 is not required) . < / li>
2. Students are strongly encouraged to familiarize themselves with the 100-level calculus pre-requisites to select the correct courses . < / li>
3. ECO220Y5 cannot be substituted for STA256H5 or STA258H5 or STA260H5 . < / li>
4. ECO227Y5 can be substituted for STA256H5 and STA258H5 , but not for STA260H5 . < / li>

5. STA107H5 is highly recommended in first year , but it is not required . < / li>
6. MAT337H5 or MAT378H5 is highly recommended for students intending to pursue graduate level studies in statistics . < / li>
7. Students in the Applied Statistics Specialist may take at most 1.0 credit of STA Reading or Independent Study courses at either the 300- or 400-level . < / li>
8. STA246H5 will not be permitted as a pre-requisite for any other 200+ level STA courses . In addition , STA246H5 cannot be used towards any program (s) in Applied Statistics or Mathematics . The course is intended only for students in Computer Science programs who will not need STA256H5 for other program requirements.

Rationale:

In 2022, there has been an uptick in application to Reading/Independent Study courses; with some students wanting to complete 2 in one term or greater than 2 throughout their degree. We wish to ensure that these courses remain meaningful, and rigorous, and thus wish to add limitations on the amount that students can take in our specialist/major programs.

ERSPE2511: Mathematical Sciences - Specialist (Science)

Completion Requirements:

Track Changes:

13.5 credits are required .

First Year:

1. CSC108H5 and CSC148H5 < / li>
2. MAT102H5 and MAT240H5 < / li>
3. [(MAT137H5 or MAT157H5) and (MAT139H5 or MAT159H5)] or MAT137Y5 or MAT157Y5

Second Year:

1. CSC236H5 < / li>
2. MAT202H5 and MAT244H5 and MAT247H5 and MAT257Y5 < / li>
3. STA256H5 and (STA258H5 or STA260H5)

Higher Years:

1. MAT301H5 and (MAT334H5 or MAT354H5) and MAT392H5 < / li>
2. MAT302H5 or MAT315H5 < / li>
3. 2.0 additional credit from MAT302H5 or MAT309H5 or MAT311H5 or MAT315H5 or MAT332H5 or (MAT337H5 or MAT378H5) or MAT344H5 < / li>
4. 1.0 additional credits in MAT at the 400 level (MAT401H5 is recommended) < / li>
5. 1.0 additional credits at the 300 / 400 level in CSC or ~~MA~~STA ~~/~~or ~~ST~~MAT , except ">MAT322H5 < / a> < / li>
6. 0.5 additional credits in MAT at the 300+level, except MAT322H5

NOTES:

1. Mathematical Science Specialists are strongly encouraged to enroll in MAT157H5 , MAT159H5 , MAT257Y5 , and MAT354H5 . < / li>
2. Students are strongly encouraged to familiarize themselves with the 100-level calculus pre-requisites to select the correct courses . < / li>
3. Students may replace MAT257Y5 with [(MAT232H5 or MAT233H5) and MAT236H5 ~~)~~] , but if they do then MAT337H5 AND MAT405H5 are required as part of “Higher Years” . < / li>
4. Students who do not feel ready for MAT257Y5 in their Second Year , may wish to take MAT232H5 that year , and then take MAT257Y5 in their Third Year.

Rationale:

Grammatical change to align with wording in other MCS programs; the “/” between MAT and STA was unnecessary, redundant.

Psychology (UTM), Department of

3 Course Modifications

PSY290H5: Introduction to Neuroscience

Exclusions:

Track Changes:

PSY290H1 or PSYB64H3 or HMB200H1

Rationale:

Updating the abbreviated title to reflect previous changes to the title of the course.

Adding HMB200H1 (UTSG) to the list of exclusionary courses

PSY389H5: Perception Laboratory

Prerequisites:

Track Changes:

PSY202H5 (or equivalent) and (PSY280H5 or PSY290H5)

Rationale:

Expanding prerequisites in PSY389H5 (currently PSY280H5) to include PSY280H5 or PSY290H5. Expanding the list of prerequisites will make more students eligible to take PSY389H5.

PSY395H5: Hormones and Behaviour

Description:

Track Changes:

~~A~~ This course is an introduction to the field of Behavioural Neu~~at~~roendocrinolo~~n~~gy; the study of relationships between hormones , the ~~ho~~ner~~m~~vo~~nal~~us system , and ~~brain /~~ behaviour in a variety of species from ~~(~~a ~~in~~c~~luding hu~~ompa~~ns)~~rative perspective . Behavioural / functional systems ~~to be considered~~may include ~~the~~ reproductive behaviour~~s~~ , ~~(~~ s~~exu~~ocial ~~and mat~~be~~rnal) ,~~ ha~~ggressv~~io~~n ~~, ci~~r~~cadian rhythms~~ , ~~seas~~biolo~~n~~gical rhythms , eating , a~~ffective~~nd st~~at~~res~~ ,~~s ~~learning and memory~~ . < ~~[~~/ ~~24L 12P]~~ p>

Rationale:

We are updating the description to more accurately reflect the focus and content of the course.

Study of University Pedagogy (UTM), Institute for the

3 Course Modifications

UTM108H5: utmONE: Special Topics at the Intersection of Science and Social Science

Description:

Track Changes:

This course brings together first-year students to explore a current topic or problem at the intersection of science and social science in a small-group environment . The focus of each section will depend on the instructor's areas of expertise and will provide students with the opportunity to develop foundational learning strategies and sharpen their academic skills to support the transition into university . Students participate in a series of tutorials that will help them build foundational skills for academic success such as creating study plans , taking notes , reading critically , and developing a growth mindset.

Rationale:

We are adding a standard line in the description for all utmONE Foundations courses as a reflection of the updated skills-building tutorials that these courses offer.

UTM111H5: utmONE: Tools of the Trade

Description:

Track Changes:

This course is an introduction to the common problem-solving tools used in the sciences and social sciences . It is designed to address the fundamental skills needed for comprehension and effective communication in these areas . The skills being addressed may include critical analysis of texts (primary literature , review papers , textbooks) , use of databases to gather , manipulate and visualize data; interpretation and presentation of data; information gathering and writing skills (lab reports , critical essays) ; and oral presentations . Specific examples will be drawn from a variety of current research topics in both the sciences and social sciences . ~~As part of this course s~~Students ~~will~~ participate in a series of tutorials that will help them build foundational skills for academic success ~~(~~such as creating study plan~~der~~s , ta~~nd~~king not~~h~~es ~~value~~, ~~of h~~reading~~her edu~~ca~~r~~iti~~on~~cally , and developing a growth mindset ~~, and finding passion)~~ . ~~[24L ,~~ < ~~12T~~/ ~~]~~ p>

Exclusions:

Track Changes:

UTM108H5 or UTM109H5 or UTM110H5 or UTM112H5 or UTM113H5 or UTM114H5 or UTM115H5 or UTM116H5 or UTM117H5 or UTM118H5 or UTM119H5 or UTM190H5 or UTM191H5 or UTM192H5 or UTM193H5 or UTM194H5 or UTM195H5 or UTM196H5 or UTM197H5< / p>

Rationale:

We are adding a standard line in the description for all utmONE Foundations courses as a reflection of the updated skills-building tutorials that these courses offer.

UTM118H5: utmONE: Science of Learning

Description:

Track Changes:

This interdisciplinary course encourages students to take ownership of their education through a focus on the process of learning how to learn and by cultivating the habits of mind for lifelong achievement and success . Students will explore theories of learning and research on the strategies students should employ to reach deep understanding . "Science of Learning" is designed to help students develop their critical thinking , university-level oral and written communication , critical reading , and other foundational academic skills . ~~As part of this course s~~Students ~~will~~ participate in a series of tutorials that will help them build foundational skills for academic success ~~(~~such as creating study plan~~der~~s , ta~~nd~~king not~~h~~es ~~value~~, ~~of h~~reading~~her edu~~ca~~r~~iti~~on~~cally , and developing a growth mindset ~~, and finding passion)~~ . ~~[24L ,~~ < ~~12T~~/ ~~]~~ p>

Exclusions:

Track Changes:

UTM108H5 or UTM109H5 or UTM110H5 or UTM111H5 or UTM112H5 or UTM114H5 or UTM115H5 or UTM116H5 or UTM117H5 or UTM119H5 or UTM190H5 or UTM191H5 or UTM192H5 or UTM193H5 or UTM194H5 or UTM195H5 or UTM196H5 or UTM197H5< / p>

Rationale:

We are adding a standard line in the description for all utmONE Foundations courses as a reflection of the updated skills-building tutorials that these courses offer.

University of Toronto Mississauga

SSC Curriculum Proposals Report

Winter 2023

Table of Contents

Anthropology (UTM), Department of

3 New Courses

ANT281H5: Special Topics in Sociocultural and Linguistic Anthropology

Contact Hours:
Lecture: 24 **/ Tutorial: / Practical: / Seminar:**

Description:

Special course on selected topics in sociocultural and/or linguistic anthropology; focus of topic changes each year. The contact hours for this course may vary in terms of contact type (L,S,T,P) from year to year, but will be between 24-36 contact hours in total. See the UTM Timetable.

Distribution Requirements:
Social Science

Rationale:
Similar to our 300 level course shell, we are proposing a course shell at the 200 level so instructor can test out a new course before formally submitting it with a designated course code.

ANT371H5: The Natural City: Cultural Approaches to Urban Sustainability

Contact Hours:
Lecture: 24 **/ Tutorial: / Practical: / Seminar:**

Description:

Since 2007, for the first time in human history, more than half the world's peoples live in cities. It is estimated that by 2030 over 60% will be urban dwellers. This demographic shift suggests that for many (if not most) people, their primary encounter with "nature" will be urban-based. This course explores "the city" through a multispecies lens and challenges assumptions about the human-centeredness (anthropocentrism) of urban places. In this course students are invited to utilize a variety of approaches, including arts-based ethnography, journaling, archival research, photography, sound-scaping, et al., as we explore the following questions: How do ideas about nature-culture shape our interactions with nonhumans in cities? How do built environments structure human-nonhuman relationships in urban spaces? How have human-nonhuman interactions changed over time in cities? How can we foster more compassionate and caring relationships with nonhumans in cities - and how might we do this in the context of social-ecological injustices and climate change? What might a thriving multispecies city of the future look like?

Prerequisites:

ANT204H5 or ANT207H5 or ENV100Y5 or permission of department

Distribution Requirements:
Social Science

Rationale:
We would like to propose this new course to be included on the Academic Calendar so Prof. Stephen Scharper can teach it as part of his rotational offering of courses. Currently, his other courses address religion and the environment. As a result of co-editing a recent book (UofT Press) on "The Natural City", Prof. Scharper would like to teach this new course which will fit in nicely with the list of his other course offerings. We feel that this topic is timely and will draw high interest.

Consultation:
Circulated to department faculty members for feedback.
Also consulted with the Geography department to see if they wish to list it among the optional ANT courses students can take under the Social, Economic and Policy Perspectives section.

ANT468H5: Anthropology of Troubled Times

Contact Hours:
Lecture: / Tutorial: / Practical: / Seminar: 24

Description:

Rising sea levels, unnatural disasters, global displacements, energy shortages, poverty, racism, mediated mass-surveillance, conspiracies, populism, pandemics – all provide unsettling markers of our times. As chroniclers and theorists of the contemporary, anthropologists have been keen to diagnose and engage the moment. Their efforts have yielded dividends: key insights into some of today's most pressing problems, as well as new analytic tools with which to capture them. This fourth-year seminar will enable students to survey a range of pressing contemporary concerns and to explore some of the ways anthropologists and cognate scholars are engaging with them. Because anthropology is part of the world it seeks to understand, the seminar will also consider anthropology's own grounds of knowledge, dwelling on some of the epistemological, ethical and political conundrums the discipline's real-world entanglements entail. This concern takes us beyond "troubled times," inviting reflection on that curious Western project we call "anthropology."

Prerequisites:

ANT204H5 or permission of department

Exclusions:

ANT433H5 (Winter 2022 and Fall 2023)

Distribution Requirements:
Social Science

Rationale:
This course was offered previously using our special topics course shell ANT433H5 and it was well received. The topic is very timely so it peaked a lot of interest from the students. Therefore, we would like to have this course permanently published in the Academic Calendar for future teaching on a rotational basis.

1 Course Modification

ANT357H5: Nature, People and Power: Topics in Environmental Anthropology

Prerequisites:
Track Changes:

ANT204H5 or ANT207H5 or ENV100Y5

Rationale:
We are updating the pre-req to include ANT207H5 and ENV100Y5 (same as ANT370H5) in order to be consistent with the other ANT courses that Geo will accept as part of their program requirements.

Consultation:
In consultation with the Geography department, this updating of the pre-req has been approved.

1 Retired Course

ANT464H5: The End of Coal: An Ethnographic Approach

Rationale:
This course was developed and taught last time in fall 2017 by Dr. Andrea Muehlebach. She moved to Europe and is now teaching at another university. She will not be coming back to teach at UTM. As you can see from the course description, this course includes a high level of experiential learning including fieldtrips, and an international-optional component during Reading week in

some year. As such, we would like to retire this course. (Note: ANT463H5 is a similar course developed by Dr. Muehlebach but we will not retire that one since another permanent faculty member expressed an interest in teach ANT463H5 in future years.)

Economics (UTM), Department of

2 Course Modifications

ECO364H5: International Trade

Title:

Track Changes: International Trade ~~Theory~~

Rationale:

Name of course changed to correctly reflect topics covered in course.

ECO440H5: Advanced Topics in Financial Economics

Description:

Track Changes:

This course deals with the following topics in financial economics: (1) Theoretical and empirical issues concerning the relevance of corporate financial structure; (2) Interactions between corporate investment and financing decisions; and (3) The role of the financial system and the legal system in economic development and growth~~. There is no required textbook. The course will rely quite extensively on readings of journal articles. A recommended book is: T. Copeland, J. Weston, K. Shastri, Financial Theory~~< ~~and~~/ ~~Cor~~p~~orate Policy, Addison-Wesley, 2005, fourth edition. [24L]~~ >

Prerequisites:

Track Changes:

[ECO20~~6~~0Y5 (70%) ~~and~~or ECO20~~8~~4Y5 (70%) ~~and~~or ECO2~~27~~06Y5 ~~(70%)~~] and ECO358H5~~;~~ or by permission of instructor.

Rationale:

Pre-requisites changed after review from faculty, and has been updated to reflect the essential knowledge required to be successful in the course. The current pre-requisites resulted in the course being restricted to Specialist students, because of the specific second year course requirements. By adding ECO200Y5 and ECO204Y5, the course will be available to students who do not complete the more advanced course in their second year.

Management (UTM), Department of

8 Course Modifications

MGM320H5: Financial Statement Analysis and Interpretation

Exclusions:

Track Changes:

MGT~~2~~324H5 or MGT32~~2~~36H5~~ or~~< ~~MGT225H5~~/ ~~or RSM221H1 or MGAC01H3~~

Rationale:

Exclusions have been removed as the course has been updated and MGM320H5 now has a more high-level and application focus. These courses are more detailed, and it would be fine if students did both MGT225H5 and MGM320H5. MGT224H5 and MGT322H5 are no longer offered as they were subsumed into MGT220H5 and MGT225H5. RSM221H1 and MGAC01H3 are equivalent to MGT225H5. So, similar to MGT225H5, it would be fine if students took this as well. There is no longer enough overlap between these courses to warrant an exclusion.

MGT220H5: Intermediate Accounting I

Corequisites:

Track Changes:

MGT231H5

Rationale:

During a review of the accounting program, it was determined students would benefit taking MGT231H5 and MGT220H5 as co-reqs to help reinforce course concepts.

Consultation:

The Professor, Associate Chair, Chair and Director were consulted.

Proposal Status:

Under Review

MGT301H5: Coding and Data Mining for Business Analytics

Title:

Track Changes: Coding and Data M~~a~~in~~ageme~~in~~t~~g for Business Analytics

Contact Hours:

Track Changes: Lecture: ~~24~~ **/ Tutorial: / Practical:** ~~12~~36 **/ Seminar:**

Description:

Track Changes:

Targeted to business students with some programming experience, the course provides the foundation to take more advanced courses in the Department of Management that require~~s~~ programming knowledge and data~~base~~ mining sk~~now~~ill~~edge~~s. Topics in this accelerated course will include data structures, algorithms, analytics (i.e. descriptive, predictive, and prescriptive) ~~a~~in~~d~~ stru~~c~~tlu~~re~~ding ~~query~~data visualization~~guage~~. Students will be expected to integrate concepts from statistics as well.

Rationale:

Professor is requesting course description and title change to be more reflective of course content. The Professor is requesting all components of this course take place in a lab due to the nature of the content.

MGT324H5: Equity Valuation and Analysis

Exclusions:
Track Changes:

MGM320H5 or MGT336H5

Rationale:
The Professors have confirmed there is some overlap among these courses and should therefore be exclusionary.

MGT336H5: Business Valuation

Prerequisites:
Track Changes:

MGT220H5 and MGT231H5

Exclusions:
Track Changes:

MGM320H5 and MGT324H5

Rationale:
MGT336H5 has recently undergone updates and now integrates a reasonable amount of accounting principles covered in MGT220H5. Students would benefit from having MGT220H5 has a prerequisite.

The Professors have confirmed there is some overlap among MGT324H5 and MGM320H5 and therefore these courses should be exclusionary.

MGT463H5: Managing Global Organizations

Exclusions:
Track Changes:
~~MGT491H5~~

Rationale:
Due to recent changes in curriculum (i.e. course content), the courses are no longer exclusionary.

MGT491H5: Introduction to International Business

Exclusions:
Track Changes:
~~MGT463H5 or~~ RSM490H1

Rationale:
Due to recent changes in curriculum (i.e. course content), MGT491H5 and MGT463H5 are no longer exclusionary.

MGT495H5: Entrepreneurial Finance and Venture Capital

Title:

Track Changes: Entrepreneurial Finance and ~~Priva~~Venture ~~Equ~~Capit~~y~~al

Exclusions:

Track Changes:

~~RSM439H1~~

Rationale:

The professor is requesting a course title change to "Entrepreneurial Finance and Venture Capital." The focus of the course is on early stage startups and investment. This title is more accurate and reflective of course content.

The Professor confirmed the removal of the following exclusion RSM439H1. RSM439H1 focuses on late-stage investments (PE, LBOs, and Pension funds). The overlap is not significant enough for an exclusion.

3 Minor Program Modifications

ERCER2020: Certificate in Effective Business Practices & Leadership Skills

Completion Requirements:

Track Changes:

- MGT231H5 ,-and MGT262H5 ,-and MGT300H5,-and MGT010H5 (NOTE: This is a zero-credit course)
- 0.5 credit from 400-level course list: MGM464H5 or MGT430H5 or MGT433H5 or MGT434H5 or MGT437H5 or MGT442H5 or MGT450H5 or MGT455H5 or MGT461H5 or MGT463H5 or MGT491H5 or MGT492H5 or MGT493H5 or MGT494H5 or MGT495H5
- 15 Professional Skills Development Program points (must include Resume Critique or Mock Interview and Career Investment Planning Session)
- Workplace Preparation Workshops
    - Work-Integrated Learning Experience (minimum 10-week internship in the Summer term)

To earn the Certificate students must concurrently be enrolled in a Commerce or Management program endItal.

Description of Proposed Changes:

Students must select 0.5 credits following courses. In order to provide students more flexibility the following courses have been added MGT442H5 Financial Distress and Insolvency MGT495H5 Entrepreneurial Finance and Private Equity MGT461H5 Negotiations MGT450H5 Digital Marketing

Rationale:

The addition of these courses will provide more flexibility to students enrolled in the Certificate in Effective Business Practices and Leadership Skills. Through these courses students use both quantitative and qualitative methodologies to solve real-world business problems and make evidence-based decisions through case based learning – Program level Outcome of the program.

ERMAJ1111: Commerce - Major (HBA)

Completion Requirements:

Track Changes:

This program has a total of 7.5 credits.

First Year (3.0 credits):

1. MGM101H5 and MGT120H5
2. (ECO101H5 and ECO102H5) or ECO100Y5
3. MAT133Y5 or MAT135Y5 or MAT137Y5 or MAT157Y5 or (MAT132H5 and MAT134H5) or (MAT135H5 and MAT136H5) or (MAT137H5 and MAT139H5)

Higher Years (4.5 credits):

1. ECO220Y5 or ECO227Y5 or (STA256H5 and STA258H5) or (STA256H5 and STA260H5)
2. MGT220H5 and MGT223H5 and MGT252H5 and MGT231H5 and MGT232H5
3. 1.0 credit ~~from MGT330H5 a~~in~~d~~ MGT~~363H5~~ a~~nd~~t ~~MGT371H5~~the ~~and MGT~~3~~74H5~~00 ~~and MGT393H5 or any~~/ 400-level ~~MGT course.~~

Description of Proposed Changes:

Commerce major requires students to complete 1.0 credit from MGT330H5 and MGT363H5 and MGT371H5 and MGT374H5 and MGT393H5 or any 400 level MGT course. Proposal is to change to 1.0 MGT credit at the 300/400-level.

Rationale:

This will enable more flexibility for our students to select courses they are interested in and those that are aligned to their personal and professional goals.

ERSPE2034: Commerce: Finance - Specialist (BCom)

Completion Requirements:

Track Changes:

This program has a total of 15.5 credits

First Year (3.0 credits):

1. MGM101H5 and MGT120H5
2. (ECO101H5 and ECO102H5) or ECO100Y5
3. MAT133Y5 or MAT135Y5 or MAT137Y5 or MAT157Y5 or (MAT132H5 and MAT134H5) or (MAT135H5 and MAT136H5) or (MAT137H5 and MAT139H5)

Higher Years :

Management (7.5 credits):

1. MGT201H5 and MGT220H5 and MGT223H5 and MGT252H5 and MGT262H5
2. 0.5 credit from: MGT336H5 or MGT353H5 or MGT363H5 or MGT341H5 or MGT371H5 or MGT373H5 or MGT374H5
3. MGT231H5 and MGT232H5
4. MGT301H5 and MGT330H5
5. 2.0 credits from: MGT430H5 or MGT431H5 or MGT433H5 or MGT434H5 or MGT435H5 or MGT438H5 or MGT439H5 or MGT440H5 or MGT442H5 or MGT443H5 or MGT444H5 or MGT495H5
6. 0.5 credit in MGT at 300 / 400 level (cannot double count courses)
7. 0.5 credit in MGT at 400 level (cannot double count courses)

Economics (5.0 credits):

1. ECO200Y5 or ECO204Y5 or ECO206Y5
2. ECO202Y5 or ECO208Y5 or ECO209Y5
3. ECO220Y5 or ECO227Y5 or (STA256H5 and STA258H5) or (STA256H5 and STA260H5)
4. ECO375H5
5. 1.0 credit from: ECO3~~48~~13H5 or ECO32~~49~~H5 or ECO325H5 or ECO326H5 or ECO348H5 or ECO349H5 or ECO365H5 or ECO460H5 or ECO461H5 or ECO456~~3~~H5 or ECO475H5
6. 0.5 credit in ECO at the 300 / 400-level (cannot double count courses)

Description of Proposed Changes:

As part of the finance specialization, students are required to earn 1.0 credits from the following list 1.0 credit from: ECO348H5 or ECO349H5 or ECO352H5 or ECO365H5 or ECO460H5 or ECO461H5 or ECO463H5 or ECO475H5 We propose the following courses be added ECO313H5 Environmental Economics ECO324H5 Economic Development ECO325H5 Advanced Economic Theory – Macro ECO326H5 Advanced Economic Theory – Micro ECO456H5 Public Policy Analysis And the following courses be removed ECO352H5 Special Topics in Economics ECO463H5

Rationale:

We propose additional ECO courses be added in order to allow for more flexibility for students. The ECO Department has supported the change.

We propose the removal of 2 ECO courses from the pre-existing list. ECO352H5 is a special topics course which poses the risk the topic will change yearly. ECO463H5 is no longer offered.

Political Science (UTM), Department of

1 New Course

POL342H5: Data Visualization and Analysis for the Social Sciences

Contact Hours:
Lecture: / Tutorial: / Practical: 36 **/ Seminar:**

Description:

A practical introduction to visualizing and analyzing data about people, societies, and governments. Students will learn to interpret data to describe and explain the world.

Prerequisites:

POL 242Y5 or (POL 243H5 and POL 244H5)

Exclusions:

POL419H1

Distribution Requirements:
Social Science

Rationale:
Our department has consulted with the faculty teaching methods, and they would like to add a 300-level quantitative methods course to our program. We have recently revised our 200-level methods course to include POL 243 and POL 244, a two-course sequence introducing students to research design and methods in political science. For students who wish to continue their study of methods, we have recently introduced POL 343, a 300-level course in qualitative methods for political science. This new course would also provide students with a course in quantitative methods at a more advanced level.

Consultation:
We consulted with the methods faculty in our department. Randy Besco and Noel Anderson are most likely to offer this course, and they have made the recommendations and plans for this proposal.

2 Minor Program Modifications

ERMAJ2015: Political Science - Major (Arts)

Enrolment Requirements:
Track Changes:
Limited Enrolment — Enrolment in this program is limited.

~~For students applying in 2021-2022 for program entry in the 2022-2023 Academic Year, 4.0 credits are required, including 1.0 credit of POL (with a minimum grade 65% in each course) and a CGPA of at least 2.00.~~

~~Students applying to enrol after second year (8.0 credits) must complete 2.0 credits of POL (with a minimum grade of 70% in each course) and obtain a CGPA of at least 2.30.~~

~~For students applying in 2022-2023 (and beyond) for program entry in the 2023-2024 Academic Year (and beyond),~~ 4.0 credits are required, including the following:

- 1.0 credit of POL (with a minimum grade 65% in each course)
- ISP100H5
- A CGPA of at least 2.00

Students applying to enrol after second year (8.0 credits) must complete the following:

- 2.0 credits of POL (with a minimum grade of 70% in each course)
- ISP100H5
- An ~~C~~AGPA of at least 2.30

Completion Requirements:

Track Changes:

7.~~0-7.~~5 credits are required, including no more than 1.0 ~~credit (1.5~~POL credit~~s for those entering the program in 2023-2024 and beyond)~~ at the 100 level and at least 2.0 credits at the 300 or 400 level.

1. ~~For students entering the program in 2023-2024 (and beyond):~~ ISP100H5
2. POL200Y5 and [(POL215H5 and POL216H5) or POL214Y5] and POL243H5 and POL244H5
3. 1.0 credit each (totaling 2.0 credits) from two of the following three fields:
    i. Comparative Politics - POL203Y5 or (POL218Y5 or POL~~3~~218H5~~4~~ or POL219H5) or POL300Y5 or POL300H5 or [POL302Y5 or (POL313H5 and POL314H5)] or POL302~~Y~~H5 or (POL303Y5 or POL303H5) or POL304Y5 or POL309Y5 or POL332Y5 or (POL354Y5 or POL354H5) or POL360~~Y~~H5 or POL361H5 or POL362H5 or POL373H5 or POL390H5 or POL391H5 or POL438Y5 or POL438H5 or POL440Y5 or POL443Y5 or POL443~~8~~H5 or POL444H5 or POL445H5 or POL446H5 or POL4~~3~~47H5 or POL448~~Y~~H5
    ii. International Relations - (POL208Y5 or ~~(~~POL209H5 ~~and~~or POL210H5) or POL305H5 or POL307H5 or (POL310Y5 or POL311H5 or POL312H5) or (POL327Y5 or POL327H5) or POL340Y5 or (POL343Y5 or POL344H5 or POL345H5) or POL370H5 or POL406H5 or POL407H5 or POL486Y5 or POL486H5 or POL487H5
    iii. Public Policy and Public Administration - POL316Y5 or (POL317Y5 or POL317H5) or POL318H5 or POL336Y5 or POL346Y5 or POL353Y5 or (POL355Y5 or POL355H5) or (POL368H5 or POL368Y5) or (POL369Y5 or POL370H5 or POL371H5) or JEP351H5 or JEP356H5 or JEP452H5 or JPE250Y5 or JPE251H5 or JPE252H5
    iv. ~~3~~2.0 additional POL credits

Description of Proposed Changes:

1. Editorial change to remove outdated information about the ISP100H new requirement. 2. Updated GPA requirements for admission 3. Added one additional major requirements, a 1.0 course sequence in methods (POL 243H5 and POL 244H5) 4.

Rationale:

We are seeing students apply to our program who had a challenging first year in a different admission stream but have done well in their POL courses. Therefore, we would like to allow these students to be considered for our program based on their progress and improvement in upper years and POL courses rather than potentially causing them to delaying graduation while they try to recover their cumulative GPA. We are following a model set out by the Department of Psychology a few years ago.

We are adding POL243H5 and POL244H5 as requirements for all Majors because our department is in agreement that all of our students need to graduate with a good background in research design and basic methods in political science inquiry. This addition brings our Major requirements more in line with what political science departments at peer institutions require of their Majors (and have for some time). Also, this brings our program into better alignment with other social science Major programs at UTM, such the Major in Sociology.

ERSPE2015: Political Science - Specialist (Arts)

Enrolment Requirements:

Track Changes:

Limited Enrolment — Enrolment in this program is limited.

~~For students applying in 2021-2022 for program entry in the 2022-2023 Academic Year, 4.0 credits are required, including 1.0 credit of POL (with a minimum grade of 70% in each course) and a CGPA of at least 2.00.~~

~~Students applying to enrol after second year (8.0 credits) must complete 2.0 credits of POL (with a minimum grade of 70% in each course) and obtain a CGPA of at least 2.30.~~

~~For students applying in 2022-2023 (and beyond) for program entry in the 2023-2024 Academic Year (and beyond),~~ 4.0 credits are required, including the following:

- 1.0 credit of POL (with a minimum grade of 70% in each course)
- ISP100H5
- A CGPA of at least 2.00

Students applying to enrol after second year (8.0 credits) must complete the following:

- 2.0 credits of POL (with a minimum grade of 70% in each course)
- ISP100H5
- An ~~C~~AGPA of at least 2.30

Completion Requirements:

Track Changes:

1~~0~~1.0~~ 10.5~~ credits are required; including no more than 1.0 ~~credit (1.5~~POL credit~~s for those entering the program in 2023-2024 and beyond) ~~at the 100 level and 4.0 credits at the 300 / 400 level, of which 2.0 credits must be at the 400 level.

1. ~~startItal For students entering the program in 2023-2024 (and beyond): endItal ~~ISP100H5
2. POL200Y5 and [POL208Y5 or (POL209H5 and POL210H5)] and [POL214Y5 or (POL215H5 and POL216H5)] and [POL218Y5 or (POL218H5 and POL219H5)] and [POL242Y5 or (POL243H5 and POL244H5)] and POL320Y5 and (POL342H5 or POL343H5)
3. 1.0 credit from the following courses in the field of Public Policy and Public Administration: POL316Y5 or (POL317Y5 or POL317H5) or POL318H5 or POL336Y5 or POL346Y5 or POL353Y5 or (POL355Y5 or POL355H5) or (POL368~~H~~Y5 or POL368~~Y~~H5) or (POL369Y5 or POL370H5 or POL371H5) or JEP351H5 or JEP356H5 or JEP452H5 or JPE250Y5 or JPE251H5 or JPE252H5
4. 3.0 credits of additional POL courses where 2.0 credits must be at 400 level

Description of Proposed Changes:

1. Revised language around the ISP100H5 requirement to streamline the program requirement descriptions for specialists. 2. Revised GPA entry requirements 3. Revised methods requirement from 1.0 credit to 1.5 credits 4. Revised course listings to reflect new courses

Rationale:

Since we are now requiring POL242Y5 or POL243H5 for Majors, we would like to require more advanced work in methods and political science inquiry for our specialists. We are offering students an option in either qualitative or quantitative methods (whichever suits their own work). Many specialists either participate in ROP courses or write a senior paper, and this preparation in research design and methods will support those efforts. This also brings our program into better alignment with other specialist programs in the social sciences at UTM.

Study of University Pedagogy (UTM), Institute for the

6 Course Modifications

ISP200H5: Writing and Researching across the University

Title:

Track Changes: ~~Adv~~Writing an~~ce~~d ~~W~~Researi~~t~~ching ~~f~~acro~~r~~ss the University ~~and Beyond~~

Description:

Track Changes:

This course ~~a~~buildvance~~s~~ ~~the writiong and reading related skills that are necessary for success with~~ion ~~th~~offere ~~academic setting~~.ISP100H5 ~~The~~in ~~cour~~itse ~~b~~focu~~ild~~s on ~~the 'W~~writing ~~About~~and ~~W~~researi~~t~~ching~~'~~ ~~ap~~proa~~c~~hesses ~~to~~. ~~help s~~Students ~~deve~~will~~o~~ expand their understanding of advanced the ~~w~~ori~~ting proce~~ss and ~~writ~~iechn~~g~~iques of genre~~l~~ a~~te~~nd ~~the~~discourse analysis, dee~~s~~pe~~cially within~~ their un~~iv~~dersi~~ty context. The cl~~ass will ~~ndin~~v~~g~~ o~~lve~~f writing ~~in and ous~~t ~~of~~udies scholas~~r~~ship, a~~s~~nd ~~well as exe~~r~~cise~~s ~~f~~ine the~~ffecti~~ver ~~and c~~ownstructive ~~c~~writi~~que~~ng pro~~f onc~~e ~~anothsse~~r~~'~~s ~~work~~.

Prerequisites:

Track Changes:

4.0 credits, including ISP100H5

Rationale:

Revision of title and course description to better reflect the direction of future ISP programs.

UTM108H5: utmONE: Special Topics at the Intersection of Science and Social Science

Description:

Track Changes:

This course brings together first-year students to explore a current topic or problem at the intersection of science and social science in a small-group environment. The focus of each section will depend on the instructor's areas of expertise and will provide students with the opportunity to develop foundational learning strategies and sharpen their academic skills to support the transition into university. Students participate in a series of tutorials that will help them build foundational skills for academic success such as creating study plans, taking notes, reading critically, and developing a growth mindset.

Rationale:

We are adding a standard line in the description for all utmONE Foundations courses as a reflection of the updated skills-building tutorials that these courses offer.

UTM109H5: utmONE: Special Topics at the Intersection of Science and Humanities

Description:

Track Changes:

This course brings together first-year students to explore a current topic or problem at the intersection of science and humanities in a small-group environment. The focus of each section will depend on the instructor's areas of expertise and will provide students with the opportunity to develop foundational learning strategies and sharpen their academic skills to support the transition into university. Students participate in a series of tutorials that will help them build foundational skills for academic success such as creating study plans, taking notes, reading critically, and developing a growth mindset.

Rationale:

We are adding a standard line in the description for all utmONE Foundations courses as a reflection of the updated skills-building tutorials that these courses offer.

UTM110H5: utmONE: Special Topics at the Intersection of Social Science and Humanities

Description:

Track Changes:

This course brings together first-year students to explore a current topic or problem at the intersection of social science and humanities in a small-group environment. The focus of each section will depend on the instructor's areas of expertise and will provide students with the opportunity to develop foundational learning strategies and sharpen their academic skills to support the transition into university. Students participate in a series of tutorials that will help them build foundational skills for academic success such as creating study plans, taking notes, reading critically, and developing a growth mindset.

Rationale:

We are adding a standard line in the description for all utmONE Foundations courses as a reflection of the updated skills-building tutorials that these courses offer.

UTM111H5: utmONE: Tools of the Trade

Description:

Track Changes:

This course is an introduction to the common problem-solving tools used in the sciences and social sciences. It is designed to address the fundamental skills needed for comprehension and effective communication in these areas. The skills being addressed may include critical analysis of texts (primary literature, review papers, textbooks), use of databases to gather, manipulate and visualize data; interpretation and presentation of data; information gathering and writing skills (lab reports, critical essays); and oral presentations. Specific examples will be drawn from a variety of current research topics in both the sciences and social sciences. ~~As part of this course s~~Students ~~will~~ participate in a series of tutorials that will help them build foundational skills for academic success ~~(~~such as creating study plan~~der~~s, ta~~nd~~king not~~h~~es ~~value~~, ~~of h~~reading~~her edu~~ca~~r~~iti~~on~~cally, and developing a growth mindset,~~ and finding passion).~~ ~~[24L, <~~ ~~12T~~/]

Exclusions:

Track Changes:

UTM108H5 or UTM109H5 or UTM110H5 or UTM112H5 or UTM113H5 or UTM114H5 or UTM115H5 or UTM116H5 or UTM117H5 or UTM118H5 or UTM119H5 or UTM190H5 or UTM191H5 or UTM192H5 or UTM193H5 or UTM194H5 or UTM195H5 or UTM196H5 or UTM197H5

Rationale:

We are adding a standard line in the description for all utmONE Foundations courses as a reflection of the updated skills-building tutorials that these courses offer.

UTM115H5: utmONE: Communication Among Cultures

Description:

Track Changes:

This course is an introduction to inter-cultural communication primarily in the areas of writing and speaking. It is designed to address fundamental skills related to language use in the academic setting by focusing on topics such as customs, attitudes, beliefs, and values. Specific examples will be drawn from real-life university situations, and multiple viewpoints on the nature of

diversity in communication will be discussed. ~~As part of this course s~~Students ~~will~~ participate in a series of tutorials that will help them build foundational skills for academic success ~~(~~such as creating study plan~~der~~s, tan~~d~~king not~~h~~es ~~value~~, ~~of h~~reading~~her edu~~c~~ar~~iti~~on~~cally, and developing a growth mindset,~~ and finding passion).~~ ~~[24L, <~~ ~~12T~~/]

Exclusions:

Track Changes:

UTM108H5 or UTM109H5 or UTM110H5 or UTM111H5 or UTM112H5 or UTM113H5 or UTM114H5 or UTM116H5 or UTM117H5 or UTM118H5 or UTM119H5 or UTM190H5 or UTM191H5 or UTM192H5 or UTM193H5 or UTM194H5 or UTM195H5 or UTM196H5 or UTM197H5

Rationale:

We are adding a standard line in the description for all utmONE Foundations courses as a reflection of the updated skills-building tutorials that these courses offer.

UTM118H5: utmONE: Science of Learning

Description:

Track Changes:

This interdisciplinary course encourages students to take ownership of their education through a focus on the process of learning how to learn and by cultivating the habits of mind for lifelong achievement and success. Students will explore theories of learning and research on the strategies students should employ to reach deep understanding. "Science of Learning" is designed to help students develop their critical thinking, university-level oral and written communication, critical reading, and other foundational academic skills. ~~As part of this course s~~Students ~~will~~ participate in a series of tutorials that will help them build foundational skills for academic success ~~(~~such as creating study plan~~der~~s, tan~~d~~king not~~h~~es ~~value~~, ~~of h~~reading~~her edu~~c~~ar~~iti~~on~~cally, and developing a growth mindset,~~ and finding passion).~~ ~~[24L, <~~ ~~12T~~/]

Exclusions:

Track Changes:

UTM108H5 or UTM109H5 or UTM110H5 or UTM111H5 or UTM112H5 or UTM114H5 or UTM115H5 or UTM116H5 or UTM117H5 or UTM119H5 or UTM190H5 or UTM191H5 or UTM192H5 or UTM193H5 or UTM194H5 or UTM195H5 or UTM196H5 or UTM197H5

Rationale:

We are adding a standard line in the description for all utmONE Foundations courses as a reflection of the updated skills-building tutorials that these courses offer.

4 Retired Courses

UTM112H5: utmONE: Power of Expression

Rationale:

This course has not been offered for more than five years and we do not have faculty interested in offering the course again.

UTM114H5: utmONE: Technology and Innovation: Historical, Social and Economic Perspectives

Rationale:

This course has not been offered for more than five years and we do not have faculty interested in offering the course again.

UTM117H5: utmONE: Individualism, The Development Of An Idea

Rationale:
This course has not been offered for more than five years and we do not have faculty interested in offering the course again.

UTM119H5: utmONE: Lights, Camera, Culture: Exploration of Cinema

Rationale:
This course has not been offered for more than five years and we do not have faculty interested in offering the course again.