



Academic Programs Committee of Council

University Course Challenge

Scheduled posting: October 2014

The following types of curricular and program changes are approved by the University Course Challenge -- additions and deletions of courses, lower levels of study and program options; straightforward program changes; and changes to courses which affect another college.

Contents:

College of Arts and Science

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New courses in; Course deletions in Physics; Minor course revisions in Religion and Culture, Ukrainian Studies, Geology, Astronomy; Minor program revisions in Physics, Psychology

Approval: Date of circulation: October 17, 2014

Date of effective approval if no Challenge received: October 31, 2014

Next scheduled posting:

The next scheduled Challenge document posting will be in November, 2014, with a submission deadline of **November 17, 2014**. Urgent items can be posted on request.

College of Arts and Science

The curricular revisions listed below were approved through the Arts & Science College Course and Program Challenge and are now submitted to the University Course Challenge for approval.
University Course Challenge – October 2014

DIVISION OF HUMANITIES & FINE ARTS

Religion and Culture

Minor Course Revisions

RLST 359.3 Helpmates Harlots and Heroines

Prerequisite Change:

Old Prerequisite: A 200-level RLST or WGST course

New Prerequisite: A 200-level RLST course or 48 credit units at the university.

New Course Title: Helpmates Harlots Goddesses and Heroines

New Course Description: Examines the multifaceted portrayals of women in biblical texts and contexts, the Hebrew Goddess and the female divine, women as biblical interpreters and writers, and feminist biblical interpretation.

Rationale: The revised name and calendar description conforms more closely to the way the course has evolved since it was initially proposed, and the prerequisite change brings it in line with prerequisites for other 300-level RLST courses.

Ukrainian Studies

Minor Course Revisions

UKR 117.3 Elementary Ukrainian II

Prerequisite Change:

Old Prerequisite: UKR 114

New Prerequisite: UKR 114 or Ukrainian 20 (Grade 11 Ukrainian)

Rationale: Students who have taken Ukrainian 20 (Grade 11 Ukrainian) have always been allowed to bypass UKR 114, but since the introduction of prerequisite checking for online registration, these students can not register in the correct course without a prerequisite waiver. This change will eliminate the need for students to seek, and for staff to enter, these overrides.

UKR 214.3 Intermediate Ukrainian I

Prerequisite Change:

Old Prerequisite: UKR 114 and 117

New Prerequisite: UKR 117 or Ukrainian 30 (Grade 12 Ukrainian).

Rationale: See UKR 117 above.

DIVISION OF SCIENCE

Geology

Minor Course Revisions

GEOL 224.3 Mineralogy

GEOL 245.3 Introduction to Sedimentary Rocks

GEOL 258.3 Structural Geology

Prerequisite change:

Old prerequisite: GEOL 121; and PHYS 115 or PHYS 155; and CHEM 112 or CHEM 114.

New prerequisite: GEOL 121; and PHYS 115 or PHYS 155; and CHEM 112 or CHEM 114; and MATH 110 or MATH 123.

Rationale: The department is concerned that too many Geology majors are not completing their basic math and science classes until later in their programs and are therefore lacking the appropriate knowledge for senior geology classes. We will progressively increase the basic math and science prerequisites for core second year geology classes.

Physics

Minor Program Revisions

Bachelor of Science Double Honours in Physics

The following represents a format change to the program entry in the Program Catalogue, such that students will more clearly understand how two disciplines are combined in a single Double Honours degree program. Minor changes to program requirements are included to update the program and to include necessary program prerequisites.

Bachelor of Science Double Honours - Physics – Major 1

Double Honours Programs may be taken in combinations of two subjects.

The prerequisite structure for courses in C6 of this program assumes 9 credit units of Mathematics, 6 of which are included in C4. The recommended courses for the remaining 3 credit units are [MATH 264.3](#) or [MATH 266.3](#).

Students interested in entering an Honours program should consult advisors in the department concerned before registering for their second year. Of the 120 credit units required for B.Sc. Honours degree, at least 66 credit units must be at the senior level. Application for admission to Honours is not considered until successful completion of at least 60 credit units with a Cumulative Weighted Average of at least 70% overall and at least 70% in the subject of Honours. For further details, please see the [Academic Information and Policies](#) section.

C1 Science Requirement (minimum 15 credit units)

- [CMPT 111.3](#) or [CMPT 116.3](#) ([CMPT 116.3](#) is recommended)
- [PHYS 115.3](#)
- [PHYS 125.3](#) or [PHYS 117.3](#)

Remaining credit units to be selected from the following areas, such that no more than 6 credit units are from one area:

Biology

- [BIOL 120.3](#)
- [BIOL 121.3](#)

Chemistry

- [CHEM 112.3](#)

- [CHEM 115.3](#)

Computer Science

- [CMPT 115.3](#) or [CMPT 117.3](#)

Earth Sciences

- [GEOG 120.3](#)

- [GEOL 121.3](#)

- [GEOL 122.3](#)

C2 Humanities Writing Requirement (6 credit units)

C3 Social Science Requirement (6 credit units)

C4 Mathematics and Statistics Requirement (6 credit units)

- [MATH 110.3](#)

- [MATH 116.3](#)

C5 General Requirement (6 credit units)

C6 Major Requirement (30 credit units)

- [PHYS 223.3](#)

- [PHYS 252.3](#)

- [PHYS 356.3](#)

- [PHYS 383.3](#)

- [PHYS 490.0](#)

- [MATH 331.3](#)

Choose **3 Credit Units** from the following:

MATH 223.3 recommended

- MATH 223.3

- MATH 225.3

- MATH 276.3

Choose **3 Credit Units** from the following:

MATH 224.3 recommended

- MATH 224.3

- MATH 226.3

- MATH 238.3

Physics Electives

Choose **15 credit units** from the following, with at least 3 credit units at 400-level:

- [ASTR 213.3](#)

- [ASTR 214.3](#)

- [ASTR 310.3](#)

- [ASTR 312.3](#)

- [ASTR 411.3](#)

- [EP 253.1](#)

- [EP 317.3](#)

- [EP 353.2](#)

- [EP 354.2](#)

- [EP 370.3](#)

- [EP 421.3](#)

- [PHYS 230.1](#)

- [PHYS 231.1](#)

- [PHYS 255.3](#)
- [PHYS 323.3](#)
- [PHYS 371.3](#)
- [PHYS 402.3](#)
- [PHYS 452.3](#)
- [PHYS 456.3](#)
- [PHYS 453.2](#)
- [PHYS 461.3](#)
- [PHYS 470.3](#)
- [PHYS 471.3](#)
- [PHYS 481.3](#)
- [PHYS 482.3](#)
- [PHYS 491.3](#)
- [PHYS 493.6](#)

C7 Electives Requirement (45 credit units)

Major 2 (36-42 credit units)

- Double Honours requirements in second discipline

Open Electives (3-9 credit units)

Arts and Science courses, or those from other Colleges that have been approved for Arts and Science credit, to complete the requirements for 120 credit unit Double Honours program, of which at least 66 must be at the 200-level or higher.

If you require further assistance, please contact the Arts & Science Undergraduate Student Office.

Double Honours - Physics – Major 2

Double Honours Programs may be taken in combinations of two subjects.

The prerequisite structure for courses in C6 of this program assumes 9 credit units of Mathematics. The recommended courses are [MATH 110.3](#), [MATH 116.3](#), and [MATH 264.3](#) or [MATH 266.3](#).

Students interested in entering an Honours program should consult advisors in the department concerned before registering for their second year. Of the 120 credit units required for the B.A. or B.Sc. Honours degree, at least 66 credit units must be at the senior level. Application for admission to Honours is not considered until successful completion of at least 60 credit units with a Cumulative Weighted Average of at least 70% overall and at least 70% in the subject of Honours. For further details, please see the [Academic Information and Policies](#) section.

Requirements (42 credit units)

- [PHYS 115.3](#)
- [PHYS 125.3](#) or [PHYS 117.3](#)
- [PHYS 223.3](#)
- [PHYS 252.3](#)
- [PHYS 356.3](#)
- [PHYS 383.3](#)
- [PHYS 490.0](#)
- [MATH 331.3](#)

Choose **3 Credit Units** from the following:

MATH 223.3 recommended

- MATH 223.3
- MATH 225.3
- MATH 276.3

Choose **3 Credit Units** from the following:

MATH 224.3 recommended

- MATH 224.3
- MATH 226.3
- MATH 238.3

Physics Electives

Choose **15 credit units** from the following, with at least 3 credit units at 400-level:

- ASTR 213.3
- ASTR 214.3
- ASTR 310.3
- ASTR 312.3
- ASTR 411.3
- EP 253.1
- EP 317.3
- EP 353.2
- EP 354.2
- EP 370.3
- EP 421.3
- PHYS 230.1
- PHYS 231.1
- PHYS 255.3
- PHYS 323.3
- PHYS 371.3
- PHYS 402.3
- PHYS 452.3
- PHYS 456.3
- PHYS 453.2
- PHYS 461.3
- PHYS 470.3
- PHYS 471.3
- PHYS 481.3
- PHYS 482.3
- PHYS 491.3

If you require further assistance, please contact the Arts & Science Undergraduate Student Office.

Course Deletions

EP 414.3 Instrumentation Laboratory

Rationale: EP 414.3 was a mandatory laboratory course in the old engineering physics program, which has been phased out with the final cohort of students from the old program having taken the course in 2013-2014. The course is not used in the new Engineering Physics program nor in any other program and is redundant now.

EP 431.3 Optical Systems and Materials II

Rationale: EP 431 was an elective in the Engineering Physics program but now has been replaced by EP 428.3.

PHYS 127.3 Introduction to Quantum and Relativistic Phenomena

Rationale: PHYS 127.3 was a science elective for engineering students until 2013-2014. Starting in 2013-2014 it was replaced with PHYS 125.3. PHYS 127.3 is therefore redundant.

Minor Course Revisions**ASTR 411.3 Gravitation and Cosmology**

Prerequisite or Corequisite change:

Old prerequisite: PHYS 252

Old prerequisite or corequisite: MATH 331 and MATH 339

New prerequisite: PHYS 252

New prerequisite or corequisite: MATH 331

Rationale: The "prerequisite or corequisite" for this course was MATH 338.6, until that course was split into MATH 331.3 + MATH 339.3, and the old corequisite was automatically translated to MATH 331 + MATH 339. However, the course does not use the techniques from MATH 339, and that co-requisite is therefore redundant.

DIVISION OF SOCIAL SCIENCES**Psychology****Minor Program Revisions****Bachelor of Arts Honours and Four Year in Psychology**

Reduce the requirement for 300-level laboratory courses by 3 credit units and increase the requirements for any senior PSY course by the same amount.

Bachelor of Arts Honours (B.A. Honours) - Psychology**B6 Major Requirement (54 credit units)**

Unchanged except for sections shown below.

Group 2B

~~Courses related to the cognitive, neuropsychological, and biological influences on behaviour~~

~~Choose 3 credit units from the following:~~

- ~~• PSY 344.3~~
- ~~• PSY 348.3~~
- ~~• PSY 356.3~~

Choose **9 12 credit units** from the following:

- 200-Level, 300-Level or 400-Level PSY Courses

Bachelor of Arts Four-year (B.A. Four-year) - Psychology**B6 Major Requirement (30 credit units)**

Unchanged except for sections shown below.

Group 1B or 2B

~~Choose 3 credit units from the following:~~

- ~~PSY 316.3~~
- ~~PSY 318.3~~
- ~~PSY 324.3~~
- ~~PSY 326.3~~
- ~~PSY 328.3~~
- ~~PSY 344.3~~
- ~~PSY 348.3~~
- ~~PSY 356.3~~

Senior Psychology Courses

Choose **3 credit units** from the following:

- 200-Level, 300-Level or 400-Level PSY Courses

Rationale: In order to increase flexibility and breadth of offerings in the program while still maintaining excellent training in the discipline, we have decided that 6/9 credit units of such courses will still provide excellent training for our BA Four-year/Honours students, and free-up some of our faculty teaching resources for other courses that would contribute to the breadth of our programs. During the past few years, many of our newer faculty have expressed interest in developing courses that better reflect their expertise and breadth in Psychology, spanning the 200, 300, and 400 levels, and our department has carefully examined our programming as a function of the college curriculum renewal process (including two retreats and a survey). We recognize the value added in continuing to develop new courses based on our breadth of expertise.

Bachelor of Science Honours and Four Year in Psychology

Reduce the requirement for 300-level laboratory courses by 3 credit units and increase the requirements for any senior PSY course by the same amount.

Bachelor of Science Honours (B.Sc. Honours) - Psychology

C6 Major Requirement (54 credit units)

Unchanged except for sections shown below.

42 credit units of Psychology Science courses, including 9 credit units of Psychology Statistics/Research Methods courses, 27 credit units from the Psychology Group 2 (Science) courses, the Honours Thesis (6 credit units) plus **9 6** credit units of Psychology Group 1 (Social Science) courses, and **3 6** credit units of any Psychology course at the 200 level or higher.

Psychology Group 1 (Social Science) courses (9 6 credit units)

Choose **6 credit units** from the following:

- PSY 207.3
- PSY 213.3
- PSY 214.3
- PSY 216.3
- PSY 222.3
- PSY 223.3
- PSY 224.3
- PSY 225.3
- PSY 226.3

- [PSY 227.3](#)
- [PSY 230.3](#)
- [PSY 231.3](#)
- [PSY 257.3](#)
- [PSY 260.3](#)
- [PSY 261.3](#)
- [PSY 361.3](#)

Group 1A

Choose **3 credit units** from the following:

- ~~PSY 315.3~~
- ~~PSY 317.3~~
- ~~PSY 323.3~~
- ~~PSY 325.3~~

Senior Psychology Courses

Choose **3 6 credit units** from the following:

- [200-Level, 300-Level or 400-Level PSY Courses](#)

Suggested Sequence of Courses

Year 1

Year 2

Year 3

- 6 credit units PSY Group 2 (Science) courses at the 300 A level
- ~~3 credit units PSY Group 1 (Social Science) courses at the 300 A level~~
- ~~3 credit units senior PSY courses~~[\[DA1\]](#)
- 3 credit units PSY Group 2 (Science) courses at the 300 B level
- 6 credit units senior cognate science courses (in consultation with faculty supervisor, see Recommended Science Electives above)
- 6 credit units of PSY Group 1 (Social Science) courses at the 200 level
- 6 credit units towards C7 Electives Requirement

Year 4

Bachelor of Science Four-year (B.Sc. Four-year) - Psychology

C6 Major Requirement (42 credit units)

30 credit units of Psychology Science courses, including 9 credit units of Psychology Statistics/Research Methods courses and 21 credit units from the Psychology Group 2 (Science) courses, plus **9 6** credit units of Psychology Group 1 (Social Science) courses, and **3 6** credit units of any Psychology course at the 200 level or higher.

Psychology Group 1 (Social Science) courses (9 6 credit units)

Choose **6 credit units** from the following:

- [PSY 207.3](#)
- [PSY 213.3](#)
- [PSY 214.3](#)

- [PSY 216.3](#)
- [PSY 222.3](#)
- [PSY 223.3](#)
- [PSY 224.3](#)
- [PSY 225.3](#)
- [PSY 226.3](#)
- [PSY 227.3](#)
- [PSY 230.3](#)
- [PSY 231.3](#)
- [PSY 257.3](#)
- [PSY 260.3](#)
- [PSY 261.3](#)
- [PSY 361.3](#)

Group 1A

Choose **3 credit units** from the following:

- ~~[PSY 315.3](#)~~
- ~~[PSY 317.3](#)~~
- ~~[PSY 323.3](#)~~
- ~~[PSY 325.3](#)~~

Senior Psychology Courses

Choose **3 6 credit units** from the following:

- [200-Level, 300-Level or 400-Level PSY Courses](#)

Rationale: In order to increase flexibility and breadth of offerings in the program while still maintaining excellent training in the discipline, we have decided that 9 cu of such courses will still provide excellent training for our BSc students, and free-up some of our faculty teaching resources for other courses that would contribute to the breadth of our programs. During the past few years, many of our newer faculty have expressed interest in developing courses that better reflect their expertise and breadth in Psychology, spanning the 200, 300, and 400 levels, and our department has carefully examined our programming as a function of the college curriculum renewal process (including two retreats and a survey). We recognize the value added in continuing to develop new courses based on our breadth of expertise, for both our students and our faculty.