



## Academic Programs Committee of Council

### University Course Challenge

**Scheduled posting: September, 2019**

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 curricular changes which affect other colleges.

**Contents include submissions for information and approval from the following colleges:**

College of Dentistry

College of Graduate and Postdoctoral Studies

Report for Information, Academic Programs Executive Committee

**Approval:**      Date of circulation: September 12, 2019  
                         Date of effective approval if no challenge received: September 30, 2019

**Next scheduled posting:**

The next scheduled posting will be October 17, 2019, with a submission deadline of **October 15, 2019**. Urgent items can be posted on request.

Please direct challenges to both of the following: [seanine.warrington@usask.ca](mailto:seanine.warrington@usask.ca) in Registrarial Services and [amanda.storey@usask.ca](mailto:amanda.storey@usask.ca) in the Office of the University Secretary.

## **Academic Programs Executive Committee Report for Information**

### **Deletion of Visiting Research Student Placeholder Courses**

On September 9, 2019, the Academic Programs Executive Committee approved the Registrar's proposal to delete the following Visiting Research Student Placeholder Courses created in 2013 and 2014:

XXXX 001.0: Emerging Leaders in the Americas Program: Visiting Research Scholar

XXXX 002.0: MITACS/Globalink: Visiting Research Scholar

XXXX 003.0: Science without Borders: Visiting Research Scholar

XXXX 004.0: Visiting Research Scholar

The deletions of these placeholder courses are being reported here for information, as follows:

#### Background:

University Course Challenge submissions from September, 2013 and March, 2014 record the approval of the following placeholder courses:

XXXX 001.0: Emerging Leaders in the Americas Program: Visiting Research Scholar

XXXX 002.0: MITACS/Globalink: Visiting Research Scholar

XXXX 003.0: Science without Borders: Visiting Research Scholar

XXXX 004.0: Visiting Research Scholar

The courses were created to allow visiting students to study at the University of Saskatchewan under several international research scholar programs, access student services, and demonstrate completion of the research to their home institution. The above placeholder courses were intended to operate under the same general rules as Special Topics courses, using existing course subject codes and requiring authorization by departments and colleges as needed.

On May 5, 2015 the APC Executive granted an exemption from University Course Challenge approval in order to set up the XVRS 005 placeholder course for quick admit purposes for all Visiting Research Students. XVRS 005 was intended to house all visiting research students and replace the placeholder courses that were approved in 2013 and 2014. The International Student and Study Abroad Centre (ISSAC) and the College of Graduate and Postdoctoral Studies (CGPS) now use the XVRS 005 course exclusively to register visiting research students. As a result, the 001, 002, 003, and 004 placeholder courses should be deleted from the Student Information System.

In October, 2017, a Visiting Research Student Program Template was finalized and approved by University Council and Senate. The program was designed to replace placeholder courses created in 2013 and 2014. The university now has a broader understanding of the Visiting

Research Student Program and has formalized a process to better serve the needs of faculty and students.

## College of Dentistry, University Course Challenge September, 2019

### For Information:

In November, 2018, University Council approved the creation of a new Bachelor of Science in Dentistry [B.Sc. (Dent.)]. As part of this new program, new research-based dentistry courses were created and the deletion of DENT 411.1 Dental Research II was approved. As a result, DENT 411.1 is no longer necessary for either the D.M.D or the IDDP route for the DM.D. See below:

### **Doctor of Dental Medicine (D.M.D.) (~~208-207~~ credit units)**

#### **Year 1 (42 credit units)**

- ACB 334.3
- DENT 206.1
- DENT 208.3
- DENT 210.2
- DENT 214.2
- DENT 220.6
- DENT 221.2
- DENT 225.2
- DENT 226.3
- DENT 291.18

#### **Year 2 (58 credit units)**

- DENT 301.2
- DENT 306.6
- DENT 309.2
- DENT 314.3
- DENT 317.3
- DENT 319.4
- DENT 320.5
- DENT 321.2
- DENT 324.3
- DENT 330.5
- DENT 340.4
- DENT 348.3
- DENT 353.2
- DENT 360.5
- DENT 388.3
- DENT 392.6

### **Year 3 (~~59~~ 58 credit units)**

- DENT 401.3
- DENT 409.2
- ~~DENT 411.1~~
- DENT 417.4
- DENT 419.5
- DENT 420.5
- DENT 424.4
- DENT 430.6
- DENT 440.5
- DENT 448.3
- DENT 455.2
- DENT 460.5
- DENT 463.3
- DENT 466.2
- DENT 475.4
- DENT 480.2
- DENT 486.3

### **Year 4 (49 credit units)**

- DENT 501.2
- DENT 517.4
- DENT 519.5
- DENT 520.3
- DENT 524.4
- DENT 530.5
- DENT 540.5
- DENT 542.2
- DENT 548.3
- DENT 560.3
- DENT 563.3
- DENT 575.3
- DENT 580.2
- DENT 585.5

### **International Dental Degree Program (IDDP)**

#### **D.M.D. Program Requirements (~~108~~ 107 credit units)**

#### **Year 1 (~~59~~ 58 credit units)**

This year of study matches up with Year 3 in the standard-route D.M.D. program.

**Note:** DENT 497.0 Essential Dentistry Skills must be successfully completed.

- DENT 401.3
- DENT 409.2
- ~~DENT 411.1~~
- DENT 417.4
- DENT 419.5
- DENT 420.5
- DENT 424.4
- DENT 430.6
- DENT 440.5
- DENT 448.3
- DENT 455.2
- DENT 460.5
- DENT 463.3
- DENT 466.2
- DENT 475.4
- DENT 480.2
- DENT 486.3

## **Year 2 (49 credit units)**

This year of study matches up with Year 4 in the standard-route D.M.D. program.

- DENT 501.2
- DENT 517.4
- DENT 519.5
- DENT 520.3
- DENT 524.4
- DENT 530.5
- DENT 540.5
- DENT 542.2
- DENT 548.3
- DENT 560.3
- DENT 563.3
- DENT 575.3
- DENT 580.2
- DENT 585.5

## **College of Graduate and Postdoctoral Studies, September 2019 University Course Challenge Proposal**

The following changes have been approved by the College of Graduate and Postdoctoral Studies in September 2019 and are now being submitted for approval:

### New Course Proposals

#### **CE 836.3: Land-Atmosphere Interactions**

This course investigates the transfer of energy at the earth surface as it pertains to hydrological and climatological applications. The following physical processes are covered in detail: turbulent heat exchange, evaporation, ground heat storage, and radiation heat transfer. The course focuses on applications within natural and agricultural environments.

Prerequisite: permission of the instructor (undergraduate coursework in hydrology and environmental physics)

Instructor: Warren Helgason, PhD, PEng

Rationale: There are no similar courses at the UofS which cover the fields of hydrometeorology and micro-meteorology.

#### **VACC 802.3: Development and Function of the Mucosal Immune System**

This course is designed to provide students with detailed knowledge of the development and function of the mucosal immune system. The course will focus on the cellular components of the mucosal immune system, regulation of mucosal immune functions, and unique aspects of immune function at different mucosal sites throughout the body. The learning process will involve assigned reading from the textbook, Principles of Mucosal Immunology, critical review of recent scientific publications, class presentations and participation in directed discussions. Each student will be expected to prepare a critical review of mucosal immunology relevant to their thesis research project, including aspects unique to the host species and disease of interest.

Prerequisite: permission of the instructor (undergraduate immunology course)

Instructor: Philip Griebel, DVM, PhD

Rationale: There is increasing interest in understanding mucosal immune function since 90% of pathogens invade through mucosal surfaces and regulation of mucosal immune function plays a key role in a number of chronic inflammatory diseases. Recent advances in studying and understanding the microbiome have highlighted that many interactions between microbiome and host occur at mucosal surfaces. It is also becoming apparent that delivery of vaccines to enhance host defenses at mucosal surfaces may provide the best first line of defence against many important pathogens. Therefore, a better understanding mucosal immune system development and function is critical for improving the control of both infectious and non-infectious diseases in a wide variety of domestic species, wildlife, and humans.

#### **FDSC 866.3: Advanced Food Carbohydrates**

Carbohydrates are an important component in many foods and bioproducts, and carbohydrates play critical roles in their quality and nutritional value. This course offers a comprehensive

overview and advanced knowledge on the biosynthesis, chemical structures, analytical methodologies, industrial uses and bioavailability of food carbohydrates.

Prerequisite: FABS 315, or equivalent, or permission of the instructor

Instructor: Yongfeng Ai, PhD

Rationale: As carbohydrates are a major component in human foods, animal feed, biomass and bioproducts, thesis/dissertation research of many graduate students in the College of Agriculture and Bioresources and other colleges at the UofS are closely related to carbohydrates. Comprehensive knowledge of the basic chemistry, functionalities, modifications, industrial applications and bioavailability of various carbohydrates and deep understanding of the analytical methodologies broadly used for carbohydrate research will benefit graduate students in their research at the UofS and beyond. This graduate course is designed to fill the gap. Students will have the opportunity to gain a better understanding of the structure-function-digestibility relationships of carbohydrates in different systems and to acquire practical and useful knowledge on the principles and operation of analytical techniques that are widely used in carbohydrate research.

### **SOC 800.3: Advanced Topics in Surveillance and Power**

This course provides an advanced overview of the sociological study of surveillance, raising questions about (in)security, civil liberties, production and privacy. Starting from the move beyond the explanations of “Big Brother” and the “Panopticon”, this course looks to contemporary theories and cases studies to understand how surveillance is shaping culture and power relations in society.

Instructor: Scott N. Thompson, PhD

Note: This course and SOC 400 are mutually-exclusive. Students may not obtain credit for both.

Rationale: From the use of social media data to impact elections, to the rise of employee tracking technologies, to the centrality of Big Data in private and government decision making, surveillance is playing a central role in the organization and structuring of our everyday lives. In addition to providing students with a detailed understanding of the benefits and potential harms of surveillance technologies, this course will also work to bridge undergraduate students into graduate work in the area of power and control.