UNIVERSITY OF SASKATCHEWAN

Academic Programs Committee of Council

University Course Challenge

Scheduled posting: November 2020

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 Agriculture and Bioresources
College of Arts and Science
College of Graduate and Postdoctoral Studies
College of Education
College of Engineering

Approval: Date of circulation: November 13, 2020
Date of effective approval if no challenge received: November 30, 2020

Next scheduled posting:

The next scheduled posting will be December 14, 2020, with a submission deadline **December 10, 2020.** Urgent items can be posted on request.

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

College of Agriculture and Bioresources, Submission to November 2020 University Course Challenge

The following curricular revisions were approved by the College of Agriculture & Bioresources Undergraduate Affairs Committee on October 21, 2020.

For Information:

Changes to Course Prerequisites

PLSC 401.3: Sustainable Crop Production

Components of sustainable crop production systems will be examined from an ecological perspective. Students will evaluate the sustainability of cropping systems and develop crop production systems with greater ecological and economic sustainability. Laboratories will teach techniques used in crop scouting and diagnostics. There are additional non-refundable costs in addition to tuition fees.

Weekly hours: 3 Lecture hours and 3 Practicum/Lab hours

Note: There are additional non-refundable costs in addition to tuition fees.

Pre/Corequisite(s): SLSC 312

Prerequisite(s): ~~SLSC 312 and~~ successful completion of 75 credit units of university course work.

Rationale: Changing SLSC 312 from a prerequisite to a corequisite will give students greater flexibility in course sequencing and reduce the number of prerequisite overrides required.

Changes to Course Titles and Descriptions

PLSC 220.3: Fundamentals of Horticulture

An introduction to the economic, nutritional and aesthetic value of horticulture emphasizing its importance and impact. Consideration is given to vegetable, fruit, turf grasses, nursery, and greenhouse production as well as landscaping, herbs, and medicinal plants. Emphasis is placed on Saskatchewan production in relation to regional, national and international markets. Laboratories consist of field trips and hands-on exercises.

Weekly hours: 3 Lecture hours and 4 Practicum/Lab hours

Prerequisite(s): AGRC 111.3 and BIOL 120.3 or permission from the instructor.

Note: There ~~are~~ is a ~~additional~~ non-refundable ~~costs~~ tour fee in addition to tuition fees.

PLSC 433.3: Greenhouse Crop Production ~~Structures and Crops~~

Students will learn the principles and concepts of ~~commercial~~ greenhouse crop production through both lecture and hands-on labs. The production of vegetable, floriculture, medicinal, bedding and container crops are discussed. Greenhouse structures are also reviewed.

Weekly hours: 3 Lecture hours and 2 Practicum/Lab hours

Prerequisite(s): PLSC 220

Note: Offered in odd-numbered years

PLSC 470.3: Plant Propagation ~~and Nursery Management~~

The principles and the commercial practices of multiplication of plants by seeds, cuttings, division, grafting, and tissue culture are covered. ~~and asexual methods, cultural practices, storage and sale station operation. Local field trips are planned.~~ Labs are hands-on with a goal of developing skills and involve doing experiments. Scientific papers on plant propagation are read, analyzed, and discussed.

Weekly hours: 3 Lecture hours and 2 Practicum/Lab hours

Prerequisite(s): PLSC 220 or BIOL 222

Note: Offered in even numbered years

Rationale: These changes to course descriptions and titles better reflect the topics covered in these courses.

University Course Challenge – November 2020
The curricular revisions listed below were approved through the Arts & Science College Course and Program Challenge, and by the relevant college-level Academic Programs Committee, and are now submitted to the University Course Challenge for approval.

Contact: Alexis Dahl (alexis.dahl@usask.ca)

Physics

Minor course revisions:
EP 317.3 Applied Physics of Materials
Prerequisite change:
Old prerequisite: PHYS 381 or PHYS 383
Old prerequisite(s) or corequisite(s): PHYS 371
New prerequisite: PHYS 381 or PHYS 383
New prerequisite(s) or corequisite(s): None
Rationale: Co-requisite material from PHYS 371 is not required for EP 317. The necessary material only affects a small fraction of the lectures and the current textbook covers this in sufficient detail. Removing the co-requisite requirement will remove an unnecessary barrier to enrollment.

Mathematics

MATH 150.3 Mathematics for Early and Middle Years Teachers
New restriction: Restricted to students in the College of Education
Rationale: This restriction was included in the original course proposal, but accidentally omitted from the submission to the University Course Challenge. The Department of Mathematics and Statistics wishes to ensure that the students for whom this course was designed are given priority access, and that students in other colleges are directed to the 100-level MATH course which is more suited to their program needs.

MATH 339.3 Applied Mathematics Differential Equations II
Old prerequisite: MATH 331.3 or approval of the instructor
New prerequisite: MATH 223 and MATH 224; or MATH 225 and MATH 226; or MATH 238 and MATH 276; or approval of the instructor
New course title: **Differential Equations and Special Functions**
New course description: Basic Sturm-Liouville theory, Green's functions, hypergeometric equation, special functions of Mathematical Physics, Fourier transform, introduction to distributions/generalized functions, applications to linear differential equations.
Rationale: Students who have completed one of the pairs of courses listed in the proposed prerequisites will have sufficient preparation to be successful in MATH 339. This change will create more flexible pathways for students in the Applied Mathematics, Mathematics, and Physics majors.

Correction from September 2020 UCC – typo in course number

History

Minor course revisions
HIST 207.3 Greek Tragedy and the Culture of Fifth Century Athens
Relabel to **CLAS 207 ~~208~~.3**.
Rationale: 1) The course is actually a Classics course, rather than a History course *per se*, and therefore the CLAS label change conveys more accurate information to students who may be considering it, and will be clearer on a student's transcript, particularly if the student is considering graduate studies in Classics; 2) The change is a better fit with the revisions currently proposed for the Classics Minor; 3) This

change to the course label does not change how the course will be used in History programs, as CLAS courses may be counted in the Major Requirement (A4).

Items for Information
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 information.

Music

Minor course revisions:
MUS 201.1 Jazz and Related Creative Studies Capstone Course
Prerequisite change:
Old prerequisite: MUS 184.3
Old prerequisite(s) or corequisite(s): MUS 175.3 and MUS 283.3
New prerequisite: MUS 283.3
New prerequisite(s) or corequisite(s): None
Change to course number: **MUAP 401.1**
Note: Students with credit for MUAP 201.1 may not take this course for credit.
Rationale: The 15 Certificate in Jazz is designed to culminate in a summative experiential leaning-based outcome activity through students taking this MUS jazz capstone course specifically. This course, MUAP 201.1 was originally created at the 200-level to align with the existing Applied Music ensemble courses, but this capstone course is more than an ensemble participation course (such as MUS 208.1 Jazz Ensemble), in which students perform in a concert at the end of the course; students in the capstone course are required to produce a concert, including choosing the repertoire, managing all of the technical aspects of the concert, as well as leading the ensemble. After offering the course for a number of years, it is clear to the department that this course presents work that is representative of 400-level students, and therefore this level change has been proposed.

Minor course revisions:
MUAP 201.1 Wind Orchestra
MUAP 202.1 Concert Band
MUAP 203.1 Greystone Singers
MUAP 204.1 University Chorus
MUAP 205.1 Orchestra with Strings
MUAP 206.1 Music Theatre
MUAP 207.1 Chamber Ensemble
MUAP 208.1 Jazz Ensemble
MUAP 209.1 Collegium Musicum
MUAP 210.1 Contemporary Music Ensemble
MUAP 211.1 Ensemble

Change to grade mode: Change from numeric to pass/fail.
A 'pass' grade in these courses will require:
(1) regular attendance at all ensemble rehearsals
(2) attendance at all ensemble dress rehearsals, public concerts, recording sessions and special event dates that have been included within the course outline (e.g. guest artist session with the ensemble)
(3) individual contribution to the collective musical outputs of the ensemble in relation to musicianship, ensemble balance and blend, musical communication, community-building and artistic engagement
(4) evidence of weekly musical growth and general ongoing musical preparedness.
A failing in these courses will be based on:
(1) ongoing poor rehearsal attendance (including consistently showing up late to rehearsals)
(2) missing a concert or dress rehearsal or recording session or a special event (e.g. guest artist session with the ensemble) without the permission of the conductor (emergency situations and significant illness may be approved by the instructor after the fact)

(3) in general *not* contributing to the collective musical outputs of the ensemble in relation to musicianship, ensemble balance and blend, musical communication, community-building and artistic engagement
(4) low musical performance ability at the end of the term.

Rationale: Changing the grade mode for these courses will increase the assessment opportunities of student's individual and ensemble skills (regular qualitative feedback), decrease the reliance on subjective evaluation procedures with regards to learning outcomes, and allow for greater focus on the key learning outcomes for music ensembles (individual and collective musicianship, ensemble balance and blend, musical communication, community-building and artistic engagement. This change will encourage musical engagement by non-Music majors across the university, some of whom have expressed interest in taking these courses as electives, but do not for fear of reducing their overall GPA. Finally, this change will ensure that the grading of these courses better align with other Western Canadian and U15 universities with similar courses.

Philosophy

Minor course revisions:
PHIL 210.3 Medieval Philosophy I From Rome to Baghdad and Paris
Prerequisite change:
Old prerequisite: 3 credit units in philosophy or completion of 18 credit units at the university level or permission of the instructor.
New prerequisite: 3 credit units in philosophy; or RLST 112 and CTST 200; or completion of 18 credit units at the university level; or permission of the instructor.
Rationale: Students who have completed RLST 112 and CTST 200 will have the necessary foundation to be successful in this course.

College of Graduate and Postdoctoral Studies, University Course Challenge – November 2020
The following items are being proposed for approval:

Approved by CGPS November 2, 2020

Minor Program Modification

Master of Music in Performance (Piano, Collaborative Piano, Voice, Trumpet and Saxophone Concentrations)
Students must maintain continuous registration in the 992 course.

- GPS 960.0
- GPS 961.0, if research involves human subjects
- GPS 962.0, if research involves animal subjects
- MUS 990.0
- MUS 992.0
- participation in professional activities
- second language requirement (voice only)

A minimum of 24 credits units, including the following:

- ~~3 credit units in MUS 821.3, MUS 852.3, MUS 853.3, or MUS 854.3~~
- ~~3 credit units in MUS 822.3, MUS 845.3, MUS 851.3, or MUS 855.3~~
- 9~~3~~ credit units of 800-level MUS electives as approved by the Advisory Committee
- MUS 811.3
- MUS 812.3
- MUS 813.3
- MUS 814.3
- ~~MUS 840.3~~
- 3 cu in MUS 822.3, MUS 845.3, MUS 851.3, MUS 855.3, MUS 821.3, MUS 852.3, MUS 853.3, **OR** MUS 854.3

Rationale: Our M.Mus. programs are relatively new, and as more students are completing their graduate studies in music at the U of S, we have noticed some areas that could be improved in order to stay competitive with other graduate programs in Canada. Over the summer, we have looked at the requirements of many graduate programs in ON, MB, SK, AB, and BC, and decided on a few revisions. Our M.Mus program needs to offer more options to the students. As more graduate courses in music have been created in recent years, we want to add them as possible electives that would be available for all graduate students.

Approved by CGPS November 6, 2020

New Course Proposals

FABS 801.3: Introduction to Food and Bioproduct Sciences
The course will review the basic concepts and principles of food and bioproduct sciences. It is designed for students in PGD program in FABS for their subsequent studies in their programs.
Rationale: The PGD programs in our department resumed two years ago. All the students we have accepted have been derived internationally with diverse backgrounds. Many of these students were previously graduated from plant science, animal science, pharmacy and nutrition, clinical microbiology, or related disciplines. They often struggle at the initial stage of their study due to insufficient basic

knowledge and training in food and bioproduct sciences as well as familiarity with Canadian university systems. This course aims to prepare fundamental backgrounds and to have the students ready to their subsequent PGD study in food and bioproduct sciences. It is intended to offer in July/August as a remote-teaching course for the students to take in their home countries before coming to Canada.

EADM 831.3: Advances in Leadership and Followership Theories and Promising Practices
This course will provide an overview of the concepts of leadership and followership. Leadership systems will be examined, focusing on the interactions of leaders and followers in achieving goals at the person, interpersonal, organizational and societal levels, and the ethical elements of educational leadership and followership will be explored.
Instructor: Keith Walker, PhD
Rationale: We are trying to offer more classes that would be more broadly applicable to other organizations such as post-secondary institutions, social services and health care.

EADM 880.3: Quantitative Research Methods for Educational Leaders
This course prepares students to make use of data and the reports generated from them as both analysts and consumers. Competence with such skills is vital for educational leaders at all levels of the education enterprise. This course focuses on: (i) the theory, application, and interpretation of common statistical techniques; (ii) the key considerations of designing and implementing quantitative research projects; and (iii) aspects of communicating quantitative research findings with academic and other audiences.
Instructor: Scott Tunison, PhD
Note: Restricted to PhD students
Rationale: It was repatriated from a Master's-level cross-departmental general quantitative research course to bring under the departmental purview to address more directly the academic needs of our doctoral students and the department.

MBA 884.0: MBA Internship Program Part III
While on an extended work placement, students will continue to develop a broad range of skills, including leadership, problem solving, analysis, time management, project development, managing employee and client relationships, and written and oral communication skills. In the real work situation, students will continue to learn how to work effectively in a team setting and respond to real life business issues, problems and opportunities. This course will allow students to continue to develop in a relevant, full-time employment situation, thereby improving key business capabilities and improving their confidence as effective communicators.
Prerequisites: MBA 879 and MBA 878; permission of the MBA director
Rationale: The Edwards MBA students who take part in the Internship option may get extended passed the 8 months that MBA 879 and MBA 882 cover for registration. This means they continue working September - December, however there is no active registration for them as they are not taking any MBA courses. When they access a confirmation of enrollment, it doesn't show them as an active student during this time. This can be problematic for International students needing proof of constant enrollment for VISA or permit purposes.
Not all students in the Edwards MBA Internship Program (EMIP) will be extended, but for those that are we want to make sure there is adequate registration procedures.
This course is to be similar to Comm 483, for students doing a Co-op in the undergrad program at Edwards, whose work term gets extended.

PUBH 854.3: Advances in Health Promotion Programs, Implementation, and Evaluation
This course is designed to provide students with theoretical information and practical skills necessary to carry out program planning using a health promotion lens regardless of the setting. This course will build on concepts learned in PUBH 803 (Health Promotion) and PUBH 807 (Health Program Planning and Evaluation).
Instructor: Hasan Vatanparast, MD, PhD
Prerequisites: PUBH 803 and PUBH 807 or permission of the instructor
Rationale: The School of Public Health has provided PUBH 803 "Health Promotion" as a required course for MPH students over the last 10 years. Over the last few years, MPH students have expressed the need for an advanced level Health Promotion course where they can become more familiar with the application of the theoretical materials in the field as future public health professionals. In addition, well-designed health promotion initiatives with systematic evaluation is needed at the community-level in different areas of public health, such as prevention and control of chronic disease, substance use and abuse, violence, environmental health, indigenous and immigrant health, as well as issues related to outbreaks of communicable diseases. In response to the request from students, we developed this course as PUBH 898.3 and provided it in the last two years. The course was well-received by students. Therefore we decided to provide this course as an elective of an advanced level course for MPH students as well as graduate students in other areas of applied health studies.

For Information
Correction from October UCC; course number was not available

ME ~~878~~882.3: Bluff-Body Aerodynamics
This graduate course is focused on the fundamentals and applications of bluff-body aerodynamics, including the flows around cylinders, prisms, buildings, and vehicles. Literature search and review, problem solving, and experimental approaches are adopted. As part of the course, students will perform a wind tunnel experiment focused on the flow around a bluff body and learn some basic experimental techniques related to bluff-body aerodynamics.
Instructor: David Sumner, PhD, PEng
Co-requisite: ME 994 or ME 996
Rationale: The course will provide a basis for graduate students pursuing M.Sc. and Ph.D. research in this field and in the broader areas of fluid dynamics and heat transfer. The department has active research programs in bluff-body aerodynamics, involving two faculty (D. Sumner, D.J. Bergstrom) and eight to ten graduate students at one time. Within the broader area of fluid dynamics and heat transfer in the department, there are five faculty and a larger number of graduate students.
Students in the area of fluid dynamics and heat transfer typically take two (or three) "core" classes (ME 872, ME 874, ME 877) and three (or two) "elective" classes (ME 871, ME 873, ME 875, ME 879, ME 868, ME 880, etc.). The new course will become another "elective". The core classes are typically offered annually. The elective classes are offered every second year and/or as demand requires. The new course will help us broaden our elective offerings.

College of Education – November 2020 University Course Challenge

The curricular revisions listed below were approved by the College of Education Faculty Council on Friday, October 30, 2020 and are now submitted to the University Course Challenge for approval.

Contact: Arvelle Van Dyck (arvelle.vandyck@usask.ca)

Pre-requisite change:

- To add ASTR to the list of prerequisites for ECUR 326.3: Methods for Teaching Science in Secondary School.
  Rationale: Education students enrolled in a B.Ed. program route at the Secondary level with a Teaching Area 1 or 2 of Physics are permitted to have a combination of Physics (PHYS) and Astronomy (ASTR) courses to meet the requirements for the Teaching Area. Requirements vary depending on whether Physics is the student's Teaching Area 1 or 2. Since students with a Physics Teaching Area are required to enroll in the corresponding methods course (i.e., ECUR 326.3: Methods for Teaching Science in Secondary School), Astronomy (ASTR) is being added to the list of acceptable prerequisites for this course.

  Prerequisite(s): 12 credit units in CHEM or (PHYS and/or ASTR) or BIOL.

Addition to Post-Degree Certificate in English as an Additional Language (PDECEAL):

- To allow ECUR 339.3: Teaching English as a Second Language for Adult Literacy Learners as an elective option for the Post-Degree Certificate in English as an Additional Language Education (PDCEAL).
  Rationale: This course targets older/adult EAL learners since teachers working with high school or older learners would benefit from this course.

- To allow SOC 203.3: Race and Ethnic Relations in Canada as an elective option for the Post-Degree Certificate in English as an Additional Language Education (PDCEAL).
  Rationale: Some students choose to take Sociology 380: Canadian Ethnic Relations from Athabasca University, which is transferable to the U of S as SOC 203.3. Whether the course is taken at the U of S or students receive transfer credit for it, the inclusion of SOC 203.3 would be beneficial to students and is relevant to the PDCEAL program.

Post-Degree Certificate in English as an Additional Language Education (PDCEAL)

Program requirements (30 credit units)

- ECUR 291.3
- ECUR 391.3
- ECUR 393.3
- ECUR 415.3
- ECUR 490.3
- ECUR 492.3
- ECUR 493.3

- 3 credit units from Individual Language Learning Experience List
- 6 credit units from Electives List (in consultation with Program Advisor)

Individual Language Learning Experience List

Students are required to take one university level class in a language other than English. Any recognized language course offered for credit at the University of Saskatchewan or another Canadian university will be acceptable, including credit courses in Indigenous languages.

Note: If a language course is available online, the credit will be accepted. However, it is preferred that students experience learning an additional language in a classroom setting.

Choose from the following:

Arabic

- ARBC 114.3
- ARBC 117.3

Chinese

- CHIN 114.3
- CHIN 117.3
- CHIN 202.3
- CHIN 204.3
- CHIN 214.3
- CHIN 216.3
- CHIN 217.3
- CHIN 218.3

Cree

- CREE 101.6
- CREE 110.3
- CREE 120.6

French

- FREN 103.3
- FREN 106.3
- FREN 122.3
- FREN 125.3
- FREN 212.3

- FREN 218.3
- FREN 312.3

German

- GERM 114.3
- GERM 117.3
- GERM 202.3
- GERM 204.3
- GERM 214.3
- GERM 217.3
- GERM 272.6
- GERM 273.6
- GERM 274.6
- GERM 275.6
- GERM 314.3
- GERM 317.3

Greek

- GRK 112.3
- GRK 113.3
- GRK 202.3
- GRK 203.3

Hebrew

- HEB 114.3
- HEB 117.3

Hindi

- HNDI 114.3
- HNDS 117.3

Japanese

- JPNS 114.3
- JPNS 117.3
- JPNS 214.3
- JPNS 217.3

Latin

- LATN 112.3
- LATN 113.3
- LATN 202.3
- LATN 203.3
- LATN 400.3

Russian

- RUSS 114.3
- RUSS 117.3

Sanskrit

- SNSK 114.3
- SNSK 117.3

Spanish

- SPAN 114.3
- SPAN 117.3
- SPAN 202.3
- SPAN 204.3
- SPAN 214.3
- SPAN 217.3
- SPAN 275.3
- SPAN 314.3
- SPAN 317.3
- SPAN 325.3

Ukrainian

- UKR 114.3
- UKR 117.3
- UKR 214.3
- UKR 217.3
- UKR 314.3
- UKR 317.3

Electives List

Students may select a course that is not listed below if approved by the Department Head of Curriculum Studies.

Choose from the following (in consultation with Department Head):

- ECUR 292.3
- ECUR 339.3
- ECUR 475.3
- EIND 380.3
- EPSE 414.3
- EPSE 510.3
- LING 110.3
- LING 111.3
- LING 244.3
- LING 248.3
- LING 251.3
- LING 252.3
- LING 253.3
- SOC 203.3

Bachelor of Education (B.Ed.) – Technical Vocational (TV) Stream and Certificate in Secondary Technical Vocational Education (CSTVE)

- Construction Electrician has been added to the list of acceptable Journeyperson's Certificates required for the B.Ed. – Technical Vocational Stream and Certificate in Secondary Technical Vocational Education (CSTVE).

Bachelor of Education (B.Ed.) - Technical Vocational Stream

This four-year program is for students who wish to specialize in Technical Vocational education.

Information about the courses that count towards the Secondary Teaching Areas 1 and 2 is available under the Bachelor of Education (B.Ed.) program listing in this Catalogue (see Secondary Teaching Areas).

Year 1 - 30 credit units

- Journey Person Certificate (The Journey Person Certificate is equivalent to 30 credit units of the Technical Vocational Degree and is the Teaching Area 1).

Please note: the following list of acceptable Saskatchewan Journeyperson's Certificates: Agricultural Mechanic, Automotive Service Technician, Carpentry, Commercial Cook, Construction Electrician, Electrician, Electronics (formerly Radio and Television Repair), Hairstylist, Heavy Duty Equipment Mechanic, Industrial Mechanic (Millwright), Ironworker, Machinist, Plumbing, and Welding. Among acceptable Diplomas in Technology or the Applied

Arts are: Civil Technology, Drafting Technology, Electrical Technology, Electronics Technology, and Mechanical and Architectural Technology.

Year 2 - 30 credit units

- EFDT 101.3 Introduction to Education
- ECUR 165.3 Introduction to Teaching in Secondary Schools

Choose 3 credit units of Indigenous Studies:

- INDG — 100-Level, 200-Level, 300-Level, 400-Level
- HIST 265.3
- HIST 315.3 Indigenous Health History
- SOC 341.3 Institutional Racism and Indigenous People

Choose 6 credit units of junior-level English:

- ENG-100-Level

Choose 15 credit units from the following:

- Teaching Area 2 (choose from the approved Teaching Area 2 options)

Spring Term (after Year 2)

- EDST 213.0

Year 3 - 30 credit units

- EPSE 202.3 Psychological Foundations of Teaching and Learning
- ECUR 320.3 Literacy Across the Secondary Curriculum
- ECUR 325.3 Relational Curriculum Making in the Secondary Context
- ECUR 340.3 Introduction to Teaching Practical and Applied Arts
- ECUR 341.3 Curriculum and Evaluation in Practical and Applied Arts
- EDST 321.3 Field Experience Learning in Contexts
- EDST 322.3 Field Experience Relational Curriculum Making in Practice Planning Adapting and Assessing
- EFDT 301.3 Educator Identity in Contexts Anti Oppressive and Ethical Beginnings
- EFDT 313.3

Choose 3 credit units of Teaching Area 2 methods from the following:

- EART 331.3 Methods in Secondary Visual Art
- ECUR 318.3 Methods in Secondary Mathematics
- ECUR 326.3 Methods for Teaching Science in Secondary School

- ECUR 349.3 Methods in Middle Years and Secondary Drama
- ECUR 362.3 Introduction to Principles and Practices of Second Language Teaching
- ECUR 379.3 Introductory Methods in Secondary English Language Arts
- ECUR 386.3 Methods in Secondary Social Studies

Year 4 - 30 credit units

Education Courses:

- EFDT 265.3 Foundations for First Nations Metis and Inuit Teaching and Learning or ECUR 265.3 Teaching for Reconciliation in the K to 12 Curricula
- EADM 303.3 Education in Society Structures Systems and Stakeholders
- EPSE 348.3 Essentials of Assessing Student Learning
- EPSE 390.3 Exceptional Learners

Choose 3 credit units from the following:

- EADM 411.3 Inquiry Project and Community Learning Field Experience
- ECUR 411.3 Inquiry Project and Community Learning Field Experience
- EFDT 411.3 Inquiry Project and Community Learning Field Experience
- EPSE 411.3 Inquiry Project and Community Learning Field Experience

Extended Practicum

- EXPR 422.15 Professional Extended Practicum **OR**
- EXPR 423.3 Alternative Field Experiences Practicum I Adult Learning and Community Based Educational Settings **AND** EXPR 425.12 Alternative Field Experiences Practicum II Saskatchewan Schools
  OR
- EXPR 424.3 Alternative Field Experiences Practicum I International Opportunities **AND** EXPR 425.12 Alternative Field Experiences Practicum II Saskatchewan Schools

Certificate in Secondary Technical Vocational Education (C.S.T.V.E.)

Year 1 (30 credit units)

- Journey Person Certificate (The Journey Person Certificate is equivalent to 30 credit units of the Certificate in Secondary Technical Vocational Education and is the Teaching Area 1).

Please note: the following list of acceptable Saskatchewan Journeyperson's Certificates: Agricultural Mechanic, Automotive Service Technician, Carpentry, Commercial Cook, Construction Electrician, Electrician, Electronics (formerly Radio and Television Repair),

Hairstylist, Heavy Duty Equipment Mechanic, Industrial Mechanic (Millwright), Ironworker, Machinist, Plumbing, and Welding. Among acceptable Diplomas in Technology or the Applied Arts are: Civil Technology, Drafting Technology, Electrical Technology, Electronics Technology, and Mechanical and Architectural Technology.

Year 2 (36 credit units)

- EPSE 202.3 Psychological Foundations of Teaching and Learning
- EADM 303.3 Education in Society Structures Systems and Stakeholders
- EFDT 301.3 Educator Identity in Contexts Anti Oppressive and Ethical Beginnings
- EFDT 313.3
- ECUR 320.3 Literacy Across the Secondary Curriculum
- ECUR 325.3 Relational Curriculum Making in the Secondary Context
- ECUR 340.3 Introduction to Teaching Practical and Applied Arts
- ECUR 341.3 Curriculum and Evaluation in Practical and Applied Arts
- EDST 321.3 Field Experience Learning in Contexts
- EDST 322.3 Field Experience Relational Curriculum Making in Practice Planning Adapting and Assessing
- EXPR 401.6 Practicum for Certification

UNIVERSITY OF SASKATCHEWAN
College of Engineering
ENGINEERING.USASK.CA

College of Engineering Submission to University Course Challenge

November 2020

The following changes have been approved by the College of Engineering Undergraduate Academic Programs Committee and are now being submitted to the UCC for further review and approval.

Contact: Aleksandra Pajic (Aleksandra.pajic@usask.ca)

New Course Proposal:

- To create **ME 496.3** Machine Design II as a permanent design elective.

ME 496.3 Machine Design II 1/2 (1.5L-1.5P)
This course is a continuation of ME314 – Machine Design. This course applies fundamental knowledge regarding failure prevention (acquired from ME314) to design specific mechanical elements, including: gears; brake systems (band, pad); drive systems (flat, v-belt, chain); wire ropes; bolts/rivets; and welds.
Prerequisite(s): ME 314.3 Machine Design
Restriction(s): Only open to mechanical engineering students.

Rationale: Increasing the number of ME design electives will offer our students more flexibility in the choice of design electives. It also offers the department opportunity to offer a sufficient number of design electives whenever one or more design elective instructor(s) proceed on sabbatical leave at the same time.

Bachelor of Science in Engineering (B.E.) - Mechanical Engineering

Design Electives

Design Electives are offered subject to minimum enrolment limits and staffing considerations. Consult the current Course Offerings to determine the availability of specific electives. Students must take a minimum of 6 credit units from the list of Design Electives.

Term 1

- ME 496.3 Machine Design II

Term 2

- **ME 490.3** Design of Fluid Power Circuits
- **ME 492.3** Materials in Engineering Design

Term 1 and Term 2

a) **GE 496.3** Technological Innovation Design Project
b) **ME 494.3** Off Highway Equipment Design

Term 1 or Term 2

- **ME 491.3** Thermal Systems Design
- **ME 493.3** Advanced Mechanical Design
- **ME 497.3** Acoustics and Vibrations in Design

For Information

The following items have been approved by the Undergraduate Academic Programs Committee in the College of Engineering and are now being submitted to the University Course Challenge for information.

- To change the course description for **CHE 411.3** from the current:
  An examination of the principles of applied chemical kinetics and their use in chemical reactor design and chemical plant operation. Both homogeneous and heterogeneous kinetics, including catalysis, are considered.

  The new course description would be as follows:
  An examination of the principles of both fundamental and applied chemical reactions and kinetics, and their applications in chemical reactor design and chemical plant operation. Both homogeneous and heterogeneous kinetics, including catalysis, are considered for safe design and operations of chemical reactors.

- To change the prerequisites for **EE 362.3** be changed from:
  Prerequisite(s): EP 214 and EE 265 Prerequisite(s) or Corequisite(s): CME 341
  To Prerequisite(s): EP 214 and EE 265

  Material in CME 341 (HDL programming) was originally thought to be required to support laboratory content involving programmable hardware to be used in EE 362. The laboratories do not require using this hardware, and therefore the CME 341 prerequisite or corequisite is not required.