Western and Northern Canadian Protocol (WNCP) Common Mathematics Curriculum – November 22, 2010 version

The western provincial and territorial governments have developed and will be implementing a common curriculum framework for high school mathematics. The framework is a substantial change for Saskatchewan and is based on pathways (Apprentice and Workplace Mathematics, Foundations of Mathematics, and Pre-calculus) starting in Grade 10. Additional information about the common framework initiative can be found at http://www.wncp.ca/

Implementation is scheduled as follows:
Fall 2010: Implementation of new grade 10 courses; Fall 2011: Implementation of new grade 11 courses; Fall 2012: Implementation of new grade 12 courses

The University of Regina is currently in the process of advancing their admission requirements that include these new pathways and courses through our formal approval process. Please note that these new requirements are now in place unless otherwise noted:

Faculty of Arts

Add the following courses to the list of acceptable math and science courses:
- Foundations of Mathematics 30
- Pre-calculus 20
- Pre-calculus 30

New Admission Requirements:

➢ English Language Arts A30 and B30

➢ One math or science course chosen from Biology 30, Calculus 30, Chemistry 30, Computer Science 30, **Foundations of Mathematics 30**, Geology 30, Math A30, Math B30, Math C30, **Pre-calculus 20, Pre-calculus 30**, Physics 30

➢ One language, social science, or fine arts course chosen from Arts Education 30, Christian Ethics 30, Cree 30, Drama 30, Economics 30, French 30, Geography 30, German 30, History 30, Latin 30, Law 30, Mandarin 30, Music 30, Native Studies 30, Psychology 30, Saulteaux 30, Social Studies 30, Spanish 30, Ukrainian 30, Ukrainian Language Arts 30, Visual Art 30

➢ One additional course from the lists above.

Faculty of Business Administration

Add the following courses in addition to the current Math B30 requirement
- Foundations of Mathematics 30
- Pre-calculus 30

New Admission Requirements:

➢ English Language Arts A30 and B30

➢ Math B30 or **Foundations of Mathematics 30, or Pre-calculus 30**

➤ One 30-level language, social science, or fine arts course chosen from Arts Education 30, Christian Ethics 30, Cree 30, Drama 30, Economics 30, French 30, Geography 30, German 30, History 30, Latin 30, Law 30, Mandarin 30, Music 30, Native Studies 30, Psychology 30, Saulteaux 30, Social Studies 30, Spanish 30, Ukrainian 30, Ukrainian Language Arts 30, Visual Art 30.

➤ One additional 30-level course from the list above or one of Biology 30, Calculus 30, Chemistry 30, Computer Science 30, **Foundations of Mathematics 30,** Geology 30, Math A30, Math C30, **Pre-calculus 30** or Physics 30.

NOTE: It is recommended that students take both Foundations of Math 30 and Pre-Calculus 30 or have Pre-Calculus 20 in addition to Foundations of Mathematics 30.

Faculty of Education

Add the following courses to the list of acceptable math and science courses:
- Apprenticeship and Workplace Mathematics 30
- Foundations of Mathematics 30
- Pre-calculus 20
- Pre-calculus 30

New Admission Requirements:

➤ English Language Arts A30 and B30

➤ One math or science course chosen from **Apprenticeship and Workplace Mathematics 30**, Biology 30, Calculus 30, Chemistry 30, Computer Science 30, **Foundations of Mathematics 30**, Geology 30, Math A30, Math B30, or Math C30, **Pre-calculus 20, Pre-calculus 30**, Physics 30

➤ One language, social science, or fine arts course chosen from Arts Education 30, Band 30, Choral 30, Christian Ethics 30, Cree 30, Dance 30, Drama 30, Economics 30, French 30, Geography 30, German 30, History 30, Latin 30, Law 30, Mandarin 30, Music 30, Native Studies 30, Physical Education 30, Psychology 30, Saulteaux 30, Social Studies 30, Spanish 30, Ukrainian 30, Ukrainian Language Arts 30, Visual Art 30.

➤ One additional course from the lists above.

In Addition:

BEd Elementary: Math A30, Apprenticeship and Workplace Mathematics 30, Foundations of Mathematics 30 or Pre-calculus 30.

BEd Secondary with a major or minor in Math or Physics: Math B30 &C30 or Foundations of Mathematics 20 & Pre-calculus 30.

BEd Secondary with a major or minor in Chemistry: Math B30 &C30 or Foundations of Mathematics 20 & Pre-calculus 30; Chemistry 30; Physics 30.

Faculty of Engineering and Applied Science (Proposed)

Add the following courses in addition to the current Math B30 AND Math C30 requirement:
- Foundations 20
- Pre-calculus 30

New Admission Requirements:

➢ English Language Arts A30 and B30

➢ Math B30 and Math C30 **OR Foundations 20 <u>and</u> Pre-Calculus 30**

➢ Chemistry 30

➢ Physics 30

Faculty of Fine Arts

Add the following courses to the list of acceptable math and science courses:
- Apprenticeship and Workplace Mathematics 30
- Foundations of Mathematics 30
- Pre-calculus 20
- Pre-calculus 30

New Admission Requirements:

➢ English Language Arts A30 and B30

➢ One math or science course chosen from **Apprenticeship and Workplace Mathematics 30**, Biology 30, Calculus 30, Chemistry 30, Computer Science 30, **Foundations of Mathematics 30**, Geology 30, Math A30, Math B30, or Math C30, **Pre-calculus 20, Pre-calculus 30**, Physics 30

➢ One language, social science, or fine arts course chosen from Arts Education 30, Band 30, Choral 30, Christian Ethics 30, Communication Production Technology 30, Cree 30, Dance 30, Drama 30, Economics 30, French 30, Geography 30, German 30, History 30, Latin 30, Law 30, Mandarin 30, Music 30, Native Studies 30, Psychology 30, Saulteaux 30, Social Studies 30, Spanish 30, Ukrainian 30, Ukrainian Language Arts 30, Visual Art 30

➢ One additional course from the lists above

Faculty of Kinesiology and Health Studies

Add the following courses to the list of acceptable math and science courses:
- Pre-calculus 30 (for B.Kin) and Pre-calculus 30 or Foundations of Mathematics 30 (B. Sport and Rec. Studies)

New Admission Requirements:

Bachelor of Kinesiology
- English Language Arts A30 and B30[1]
- One of Math C30 or **Pre-Calculus 30**
- One of Biology 30, Chemistry 30, Physics 30

- One additional elective from Biology 30, Calculus 30, Chemistry 30, Computer Science 30, Economics 30, French 30, Food Studies 30, Geography 30, History 30, Law 30, Mathematics A30, B30, or C30, Foundations of Math 30, Native Studies 30, Physical Education 30, Physics 30, Psychology 30, Social Studies 30, Tourism, Hospitality, & Entrepreneurship B30

Bachelor of Sport and Recreation Studies (BSRS):

- English Language Arts A30 and B30
- One of Math B30, Math C30, **Foundations of Mathematics 30 or Pre-Calculus 30**
- One of Biology 30, Chemistry 30, Physics 30 or Computer Science 30 (SRM major)
- One additional Elective from Biology 30, Calculus 30, Chemistry 30, Computer Science 30, Economics 30, French 30, Geography 30, History 30, Law 30, Math A30, B30, or C30, Foundations of Mathematics 30, Pre-Calculus 30, Native Studies 30, Physical Education 30, Physics 30, Psychology 30, Social Studies 30, Tourism, Hospitality, & Entrepreneurship 30.

Faculty of Nursing

- English A30 and English B30
- One of Math A30, B30, C30, Calculus 30, **Foundations of Math 30 or Pre-calculus 30**
- Biology 30
- Chemistry 20 (Chemistry 30 is preferred)

Faculty of Science

Add the following courses in addition to the current Math B30 AND Math C30 requirement
- Pre-calculus 30

New Admission Requirements:

- ➢ English Language Arts A30 and B30

- ➢ Math B30 and Math C30 OR **Pre-Calculus 30**

- ➢ One of Biology 30, Chemistry 30, Computer Science, 30, or Physics 30

NOTE: For students planning to major in Mathematics, Statistics, Actuarial Science or other math intensive programs, the Department of Mathematics is recommending that students complete one of the following two sets of high school courses:

1) Pre-calc 20 and 30 + Foundations 20 and 30
2) Pre-calc 20 and 30 + Foundations 20 + Calculus 30

Faculty of Social Work

Add the following courses to the list of acceptable math and science courses:
- Apprenticeship and Workplace Mathematics 30
- Foundations of Mathematics 30

- Pre-calculus 20
- Pre-calculus 30

New Admission Requirements:

➢ English Language Arts A30 and B30

➢ One math or science course chosen from **Apprenticeship and Workplace Mathematics 30**, Biology 30, Calculus 30, Chemistry 30, Computer Science 30, **Foundations of Mathematics 30**, Geology 30, Math A30, Math B30, Math C30, **Pre-calculus 20, Pre-calculus 30**, Physics 30

➢ One language, social science, or fine arts course chosen from Arts Education 30, Christian Ethics 30, Cree 30, Drama 30, Economics 30, French 30, Geography 30, German 30, History 30, Latin 30, Law 30, Mandarin 30, Music 30, Native Studies 30, Psychology 30, Saulteaux 30, Social Studies 30, Spanish 30, Ukrainian 30, Ukrainian Language Arts 30, Visual Art 30

➢ One additional course from the lists above.

The University of Regina is in the process of examining the development of a number of 20- and 30-level, non-credit and credit courses that will assist students who want or require a mathematics pathway that they did not complete while in high school. We encourage students to complete the Common Grade 10 course for Foundations of Mathematics and Pre-calculus. This will provide the student with the most flexibility with the University of Regina math courses designed to assist students wanting to complete a pathway that they did not complete while in high school.

Please note that these motions are proposals that require approval at various levels of the University of Regina and as such are subject to change at any time. It is our hope that this information is a guide to inform students, parents, schools, and counselors until such time as the approval process is complete.