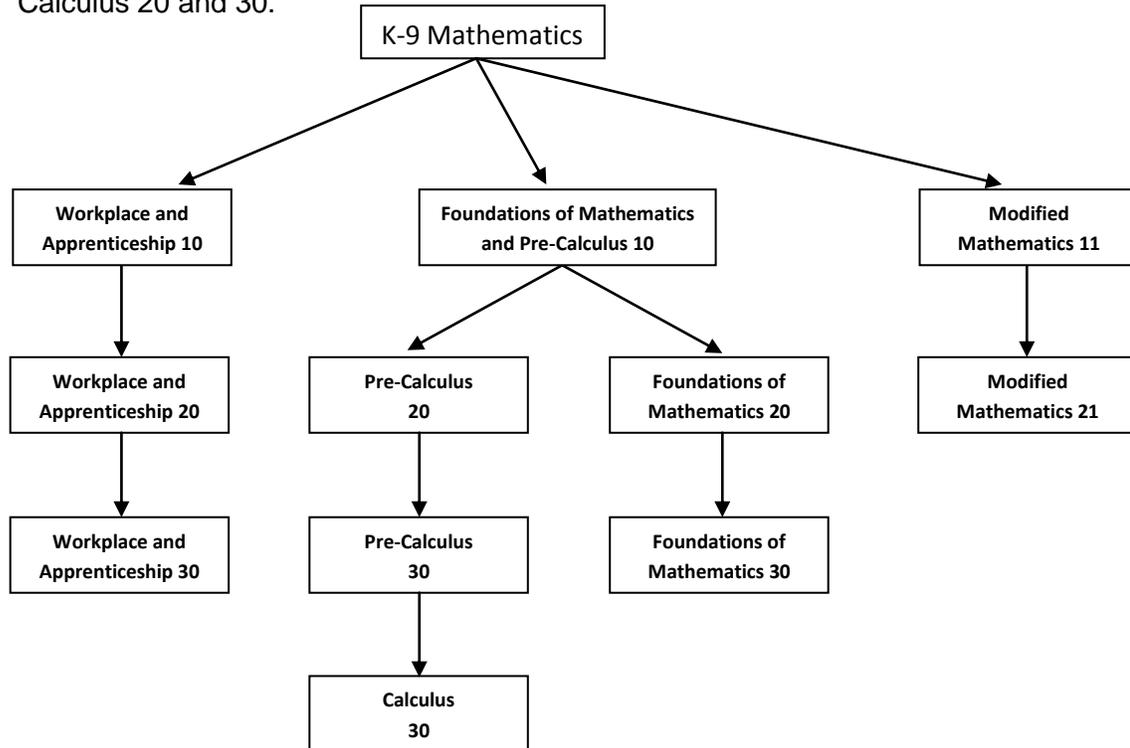


## New Math Curricula and Pathway Information

At the grade 10 level there are two courses offered and three at the grade 11 and 12 levels. Calculus is also offered at the grade 12 level. (See flow chart below)

### Notes:

- ▶ The modified math pathway is still offered but does limit entrance into most post-secondary programs for students.
- ▶ In order for a student to be eligible to take Calculus in grade 12, they must take Pre-Calculus 20 and 30.



**NOTE: It is the recommendation of the Math department as well as the Ministry of Education that ALL grade 10 students take both math courses. For more information, students can see Student Services.**

### WORKPLACE AND APPRENTICESHIP

- ▶ Mathematical understandings appropriate for apprenticeship and trades
- ▶ Students who enjoy practical and applied mathematics would be well-suited to this pathway.

### FOUNDATIONS

- ▶ Mathematics for non-math and non-science based university programs related to social sciences, nursing and humanities.
- ▶ Designed to provide mathematical understandings and critical thinking skills necessary for post secondary studies that do not require calculus.

### PRE-CALCULUS

- ▶ Mathematics for science-related areas.
- ▶ Designed to provide mathematical understandings and critical thinking skills necessary for post-secondary programs which require calculus.

## **UNIVERSITY OF REGINA ENTRANCE REQUIREMENTS**

### **Faculty of Arts**

- Foundations of Mathematics 30, Pre-Calculus 20 and Pre-Calculus 30 are on the list of acceptable mathematics courses.

### **Faculty of Fine Arts**

- Apprenticeship and Workplace Mathematics 30, Foundations of Mathematics 30, Pre-Calculus 20, and Pre-Calculus 30 are included as acceptable mathematics courses for admission

### **Faculty of Kinesiology and Health Studies**

- Pre-Calculus 30 (may have Foundations of Mathematics 30 as one of their elective courses)

### **Bachelor of Sport and Recreation Studies**

-Must have either Foundations of Mathematics 30 or Pre-Calculus 30 (may have Foundations of Mathematics 30 as one of their elective courses)

### **Faculty of Nursing**

- Foundations of Mathematics 30 or Pre-calculus 30 (\* Must have a min. grade of 70%)

### **Faculty of Social Work**

- Apprenticeship and Workplace Mathematics 30, Foundations of Mathematics 30, Pre-Calculus 20, and Pre-Calculus 30 are included as acceptable math courses

### **Centre for Continuing Education**

- Foundations of Mathematics 30, Apprenticeship and Workplace Mathematics 30, Pre-Calculus 20, and Pre-Calculus 30 are on the list of acceptable math classes

## **UNIVERSITY OF SASKATCHEWAN ENTRANCE REQUIREMENTS**

### **Admission Average Calculation**

-One of Foundations of Mathematics 30, Pre-Calculus 30 or Calculus 30

### **Agriculture and Bioresources**

-Foundations of Mathematics 30 or Pre-Calculus 30

### **Arts and Science**

-Foundations of Mathematics 30 or Pre-Calculus 30

### **Education (Direct Entry)**

-30-level mathematics

### **Edwards School of Business**

-Pre-Calculus 30 (recommended) or Foundations of Mathematics 30

### **Engineering**

-Pre-Calculus 30 and Calculus 30

### **Kinesiology**

-Foundations of Mathematics 30 (recommended) or Pre-Calculus 30

## **SIAST ENTRANCE REQUIREMENTS**

- ▶ Of the 121 direct entry programs offered by SIAST, many have an entrance requirement that *does not specify any particular mathematics requirement*.
- ▶ 46 specify math requirements, often with a minimum grade requirement (minimum of 70%)

### **Pre-calculus 30 (16 programs)**

- ▶ **Note: All of these programs include a math course that requires the use of calculus**
  - ▶ Architectural and Building Technologies
  - ▶ Architectural and Interior Technologies
  - ▶ Biotechnology
  - ▶ CAD/CAM Engineering Technology
  - ▶ Chemical Technology
  - ▶ Civil Engineering Technology
  - ▶ Computer Aided Design and Drafting Technology
  - ▶ Computer Engineering Technology
  - ▶ Electrical Engineering Technology
  - ▶ Electronics Engineering Technology
  - ▶ Electronic Systems Engineering Technology
  - ▶ Environmental Engineering Technology
  - ▶ Geomatics Technology
  - ▶ Instrumentation Engineering Technology
  - ▶ Mechanical Engineering Technology
  - ▶ Water Resources Engineering Technology

### **Foundations 30 or Pre-Calculus 30 (14 programs)**

- ▶ Business Certificate
- ▶ Business Information Systems
- ▶ Combined Laboratory and X-Ray Technology
- ▶ Computer Systems Technology
- ▶ Cytotechnology
- ▶ Health Information Management
- ▶ Medical Laboratory Technology
- ▶ Medical Radiologic Technology
- ▶ Nursing Education Program of Saskatchewan
- ▶ Power Engineering Technician
- ▶ Power Engineering Technology
- ▶ Practical Nursing
- ▶ Psychiatric Nursing
- ▶ Veterinary Technology

**Any 30 level (7 programs)**

- ▶ Forest Ecosystem Technology
- ▶ Funeral Service
- ▶ Geographic Information Science for Resource Management
- ▶ Integrated Resource Management
- ▶ Recreation and Tourism Management
- ▶ Refrigeration and Air Conditioning
- ▶ Resource and Environmental Law

**Workplace and Apprenticeship 30 or another 20 level math (3 programs)**

- ▶ Building Systems Technician
- ▶ Computer Networking Technician
- ▶ Electronics Technician

**Pre-Calculus 20 (1 program)**

- ▶ Radiation and Environmental Monitoring Technician

**Foundations of Math 20 (1 program)**

- ▶ Dental Assisting

**Foundations of Math 30 (1 program)**

- ▶ Occupational Therapist Assistant/Physical Therapist Assistant

**Any 20 level math (1 program)**

- ▶ Electrician

**Foundations 20 or Pre-calculus 30 (1 program)**

- ▶ Medical Laboratory Assistant

**Foundations of Math 30 or Workplace and Apprenticeship 30 (1 program)**

- ▶ Pharmacy Technician