

## Math Integrated B.Sc./B.Ed. Programs<sup>1</sup>

### Program Description

**First Degree: B.Sc. Double Major Math and Stats with Education**

**Second Degree: B.Ed. Second Teachable in Science**

1. 6h English or one language other than English
2. 3h computer science courses directed towards computer science or science students (either COMP 1113 or APSC 1413)
3. 18h in in any discipline recognised by the School of Education as fulfilling the Second Teachable requirements.
4. 60h in Education: Educ 3203, 41F3, 4333, 4003, 40A3, 40C3, 4263, 4553\*,4433, 4923, 4203, 4783, 4503, 4933, 4183, 4053, 4143\*\* , 4643\*\*, Educ elective.
5. 42h in Mathematics and Statistics so as to satisfy the requirements of a Bachelor of Science with Double Major, first major in Mathematics and Statistics: Math 1013, 1023, 1313, 1333, 2013, 2023, 2213, 2223, 2313, 15h additional at 3000/4000 level.
6. 6h electives from the Faculty of Arts.
7. 15h electives.

\*or approved elective in the visual arts area.

\*\*equivalent methods courses for second teachable areas other than science can be substituted.

### **NOTES:**

This is a five-year program with the 5th year being the equivalent of the present second year of the B.Ed. program.

- (a) Students will be admitted to the program on successful completion of Year 1.
- (b) Student qualifications will be reviewed on completion of Year 3, and continuation in the B.Ed. portion of the program will be contingent on this review.
- (c) Beyond the usual B.Sc. requirements, the criteria required for Education are:
  - a minimum average grade of B- in the Mathematics and Statistics courses offered to satisfy the 42h major requirements in Mathematics and Statistics
  - satisfactory performance in other courses. Normally, a minimum average grade of B-.
- (d) Students accepted according to (c) who successfully complete Year 4 of the program will be awarded the B.Sc. (Mathematics and Statistics with Education). Additionally, successful completion of the 5th year of the program will result in the awarding of the B.Ed. degree.
- (e) Students who are not accepted according to (c) will be able to complete the B.Sc. (Mathematics and Statistics) degree by an appropriate adjustment of their course offerings in their fourth year.

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<sup>1</sup>Version of March 20, 2011

## Math Integrated B.Sc./B.Ed. Programs<sup>2</sup>

### Program Description

**First Degree: B.Sc. Double Major Math and Stats with Education**

**Second Degree: B.Ed. Second Teachable in non-Science**

1. 6h English or one language other than English
2. 3h computer science courses directed towards computer science or science students (either COMP 1113 or APSC 1413)
3. 18h in any discipline recognised by the School of Education as fulfilling the Second Teachable requirements.
4. 60h in Education: Educ 3203, 41F3, 4333, 4003, 40A3, 40C3, 4263, 4553\*,4433, 4923, 4203, 4783, 4503, 4933, 4183, 4053, 4143\*\*, 4643\*\*, Educ elective.
5. 42h in Mathematics and Statistics so as to satisfy the requirements of a Bachelor of Science with Double Major, first major in Mathematics and Statistics: Math 1013, 1023, 1313, 1333, 2013, 2023, 2213, 2223, 2313, 15h additional at 3000/4000 level.
6. 6h electives from the Faculty of Arts.
7. 9h Science electives.
8. 6h electives.

\*or approved elective in the visual arts area.

\*\*equivalent methods courses for second teachable areas other than science can be substituted.

### **NOTES:**

This is a five-year program with the 5th year being the equivalent of the present second year of the B.Ed. program.

- (a) Students will be admitted to the program on successful completion of Year 1.
- (b) Student qualifications will be reviewed on completion of Year 3, and continuation in the B.Ed. portion of the program will be contingent on this review.
- (c) Beyond the usual B.Sc. requirements, the criteria required for Education are:
  - a minimum average grade of B- in the Mathematics and Statistics courses offered to satisfy the 42h major requirements in Mathematics and Statistics
  - satisfactory performance in other courses. Normally, a minimum average grade of B-.
- (d) Students accepted according to (c) who successfully complete Year 4 of the program will be awarded the B.Sc. (Mathematics and Statistics with Education). Additionally, successful completion of the 5th year of the program will result in the awarding of the B.Ed. degree.
- (e) Students who are not accepted according to (c) will be able to complete the B.Sc. (Mathematics and Statistics) degree by an appropriate adjustment of their course offerings in their fourth year.

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<sup>2</sup>Version of March 20, 2011

## Sample Course Progression

First Degree: B.Sc. Double Major Math and Stats with Education  
 Second Degree: B.Ed. Second Teachable in Science

	Fall Term	Winter Term
<b>Year 1</b>	<b>Math 1013</b> <b>Math 1313</b> English <b>2nd Teachable</b> <b>Programming</b>	<b>Math 1023</b> <b>Math 1333</b> English <b>2nd Teachable</b> Elective
<b>Year 2</b>	<b>Math 2013</b> <b>Math 2213</b> <b>Math 2313</b> <b>2nd Teachable</b> <b>Educ 41F3</b>	<b>Math 2023</b> <b>Math 2223</b> Elective <b>2nd Teachable</b> <b>Educ 4503</b>
<b>Year 3</b>	<b>Math 3XXX</b> <b>Math 3XXX</b> <b>2nd Teachable</b> Elective <b>Educ 4333</b>	<b>Math 3XXX</b> Elective <b>2nd Teachable</b> Elective <b>Educ 4143</b>
<b>Year 4</b>	<b>Math 3XXX</b> Elective Elective <b>Educ 4183</b> <b>Educ 2nd T</b>	<b>Math 3XXX</b> Elective <b>Educ 40C3</b> <b>Educ 4003</b> <sup>1</sup> <b>Educ 40A3</b> <sup>2</sup>
<b>Year 5</b>	<b>Educ 4263</b> <b>Educ 4553</b> <b>Educ 4433</b> <b>Educ 4203</b> <b>Educ 4923</b>	<b>Educ 4643</b> <b>Educ 4783</b> <b>Educ 4053</b> <b>Educ 2nd T</b> <b>Educ 4933</b>

## Program Description

**First Degree: B.Sc. with Honours in Math and Stats with Education**

**Second Degree: B.Ed.**

1. 6h English or one language other than English
2. 3h computer science courses directed towards computer science or science students (either COMP 1113 or APSC 1413)
3. 18h in any discipline recognised by the School of Education as fulfilling the Second Teachable requirements.
4. 60h in Education: Educ 3203, 41F3, 4333, 4003, 40A3, 40C3, 4263, 4553\*,4433, 4923, 4203, 4783, 4503, 4933, 4183, 4053, 4143\*\* , 4643\*\*, Educ elective.
5. 54h in Mathematics and Statistics so as to satisfy the requirements of a Bachelor of Science with Honours in Mathematics and Statistics: Math 1013, 1023, 1313, 1333, 2013, 2023, 2213, 2223, 2313, 3533; one of Math 3213 or 3303; Math 4996 and at least 15h additional at the 3000 /4000-level, of which 6h must be at the 4000 level, or Math 4913 and at least 18h additional at the 3000 /4000-level, of which 6h must be at the 4000 level, each completed with a minimum grade of B-. The 4000-level courses are to be approved by the department.
6. 6h electives from the Faculty of Arts.
7. 3h Science electives.

\*or approved elective in the visual arts area.

\*\*equivalent methods courses for second teachable areas other than science can be substituted.

### **NOTES:**

This is a five-year program with the 5th year being the equivalent of the present second year of the B.Ed. program.

- (a) Students will be admitted to the program on successful completion of Year 1.
- (b) Student qualifications will be reviewed on completion of Year 3, and continuation in the B.Ed. portion of the program will be contingent on this review.
- (c) Beyond the usual B.Sc. requirements, the criteria required for Education are:
  - a minimum average grade of B- in the Mathematics and Statistics courses offered to satisfy the 42h major requirements in Mathematics and Statistics
  - satisfactory performance in other courses. Normally, a minimum average grade of B-.
- (d) Students accepted according to (c) who successfully complete Year 4 of the program will be awarded the B.Sc. (Mathematics and Statistics with Education). Additionally, successful completion of the 5th year of the program will result in the awarding of the B.Ed. degree.
- (e) Students who are not accepted according to (c) will be able to complete the B.Sc. (Mathematics and Statistics) degree by an appropriate adjustment of their course offerings in their fourth year.

## Sample Course Progression

First Degree: B.Sc. with Honours in Math and Stats with Education

Second Degree: B.Ed.

	Fall Term	Winter Term
<b>Year 1</b>	<b>Math 1013</b> <b>Math 1313</b> English <b>2nd Teachable</b> <b>Programming</b>	<b>Math 1023</b> <b>Math 1333</b> English <b>2nd Teachable</b> Elective
<b>Year 2</b>	<b>Math 2013</b> <b>Math 2213</b> <b>Math 2313</b> <b>2nd Teachable</b> <b>Educ 41F3</b>	<b>Math 2023</b> <b>Math 2223</b> Elective <b>2nd Teachable</b> <b>Educ 4503</b>
<b>Year 3</b>	<b>Math 3533</b> <b>Math 3XXX</b> <b>2nd Teachable</b> Elective <b>Educ 4333</b>	<b>Math 3XXX</b> <b>Math 3XXX</b> <b>2nd Teachable</b> Elective <b>Educ 4383</b>
<b>Year 4</b>	<b>Math 3XXX</b> <b>Math 4996</b> <b>Math 4XXX</b> <b>Educ 4183</b> <b>Educ 2nd T</b>	<b>Math 4XXX</b> <b>Math 4996</b> <b>Educ 40C3</b> <b>Educ 4003<sup>3</sup></b> <b>Educ 40A3<sup>4</sup></b>
<b>Year 5</b>	<b>Educ 4263</b> <b>Educ 4553</b> <b>Educ 4433</b> <b>Educ 4203</b> <b>Educ 4923</b>	<b>Educ 4213</b> <b>Educ 4783</b> <b>Educ 4053</b> <b>Educ 2nd T</b> <b>Educ 4933</b>