Items for Approval

The Faculty of Science Graduate Admissions & Studies Committee has approved the following courses and offers them for approval.

1.0 Department of Mathematics and Statistics

Effective date for Motion 1.1: 201820

1.1 Motion to create the following new courses: MATH 803 Approved Summer School (3 or 6 credits) and STAT 803 Approved Summer School (3 or 6 credits).

MATH 803 is available to full-time Mathematics graduate students in good standing. Students will participate in a summer school offered by an approved institute. The school and credit award must be approved by the Graduate Coordinator for Mathematics and Statistics (or designee). Students may only take MATH 803 once.

STAT 803 is available to full-time Statistics graduate students in good standing. Students will participate in a summer school offered by an approved institute. The school and credit award must be approved by the Graduate Coordinator for Mathematics and Statistics (or designee). Students may only take STAT 803 once.

Rationale: Many nationally recognized institutions offer summer schools for graduate students. The four largest institutions are the Fields Institute, the Pacific Institute of the Mathematical Sciences (PIMS), Centre de Recherches Mathématiques (CRM), and Atlantic Association for Research in the Mathematical Sciences (AARMS). These offer unique opportunities for our graduate students to study specialized topics from experts. Typically, these summer schools are not formal classes (so they cannot be taken as transfer credit), but there are a very valuable learning experience for students. These courses would allow our students to participate in these schools for credit. This will also help the course based students to find enough courses through the summer.

Students will only be able to take this course once during their degree. Each summer school program would have to be approved by the Graduate Coordinator of the Mathematics and Statistics Department (or a designee) who will also determine the number of credits (3 or 6) that will be awarded for the summer school. This class will be a C/NC course; the student’s grade will be determined by the graduate coordinator for Mathematics and Statistics, possibly with consultation with the institute offering the course. Students will be required to complete a short report or give a presentation about the course (this will be decided by the graduate coordinator when the course is approved).

Effective date for Motion 1.2: 201730

1.2 Motion to create the following new course: MATH 829 Introduction to Commutative Algebra (3 credits).

A first graduate course in commutative algebra. Topics include prime and maximal ideals, radicals, Nakayama's Lemma, exact sequences, tensor products, localization, Noetherian and Artinian rings and selected additional topics.

Rationale: Commutative algebra is an important topic and the Mathematics and Statistics Department should have a graduate level course in it. This class will be cross-listed as MATH 420.