MEMORANDUM:

TO: Dr. Jerome Haky
         Chair, University Undergraduate Programs Committee (UUPC)

FROM: Dr. Mary Ann Gosser
         Chair, University Honors Council (UHC)

DATE: 28 March 2014

RE: Proposal for revised Honors in the Major in Mathematical Sciences

As per the Honors Curriculum Manual, the proposal was submitted to the College of Science Undergraduate Programs Committee (Spring 2014). The proposal was then discussed and approved by the University Honors Council this past, March 24th 2014.

We are now asking the UUPC to consider this revised program and give its approval.

Honors in Mathematical Sciences

The goals of the honors track include increasing student interest in the Mathematics major, encouraging majors to engage in mathematics more deeply, and increasing student participation in research and inquiry.

1   Entry requirements

The following items must be met before applying to the Honors in the Mathematical Sciences program:

1. Written support of a faculty member willing to serve as a mentor for a capstone experience.

2. Written commitment of at least one additional faculty member willing to review the capstone experience.

3. Completion of Calculus 1, 2, and 3 and at least 12 additional credits in Mathematical Sciences at the 2000-level or higher with at least half of these credits taken at FAU.

4. GPA of at least 3.3 in courses at 2000-level or higher in Mathematical Sciences at FAU and an overall FAU GPA of 3.3.

The student should complete the application form and submit it to the honors coordinator. The department honors committee will decide on acceptance into the program.

2   Standards to maintain status

A student must maintain 3.3 GPA in courses at 2000-level or higher in Mathematical Sciences at FAU and overall at FAU while in the Honors in the Mathematical Sciences program. If a student who has been accepted to the program subsequently drops below 3.3 GPA, the honors coordinator will inform the student that the honors designation will not be received unless the student's GPA is 3.3 or greater at the time of graduation. Students must adhere to the FAU Code of Academic Integrity which can be found at http://www.fau.edu/ctl/4.001_Code_of_Academic_Integrity.pdf.

3   Honors-level enrichment

Complete at least two of the following activities, which may be repeated:

1. Complete a graduate course in Mathematical Sciences at FAU at the 5000-level or higher (MST and DIS courses are excluded) with grade of B+ or higher.

2. Complete an honors course or a course with an honors compact in Mathematical Sciences at FAU at the 3000-level or 4000-level (DIS courses are excluded) with grade of B+ or higher.

3. Submit a mathematics paper to a student journal (or research journal) or the FAU Undergraduate Research Journal. Submission must be pre-approved by the faculty mentor.

4. Submit a solution to a mathematics problem posed in a student journal. Submission must be pre-approved by the faculty mentor.

5. Give an hour presentation at the Mathematical Sciences Colloquium or the Math Club explaining a research article that the student has read or an original result the student has obtained.

6. Give a presentation or poster in mathematics at a conference or the FAU Undergraduate Research Symposium.

7. Pass one actuarial exam.

4 Capstone requirement

Complete one of the following capstone experiences:

1. Write an honors thesis and achieve a grade of B+ or better in MAT 4970, Honors Thesis. At least one published research article must be read, and related published papers must be appropriately referenced in the thesis. The thesis must be reviewed and accepted by the faculty mentor and reviewer(s). The student must give a presentation, separate from (5) above, at the Mathematical Sciences Colloquium or the Math Club explaining the thesis.

2. Complete a semester-long internship and write a report, which must be reviewed and accepted by the faculty mentor and reviewer(s). The student must give a presentation at the Mathematical Sciences Colloquium or the Math Club describing the internship activities.

3. Complete a Research Experience for Undergraduates program and write a report, which must be reviewed and accepted by the faculty mentor and reviewer(s). The student must give a presentation, separate from (5) above, at the Mathematical Sciences Colloquium or the Math Club explaining the program activities and results.

Honors theses and capstone reports will be stored by the department and will be available to members of the department.

Upon completion of the program, students will receive the designation "Honors in the Mathematical Sciences" on their transcripts and an honors cord at graduation.

Approved by:

Department Chair: _Lee Klingler_   Date: _3/25/14_

College Curriculum Chair: _____   Date: _____

College Dean: _____   Date: _____

UUPC Chair: _____   Date: _____

Undergraduate Studies Dean: _____   Date: _____

UFS President: _____   Date: _____

Provost: _____   Date: _____

FAU

CHARLES E. SCHMIDT
COLLEGE OF SCIENCE
Department of Mathematical Sciences
Florida Atlantic University

Application for Honors in the Mathematical Sciences Program

Z# _____

Name: _____

Address: _____

Email: _____   Telephone: _____

Membership in professional and honor societies; honors and awards:

_____

_____

Faculty Mentor: All applicants **MUST** have an FAU faculty mentor in Mathematical Sciences willing to supervise the capstone experience, as well as a second faculty reviewer, before being admitted into the honors in the major program. Please contact the professors directly.

Name of Faculty Mentor: _____

Signature of Faculty Mentor: _____

Name of Faculty Reviewer: _____

Signature of Faculty Reviewer: _____

For your application to be considered, you must submit the following items:
1) this application form signed by a faculty mentor and a faculty reviewer
2) complete unofficial transcript with GPA and FAU Mathematical Sciences courses highlighted

Admission requirements are completion of Calculus 1, 2, and 3 and 12 additional credits at 2000-level or higher in the Mathematical Sciences with at least half of these credits taken at FAU. GPA of 3.3 in courses at the 2000-level in Mathematical Sciences at FAU and overall GPA of 3.3 at FAU.

I certify that the information given is complete and accurate.

_____   _____

Signature   Date

Deliver all application materials to Beth Broer in the Mathematical Sciences office, room SE 234.