Fayetteville State University’s Honors Program in Mathematics

The purpose of the Honors Program in Mathematics is to allow exceptionally able, ambitious, and self-motivated students to do independent, original work, as well as to pursue further study in the field of language and literature.

1.) **Admission.** Students majoring in Mathematics must complete an Application for Admission into the Honors Program (unfcsu.edu/honors), earn a minimum of 12 semester hours at FSU, and have a cumulative Grade Point Average of 3.2. Applications are accepted only in the spring semester. In addition, the student must secure two letters of recommendation (one of which must be from a college faculty) and write a 250-500 word essay. Admission is based on the student’s demonstrated Honors potential at FSU. Transfer students must not have more than 60 semester hours.

2.) **Courses.** A grade of “B” or better is required to earn honors credit for the course. (Failure to earn honors credit would not prevent a student from earning course credit with a final grade of “C” or “D”). The department requires that each student sign a contract for each honors course in the major. The contract explains the extra assignments and projects for the honors students enrolled in the course. To maintain eligibility to enroll in honors courses (or seek honors credit in regular classes), students must maintain a minimum cumulative 3.2

3.) Complete 21-24 hours of honors credit in consultation with the SBE Honors Coordinator in the major. Three hours (3) must be GEOG220 (World Regional Geography-Divers Global) or SOCI150 (The Global Society, our Honors Learning Community courses. Three hours may come from HUMN211 Humanities I; HUMN212 (Humanities II); HIST110 (World History to 1600); HIST120 (World History Since 1600); ENGL 211 (World Literature I); ENGL212 (World Literature II); or SPEE 200 (Introduction to Speech).

4.) **Service Learning Experiences, Events, and Other Extracurricular Activities.** Students in Honors Mathematics are assigned a departmental Honors Coordinator, who will design appropriate service learning experiences (internships, cooperative education, Study-Abroad, student conferences, etc.) in the program.

5.) **Certification Requirements.** To graduate with Honors in Mathematics, a student must complete 30 hours of honors credit, 12 of which are at the University College level, and 18 of which are in the major or upper division. The Mathematics honors student must complete the six honors courses from the following courses* in the major:

- MATH 242 Calculus with Analytical Geometry III
- MATH 331 Differential Equations I
- MATH 340 Topics in Mathematics
- MATH 361 Introduction to Modern Algebra I
- MATH 372 Linear Programming
- MATH 450 Selected Topics in Mathematics
- MATH 461 Theory of Real Variables
- MATH 472 Theory of Numbers

*MATH 362 and MATH 431 may be used to replace MATH 361 and MATH 331, respectively.

In consultation with the department Honors coordinator and the Honors Program director, the student must successfully complete at least three hours of independent research at the Honors level (part of the 18 hours) and write an honors thesis that is approved by two Mathematics faculty and the Honors Program. This requirement may also be satisfied by taking MATH 340 or MATH 450. The student must successfully

Math/CS-s2010
defend the Honors thesis based on research. Students who participate in a Study-Abroad may earn six credit hours toward their degree, thus reducing the 30 Honors credit expectation by six hours.

<table>
<thead>
<tr>
<th>Department Approval</th>
<th>Honors Program Approval</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date________________</td>
<td>Date____________________</td>
</tr>
</tbody>
</table>