

Action Plan for Mathematics Self Study, Fall 2024

Specific area where improvement is needed	Evidence to support the recommended change	Person(s) responsible for implementing the change	Timeline for implementation	Resources needed	Assessment Plan
Updating the major and the individual concentrations	We are using the MAA (Mathematical Association of America) for curriculum design. The two aspects of this that we are lacking is a statistics course in the major and including both breadth and depth of content in the major. This was pointed out by the external reviewer.	Curriculum Committee	2 years		After implementation, determine how well the new curriculum fits the MAA curriculum guidelines.
Increase the number of majors/minors	We are well below the number of majors that we had in 2016 (about 55) and we have trouble teaching some courses at the upper level due to this. A goal of 40 majors would support multiple upper-level courses per semester.	Chair in conjunction with admissions/marketing Departments.	5 years	Support from the Provost's office together with marketing and admission to increase the numbers of prospective majors.	Continue collecting data about the total number of majors from 2016 through the present and determine if the majors have increased as well as how well the total compares to the 2016 total.
Diversifying the Offerings of the Department	We have had to shrink the number of classes offered because of the low number of majors. We would like to offer a few other classes at the 3rd and 4th year level to increase the desirability of the major.	Curriculum Committee and Department chair	5 years	Support from the HNS dean and Provost's office to allow such courses to be taught at full credit.	Collect data about the number and type of courses taught over the years and determine if the total number has increased.

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Continued incorporation of internships in the major	Majors have been increasingly asking about internships over the past few years. Provide the information and resources to students to be able to sign up for internships.	Department Chair + internship coordinator + career services Department	2 years	Continued support related to internship information through handshake or other means.	Collect data about the total number of interns as well as placement company and other relevant data.
Provide better pathways for middle level licensure	The state requirements for middle and high school level mathematics teachers have changed recently to lower the level of mathematical content needed. The desire is to increase the number of graduates who will teach in middle school and the Mathematics Department should create a Math Ed major that will increase the number of graduates.	Curriculum Committee	2-5 years	Support from the Provost's office to help out the Department at the state level to complete needed paperwork.	Determine if there is a new Middle School major within two years and after five years determine the total number of middle majors (as well as if they have jobs in schools).
Formalize the Assessment of our Foundational and Service courses	The Mathematics Department recently performed an analysis of the effectiveness of the Foundational Mathematics courses and how students in these courses perform in their college-level courses. Additional assessment needs to be done at this level as well as the 1000-level for all service courses.	Department Chair with support from the Provost's office.	4 years	Support from the administration to perform the assessment either through summer stipends or APRs.	Determine if additional assessments have been done. If so, we should also react to suggestions made in the reports about changes to foundational or college-level courses.

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Examine course coordination for multisection service courses	Partly from our Curriculum Committee there is a need to coordinate multi-section courses to ensure that the desired material is being taught in all sections.	Curriculum committee	3 years	none	Determine from the Curriculum committee if courses are sufficiently covering the desired material.
Continue the effort of placing full-time faculty in gateway mathematics courses and increasing staffing as needed	Gateway course success is linked to having good teachers leading them and having full-time faculty with the focus and dedication on teaching at FSU is important.	Department Chair	1 year	Support from the HNS Dean and administration to ensure that we have a sufficient number of tenure-track and full-time faculty to cover all of the important mathematics courses.	Collect data and determine the total number and percentage of full-time faculty in gateway courses.
Revisit the Department Mission Statement	The external reviewer indicated that the Department Mission Statement is a bit out of date and should be revisited.	Department Chair and Entire Mathematics Department.	2 year	none	Determine if the Department has revisited the Mission Statement.