Mathematics for Secondary School Teachers (MSST)

Chairperson: Rebecca L. Sanders, Ph.D.
Program Director: Stephen J. Merrill, Ph.D.

M.S. in Mathematics for Secondary Teachers website (http://www.marquette.edu/mscs/grad-msst.shtml)

Degree Offered

Master of Science, students are admitted under Plan B (non-thesis option) but Plan A (thesis option) is also offered

Program Description

Although the mathematics for secondary school teachers (MSST) program is designed for teachers, it is also open to others who want to deepen their understanding of post-baccalaureate mathematics and mathematics education. Students may also choose core courses from the computational sciences program. This program does not prepare students for doctoral studies in pure mathematics.

Prerequisites for Admission

Applicants should have an undergraduate degree. Students whose previous mathematics coursework was not at least equivalent to a minor in mathematics may be required to complete some prerequisite undergraduate courses before beginning master’s courses.

Application Deadline

Applications are accepted on an ongoing basis. However, applicants should allow at least a month for the application process to be completed once all application materials have been submitted.

Application Requirements

Applicants must submit, directly to the Graduate School:

1. A completed application form and fee online (http://marquette.edu/grad/future_apply.shtml).
2. Official transcripts from all current and previous colleges/universities except Marquette.
3. Three letters of recommendation addressing the applicant’s academic qualifications for graduate study in the intended program.
4. (For international applicants only) GRE scores (General Test only).
5. (For international applicants only) a TOEFL score or other acceptable proof of English proficiency.

Mathematics for Secondary School Teachers Master’s Requirements

A master’s student must complete a plan of study prepared in cooperation with an adviser and approved by the Graduate Committee of the Department of Mathematics, Statistics and Computer Science.

A master’s student is admitted to the non-thesis program (Plan B) which requires at least 30 credit hours of coursework and a non-credit essay that reflects the student’s ability to synthesize source materials relating to a particular area of research or professional practice. An oral presentation of the essay is required.

A formal request to pursue a thesis (Plan A) must be approved by the department’s Graduate Committee and the Graduate School. The Plan A student must complete a minimum of 30 credit hours, including six credit hours of MSCS 6999 Master’s Thesis and submit a thesis that must be an original contribution to the student’s field of study. A public defense of the thesis is required.

The mathematics for secondary school teachers specialization requires successful completion of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MSCS 5310</td>
<td>History of Mathematical Ideas</td>
<td>3</td>
</tr>
<tr>
<td>MSCS 6953</td>
<td>Seminar in Mathematics Curriculum Development and Material 1</td>
<td>3</td>
</tr>
<tr>
<td>or MSCS 6954</td>
<td>Seminar in Mathematics Curriculum Development and Material 2</td>
<td>3</td>
</tr>
</tbody>
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Total Credit Hours 6