

Indiana Professional Standards Board Standards for Teachers of Mathematics

A Component of Indiana University's School of Education Unit Assessment System

IPSB Standards	Addressed/Evaluated	Source of Evidence	Criteria
<p><i>IPSB Content Standard 1</i> Understands key concepts, procedures of mathematics, mathematics curriculum, and structures within the discipline & its interaction with technology.</p>	<p><i>IPSB Content Standard 1</i></p> <ul style="list-style-type: none"> • General education course requirements for entry into program. • <u>M354</u>: Secondary School Mathematics Curriculum and Assessment • <u>M302</u>: Field Experience in Secondary Mathematics (taken concurrently with M354) 	<p><i>IPSB Content Standard 1</i></p> <ul style="list-style-type: none"> • Before entry into program, completes required general education courses with minimum GPA of 2.5 <u>and</u> passage of Praxis I basic skills test. • <u>M354</u>: Major Assignments 1 and 2 • <u>M354</u>: Exams 1 and 2 • <u>M302</u>: See Example Topic 	<p><i>IPSB Content Standard 1</i></p> <ul style="list-style-type: none"> • <i>See: IU Care</i> • <u>M354</u>: Major Assignments 1 and 2 Rubrics • <u>M354</u>: Exams 1 and 2 Rubrics • <u>M302</u>: See Example Topic
<p><i>IPSB Content Standard 2</i> Understands how students learn mathematics & provides learning opportunities that supports students' intellectual, social, personal development.</p>	<p><i>IPSB Content Standard 2</i></p> <ul style="list-style-type: none"> • <u>M354</u>: Secondary School Mathematics Curriculum and Assessment • <u>M457</u>: Teaching Mathematics in Secondary School • <u>M302/M402</u>: Field Experiences in Secondary Mathematics (taken concurrently with M354 and M457) 	<p><i>IPSB Content Standard 2</i></p> <ul style="list-style-type: none"> • <u>M354</u>: Major Assignment 2 • <u>M354</u>: Exams 1 and 2 • <u>M457</u>: Major Assignments 1 and 2 • <u>M457</u>: Exams 1 and 2 • <u>M302/M402</u>: See Example Topics 	<p><i>IPSB Content Standard 2</i></p> <ul style="list-style-type: none"> • <u>M354</u>: Major Assignment 2 Rubric • <u>M354</u>: Exams 1 and 2 Rubrics • <u>M457</u>: Major Assignments 1 and 2 Rubrics • <u>M457</u>: Exams 1 and 2 Rubrics • <u>M302/M402</u>: See Example Topics
<p><i>IPSB Content Standard 3</i> Understands how students differ in their approaches to learning & creates instructional opportunities adapted to diverse learners.</p>	<p><i>IPSB Content Standard 3</i></p> <ul style="list-style-type: none"> • <u>M354</u>: Secondary School Mathematics Curriculum and Assessment • <u>M457</u>: Teaching Mathematics in Secondary School • <u>M302/M402</u>: Field Experiences in Secondary Mathematics (taken concurrently with M354 and M457) 	<p><i>IPSB Content Standard 3</i></p> <ul style="list-style-type: none"> • <u>M354</u>: Major Assignment 2 • <u>M354</u>: Exam 1 • <u>M457</u>: Major Assignments 1 and 2 • <u>M457</u>: Exams 1 and 2 • <u>M302/M402</u>: See Example Topics 	<p><i>IPSB Content Standard 3</i></p> <ul style="list-style-type: none"> • <u>M354</u>: Major Assignment 2 Rubric • <u>M354</u>: Exam 1 Rubric • <u>M457</u>: Major Assignments 1 and 2 Rubrics • <u>M457</u>: Exams 1 and 2 Rubrics • <u>M302/M402</u>: See Example Topics

<p><i>IPSB Content Standard 4</i> Understands & uses variety of instructional strategies to encourage students' development of critical thinking, problem-solving, and performance skills.</p>	<p><i>IPSB Content Standard 4</i></p> <ul style="list-style-type: none"> • <u>M457</u>: Teaching Mathematics in Secondary School • <u>M402</u>: Field Experience in Secondary Mathematics (taken concurrently with M457) 	<p><i>IPSB Content Standard 4</i></p> <ul style="list-style-type: none"> • <u>M457</u>: Major Assignments 1 and 2 • <u>M457</u>: Exams 1 and 2 • <u>M402</u>: See Example Topics 	<p><i>IPSB Content Standard 4</i></p> <ul style="list-style-type: none"> • <u>M457</u>: Major Assignments 1 and 2 Rubrics • <u>M457</u>: Exams 1 and 2 Rubrics • <u>M402</u>: See Example Topics
<p><i>IPSB Content Standard 5</i> Uses an understanding of individual & group motivation & behavior to create a learning environment that encourages positive social interaction, active engagement in learning, & self-motivation.</p>	<p><i>IPSB Content Standard 5</i></p> <ul style="list-style-type: none"> • <u>M457</u>: Teaching Mathematics in Secondary School • <u>M402</u>: Field Experience in Secondary Mathematics (taken concurrently with M457) 	<p><i>IPSB Content Standard 5</i></p> <ul style="list-style-type: none"> • <u>M457</u>: Major Assignment 2 • <u>M402</u>: See Example Topics 	<p><i>IPSB Content Standard 5.1</i></p> <ul style="list-style-type: none"> • <u>M457</u>: Major Assignment 2 Rubric • <u>M402</u>: See Example Topic
<p><i>IPSB Content Standard 6</i> Uses knowledge of effective verbal, nonverbal, and media communication techniques to foster active inquiry, collaboration, and supportive classroom interaction.</p>	<p><i>IPSB Content Standard 6</i></p> <ul style="list-style-type: none"> • <u>M457</u>: Teaching Mathematics in Secondary School • <u>M402</u>: Field Experience in Secondary Mathematics (taken concurrently with M457) 	<p><i>IPSB Content Standard 6</i></p> <ul style="list-style-type: none"> • <u>M457</u>: Major Assignment 2 • <u>M402</u>: See Example Topics 	<p><i>IPSB Content Standard 6</i></p> <ul style="list-style-type: none"> • <u>M457</u>: Major Assignment 2 Rubric • <u>M402</u>: See Example Topic
<p><i>IPSB Content Standard 7</i> Plans instruction based upon knowledge of subject matter, students, community, & curriculum goals.</p>	<p><i>IPSB Content Standard 7</i></p> <ul style="list-style-type: none"> • <u>M457</u>: Teaching Mathematics in Secondary School • <u>M402</u>: Field Experience in Secondary Mathematics (taken concurrently with M457) 	<p><i>IPSB Content Standard 7</i></p> <ul style="list-style-type: none"> • <u>M457</u>: Major Assignment 2 • <u>M457</u>: Exams 2 • <u>M402</u>: See Example Topics 	<p><i>IPSB Content Standard 7</i></p> <ul style="list-style-type: none"> • <u>M457</u>: Major Assignment 2 Rubric • <u>M457</u>: Exam 2 Rubric • <u>M402</u>: See Example Topics
<p><i>IPSB Content Standard 8</i> Understands & uses formal & informal assessment strategies to evaluate, ensure ongoing intellectual, social, & personal development of learners.</p>	<p><i>IPSB Content Standard 8</i></p> <ul style="list-style-type: none"> • <u>M354</u>: Secondary School Mathematics Curriculum and Assessment • <u>M457</u>: Teaching Mathematics in Secondary School • <u>M302/M402</u>: Field Experiences in Secondary Mathematics (taken concurrently with M354 and M457) 	<p><i>IPSB Content Standard 8</i></p> <ul style="list-style-type: none"> • <u>M354</u>: Major Assignment 4 • <u>M354</u>: Exam 2 • <u>M457</u>: Major Assignments 1 and 2 • <u>M457</u>: Exams 1 and 2 • <u>M302/M402</u>: See Example Topics 	<p><i>IPSB Content Standard 8</i></p> <ul style="list-style-type: none"> • <u>M354</u>: Major Assignment 4 Rubric • <u>M354</u>: Exam 2 Rubric • <u>M457</u>: Major Assignments 1 and 2 Rubrics • <u>M457</u>: Exams 1 and 2 Rubrics • <u>M302/M402</u>: See Example Topics

<p><i>IPSB Content Standard 9</i> Is a reflective practitioner who evaluates effects of his/her choices, actions on others, and actively pursues professional growth opportunities.</p>	<p><i>IPSB Content Standard 9</i></p> <ul style="list-style-type: none"> • <u>M457</u>: Teaching Mathematics in Secondary School • <u>M402</u>: Field Experience in Secondary Mathematics (taken concurrently with M457) 	<p><i>IPSB Content Standard 9</i></p> <ul style="list-style-type: none"> • <u>M457</u>: Major Assignments 2 • <u>M457</u>: Exams 2 • <u>M402</u>: See Example Topics 	<p><i>IPSB Content Standard 9</i></p> <ul style="list-style-type: none"> • <u>M457</u>: Major Assignment 2 Rubric • <u>M457</u>: Exam 2 Rubric • <u>M402</u>: See Example Topics
<p><i>IPSB Content Standard 10</i> Fosters relationships with school colleagues, parents, families, and agencies in larger community to support student learning & well-being.</p>	<p><i>IPSB Content Standard 10</i></p> <ul style="list-style-type: none"> • <u>M457</u>: Teaching Mathematics in Secondary School • <u>M402</u>: Field Experience in Secondary Mathematics (taken concurrently with M457) 	<p><i>IPSB Content Standard 10</i></p> <ul style="list-style-type: none"> • <u>M457</u>: Major Assignments 2 • <u>M402</u>: See Example Topics 	<p><i>IPSB Content Standard 10</i></p> <ul style="list-style-type: none"> • <u>M457</u>: Assignment 2 Rubric • <u>M402</u>: See Example Topic