

SECONDARY TEACHING EMPHASIS OPTION

This option is offered within the following major(s):

- Mathematics - College of Science (<http://catalog.oregonstate.edu/college-departments/science/mathematics/mathematics-bs-hbs/>)

Students preparing for careers teaching mathematics at the secondary level may major in mathematics with the following transcript-visible option. This option helps prepare students to pursue a teaching licensure program in their fifth year.

Option Code: 234

A grade of at least C– and a GPA of 2.25 are required in all mathematics courses used to fulfill degree requirements. No course used to fulfill requirements for the mathematics major or any of its options may be taken S/U.

First Year		Credits
MTH 251	*DIFFERENTIAL CALCULUS	4
MTH 252	INTEGRAL CALCULUS	4
MTH 253	INFINITE SERIES AND SEQUENCES	4
PH 211	*GENERAL PHYSICS WITH CALCULUS	4
Baccalaureate core courses		29
Credits		45
Second Year		
MTH 254	VECTOR CALCULUS I	4
MTH 255	VECTOR CALCULUS II	4
MTH 256	APPLIED DIFFERENTIAL EQUATIONS	4
MTH 341	LINEAR ALGEBRA I	3
Baccalaureate core courses		13
Other electives		17
Credits		45
Third Year		
MTH 311 & MTH 312	ADVANCED CALCULUS I and ADVANCED CALCULUS II	8
MTH 338	*NON-EUCLIDEAN GEOMETRY	3
MTH 342	LINEAR ALGEBRA II	4
MTH 343	INTRODUCTION TO MODERN ALGEBRA	4
MTH 355	DISCRETE MATHEMATICS	3
MTH 361	INTRODUCTION TO PROBABILITY	3
Baccalaureate core courses		6
Other electives		15
Credits		46
Fourth Year		
MTH 491 & MTH 492 & MTH 493	ALGEBRA AND GEOMETRIC TRANSFORMATIONS and ALGEBRA AND GEOMETRIC TRANSFORMATIONS and ALGEBRA AND GEOMETRIC TRANSFORMATIONS	9
SED 414	INQUIRY IN MATHEMATICS AND MATHEMATICS EDUCATION	3
ST 351	INTRODUCTION TO STATISTICAL METHODS	4
Electives		28
Credits		44
Total Credits		180

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Baccalaureate Core Course (BCC)

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Writing Intensive Course (WIC)

A grade of at least C– and a GPA of 2.25 are required in all upper-division mathematics courses used to fulfill degree requirements.

- Students wanting a stronger background in statistics may substitute ST 421 for ST 351.
- Students wanting a stronger background in probability may substitute MTH 463, Probability I, (usually taken in the senior year) for MTH 361.
- Students wanting a stronger background in mathematics should choose some electives from the 400-level courses listed in the Mathematics major.

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