



# SCHOOL OF EDUCATION ADVISING GUIDE

## Post-Baccalaureate Licensure in Secondary Mathematics (7<sup>th</sup>-12<sup>th</sup> Grade) (Fall 2016 catalog year and later)

Name: \_\_\_\_\_ 900# \_\_\_\_\_

All courses required for licensure must be passed with a grade of C- or better.

All licensure students must complete the School of Education admission process.

Please see your Secondary Education advisor and approved Mathematics advisor to plan your course of study.

### CONTENT COURSES

Please see an approved Mathematics advisor for transcript evaluation and suggested courses. Please note, some upper level classes are offered only once per year.

Required Coursework (MSU Denver options listed, but substitutions may be acceptable.)	Content Category	Substitute Coursework (Describe Alignment)	Credit Hours	Completed When?	Grade (C or better only)	Advisor Initials
MTH 1410-4 Calculus I	6,12					
MTH 2410-4 Calculus II	6,12					
MTH 3100-3 Introduction to Mathematical Proofs	2,3,5,9					
MTH 3470-3 Introduction to Discrete Mathematics and Modeling	13					
MTH 3110-3 Abstract Algebra I	2,3,5,9,10					
MTH 4140-4 Linear Algebra	2,3,5,10					
MTH 3210-4 Probability and Statistics	6,14					
MTH 3650-3 Foundations of Geometry	2,3,5,6,11,15					
MTH 4640-4 History of Mathematics	1,2,3,4,5,9,16					
<b>Content Courses Total:</b>			<b>32 hrs.</b>			

### Required Mathematics Content Methods Courses

MTL 3620-4 (Fall only)	Math of the Secondary Curriculum	1,2,3,4,5,6,15				
MTL 3630-3 (Spring only)	Teaching Secondary Mathematics	1,6,7,8				
MTL 3680-2	Secondary Mathematics Field Experience (80 hour field experience, must be taken concurrently with MTL 3630)	1,6,7,8				
<b>Mathematics Methods Total:</b>			<b>9 hrs.</b>			

Content Categories		
(1) Knowledge of Problem Solving (2) Knowledge of Reasoning and Proof (3) Knowledge of Mathematical Communication (4) Knowledge of Mathematical Connections (5) Knowledge of Mathematical Representation	(6) Knowledge of Technology (7) Dispositions (8) Knowledge of Mathematics Pedagogy (9) Knowledge of Number and Operations (10) Knowledge of Different Perspectives on Algebra	(11) Knowledge of Geometries (12) Knowledge of Calculus (13) Knowledge of Discrete Mathematics (14) Knowledge of Data Analysis, Statistics, and Probability (15) Knowledge of Measurement (16) Knowledge of the History of Mathematics

Based on my review, this student has completed all content area requirements for Secondary Mathematics licensure.

SIGNATURE OF  
**MATHEMATICS ADVISOR:** \_\_\_\_\_

DATE: \_\_\_\_\_

CONTENT GPA: \_\_\_\_\_

**TEACHER EDUCATION COURSES**

*Courses listed with heavy outlines must be taken together.*

Course	Substitute Course # / Title / College	Credit Hours	When?	Grade	Advisor Initials
EDS 3130-4*	Foundations of Educational Psychology and Philosophy				
EDS 3140-1*	First Field Experience in Secondary Education (60-hour field experience)				
EDS 3150-3*	Issues in Multicultural Education in Urban Secondary Schools (Must be taken concurrently with or after completion of EDS 3130 and EDS 3140)				
EDT 3010-3	Integrating Educational Technology into Teaching				
SED 3600-3	Exceptional Learners in the Classroom				
EDS 3210-3**	Classroom Management, Planning, and Assessment in Secondary Schools				
EDS 3240-1**	Field Experience: Classroom Management, Planning, and Assessment in Secondary Schools (60-hour field experience)				
RDG 3280-3**	Teaching Content Literacy Skills				
MTL 4690-12**	Student Teaching and Seminar: Secondary 7-12				
<b>TEACHER EDUCATION COURSES TOTAL</b>		<b>33</b>			

\* Requires at least provisional admission to the School of Education.

\*\* Requires formal admission to the School of Education.

*In addition to the courses on this guide, you may also be required to complete additional coursework to meet the State of Colorado's standards for English language learners. You must meet with a School of Education faculty advisor to have your ELL requirements entered and approved below.*


*Before you begin student teaching, you will need all content area courses on the front of this guide initialed by an appropriate content area advisor. You will also need all of the education courses on this side of the guide initialed by your education advisor, as well as your education advisor's signature below once all courses have been initialed.*

Based on my review, this student is eligible to apply for student teaching.

SIGNATURE OF  
**EDUCATION ADVISOR:** \_\_\_\_\_

DATE: \_\_\_\_\_

**Please visit the School of Education website for updated licensure exam requirements for Secondary Mathematics Education.**