

**ADVISING CHECKLIST FOR BSE SECONDARY MATHEMATICS (Grades 6-12) & MIDDLE SCHOOL
(Grades 5-8) MATHEMATICS**

MATHEMATICS

CORE COURSES ¹

<u>Class</u>		<u>Hours</u>
___CS130	Micro Prob Solve ³	3
___MA125	Introduction to Math ³	1
___MA161	Calculus I ²	5
___MA240	Discrete Math	3
___MA291	Math Modeling ³	3
___MA322	Linear Algebra	3
___MA460	History of Math ³	1
___MA470	Teach Sec Math ⁴	3

OPTION A (2 Fields for Grades 6-12)

Complete CORE COURSES and following:
(minimum – 38 hours)

___MA262	Calculus II	5
___MA380	Prob & Stats ⁴	3
___MA421	College Geometry ⁴	5
___MA425	Abstract Algebra	3

OPTION B (1 Field for Grades 6-12) Complete

OPTION A above and following:

(minimum – 44 hours)

___MA263	Calculus III ³	3
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Take One of The Following

___MA532	Math Stat I ³	3
___MA727	Grp, Rng,Flds ⁵	3
___MA728	Vector Spaces ⁵	3

OPTION C (Middle School Math Grades 5-8)

Complete CORE COURSES and the following

(minimum – 36 hours)

___MA112	Trigonometry	2
___MA307	El/Mid Sch Math I	3
___MA308	El/Mid Sch Math II	3
___MA313	Geo. For El/ Math Sch Teachers ⁴	3
___MA341	Intro to Prob & Stat ³	3

OTHER REQUIREMENTS

2.6 avg. required in math courses

45 hours above 300 level required

Electives to complete a total of 124 hours

¹ MA 110 College Algebra, MA 112 Trigonometry OR MA 160 Functions of Calculus may be required if math background is insufficient

² Middle school majors may take MA 165 Basic Calculus

³ Offered in Fall only

⁴ Offered in Spring only

⁵ Offered Alternately every other year

GENERAL EDUCATION REQUIREMENTS

Phase I Admission 2.75 in core

**=must have a “C” or better in these courses. One general education class must be a multicultural “M” section.

<u>Class</u>		<u>Hours/Grade</u>
___MA161	Calculus I **	5 ___
___EG101	English Comp I **	3 ___
___EG102	English Comp II **	3 ___
___SP101	Public Speak	3 ___
___PE100	Lifetime Fit	1 ___
___MU/TA/AR	Fine Arts	2 ___
___PY100	Intro Psych	3 ___
___GE101	World Reg Geo	3 ___
___GB100	General Bio	3 ___

History (3 hours)

Choose one:

___HI101	___HI102	
___HI111	___HI112	3 ___

Literature & Ideas (3 hours)

Choose one:

___EG207	___PI225	3 ___
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Physical Science (5 hours)

Choose one:

___CH110/111	___ES110/111	
___PH110/111		5 ___

Professional Education

**=must have a “C” or better in these courses

___ED220/EL220	Intro To Teach**	2
___SD550	Survey of Except	3
___EL416	Tch Read in Sec School	2

___Pass PPST Writing, Reading, Math or
CAPP for Phase I admittance

___100 Hour Requirement

(Over)

PHASE I (9 Hours)

<input type="checkbox"/> ED333	Principles of Secondary Education	4
<input type="checkbox"/> ED334	Classroom Management	3
<input type="checkbox"/> PY334	Education Psychology	2

PHASE II (14 Hours)

<input type="checkbox"/> LE480	Student Teaching, Middle Level	12	Required for Option C
OR			
<input type="checkbox"/> LE487	Student Teaching Secondary	12	
<input type="checkbox"/> ED431	Professional Relations of Teachers	2	

ADDITIONAL GENERAL EDUCATION REQUIREMENTS

<input type="checkbox"/> PE	Activity Course (or MU225)	1	<input type="checkbox"/> EC101	Intro to Economics	3
<input type="checkbox"/> PY211	Developmental Psych	3-4	<input type="checkbox"/> GB101	Gen Biology Lab	1

Fine Arts (2 Hours)

Choose an additional course not used as your General Education Requirement for Phase I:

<input type="checkbox"/> AR105	Art Appreciation	2	<input type="checkbox"/> MU226	Music Appreciation	2
<input type="checkbox"/> TA125	Theatre Appreciation	2			

Applied Sciences

Choose one:

<input type="checkbox"/> HL150	Health for Human Wholeness	3	<input type="checkbox"/> BU241	Personal Finance	3
<input type="checkbox"/> SO261	Marriage and Family	3			

Miscellaneous**Junior Year:**

- Complete teaching field contract
- Apply for degree (this starts the degree process)

Senior Year:

- Take PRAXIS Principles of Learning and Teaching
- Take PRAXIS Mathematics Content Knowledge Exam

January 2005