



**B.A.E. Secondary Education (Mathematics)  
Secondary Education Program (SED)  
Initial Teacher Certification (ITC) program**

**Catalog: 2007-2008**

NOTE: To determine catalog year, please refer to the "Guidelines for Determination of Catalog Year" in the undergraduate general catalog.

**I. First Year Composition (3-6 hours)**

	ASU Hours	Trans Hours	Gr	Upp Div
ENG 101:First Year Comp 1 (3) and	3			
ENG 102:First Year Comp 2 (3) <i>or, if eligible</i>	3			
ENG 105: Advance First Year Comp (3)	3			

Sub Total (I): 3-6

**II. University General Studies (36 hours)**

**Awareness Areas** (6 hrs. minimum and must fulfill all 3)

Double counting is permissible between Awareness Areas, other courses that fulfill graduation requirements, and within the Awareness Areas.

- \_\_\_\_\_ Global Awareness (G)
- \_\_\_\_\_ Historical Awareness (H)
- SPE 311 \_\_\_\_\_ Cultural Diversity (C)

**Humanities/Fine Arts & Social/Behavioral Sciences (15 hours)**

Required: 15 hours combined; 6 hours in one area, 9 hrs in the other AND one course must be upper division.

HU:	3			
HU:	3			
SB: EDP 311	3			X
SB: SPE 311	3			X
HU or SB:	3			

**Natural Sciences (8 hours)**

SQ:	4			
SG:	4			

**Literacy and Critical Inquiry (6 hours)**

L: SPF 301	3			X
L: MAT 300	3			

**Mathematics & Statistics/Computer Applications (7 hours)**

MA: MAT 270	4			
CS: CSE 100, CSE 110, or CSE 200	3			

Sub Total (II): 36

<b>ASU 101: The ASU Experience</b>	<b>1</b>			
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**III. College of Education Requirements (3 hours)**

SPE 311: Orient. Ed of Exceptional Child	3			X
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Sub Total (III): 3

**IV. SED Program Requirements (44 hours)**

Courses will change depending on the semester a student is admitted to the program. An updated program check sheet will be provided upon ITC admission.

BLE 407: SEI for Secondary Education	3			X
EDP 303: Human Development <i>or</i>	3			X
EDP 313: Childhood & Adolescent Develop.	3			X
EDP 311: Educational Psychology	3			X
EDT 300: Computers in Education	1			X
RDG 301: Literacy & Inst. in Content Area	3			X
SPE 417: Inclusion Practices at SED Level	3			X
SPF 301: Culture and Schooling	3			X
SPF 401: Teachers and the Law	1			X
SED 403: Middle/SED Princ. Curr. & Meth.*	3			X
SED 496: Field Experience	1			X
MTE 482: Meth. Teach. Math. Sec. Sch.*	3			X
SED 496: Field Experience	1			X
MTE 494: Adv. Meth. Teach. Math. Sec. Sch.*	3			X
SED 496: Field Experience	1			X
SED 478: Student Teaching	12			X

Sub Total (IV): 44

\* Course requires concurrent enrollment in field experience.

**V. Academic Specialization (36 hours)**

	ASU Hours	Trans Hours	Gr	Upp Div
<i>Select one of the following:</i>				
CSE 100: Principles of Programming w/C++	3			
CSE 110: Principles of Programming w/Java				
CSE 200: Concepts of Computer Science				
MAT 270: Calculus w/Analytical Geometry I	4			
MAT 271: Calculus w/Analytical Geometry II	4			
MAT 272: Calculus w/Analytical Geometry III	4			
MAT 300: Mathematical Structures	3			X
MAT 310: Introduction to Geometry	3			X
MAT 342: Linear Algebra	3			X
MTE 483: Mathematics in Secondary Schools	3			X
STP 420: Introductory Applied Statistics	3			X
MAT 370: Intermediate Calculus <i>or</i>	3			X
MAT 371: Advanced Calculus I				
<i>Select one of the following:</i>				
MAT 443: Introduction to Abstract Algebra	3			X
MAT 445: Theory of Numbers				
MAT 447: Cryptography				

Sub Total (V): 36

**VI. Free Electives<sup>1</sup> (0-18 hours)**


Sub Total (VI): 0-18

I. & II. University Requirements	III. College Requirements	IV. Program Requirements	V. Academic Specialization	VI. Free Electives <sup>1</sup>	Double Dipping	Total
39-42	3	44	36	0-17	-19	120

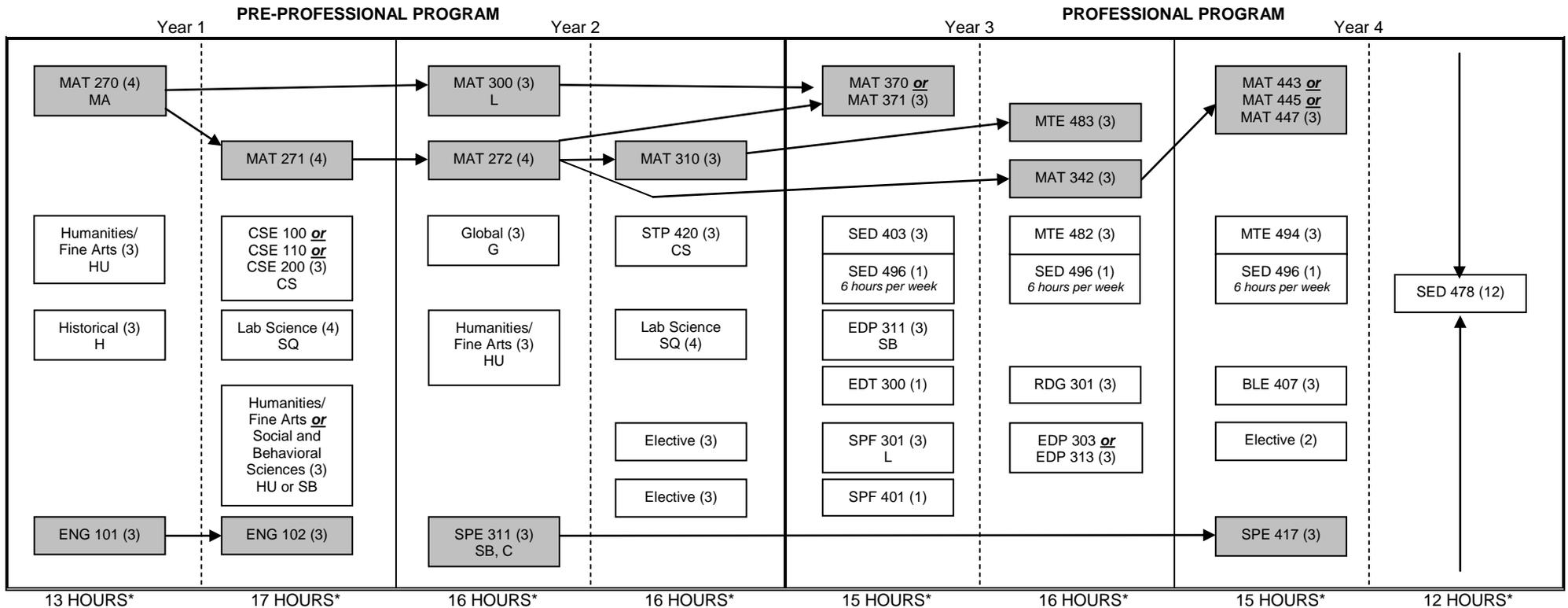
<sup>1</sup>Depending on how students share required courses with general studies, the number of elective hours varies.

Students will be recommended for a middle grade endorsement upon completion of EDP 313, SED 403 (with a "C" or better), and student teaching in grades 7-9. (The endorsement requirements are determined by the Department of Education and are subject to change.)

Initial Teacher Certification (ITC) programs in the College of Education have pre-requisite coursework and experience. A formal potyfolio is required to begin the ITC courses. Please refer to our website, <http://coe.asu.edu/oss> for more information about our programs, courses, application process, and admission criteria.

## BAE in Secondary Education (Mathematics)

College of Education students complete pre-professional coursework and then apply to the Initial Teacher Certification (ITC) program in the second semester of their sophomore year. Students are NOT guaranteed admission into the ITC program. Admission is based on a competitive application process.



\*Indicates suggested course load in order to complete degree program in 4 years. Shaded boxes and arrows indicate courses with prerequisites.

### Academic Specialization Admission Requirements

The following courses must be completed with a "C" or higher **before** applying to the ITC program:

- CSE 100 or CSE 110 or CSE 200
- MAT 270: Calculus with Analytical Geometry I
- MAT 271: Calculus with Analytical Geometry II

The following course may be in progress when applying to the ITC but must be completed with a "C" or higher before starting the program:

- MAT 272: Calculus with Analytical Geometry III

### Additional Information

- Registration in field experience is required for each semester in the program.
- All specialization courses, general studies, and ITC courses must be completed prior to student teaching.
- A "C" grade minimum is required in academic specialization and ITC courses.

### Academic Advising

All newly admitted students to the ASU College of Education are admitted as pre-professional education majors. Pre-professional students are advised by a team of academic advisors whose primary focus is on preparing students for the Initial Teacher Certification (ITC) program during their junior year. Pre-professional students are strongly encouraged to meet each semester with the pre-professional team of advisors to ensure proper progression through their chosen major. It is crucial that all applicants seeking application to the ITC program gain valuable experience with the population of students they intend to teach; the Office of Student Services can provide information on various opportunities to gain such experience.

Once admitted to the ITC, students are assigned to a professional program advisor.

To schedule an appointment with a pre-professional or professional program advisor, call (480) 965-5555.