



**B.A.E. Secondary Education (Physics)
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.

	ASU Hours	Trans Hours	Gr	Upp Div
HU:	3			
HU:	3			
SB: EDP 311	3			X
SB: SPE 311	3			X
HU or SB:	3			

Natural Sciences (8 hours)

	ASU Hours	Trans Hours	Gr	Upp Div
SQ: PHY 150	4			
SG: PHY 151	4			

Literacy and Critical Inquiry (6 hours)

	ASU Hours	Trans Hours	Gr	Upp Div
L: SPF 301	3			X
L:	3			

Mathematics & Statistics/Computer Applications (7 hours)

	ASU Hours	Trans Hours	Gr	Upp Div
MA: MAT 270	4			
CS: PHY 201	3			

Sub Total (II): 36

III. College of Education Requirements (3 hours)

	ASU Hours	Trans Hours	Gr	Upp Div
SPE 311: Orient. Ed of Exceptional Child	3			X

Sub Total (III): 3

IV. SED Program Requirements (41 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.

	ASU Hours	Trans Hours	Gr	Upp Div
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
PHY 480: Methods of Teaching Physics*	3			X
SED 496: Field Experience	1			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 (47-48 hours)

ASU Hours Trans Hours Gr Upp Div

Select **one** of the following options:

Option 1

	ASU Hours	Trans Hours	Gr	Upp Div
PHY 150: Physics I	4			
PHY 151: Physics II	4			
PHY 252: Physics III	4			

Option 2

	ASU Hours	Trans Hours	Gr	Upp Div
PHY 121: University Physics I: Mechanics	3			
PHY 122: University Physics Laboratory I	1			
PHY 131: University Physics II: Elec. & Mag.	3			
PHY 132: University Physics Laboratory II	1			
PHY 241: University Physics III	3			

All of the following are required:

	ASU Hours	Trans Hours	Gr	Upp Div
MAT 270: Calculus w/Analytical Geometry I	4			
MAT 271: Calculus w/Analytical Geometry II	4			
MAT 272: Calculus w/Analytical Geometry III	4			
PHY 201: Mathematical Methods in Physics I	3			
PHY 302: Mathematical Methods in Physics II	2			X
PHY 310: Classical Particles, Fields, Matter I	3			X
PHY 333: Electronic Circuits & Measurements	3			X
PHY 314: Quantum Physics I <i>or</i>	3			X
PHY 361: Introductory Modern Physics				

Physics Upper Division Electives (10 Hrs)

	ASU Hours	Trans Hours	Gr	Upp Div
UD Physics	3-4			X
UD Physics	3-4			X
UD Physics	3-4			X
UD Physics	3-4			X

Sub Total (V): 47-48

A minimum grade of "C" is required for ALL courses used in sections III, IV, and V.

VI. Free Electives¹ (0-10 hours)

	ASU Hours	Trans Hours	Gr	Upp Div

Sub Total (VI): 0-10

I. & II. University Requirements	III. College Requirements	IV. Program Requirements	V. Academic Specialization	VI. Free Electives ¹	Double Dipping	Total
39-42	3	41	47-48	0-13	-24	120

¹ 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 portfolio is required to be 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 (Physics)

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.

PRE-PROFESSIONAL PROGRAM

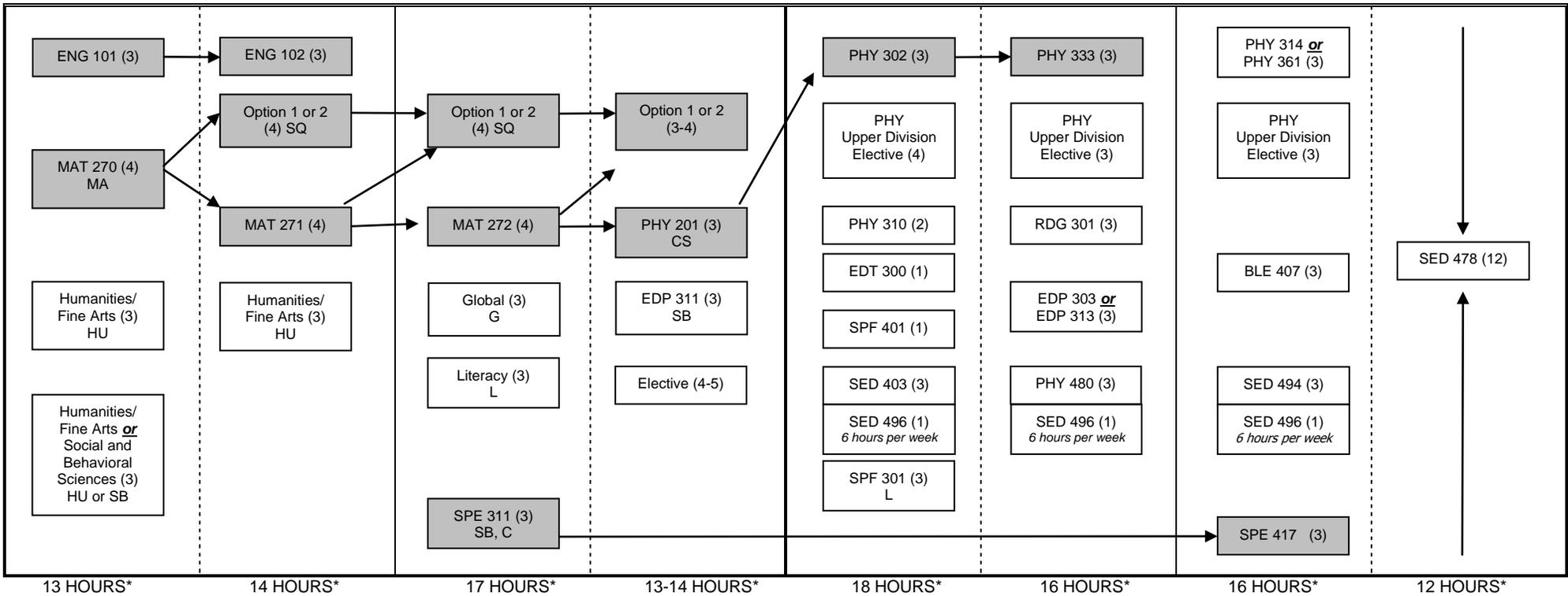
PROFESSIONAL PROGRAM

Year 1

Year 2

Year 3

Year 4



* 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:

- Option 1: PHY 150 & PHY 151 **OR**
- Option 2: PHY 121/122 & PHY 131/132

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:

- Option 1: PHY 252 **OR**
- Option 2: PHY 241

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.

Updated: 07/07/07