I. First Year Composition (3-6 hours)  ASU Hours Trans Hours Gr Upp Div
ENG 101: First Year Comp 1 (3) and 3 3 X
ENG 102: First Year Comp 2 (3) or, if eligible 3 X
ENG 105: Advance First Year Comp (3) 3 X

Sub Total (I): 3-6

II. University General Studies (36 hours)

Awareness Areas (6 hrs. minimum and must fulfill all 3)
- Global Awareness (G)
- Historical Awareness (H)
- 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
HU: 3 X
HU: 3 X
SB: EDP 310 3 X
SB: SPE 311 3 X
HU or SB: 3 X

Natural Sciences (8 hours)
SQ: PHY 150 4 X
SG: PHY 151 4 X

Literacy and Critical Inquiry (6 hours)
L: SPF 301 3 X
L: 3 X

Mathematics & Statistics/Computer Applications (7 hours)
MA: MAT 270 4 X
CS: PHY 201 3 X

Sub Total (II): 36

III. College of Education Requirements (3 hours)
SPE 311: Orient. Ed of Exceptional Child 3 X

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 3 X
EDP 313: Childhood & Adolescent Develop. 3 X
EDP 310: 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 494: Methods of Teaching Science* 3 X
SED 496: Field Experience 1 X
SED 478: Student Teaching 12 X

Sub Total (IV): 44

V. Academic Specialization (47-48 hours)  ASU Hours Trans Hours Gr Upp Div
Select one of the following options:

Option 1
PHY 150: Physics I 4 X
PHY 151: Physics II 4 X
PHY 252: Physics III 4 X

Option 2
PHY 121: University Physics I: Mechanics 3 X
PHY 122: University Physics Laboratory I 1 X
PHY 131: University Physics II: Elec. & Mag. 3 X
PHY 132: University Physics Laboratory II 1 X
PHY 241: University Physics III 3 X

All of the following are required:
MAT 270: Calculus w/Analytical Geometry I 4 X
MAT 271: Calculus w/Analytical Geometry II 4 X
MAT 272: Calculus w/Analytical Geometry III 4 X
PHY 201: Mathematical Methods in Physics I 3 X
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 3 X
PHY 361: Introductory Modern Physics 3 X

Physics Upper Division Electives (10 Hrs)
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 Electives* (0-10 hours)

Sub Total (VI): 0-10

I & II. University Requirements III. College Requirements IV. Program Requirements V. Academic Specialization VI. Free Electives Dipping Total
39-42 3 44 47-48 0-10 -24 120

* 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 application is required for admission. Please refer to our website, http://coe.asu.edu/oss for more information about our programs, courses, application process, and admission criteria.

Updated: 1/15/06
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**

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Year 2</th>
<th>Year 3</th>
<th>Year 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 101 (3)</td>
<td>ENG 102 (3)</td>
<td>Option 1 or 2 (4) SQ</td>
<td>PHY 302 (3)</td>
</tr>
<tr>
<td>MAT 270 (4)</td>
<td>MAT 271 (4)</td>
<td>MAT 272 (4)</td>
<td>PHY 302 (3)</td>
</tr>
<tr>
<td>Option 1 or 2 (4) SQ</td>
<td>Option 1 or 2 (3-4) SQ</td>
<td>PHY 201 (3) CS</td>
<td>PHY 302 (3)</td>
</tr>
<tr>
<td>Option 1 or 2 (3-4) SQ</td>
<td>Option 1 or 2 (3-4) SQ</td>
<td>PHY 301 (3) CS</td>
<td>PHY 302 (3)</td>
</tr>
<tr>
<td>_lite_Humanities/ Fine Arts (3) HU</td>
<td>_lite_Humanities/ Fine Arts (3) HU</td>
<td>_lite_Global (3) G</td>
<td>_lite_EDP 310 (3) SB</td>
</tr>
<tr>
<td>_lite_Literacy (3) L</td>
<td>_lite_Elective (4-5)</td>
<td>_lite_SED 403 (3)</td>
<td>_lite_SED 403 (3)</td>
</tr>
</tbody>
</table>

**Professional Program**

<table>
<thead>
<tr>
<th>Year 3</th>
<th>Year 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHY 333 (3)</td>
<td>PHY 314 or PHY 361 (3)</td>
</tr>
<tr>
<td>PHY Upper Division Elective (4)</td>
<td>PHY Upper Division Elective (3)</td>
</tr>
<tr>
<td>PHY 310 (2)</td>
<td>PHY 480 (3)</td>
</tr>
<tr>
<td>EDT 300 (1)</td>
<td>SED 496 (1) 6 hours per week</td>
</tr>
<tr>
<td>SPF 401 (1)</td>
<td>SED 496 (1) 6 hours per week</td>
</tr>
<tr>
<td>EDP 303 or EDP 313 (3)</td>
<td>SED 494 (3)</td>
</tr>
<tr>
<td>SED 496 (3)</td>
<td>SED 496 (3)</td>
</tr>
</tbody>
</table>

**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.
- Students in CoE have two catalog years: an ASU catalog year and a College of Education catalog year.

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

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**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

**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 admission into 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: 01/16/06