Arizona State University

ASU Main Campus

FALL 2000 TRANSFER GUIDE

FOR PIMA COMMUNITY COLLEGE

Bachelor of Science in Engineering

Materials Science and Engineering

Students applying for admission with transferable hours must meet transfer GPA, freshman aptitude, and competency requirements

www.asu.edu/admissions/applyingtoasu. Students transferring 24 or more semester hours do not have to meet freshman aptitude requirements. Students who are 22 years of age or older or have completed an Arizona General Education Curriculum (AGEC) or any associate degree or higher do not have to meet competency requirements. A maximum of 64 transferable semester hours completed at a regionally accredited two-year institution may be transferred to ASU. All transferable community college credits are accepted as lower-division credits and do not satisfy upper division General Studies or graduation requirements.

Materials Science and Engineering is the discipline in which students develop special scientific knowledge about metals, semiconductors, ceramics, polymers, and composites, which engineers use to build aircraft, bridges, computers, and many other useful products. This knowledge is used to improve existing materials and to develop new and better materials. For further information, call or write:

(480) 965-3313
Department of Chemical & Materials Engineering
College of Engineering and Applied Sciences
Arizona State University
Tempe, Arizona  85287-6006

SCHOOL OF ENGINEERING ADMISSION CRITERIA

1. A minimum of 2.50 cumulative GPA is required from community college transfer students.
2. Students whose native language is not English must also submit a TOEFL score of 550 points in addition to meeting the minimum GPA requirements.
3. Transfer students are encouraged to have completed science and math courses applicable to the engineering degree.
4. A preprofessional category of admission is available for applicants deficient in School of Engineering admission requirements.
5. Students admitted to the preprofessional program are restricted to lower-division coursework. After completing a minimum of 30 semester hours of required or approved elective courses with a cumulative minimum GPA of 2.50, one may apply for admission to the professional program. The cumulative GPA is calculated using all credits from ASU and from all other colleges and universities attended.

Transfer value of a course, including General Studies value, is governed by the Course Applicability System, (CAS) in force at the time the course is taken. Summer session is included with the previous academic year. Community college courses which are equivalent in content to upper division courses at ASU will be transferable as equivalent but with lower division credit. The course need not be repeated but will not count toward the required number of upper division credit hours.

FIRST YEAR COMPOSITION (3-6)

<table>
<thead>
<tr>
<th>ASU</th>
<th>PCC</th>
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<tr>
<td>ENG 101 &amp; 102 First-Year Comp</td>
<td>WRT 101 &amp; 102 Writing I &amp; II</td>
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<tr>
<td>or</td>
<td>No PCC equivalent</td>
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<tr>
<td>ENG 105 Adv First-Year Comp</td>
<td>WRT 107 &amp; 108 Writing I &amp; II/Intnatl Stu</td>
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GENERAL STUDIES REQUIREMENTS\textsuperscript{1,2}

Students completing the Arizona General Education Curriculum (AGEC) will still be required to fulfill lower division program requirements and prerequisites within their college and major/minor area of study. In all cases, students have the responsibility for selecting general education coursework that is relevant to the requirements of their intended major and degree.

Students in an engineering program must complete 16 hours of Humanities [HU] and Social/Behavioral Sciences [SB] courses. One course must be taken at ASU, as it must be upper division. In your selection of HU and SB credits, two courses must be from the same department (or have the same prefix). Select credits from CAS General Studies Insert as follows: 6 or 7 HU credits, 6 or 7 SB credits (which must include those that transfer as ECN 111 or ECN 112), 3 C credits, 3 G credits, and 3 H credits. It is beneficial for students to select HU or SB courses that concurrently satisfy C, G or H requirements. Additional and/or mandated General Studies requirements, if any, are listed in the Major Requirements section below with designation in brackets, e.g. [CS].

MAJOR REQUIREMENTS

\textbf{ASU} \\
CHM 113 General Chemistry [SQ] \\
CHM 116 General Chemistry [SQ] \\
CHM 331 General Organic Chem \\
ECN 111 Macroeconomic Principles [SB] or ECN 112 Microeconomic Principles [SB] \\
MAT 242 Elementary Linear Algebra \\
MAT 270 Cal/Analytic Geo I [MA] \\
MAT 271 Cal/Analytic Geo II [MA] \\
MAT 272 Cal/Analytic Geo III [MA] \\
MAT 274 Elem Diff Equations [MA] \\
PHY 361 Modern Physics \\

\textbf{PCC} \\
CHM 151 General Chemistry I \\
CHM 152 General Chemistry II \\
CHM 235 General Organic Chem I \\
ECN 201 Microeconomic Principles \\
ECN 202 Macroeconomic Principles \\
MAT 252 Intro to Linear Algebra* \\
MAT 220 Calculus I \\
MAT 231 Calculus II \\
MAT 241 Calculus III \\
MAT 262 Differential Equations \\
PHY 210 Introductory Mechanics \\
PHY 216 Intro Elect & Magnetism \\
PHY 230 Intro to Modern Physics \\

ENGINEERING CORE

\textbf{ASU} \\
ECE 100 Intro Engrg Design [CS] \\
ECE 210 Engr Mech I:Statics \\

\textbf{PCC} \\
ENG 102 Prob Solv & Eng Design \\
ENG 210 Engineer Mech-Statics \\

Approved by Marilyn L. Hart \\
Coordinator, Academic Administration

\textsuperscript{1} Although a course may satisfy a core area requirement and an awareness area requirement concurrently, a course may not be used to satisfy requirements in two core areas simultaneously. A course may satisfy two awareness areas concurrently.

\textsuperscript{2} When selecting HU or SB core courses, students must keep in mind that A. two courses from the same department must be taken in either core area; B. courses from at least two departments must be taken. These two conditions may, but need not be satisfied in the same core area. At least one course within the 16 semester hours must be an upper-division course taken only at ASU.