Arizona State University
ASU Main Campus
FALL 2000 TRANSFER GUIDE
FOR YAVAPAI COMMUNITY COLLEGE
Bachelor of Science in Engineering
Mechanical Engineering

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

Mechanical Engineering is a creative discipline that draws upon a number of basic sciences to design the devices, machines, processes, and systems that involve mechanical work and its conversion from, and into, various forms of energy. The undergraduate curriculum includes the study of principles governing the use of energy; principles of design, instruments, and control devices; and the application of these studies to the creative solution of practical, modern problems. Prospective students may call 480/965-7788 (toll free numbers for applicants: 1-800-252-ASU1 out of state and 1-800-325-9371 in state) or write to the Undergraduate Admissions Office for information including application materials. For further information, call (480) 965-3291.

(480) 965-3291
Vice Chair for Mechanical Engineering
Department of Mechanical and Aerospace Engineering
College of Engineering and Applied Sciences
Arizona State University
Tempe, Arizona 85287-6106

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 taking lower-division courses. 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>YC</th>
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<tbody>
<tr>
<td>ENG 101 &amp; 102 First-Year Comp</td>
<td>ENG 101 &amp; 102 College Comp I &amp; II</td>
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<tr>
<td>ENG 105 Adv First-Year Comp</td>
<td>ENG 103 &amp; 104 College Comp I &amp; II (Honors)</td>
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<td>ENG 107 &amp; ENG 108 Eng Foreign Students</td>
<td>No YC equivalent</td>
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<td>or</td>
<td>No YC equivalent</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

\begin{tabularx}{\textwidth}{|l|l|}
\hline
\textbf{ASU} & \textbf{YC} \\
\hline
CHM 114 & General Chemistry for Engineers [SQ] \\
\text{or} & No YC equivalent \\
CHM 113 & General Chemistry [SQ] \\
and & CHM 151 \ General Chemistry I \\
CHM 116 & General Chemistry [SQ] \\
& CHM 152 \ General Chemistry II \\
ECN 111 & Macroeconomic Principles [SB] \\
\text{or} & BSA 235 \ Princ of Econ - Macro \\
ECN 112 & Microeconomic Principles [SB] \\
& BSA 236 \ Princ of Econ - Micro \\
MAT 242 & Elementary Linear Algebra \\
& MTH 195 \ Intro to Linear Algebra \\
MAT 270 & Cal/Analytic Geo I [MA] \\
MAT 271 & Cal/Analytic Geo II [MA] \\
MAT 272 & Cal/Analytic Geo III [MA] \\
& MTH 151 \ Calc & Analytic Geom I \\
& MTH 152 \ Calc & Analytic Geom II \\
& MTH 251 \ Calculus III \\
MAT 274 & Elem Diff Equations [MA] \\
& MTH 274 \ Elem Differential Equa \\
PHY 121 & Univ Physics I: Mech [SQ] & PHY 155 \ Engineer Physics I & \\
PHY 122 & Univ Physics Lab I [SQ] & \\
PHY 131 & Univ Physics II: Elec & Magnetsm [SQ] & PHY 251 \ Engineer Physics II \\
PHY 132 & Univ Physics Lab II [SQ] & \\
\hline
\end{tabularx}

ENGINEERING CORE

\begin{tabularx}{\textwidth}{|l|l|}
\hline
\textbf{ECE} & \textbf{YC} \\
\hline
100 & Intro Engrg Design [CS] \\
210 & Eng Mech I: Statics \\
& No YC equivalent \\
& EGR 214 \ Statics \\
\hline
\end{tabularx}

Approved by Marilyn L. Hart
Coordinator, Academic Administration

date \ 8/16/00

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.

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.