Arizona State University
ASU Main Campus
FALL 2000 TRANSFER GUIDE
FOR CENTRAL ARIZONA COLLEGE
Bachelor of Science in Engineering
Mechanical 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.

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-ASU 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.

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)

ASU
ENG 101 & 102 First-Year Comp
or
ENG 105 Adv First-Year Comp
or
ENG 107 & ENG 108 Eng Foreign Students

CAC
ENG 101 & ENG 102 English Comp III & IV
No CAC equivalent
ENG 107 & ENG 108 English Comp III & IV (ESL)
GENERAL STUDIES REQUIREMENTS

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

ASU

CHM 114   General Chemistry for Engineers [SQ]

CHM 113   General Chemistry [SQ]

CHM 116   General Chemistry [SQ]

ECN 111   Macroeconomic Principles [SB]

ECN 112   Microeconomic Principles [SB]

MAT 242   Elementary Linear Algebra

MAT 270   Cal/Analytic Geo I [N1]

MAT 271   Cal/Analytic Geo II [N1]

MAT 272   Cal/Analytic Geo III [N1]

MAT 274   Elem Diff Equations [N1]

PHY 121   Univ Physics I: Mech [SQ] &

PHY 122   Univ Physics Lab I [SQ] &

PHY 131   Univ Physics II:Elec & Magnetsm [SQ] &

PHY 132   Univ Physics Lab II [SQ]

CAC

CHM 101   General Chemistry I

CHM 102   General Chemistry II

ECN 201   Macroeconomic Principles

ECN 202   Microeconomic Principles

ECN 203   Microeconomic Principles

ECN 204   Microeconomic Principles

ECN 205   Microeconomic Principles

ECN 206   Microeconomic Principles

GSB 105   Applied Business Econ

MAT 220   Calc/Analyt Geo I

MAT 221   Analyt Geom /Calc I &

MAT 230   Calc/Analyt Geo II

MAT 231   Analyt Geom/Calc II &

MAT 240   Calc/Analyt Geo III

MAT 241   Analyt Geom/Calc III

MAT 262   Ordin Diff Equations

PHY 261   University Phys I &

PHY 262   University Phys II

ENGINEERING CORE

ECE 100   Intro Engr Design [CS]

ECE 210   Engr Mech I:Statics

ECE 312   Engr Mech II:Dynamic

EGR 202   Eng Mechan/Statics

EGR 203   Eng Mechan/Dynamics

Approved by Marilyn L. Hart
Coordinator, Academic Administration

Date 8/15/00

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.