Arizona State University

ASU Main Campus

1999-2000 TRANSFER GUIDE

FOR COCHISE COLLEGE

Bachelor of Science in Engineering

Bioengineering

The Arizona resident applicant for transfer admission must meet competency requirements and have a cumulative grade point average (GPA) of 2.00 on a four-point (A) scale in all college level work and be in good standing and eligible to return to the last institution attended. Students who have less than 24 semester transfer credits must also meet competency requirements. Arizona residents who have completed an Arizona General Education Curriculum (AGEC) or an associate degree with a minimum 2.00 GPA in the AGEC or associate degree are exempt from admission requirements. A maximum of 64 semester credit hours will be accepted when transferred from community colleges; all transferable community college credits are accepted as lower-division credits and do not satisfy upper-division General Studies or graduation requirements.

Bioengineering (synonym: biomedical engineering) is the discipline of engineering that applies principles and methods from engineering, the physical sciences, the life sciences, and the medical sciences to understand, define, and solve problems in medicine, physiology, and biology. For further information, call or write:

(480) 965-3313
Department of Chemical, Bio and 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 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 Equivalency Guide (CEG) 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.

ASU FIRST YEAR COMPOSITION (3-6)

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

CC

ENG 101 & ENG 102 English Comp III & IV
No CC 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 CEG 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. [N3].
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Bioengineering

**ASU**  
**MAJOR REQUIREMENTS**

BIO 181  General Biology [S1/S2]  
CHM 113  General Chemistry [S1/S2]  
CHM 116  General Chemistry [S1/S2]  
ECN 111  Macroeconomic Principles [SB]

or

ECN 112  Microeconomic Principles [SB]  
MAT 242  Elementary Linear Algebra  
ECN 111  Macroeconomic Principles [SB]

CHM 116  General Chemistry [S1/S2]  
CHM 151  General Chemistry I  
CHM 152  General Chemistry II  
ECN 201  Principles Macroeconomics

**CC**

BIO 184  Plant Biology * &  
BIO 190  Animal Biology *  
*BIO 184 & BIO 190 together transfer to ASU as BIO 181 [S1/S2] & BIO 182 [S2].

CHM 151  General Chemistry I

ECN 112  Microeconomic 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 [S1/S2] &  
PHY 122  Univ Physics Lab I [S1/S2] &  
PHY 131  Univ Physics II:Elec & Magnetsm [S1/S2] &  
PHY 132  Univ Physics Lab II [S1/S2]

**ENGINEERING CORE**

ECE 100  Intro Engrg Design [N3]

Approved by Marilyn L. Hart  
Coordinator, Academic Administration

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.