



Arizona State University

ASU Main Campus

1998-99 TRANSFER GUIDE

FOR EASTERN ARIZONA COLLEGE

Bachelor of Science in Engineering

Materials Science and Engineering

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.

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:

(602) 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. International students 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 courses. After completing a minimum of 30 semester hours of required or approved elective courses with a cumulative GPA equivalent to that required of transfer students, 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.

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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.

FIRST YEAR COMPOSITION (3-6)

ENG 101 & 102 First-Year Comp

or

ENG 105 Adv First-Year Comp

or

ENG 107 & 108 Eng Foreign Students

ENG 101 & 102 Written Communications

No EAC equivalent

No EAC equivalent

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GENERAL STUDIES REQUIREMENTS^{1,2}

Students completing the Transfer General Education Core Curriculum (TGECC) 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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MAJOR REQUIREMENTS

CHM 113	General Chemistry [S1/S2]	CHM 151	General Chemistry I
CHM 116	General Chemistry [S1/S2]	CHM 152	General Chemistry II
CHM 331 CHM 335	General Organic Chem & Gen Organic Chem Lab	CHM 235	General Organic Chemistry I
ECN 111 or ECN 112	Macroeconomic Principles [SB] Microeconomic Principles [SB]	BUA 221	Prin of Macroeconomics
		BUA 223	Prin of Microeconomics
MAT 242	Elementary Linear Algebra		No EAC equivalent
MAT 270	Cal/Analytic Geo I [N1]	MAT 220	Calculus I
MAT 271	Cal/Analytic Geo II [N1]	MAT 230 or MAT 231	Calculus II Calculus
MAT 272	Cal/Analytic Geo III [N1]	MAT 240 or MAT 241 or MAT 245	Calculus III Calculus and Diff Equations Calculus and Diff Equations
MAT 274	Elem Diff Equations [N1]	MAT 241 or MAT 245 or MAT 260	Calculus and Diff Equations Calculus and Diff Equations Differential Equations
PHY 121 PHY 122 PHY 131 PHY 132	Univ Physics I: Mech [S1/S2] & Univ Physics Lab I [S1/S2] & Univ Physics II: Elec and Magnetism [S1/S2] & Univ Physics Lab II [S1/S2]	PHY 211 PHY 212	Physics with Calculus & Physics with Calculus

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ENGINEERING CORE

ECE 100 Intro Engrg Design [N3]

No EAC equivalent

Approved by Marilyn L. Hart
Coordinator, Academic Administration

Date

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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.