Arizona State University

ASU East Campus

FALL 2000 TRANSFER GUIDE

FOR PIMA COMMUNITY COLLEGE

Bachelor of Science

Manufacturing Engineering Technology

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.

The Manufacturing Engineering Technology program at Arizona State University East is a math/science-orientated program of study designed to prepare engineering technologists for technical support of manufacturing operations. There are two study emphases within the program. First, the manufacturing engineering technology emphasis provides students with a broad understanding of the machining, forming, casting and fabrication processes employed by modern industry. Second, the mechanical engineering technology emphasis provides additional mechanical design and testing background.

For further information, call or write:
(480) 727-1584
Department of Manufacturing and Aeronautical Engineering Technology
Arizona State University - East Campus
7442 East Tillman Ave.
Mesa, Arizona 85212

COLLEGE OF TECHNOLOGY AND APPLIED SCIENCES ADMISSION CRITERIA

1. A minimum 2.25 GPA is required from resident community college transfer students.
2. A minimum 2.50 GPA is required from nonresident community college transfer students.
3. Transfer students are encouraged to have completed college algebra and trigonometry.
4. A preprofessional category of admission is available for applicants deficient in College of Technology and Applied Sciences admission requirements.
5. Students admitted to the preprofessional program are restricted to lower-division courses until they achieve the required GPA, at which time they are considered for admission to the professional program.
6. International students must also submit an acceptable TOEFL score in addition to meeting the minimum GPA requirements.

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 & 108 Eng Foreign Students

PCC
WRT 101 & 102 Writing I & II
or
No PCC equivalent
or
WRT 107 & 108 Writing I & II/Intnatl Stu

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.

Select credits from the ASU General Studies Guides (http://www.asu.edu/provost/articulation/pima_main.html#gsr) as follows: 3 L1 credits, 6 or 9 HU credits, 6 SB credits, 3 C credits, 3 G credits, and 3 H credits. Additional and/or mandated General Studies requirements, if any, are listed in the Major Requirements section with designation in brackets.
ASU FALL 2000 Transfer Guide for Pima Community College
Bachelor of Science (page 2 of 3)
Manufacturing Engineering Technology

MAJOR REQUIREMENTS

**ASU**

CHM 113  General Chemistry [SQ]
MAT 170  Precalculus [MA]

MAT 260  Tech Calc I [MA]
MAT 261  Tech Calc II [MA]

MET 231  Mfg Processes
MET 300  Applied Materials Science
MET 346  Numl Cntrl Pt to Pt

PHY 111  General Physics [SQ] &
PHY 113  General Physics Lab [SQ]
PHY 112  General Physics [SQ] &
PHY 114  General Physics Lab [SQ]

**PCC**

CHM 151  General Chemistry I
MAT 151  College Algebra &
MAT 182  Trigonometry
or
MAT 151  College Algebra &
MAT 182A  Trigonometry - Module A &
MAT 182 B  Trigonometry - Module B &
MAT 182 C  Trigonometry - Module C
or
MAT 187  Precalculus
MAT 220  Calculus I*
*Transfers in lieu of MAT 260 for Technology majors.
MAT 231  Calculus II*
*Transfers in lieu of MAT 261 for Technology majors.

MAC 280  Machine Shop III
MAC 285  Physical Metallurgy
MAC 250  CNC Mill Programming I &
MAC 255  CNC Mill Programming II
PHY 121  Introductory Physics I
PHY 122  Introductory Physics II
ASU FALL 2000 Transfer Guide for Pima Community College
Bachelor of Science (page 3 of 3)
Manufacturing Engineering Technology

ENGINEERING TECHNOLOGY CORE

**ASU**

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<tr>
<th>ASU</th>
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<tbody>
<tr>
<td>ETC 100</td>
<td>Languages of Technology [CS]</td>
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<tr>
<td></td>
<td>DFT 100</td>
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<td>CAD 120</td>
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<td>* Both DFT 100 &amp; CAD 120 must be taken together, along with a computer language course (Fortran, &quot;C&quot;, or Pascal) to be equivalent to ETC 100 [CS] for MET, IND, and Aerotech majors.</td>
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<tr>
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<td>CAD 202</td>
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<td>* CAD 202 must be taken with a computer language course (Fortran, AC®, or Pascal) to be equivalent to ETC 100 [CS] for MET, IND, and Aerotech majors.</td>
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<tr>
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<td>CAD 252</td>
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<td>* CAD 252 must be taken with a computer language course (Fortran, &quot;C&quot;, or Pascal) to be equivalent to ETC 100 [CS] for MET, IND, and Aerotech majors.</td>
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**ETC 201**  | Applied Electrical Science |
|            | AVM 120      | Aviation Electricity I |
|            | or           | ETR 101      | Basic DC Elec Circuit Anl & |
|            | or           | ETR 102      | Basic AC Elec Circuit Anl |

Approved by Dr. Scott Danielson
Chair

Approved by Dr. Lakshmi Munukutla
Associate Dean of Academic Affairs

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 in one of these two core areas must be in the same department; 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 15 semester hours **must** be an upper-division course taken only at ASU.