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.

For more information, call or write:
(602) 965-3904
Dr. Jean M. Schmidt
Head Undergraduate Advisor
Department of Microbiology
Arizona State University
Tempe, Arizona 85287-2701

COLLEGE OF LIBERAL ARTS AND SCIENCES (CLAS) ADMISSION CRITERIA
1. General University requirements satisfy the admission requirements of this program.
2. Students transferring MIC 205 or any other nonmajor introductory microbiology course must take a diagnostic examination to obtain credits.

ASU
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.

PCC
Community college courses which are equivalent in content to upper division courses at ASU will be transferrable 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

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

GENERAL STUDIES REQUIREMENTS/-College Distribution Requirements
Students completing the Transfer General Education Core Curriculum (TGEC) 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 CEG General Studies Insert as follows: 3 L1 credits (those that transfer as PHI, PSY or REL are recommended), 3 N3 credits (those that transfer as CSE are recommended), 9 HU credits (except those that transfer as ASB 222 and "E") (maximum 6 hours from ARS, MUS, THE), 9 SB credits (except those that transfer as ASM, COM, JUS, and "E"), 3 credits (except Pima's HUM 260), 3 G credits, and 3 H credits (except those that transfer as "E"). Additional and/or mandated General Studies requirements, if any, are listed in the Major Requirements section with designation in brackets.

COLLEGE PROFICIENCY REQUIREMENTS
Requires knowledge of a second language equivalent to the completion of two years study at the college level. Courses in American Sign Language also satisfy the requirement. (See the 1998-99 Catalog for further information.) Select language courses that transfer to ASU at the 101, 102, 201, 202, 203, 204 and/or 205 level, or courses that transfer to ASU as SHS 174, SHS 175, SHS 274 and SHS 275.
ASU 1998-99 Transfer Guide for Pima Community College
Bachelor of Science (page 2 of 3)
Microbiology

MAJOR REQUIREMENTS

While still a student at PCC, contact the department academic advisor. Only those required courses which have PCC course equivalents are listed below.

**ASU**

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Equivalent</th>
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<tbody>
<tr>
<td>CSE 180</td>
<td>Computer Literacy [N3]</td>
<td>CSC 101 Computer Literacy</td>
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<tr>
<td>or</td>
<td></td>
<td>or CSC 105 Survey-Microcomputer Uses</td>
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<tr>
<td>or</td>
<td></td>
<td>or CSC 238 Integrated Package Project</td>
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<tr>
<td>or</td>
<td></td>
<td>or CSC 256 Microcomp Software Applic</td>
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<tr>
<td>or</td>
<td></td>
<td>or MAP 207 Devel Microcomputer Appli</td>
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<tr>
<td>CSE 181</td>
<td>Applied Prob Solving with Basic [N3]</td>
<td>CSC 175 Q Basic/Quick Basic</td>
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<tr>
<td>or</td>
<td></td>
<td>or CSC 140 Fortran Programming</td>
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<tr>
<td>CSE 183</td>
<td>Applied Prob Solving with Fortran [N3]</td>
<td>MAT 212 Topics in Calculus</td>
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<tr>
<td>or</td>
<td></td>
<td>or MAT 220 Calculus I</td>
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<tr>
<td>MAT 210</td>
<td>Brief Calculus [N1]</td>
<td>No PCC equivalent</td>
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<tr>
<td>or</td>
<td></td>
<td>or MAT 270 Cal/Analytic Geo I [N1]</td>
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<tr>
<td>or</td>
<td></td>
<td>or MAT 290 Calculus I [N1]</td>
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**PCC**

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<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Equivalent</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 181</td>
<td>General Biology [S1/S2]</td>
<td>BIO 181 General Bio (Majors) I *</td>
</tr>
<tr>
<td>BIO 182</td>
<td>General Biology [S2]</td>
<td>BIO 182 General Bio (Majors) II *</td>
</tr>
<tr>
<td>*It is strongly recommended that the entire BIO sequence be completed at one institution, either PCC or ASU.</td>
<td></td>
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</tr>
<tr>
<td>MIC 205</td>
<td>Microbiology [S2] * &amp;</td>
<td>BIO 205 Microbiology *</td>
</tr>
<tr>
<td>MIC 206</td>
<td>Microbiology Lab [S2] *</td>
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</table>

* May not be used for Microbiology majors unless a diagnostic test is passed.
Microbiology

ASU

REQUIRED SUPPLEMENTARY COURSES

<table>
<thead>
<tr>
<th>ASU</th>
<th>PCC</th>
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</thead>
<tbody>
<tr>
<td>CHM 113  General Chemistry [S1/S2]</td>
<td>CHM 151  General Chemistry I</td>
</tr>
<tr>
<td>CHM 115  Gen Chemistry with Qualt Analysis [S1/S2]</td>
<td>CHM 152  General Chemistry II</td>
</tr>
</tbody>
</table>

Take either this sequence:

- CHM 231  Elem Org Chem [S1/S2] * &
- CHM 235  Elementary Organic Chem Lab [S1/S2] *
- CHM 361  Principles Biochem
- CHM 367  Elem Biochem Lab

or the sequence below:

- CHM 331  General Organic Chem &
- CHM 335  Gen Organic Chem Lab
- CHM 332  General Organic Chem &
- CHM 336  Gen Organic Chem Lab

* Acceptable, but not recommended. The department recommends that students take the required upper-division chemistry courses at ASU.

PHY 111  General Physics [S1/S2] &
PHY 113  General Physics Lab [S1/S2]
PHY 112  General Physics [S1/S2] &
PHY 114  General Physics Lab [S1/S2]

PHY 111  General Physics [S1/S2] &
PHY 113  General Physics Lab [S1/S2]
PHY 112  General Physics [S1/S2] &
PHY 114  General Physics Lab [S1/S2]

Approved by Dr. Edward Birge
Department Chair

Dr. Leonard Gordon
Associate Dean for Academic Programs
College of Liberal Arts and Sciences

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, even if approved for those areas. A course may satisfy two awareness areas concurrently.