Arizona State University

ASU Main Campus

FALL 2000 TRANSFER GUIDE

FOR NORTHLAND PIONEER COLLEGE

Bachelor of Science or Arts
Mathematics

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.

For more information, call or write:
(480) 965-7195
Associate Chair for Undergraduate Mathematics
Department of Mathematics
Arizona State University
Tempe, Arizona 85287-1804

COLLEGE OF LIBERAL ARTS AND SCIENCES (CLAS) ADMISSION CRITERIA

General University requirements satisfy the admission requirements of this program.

Transfer value of a course, including General Studies values, is governed by the Course Equivalency Guide in force at the time the course is taken. Summer session is indicated 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 should not be repeated but will not satisfy upper division credit requirements.

FIRST YEAR COMPOSITION (3-6)

<table>
<thead>
<tr>
<th>ASU</th>
<th>NPC</th>
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</thead>
<tbody>
<tr>
<td>ENG 101 &amp; 102 First-Year Comp</td>
<td>ENL 101 &amp; 102 College Composition I &amp; II</td>
</tr>
<tr>
<td>or</td>
<td></td>
</tr>
<tr>
<td>ENG 105 Adv First-Year Comp</td>
<td>No NPC equivalent</td>
</tr>
<tr>
<td>or</td>
<td></td>
</tr>
<tr>
<td>ENG 107 &amp; ENG 108 Eng Foreign Students</td>
<td>No NPC equivalent</td>
</tr>
</tbody>
</table>

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.


COLLEGE OF LIBERAL ARTS AND SCIENCES GRADUATION REQUIREMENTS

http://www.asu.edu/provost/articulation/chksheets/00-01/00CKCLAS.HTML/00clas-gradreqfortgs.pdf

CLAS requires knowledge of a second language equivalent to the completion of two years study at the college level. Students who choose to complete their CLAS second language graduation requirement in Greek, Latin, Portuguese, or Romanian must take both the 201 and 202 classes in order for this requirement to be met.

In addition to the language requirement, students may also take one lower division Social/Behavioral Science or Humanities from those that transfer as AFH, AFS, ASB, CSH, CSS, ENG (literature only), ECN, GCU, HIS, HUM, PGS, PHI/HPS, POS, REL, SOC, WSH, or WST. This course is separate from those taken for the university general studies and may not be used to meet both requirements.

Students may also choose to take 6 credits to meet the CLAS Natural Science/Mathematics requirement. This requirement is separate from the SQ and SG requirement of the university general studies and may not be used to meet the university requirement. Students may select 2 courses from those that transfer as ASM, BIO, CHM, BCH, CSE, GPH, GLG, MAT (above the college algebra level), STP, MIC, MBB, PHY, AST, PHS, PLB, MBB, PSY 230 or PSY 290.
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Bachelor of Science or Arts (page 2 of 3)
Mathematics

MAJOR REQUIREMENTS (for BA only)
While still a student at NPC, contact the department academic advisor. Only those required courses which have NPC course equivalents are listed below.

**ASU**
- CSE 100 Principles of Programming [CS]
- or
- CSE 200 Concepts of Computer Science [CS]

**NPC**
- CSC 225 Program in C Language

MAT 270 Cal/Analytic Geo I [MA]
MAT 271 Cal/Analytic Geo II [MA]
MAT 272 Cal/Analytic Geo III [MA]

MAT 221 Calc & Analyt Geometry I
MAT 231 Calc & Analyt Geometry II
MAT 241 Calc & Analyt Geometry III

Comment: Course by course equivalency may be granted to MAT 270, MAT 271 & MAT 272. However, to ensure continuity of instruction, completion of an entire sequence at one institution is recommended.

The following course can be used for this degree, but is not required.

MAT 274 Elem Diff Equations [MA]
MAT 261 Intro Differential Equat

MAJOR REQUIREMENTS (for BS only)
While still a student at NPC, contact the department academic advisor. Only those required courses which have NPC course equivalents are listed below.

**ASU**
- CSE 200 Concepts of Computer Science [CS]

**NPC**
- No NPC equivalent

MAT 270 Cal/Analytic Geo I [MA]
MAT 271 Cal/Analytic Geo II [MA]
MAT 272 Cal/Analytic Geo III [MA]

MAT 221 Calc & Analyt Geometry I
MAT 231 Calc & Analyt Geometry II
MAT 241 Calc & Analyt Geometry III

Comment: Course by course equivalency may be granted to MAT 270, MAT 271 & MAT 272. However, to ensure continuity of instruction, completion of an entire sequence at one institution is recommended.

The following course can be used for this degree, but is not required.

MAT 274 Elem Diff Equations [MA]
MAT 261 Intro Differential Equat

MAJOR REQUIREMENTS (FOR BS-COMPUTATIONAL MATHEMATICAL SCIENCES CONCENTRATION ONLY)

**ASU**
- CSE 200 Concepts of Computer Science [CS]
- CSE 210 Object-Oriented Design & Data Structures [CS]

**NPC**
- No NPC equivalent
- No NPC equivalent

MAT 270 Cal/Analytic Geo I [MA]
MAT 271 Cal/Analytic Geo II [MA]
MAT 272 Cal/Analytic Geo III [MA]
MAT 274 Elem Diff Equations [MA]

MAT 221 Calc & Analyt Geometry I
MAT 231 Calc & Analyt Geometry II
MAT 241 Calc & Analyt Geometry III
MAT 261 Intro Differential Equat

Comment: Course by course equivalency may be granted to MAT 270, MAT 271 & MAT 272. However, to ensure continuity of instruction, completion of an entire sequence at one institution is recommended.
### ADDITIONAL SCIENCE REQUIREMENTS

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>BIO 181</td>
<td>General Biology [SQ] &amp;</td>
<td>BIO 181</td>
<td>General Biology I</td>
</tr>
<tr>
<td>BIO 182</td>
<td>General Biology [SG]</td>
<td>BIO 182</td>
<td>General Biology II</td>
</tr>
<tr>
<td>CHM 113</td>
<td>General Chemistry [SQ] &amp;</td>
<td>CHM 151</td>
<td>General Chemistry I</td>
</tr>
<tr>
<td>CHM 115</td>
<td>General Chemistry with Qualitative Analysis [SQ]</td>
<td>No NPC equivalent</td>
<td></td>
</tr>
<tr>
<td>CHM 116</td>
<td>General Chemistry [SQ]</td>
<td>CHM 152</td>
<td>General Chemistry II</td>
</tr>
<tr>
<td>CHM 117</td>
<td>General Chemistry for Majors I [SQ] &amp;</td>
<td>No NPC equivalent</td>
<td></td>
</tr>
<tr>
<td>CHM 118</td>
<td>General Chemistry for Majors II [SQ]</td>
<td>No NPC equivalent</td>
<td></td>
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<tr>
<td>GLG 101</td>
<td>Introduction to Geology I (Physical) [SQ,G] &amp;</td>
<td>GLG 101</td>
<td>Intro to Geology I</td>
</tr>
<tr>
<td>GLG 103</td>
<td>Introduction to Geology I - Lab [SQ] &amp;</td>
<td>GLG 102</td>
<td>Intro to Geology II</td>
</tr>
<tr>
<td>GLG 104</td>
<td>Introduction to Geology II (Historical) [SG,H] &amp;</td>
<td>GLG 104</td>
<td>Intro to Geology II</td>
</tr>
</tbody>
</table>

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.