University of California, Merced
Foundations for Transfer

In Spring 2001, the University of California, Merced’s Academic Taskforce approved course patterns for community college transfer students to be used as a foundation for student transfer. On an interim basis it was agreed courses approved by UC Berkeley and UC Davis will be accepted by UC Merced for division preparation. The courses recommended in this Foundations for Transfer Guide will be accepted for students transferring to UC Merced for the 2004-05 academic year. Updates to the Guide are scheduled to be posted on the UC Merced Admissions website August 2003. College counselors, transfer coordinators, and articulation officers are encouraged to reference the updated Guide and their college’s articulation agreements with UC Berkeley and UC Davis on www.ASSIST.org for the most current and accurate information.

UC Merced will be accepting its first applications from community college transfer students November 1-30, 2003 for Fall Semester 2004. Transfer preparation information for semesters following Fall Semester 2004 will be available from the UC Merced Admissions/Relations with Schools and Colleges. For more information, please contact:

Scott Trippel, Articulation Officer
UC Merced, Admissions/Relations with Schools and Colleges
550 E. Shaw Avenue, Suite 105
Fresno, CA 93710
(559) 241-7474
(559) 241-7460
scott.trippel@ucop.edu
DIVISION OF NATURAL SCIENCES

AREAS OF EMPHASIS:

BIOLOGICAL SCIENCES | PHYSICAL SCIENCES

GENERAL EDUCATION: IGETC IS NOT RECOMMENDED

BIOLOGICAL SCIENCES LOWER DIVISION PREPARATION

Biology (2 or 3 Courses)
2 Courses in Biology
Third Course in Biology recommended

Chemistry (2 Courses)
2 Courses in General Chemistry

Math (2 Courses)
2 Courses in Calculus

Statistics (1 Course)
1 Course in Statistics recommended

Physics (2 or 3 Courses)
2 Courses in General Physics recommended; or
3 Courses in Science Physics recommended

PHYSICAL SCIENCES LOWER DIVISION PREPARATION

Biology (1 Course)
1 Course in Biology

Chemistry (2 Courses)
2 Courses in General Chemistry

Math (2 or 5 Courses)
2 Courses in Calculus

Requirement for Physics Emphasis:
Third Course in Calculus, plus Differential Equations and Linear Algebra

Physics (2 or 3 Courses)
2 Courses in Science Physics

Requirement for Physics Emphasis:
Third Course in Science Physics

Note: All science courses require a laboratory.

RECOMMENDED GENERAL EDUCATION FOR DIVISION OF NATURAL SCIENCES MAJORS

English Composition (2 Courses)

Natural Sciences (2 Courses)
(satisfied through Lower Division Preparation Science Courses)

Humanities | Social | Behavioral Sciences (5 Courses)
2 Courses (at least) in Social/Behavioral Sciences,
2 Courses (at least) in Humanities

Math | Quantitative Reasoning (1 Course)
(satisfied through Lower Division Preparation Calculus)

Additional Courses:
Language other than English:
Coursework equivalent to one year of college study

DIVISION OF ENGINEERING

AREAS OF EMPHASIS:

ENGINEERING | COMPUTER SCIENCE

GENERAL EDUCATION: IGETC IS NOT RECOMMENDED

ENGINEERING AND COMPUTER SCIENCE LOWER DIVISION PREPARATION

Biology (1 Course)
1 Course in Biology

Chemistry (2 Courses)
2 Courses in General Chemistry

Math (5 Courses)
3 Courses in Calculus, plus Differential Equations and Linear Algebra

Statistics (1 Course)
1 Course in Probability and Statistics recommended

Physics (3 Courses)
3 Courses in Science Physics

Specialized Courses (1 or 2 Courses)
Requirement for Engineering Emphasis:
1 Course in Electronics and Circuits

Computer Science (1 Course)
1 Course in Computer Science

Note: All science courses require a laboratory.

RECOMMENDED GENERAL EDUCATION FOR DIVISION OF ENGINEERING MAJORS

English Composition (2 Courses)

Natural Sciences (2 Courses)
(satisfied through Lower Division Preparation Science Courses)

Humanities | Social | Behavioral Sciences (5 Courses)
2 Courses (at least) in Social/Behavioral Sciences,
2 Courses (at least) in Humanities

Math | Quantitative Reasoning (1 Course)
(satisfied through Lower Division Preparation Calculus)

Additional courses:
Language other than English:
Coursework equivalent to one year of college study

DIVISION OF SOCIAL SCIENCES, HUMANITIES AND ARTS

AREAS OF EMPHASIS:

SOCIAL SCIENCES | HUMANITIES AND ARTS

GENERAL EDUCATION: IGETC IS RECOMMENDED

SOCIAL SCIENCES LOWER DIVISION PREPARATION

Statistics (1 Course)
1 Course in Statistics

Intended field of emphasis (2 Courses)
2 Course sequence related to student’s intended field of emphasis.

Requirement for Business and Economics students:
2 Courses in Calculus

ARTS AND HUMANITIES LOWER DIVISION PREPARATION

Intended field of emphasis (2 Courses)
2 Course sequence related to student’s intended field of specialization
### Recommended Preparation for Transfer to UC Merced

**Transfer Foundations for the University of California, Merced**

**Division of Natural Sciences**

*IGETC is not recommended for this division*

August 2003

City College of San Francisco

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**Important:** Students are advised to consult their college counselor, transfer coordinator, or a UC Merced representative for assistance in creating an academic plan. It is important to complete full course sequences whenever possible. Courses below which are **boldfaced and underlined** are highly recommended for preparation to UC Merced. This document will be updated August 2003. For more information, please contact UC Merced Admissions at (559) 241-7474.

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**Recommended Lower-Division Preparation for Biological Sciences Emphasis**

**Biology (2 or 3 Courses)**

- **2 Courses in Biology, third course in Biology recommended**
  - BIO 101A; BIO 101B

**Chemistry (2 Courses)**

- **2 Courses in General Chemistry**
  - CHEM 101A or 103A; CHEM 101B; CHEM 208A or 212A; CHEM 208B or 212B

**Math (2 Courses)**

- **2 Courses in Calculus**
  - MATH 110A; MATH 110B; or MATH 100A; MATH 100B

**Statistics (1 Course)**

- **1 Course in Statistics recommended**
  - ECON 5 or **MATH 80** or PSYC 5

**Physics (2 or 3 Courses)**

- **2 Courses in General Physics recommended; or 3 Courses in Science Physics recommended**
  - PHYC 4A + 4AL; PHYC 4B + 4BL; PHYC 2A + 2AL + 2AC; PHYC 2B + 2BL + 2BC

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(Please See Next Page)
Minimum Admission Requirements for UC

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A. Complete 60 semester or 90 quarter units of transferable college credit with a grade point average of at least 2.4 for California residents and at least 2.8 for nonresidents.

B. Complete the following seven-course pattern requirement, earning a grade of C or better in each:

1. Two courses in English composition
2. One course in mathematics beyond intermediate algebra, such as college algebra, precalculus, or statistics
3. Four courses from among at least two of the following areas:
   - Arts and Humanities
   - Behavioral and Social Sciences
   - Biological and Physical Sciences

Recommended General Education for Division of Natural Sciences

IGETC courses may be used within the pattern described below to meet UC Merced’s recommended general education for the Division of Natural Sciences. However, the completion of IGETC is not recommended or required.

**English Composition (2 Courses)**
- English 1A; English 1B; English 40

**Natural Sciences (2 Courses)**
- Satisfied with the Lower-Division Preparation Courses for the Division of Natural Sciences

**Humanities | Social | Behavioral Sciences (5 Courses)**
- Two (2) courses in Humanities, such as any course that satisfies IGETC Areas 3A or 3B
- Two (2) courses in Social/Behavioral Sciences, such as any course that satisfies IGETC Area 4
- One (1) additional course in either the Humanities or Social/Behavioral Sciences, such as any course that satisfies IGETC Areas 3A, 3B, or 4

**Math | Quantitative Reasoning (1 Course)**
- Satisfied with the Lower-Division Preparation Courses in Calculus for the Division of Natural Sciences

**Language Other Than English:** Proficiency equivalent to one (1) year of college study in the same language with “C” grades or better
- AMSL 1B; Chinese 2, 2AB; French 2,2AB; German 2, 2AB; Italian 2, 2AB; Japanese 2,2AB; Filipino 2, Russian 2, 2AB, 22, 22AB; Spanish 2, 2AB

(Please See Previous Page for Recommended Lower-Division Preparation)
## Recommended Lower-Division Preparation for Physical Sciences Emphasis

### Biology (1 Course)

<table>
<thead>
<tr>
<th>1 Course in Biology</th>
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<tbody>
<tr>
<td>BIO 101A, BIO 101B, BIO 11</td>
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</table>

### Chemistry (2 Courses)

<table>
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<tr>
<th>2 Courses in General Chemistry</th>
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<tbody>
<tr>
<td>CHEM 101A or CHEM 103A, CHEM 101B; CHEM 208A or CHEM 212A; CHEM 208B or CHEM 212B; CHEM 205</td>
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### Math (2 or 5 Courses)

<table>
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<tr>
<th>2 Courses in Calculus; for Physics Emphasis 3 Courses in Calculus plus Differential Equations and Linear Algebra</th>
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</thead>
<tbody>
<tr>
<td>MATH 110A, MATH 110B, MATH 110C, MATH 130 or MATH 120 + 125; MATH 100A; MATH 100B; MATH 115</td>
</tr>
</tbody>
</table>

### Physics (2 or 3 Courses)

<table>
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<tr>
<th>2 Courses in Science Physics recommended; for Physics Emphasis 3 Courses in Science Physics</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYC 4A + 4AL, PHYC 4B + 4BL, PHYC 4C + 4CL + 4D + 4DL, PHYC 2A + 2AL + 2AC</td>
</tr>
</tbody>
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(Please See Next Page)
Minimum Admission Requirements for UC
Students ineligible for admission to the University of California from high school must complete the following requirements for transfer admission, listed as items A and B below. Requirements for students who were eligible when graduating high school are available in the UC publications, Introducing the University and Answers for Transfers (available at www.ucop.edu/pathways). We advise ALL applicants to complete these transfer requirements:

A. Complete 60 semester or 90 quarter units of transferable college credit with a grade point average of at least 2.4 for California residents and at least 2.8 for nonresidents.

B. Complete the following seven-course pattern requirement, earning a grade of C or better in each:
   1. Two courses in English composition
   2. One course in mathematics beyond intermediate algebra, such as college algebra, precalculus, or statistics
   3. Four courses from among at least two of the following areas:
      - Arts and Humanities
      - Behavioral and Social Sciences
      - Biological and Physical Sciences

Recommended General Education for Division of Natural Sciences
IGETC courses may be used within the pattern described below to meet UC Merced’s recommended general education for the Division of Natural Sciences. However, the completion of IGETC is not recommended or required.

| English Composition (2 Courses) |
| English 1A; English 1B; English 40 |
| Natural Sciences (2 Courses) |
| Satisfied with the Lower-Division Preparation Courses for the Division of Natural Sciences |
| Humanities | Social | Behavioral Sciences (5 Courses) |
| Two (2) courses in Humanities, such as any course that satisfies IGETC Areas 3A or 3B |
| Two (2) courses in Social/Behavioral Sciences, such as any course that satisfies IGETC Area 4 |
| One (1) additional course in either the Humanities or Social/Behavioral Sciences, such as any course that satisfies IGETC Areas 3A, 3B, or 4 |
| Math | Quantitative Reasoning (1 Course) |
| Satisfied with the Lower-Division Preparation Courses in Calculus for the Division of Natural Sciences |

Language Other Than English: Proficiency equivalent to one (1) year of college study in the same language with "C" grades or better
- Amsl 1B; Chinese 2, 2AB; French 2, 2AB; German 2, 2AB; Italian 2, 2AB; Japanese 2, 2AB; Pilipino 2, Russian 2, 2AB, 22, 22AB; Spanish 2, 2AB

(Please See Previous Page for Recommended Lower-Division Preparation)
Transfer Foundations for the University of California, Merced 2002-2003
Division of Engineering City College of San Francisco

IGETC is not recommended for this division

RECOMMENDED PREPARATION FOR TRANSFER TO UC MERCED

Recommended Lower-Division Preparation for Engineering & Computer Science Emphasis

Biology (1 Course)

1 Course in Biology
BIO 101A; BIO 101B

Chemistry (2 Courses)

2 Courses in General Chemistry
CHEM 101A or CHEM 103A; CHEM 101B

Math (5 Courses)

3 Courses in Calculus plus Differential Equations and Linear Algebra
MATH 110A; MATH 110B; MATH 110C; MATH 130 or MATH 120 + 125; MATH 115

Statistics (1 Course)

1 Course in Statistics recommended
ECON 5 or MATH 80 or PSYC 5

Physics (3 Courses)

3 Courses in Science Physics
PHYC 4A + 4AL; PHYC 4B + 4BL; PHYC 4C + 4CL + 4D + 4DL

Specialized Courses (1 or 2 Courses)

For Engineering Emphasis 1 Course in Electronics and Circuits
ENGN 20 + 20L

Computer Science (1 Course)

1 Course in Computer Science
ENGN 38; CS 110B; CS 111B

(Please See Next Page)
Minimum Admission Requirements for UC

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A. Complete 60 semester or 90 quarter units of transferable college credit with a grade point average of at least 2.4 for California residents and at least 2.8 for nonresidents.

B. Complete the following seven-course pattern requirement, earning a grade of C or better in each:

   1. Two courses in English composition
   2. One course in mathematics beyond intermediate algebra, such as college algebra, precalculus, or statistics
   3. Four courses from among at least two of the following areas:
      - Arts and Humanities
      - Behavioral and Social Sciences
      - Biological and Physical Sciences

Recommended General Education for Division of Engineering

IGETC courses may be used within the pattern described below to meet UC Merced’s recommended general education for the Division of Engineering. However, the completion of IGETC is not recommended or required.

English Composition (2 Courses)
   - English 1A; English 1B; English 40

Natural Sciences (2 Courses)
   - Satisfied with the Lower-Division Preparation Courses for the Division of Engineering

Humanities | Social | Behavioral Sciences (5 Courses)
   - Two (2) courses in Humanities, such as any course that satisfies IGETC Areas 3A or 3B
   - Two (2) courses in Social/Behavioral Sciences, such as any course that satisfies IGETC Area 4
   - One (1) additional course in either the Humanities or Social/Behavioral Sciences, such as any course that satisfies IGETC Areas 3A, 3B, or 4

Math | Quantitative Reasoning (1 Course)
   - Satisfied with the Lower-Division Preparation Courses in Calculus for the Division of Engineering

Language Other Than English:
   - Proficiency equivalent to one (1) year of college study in the same language with “C” grades or better
   - AMSL 1B; Chinese 2, 2AB; French 2,2AB; German 2, 2AB; Italian 2, 2AB; Japanese 2,2AB; Pilipino 2, Russian 2, 2AB, 22, 22AB; Spanish 2, 2AB

(Please See Previous Page for Recommended Lower-Division Preparation)
Transfer Foundations for the University of California, Merced 2002-2003

Division of Social Sciences, Humanities, & Arts City College of San Francisco

IGETC is recommended for this division

Recommended Lower-Division Preparation for

Social Sciences Emphasis

Statistics (1 Course)

1 Course in Statistics recommended
ECON 5 or MATH 80 or PSYC 5

Intended Field of Emphasis (2 Courses)

2 Course sequence related to student’s intended field of emphasis (see www.ASSIST.org or contact UC Merced Admissions at (559) 241-7474 for more information).

For Business and Economics students 2 Courses in Calculus
MATH 110A; MATH 110B

Recommended Lower-Division Preparation for

Arts & Humanities Emphasis

Intended Field of Emphasis (2 Courses)

2 Course sequence related to student’s intended field of emphasis (see www.ASSIST.org or contact UC Merced Admissions at (559) 241-7474 for more information).

Recommended General Education for the Division of Social Sciences, Humanities, & Arts

Completion of IGETC is strongly recommended.

(Please See Next Page)
Minimum Admission Requirements for UC

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      • Arts and Humanities
      • Behavioral and Social Sciences
      • Biological and Physical Sciences

(Please See Previous Page for Recommended Lower-Division Preparation)