Transfer Major Preparation

Some major preparation courses listed below must be completed prior to transfer. Others are recommended to be completed prior to transfer but may be completed after transfer if necessary. Having more major preparation done before transferring will often shorten the time to graduation. Additional major preparation courses that aren’t listed here may also be taken prior to transfer. Please refer to the major articulation agreements at assist.org for a full listing of major preparation courses for each major and for the California community college courses that will satisfy these requirements. Additional articulation information is available at admissions.ucsb.edu/apply/transfer/articulation.

Key:
- Recommended prior to transfer.
- Required prior to transfer.
- Required prior to transfer with no individual grade below "C" and a cumulative 2.7 major preparation GPA or better.
- Required prior to transfer with no individual grade below "C" and a cumulative 2.75 major preparation GPA or better.

### Letters & Science

#### Anthropology, B.A.
- Cultural anthropology
- Archaeology
- Biological anthropology

#### Art, B.A.
- General Education or IGETC
- Intro art courses (such as drawing, oil painting, sculpture, printmaking or photography)

#### Biochemistry, B.S.
- 1 year general chemistry w/ labs
- 1 year organic chemistry w/ labs
- Physics series w/ labs
- 2 semesters calculus for science and math majors
- Linear algebra
- Multivariable calculus

#### Biological Sciences

#### Aquatic Biology, B.S.
#### Biological Sciences, B.A./B.S.
#### Ecology & Evolution, B.S.
#### Physiology, B.S.
#### Zoology, B.S.
- 1 year general chemistry w/ labs
- Biology for biology majors sequence w/ labs
- 1 year organic chemistry w/ labs
- General physics series w/ labs
- 2 semesters calculus
- Statistics
*Not required for Ecology & Evolution or Zoology, but it may be required by some graduate or professional schools

#### Biochemistry – Molecular Biology, B.S.
- 1 year general chemistry w/ labs
- Biology for biology majors sequence w/ labs
- 1 year organic chemistry w/ labs
- General physics series w/ labs
- 2 semesters calculus for science and math majors
- Linear algebra
- Multivariable calculus

#### Cell & Developmental Biology, B.S.
#### Microbiology, B.S.
#### Pharmacology, B.S.

#### Biopsychology, B.S.
- Introduction to psychology
- Statistics
- 2 semesters calculus
- 1 year general chemistry w/ labs
- Biology for biology majors sequence w/ labs
- 1 year organic chemistry w/ labs
- General physics series w/ labs

#### Chemistry, B.A./B.S.
- 1 year general chemistry w/ labs
- 1 year organic chemistry w/ labs
- Physics for science and engineering majors series w/ labs
- 2 semesters calculus for science and math majors
- Linear algebra
- Differential equations
- Multivariable calculus

#### Classics, B.A.
- General Education or IGETC
- 1st semester world history
- Western civilization
- Classical Archaeology Emphasis:
  - Archaeology
  - 1st semester Western art history
- Classical Language & Literature Emphasis: 1 year Greek or Latin*
- Greek & Roman Culture Emphasis: 1st semester Western art history
*Placement exams available after UCBS enrollment; if needed

#### Communication, B.A.
- General Education or IGETC
- Statistics

#### Comparative Literature, B.A.
- 2 years Language Other Than English (LOTE)
- 1st and 2nd semester world history
- Western civilization
- Western art history

#### Cultural & Gender Studies

#### Asian American Studies, B.A.
#### Asian Studies, B.A.
#### Black Studies, B.A.
#### Chicano/a Studies, B.A.
#### Feminist Studies, B.A.
#### Latin American & Iberian Studies, B.A.
#### Middle East Studies, B.A.
- General Education or IGETC
- Asian Studies, B.A.: 2 years
- Chinese or Japanese OR equivalent language proficiency
- Latin American & Iberian Studies, B.A.: 2 years
- Spanish or Portuguese OR equivalent language proficiency
- Middle East Studies, B.A.: 2 years
- Arabic, Hebrew, Persian or Turkish OR equivalent language proficiency

#### Dance, B.A./B.F.A.
- Audition required
- General Education or IGETC
- History & appreciation of dance
- Ballet series
- Choreography
- Improvisation
- Modern dance series
- Dance lighting design
- Stagecraft OR lighting OR costume
- Music appreciation
- Introduction to acting (for B.F.A.)

#### Earth Science, B.A./B.S.
- 1 year general chemistry w/ labs
- General physics series w/ labs
- OR physics for science and engineering majors series w/ labs (required for Geophysics Emphasis)
- 2 semesters calculus for science and math majors

#### Economics, B.A.
- Economics & Accounting, B.A.
- General Education or IGETC
- Macroeconomics
- Microeconomics
- 1st and 2nd semester calculus
- Economics & Accounting, B.A.: 1 or 2 semesters financial accounting

#### English, B.A.
- Introduction to Shakespeare
- 2 years Language Other Than English (LOTE)
- Introduction to literary study

#### Environmental Studies, B.A.
- 1 semester calculus
- Statistics
- 1st course general chemistry
- Macroeconomics OR microeconomics

#### Film & Media Studies, B.A.
- General Education or IGETC

#### Geography, B.A.
- Including GIS Emphasis
- Statistics
- Physical geography
- Cultural geography
- Lab science (such as biology, chemistry, geology or physics)
- Social science (such as anthropology, economics, psychology or sociology)
- Intro programming
- 1 semester calculus for science and math majors

#### Global Studies, B.A.
- General Education or IGETC
- 1 year modern foreign language

#### History, B.A.
- History of Public Policy, B.A.
- 1st and 2nd semester Western civilization OR world history OR U.S. history
- 1 history course focused outside the U.S. and Europe

#### Letters & Science

#### Anthropology, B.A.
- Cultural anthropology
- Archaeology
- Biological anthropology

#### Art, B.A.
- General Education or IGETC
- Intro art courses (such as drawing, oil painting, sculpture, printmaking or photography)

#### Biochemistry, B.S.
- 1 year general chemistry w/ labs
- 1 year organic chemistry w/ labs
- Physics series w/ labs
- 2 semesters calculus for science and math majors
- Linear algebra
- Multivariable calculus

#### Biological Sciences

#### Aquatic Biology, B.S.
#### Biological Sciences, B.A./B.S.
#### Ecology & Evolution, B.S.
#### Physiology, B.S.
#### Zoology, B.S.
- 1 year general chemistry w/ labs
- Biology for biology majors sequence w/ labs
- 1 year organic chemistry w/ labs
- General physics series w/ labs
- 2 semesters calculus
- Statistics
*Not required for Ecology & Evolution or Zoology, but it may be required by some graduate or professional schools

#### Biochemistry – Molecular Biology, B.S.
- 1 year general chemistry w/ labs
- Biology for biology majors sequence w/ labs
- 1 year organic chemistry w/ labs
- General physics series w/ labs
- 2 semesters calculus for science and math majors
- Linear algebra
- Multivariable calculus

#### Cell & Developmental Biology, B.S.
#### Microbiology, B.S.
#### Pharmacology, B.S.

#### Biopsychology, B.S.
- Introduction to psychology
- Statistics
- 2 semesters calculus
- 1 year general chemistry w/ labs
- Biology for biology majors sequence w/ labs
- 1 year organic chemistry w/ labs
- General physics series w/ labs

#### Chemistry, B.A./B.S.
- 1 year general chemistry w/ labs
- 1 year organic chemistry w/ labs
- Physics for science and engineering majors series w/ labs
- 2 semesters calculus for science and math majors
- Linear algebra
- Differential equations
- Multivariable calculus

#### Classics, B.A.
- General Education or IGETC
- 1st semester world history
- Western civilization
- Classical Archaeology Emphasis:
  - Archaeology
  - 1st semester Western art history
- Classical Language & Literature Emphasis: 1 year Greek or Latin*
- Greek & Roman Culture Emphasis: 1st semester Western art history
*Placement exams available after UCBS enrollment; if needed

#### Communication, B.A.
- General Education or IGETC
- Statistics

#### Comparative Literature, B.A.
- 2 years Language Other Than English (LOTE)
- 1st and 2nd semester world history
- Western civilization
- Western art history
- OR Western art history

#### Cultural & Gender Studies

#### Asian American Studies, B.A.
#### Asian Studies, B.A.
#### Black Studies, B.A.
#### Chicano/a Studies, B.A.
#### Feminist Studies, B.A.
#### Latin American & Iberian Studies, B.A.
#### Middle East Studies, B.A.
- General Education or IGETC
- Asian Studies, B.A.: 2 years
- Chinese or Japanese OR equivalent language proficiency
- Latin American & Iberian Studies, B.A.: 2 years
- Spanish or Portuguese OR equivalent language proficiency
- Middle East Studies, B.A.: 2 years
- Arabic, Hebrew, Persian or Turkish OR equivalent language proficiency

#### Dance, B.A./B.F.A.
- Audition required
- General Education or IGETC
- History & appreciation of dance
- Ballet series
- Choreography
- Improvisation
- Modern dance series
- Dance lighting design
- Stagecraft OR lighting OR costume
- Music appreciation
- Introduction to acting (for B.F.A.)

#### Earth Science, B.A./B.S.
- 1 year general chemistry w/ labs
- General physics series w/ labs
- OR physics for science and engineering majors series w/ labs (required for Geophysics Emphasis)
- 2 semesters calculus for science and math majors

#### Economics, B.A.
- Economics & Accounting, B.A.
- General Education or IGETC
- Macroeconomics
- Microeconomics
- 1st and 2nd semester calculus
- Economics & Accounting, B.A.: 1 or 2 semesters financial accounting

#### English, B.A.
- Introduction to Shakespeare
- 2 years Language Other Than English (LOTE)
- Introduction to literary study

#### Environmental Studies, B.A.
- 1 semester calculus
- Statistics
- 1st course general chemistry
- Macroeconomics OR microeconomics

#### Film & Media Studies, B.A.
- General Education or IGETC

#### Geography, B.A.
- Including GIS Emphasis
- Statistics
- Physical geography
- Cultural geography
- Lab science (such as biology, chemistry, geology or physics)
- Social science (such as anthropology, economics, psychology or sociology)
- Intro programming
- 1 semester calculus for science and math majors

#### Global Studies, B.A.
- General Education or IGETC
- 1 year modern foreign language

#### History, B.A.
- History of Public Policy, B.A.
- 1st and 2nd semester Western civilization OR world history OR U.S. history
- 1 history course focused outside the U.S. and Europe
**History of Art & Architecture, B.A.**
- General Education or IGETC
- 1 year Western art history

**Hydrologic Sciences & Policy, B.S.**
- 1 year general chemistry with labs
- Physics series with labs
- 2 semesters calculus for science and math majors
- Statistics
- Microeconomics or macroeconomics
- Physical geography
- Biology for biology majors sequence with labs
- Linear algebra
- Differential equations

**Music, B.M.**
- 2 years private lessons
- 2 years large ensembles
- 2 years music theory
- 2 years musicianship
- 1 year survey of Western music history
- Piano proficiency required
  - **Piano Emphasis:** 1 year Italian, French, or German
- Voice Emphasis:
  - 1 year Italian
  - 1 year French or German

**Philosophy, B.A.**
- General Education or IGETC
- Critical thinking/logic
- Core Philosophy Concentration:
  - History of philosophy series
  - Ethics & Public Policy Concentration: Ethics

**Physics, B.A./B.S.**
- 1 year general chemistry
- Physics for science and engineering majors sequence with labs
- 2 semesters calculus for science and math majors
- Multivariable calculus
- Linear algebra
- Differential equations

**Political Science, B.A.**
- Political philosophy
- Comparative politics
- International relations
- American government
- Macroeconomics
- Microeconomics

**Psychological & Brain Sciences, B.A.**
- Introduction to psychology
- 1 semester calculus
- Statistics
- 1 year general chemistry
- Biology for biology majors sequence

**Religious Studies, B.A.**
- General Education or IGETC
- 1 or 2 religious studies courses

**Renaissance Studies, B.A.**
- General Education or IGETC
- 2 semesters Western civilization or Western art history

**Sociology, B.A.**
- Introduction to sociology
- Statistics

**Two courses from:**
- 2nd semester world history
- 2nd semester Western civilization
- Latin American history
- U.S. history

**Statistics & Applied Probability**

**Actuarial Science, B.S.**
- Financial Mathematics & Statistics, B.S.
- Statistical Science, B.A./B.S.

**Music Composition, B.A.**
- General Education or IGETC
- Musicianship and music theory

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**Languages**

**Chinese, B.A.**
- 1 year Language Other Than English (LOTE)

**French, B.A.**
- General Education or IGETC

**German, B.A.**
- General Education or IGETC

**Italian Studies, B.A.**
- General Education or IGETC

**Japanese, B.A.**
- General Education or IGETC

**Portuguese, B.A.**
- General Education or IGETC

**Slavic Languages & Literatures, B.A.**
- Spanish, B.A.
- 2 years language instruction or equivalent language proficiency

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**Language, Culture & Society, B.A.**
- 1 year Language Other Than English (LOTE)
- Cultural anthropology
- Introduction to sociology

**Linguistics, B.A.**
- 2 years Language Other Than English (LOTE) in one language
- 1 year LOTE in a 2nd language (encouraged to take one language outside of the Indo-European family)

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**Mathematical Sciences, B.S.**

**Mathematics, B.A./B.S.**
- 2 semesters calculus for science and math majors
- Linear algebra
- Differential equations

**Medieval Studies, B.A.**
- 2 semesters Western civilization or world history

**Music Studies, B.A.**
- 1 or 2 years private lessons and/or ensembles
- 1 year music theory
- 1 year musicianship
- 1 year survey of Western music history
- World music (not required for Western Art Music emphasis)

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**Physics, B.A./B.S.**
- Audition required for B.F.A.
- General Education or IGETC
- Introduction to acting
- Stagecraft
- Lighting
- Costume

**Creative Studies**
- Supplemental application required

**Art, B.A.**
- General Education or IGETC

**Biological Sciences, B.S.**

**Chemistry/Biochemistry, B.A./B.S.**
- 1 year general chemistry with labs
- General physics series with labs
- Biology for biology majors sequence with labs
- 2 semesters calculus for science and math majors

**Chemistry, B.A./B.S.**
- 1 year general chemistry with labs
- General physics series with labs
- Biology for biology majors sequence with labs
- 2 semesters calculus for science and math majors

**Computing, B.S.**
- 2 semesters calculus for science and math majors
- Multivariable calculus
- Linear algebra
- Differential equations
- Advanced C++ programming
- 1st course in general chemistry with lab
- Computer organization with logic design

**Computer Science, B.S.**
- Programming in C or C++
- Data structures in C++
- Discrete math
- Computer organization with logic design

**Computer Engineering, B.S.**
- Programming in C or C++
- Data structures in C++
- Discrete math
- Computer organization with logic design

**Electrical Engineering, B.S.**
- Programming in C or C++
- MATLAB
- Multivariable calculus
- 1st course in general chemistry with lab
- Digital logic

**Mechanical Engineering, B.S.**
- Programming in C or C++
- MATLAB
- Dynamics (highly recommended)
- Multivariable calculus
- 2nd course in general chemistry with lab
- Electronic circuits
- Engineering graphics
- Strength of materials

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