



Academic Senate
for California Community Colleges

LEADERSHIP. EMPOWERMENT. VOICE.

Transfer Webinar

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Overview

- Concept
- Associate Degree for Transfer (ADT) and University of California Transfer Pathway (UCTP)
- UCTP Pilot – Chemistry and Physics
- The Seven Disciplines
- Engineering Model Curriculum
- Next Steps

Concept

- ASCCC Resolution F17 15.01 Aligning Transfer Pathways for the California State University and the University of California

Resolved: That the Academic Senate for California Community Colleges work with the Academic Senates of the California State University and the University of California to identify a single pathway in each of the majors with an Associate Degree for Transfer to ensure that students will be prepared to transfer into either the California State University or the University of California systems.

ADT

- SBI 440 and SB440
- Students guaranteed to transfer to a CSU in a similar major
- 40 TMCs

UCTP

- 20 most sought-after majors
- Single set of major preparation courses for any of the 9 campuses

UCTP Pilot – Chemistry and Physics

- The TMCs are different from the UCTP Pilot
- UCTP Pilot is not an ADT – general education is completed after transfer, but Title 5 GE minimum requirements are met
- 3.5 GPA required in major for guaranteed transfer into a UC Campus
- A student should be able to complete a baccalaureate degree within two years of full time status after transfer

The Seven Disciplines

- Anthropology
- Business Administration*
- Economics
- History
- Mathematics*
- Philosophy
- Sociology
- Pathway in each TMC that aligns with the UCTP
- Requires the use of IGETC general education pattern for transfer to CSU or UC
- A slight modification is needed

Anthropology (1 / 2)

The Anthropology UC Transfer Pathway in the Transfer Model Curriculum

This is the proposed UC Transfer Pathway in the Transfer Model Curriculum.
(DRAFT Proposal)

CCC Major or Area of Emphasis: **Anthropology**
 CSU Major or Majors: **Anthropology**
 UC Transfer Pathway: **Anthropology**
 Total major's preparation units: **18-20** (all units are semester units)

Degree Type: AA-T

"Core" Courses:

Required Core Courses (minimum of 9 units, all courses are universally required)

Title (units)	Min Units	C-ID Designation
Introduction to Cultural Anthropology	3	ANTH 120
Introduction to Biological Anthropology	3	ANTH 110
Introduction to Archaeology	3	ANTH 150

List A Select 3 units minimum from the following:

Any courses that are articulated as lower division major preparation for the anthropology major at the intended transfer institution.
 Some lower division examples include:

Biological Anthropology Laboratory	1	ANTH 115L
Introduction to Linguistic Anthropology	3	ANTH 130
Introduction to Statistics or Introduction to Statistics in Sociology	3	MATH 110 SOCI 125

List B Select 1-2 courses (3-5 units) from the following:

Any courses not selected from List A; and/or any combination of coursework from List B (the courses do not have to be from two areas). Some lower division examples include:



1. Science Methods Introduction to Research Methods in Psychology or Introduction to Research Methods in Psychology (with Lab) or Introduction to Research Methods Philosophy of Science	3 4 3 3	PSY 200 or PSY 205B or SOCI 120 See example
2. Sciences Human Anatomy with Lab Physical Geology and Physical Geology Laboratory or Physical Geology with Lab Earth Science and Earth Science Laboratory or Earth Science with Lab Environmental Geology and Environmental Geology Laboratory or Environmental Geology with Lab Introduction to Geographic Information Systems and Techniques, with Lab	4 3+1 or 4 3+1 or 4 3+1 or 4 2	BIOL 110B GEOL 100/100L or 101 GEOL 120/120L or 121 GEOL 130/130L or 131 GEOG 155

Anthropology (2 / 2)

List C Choose 1 course from the following (3 units minimum):

Any courses not selected from List A or B; *and/or* any anthropology course; and/or any other non-anthropology course from the humanities or social sciences on cultural diversity.

Some lower division examples include:

1. Anthropology Magic, Witchcraft and Religion Native Peoples of North America Early Civilizations Introduction to Prehistory	3 3 3 3
2. Peoples and Cultures History of Mexico Cross Cultural Psychology World Music Introduction to World Religions	3 3 3 3
3. Human Behavioral Diversity Introduction to Human Geography Introduction to Sociology Urban Studies Introduction to Race and Ethnicity Intercultural Communication Or any Social Sciences course in CSU Certification Areas D0, D3 or D5	3 3 3 3 3

The Anthropology UC Transfer Pathway in the Transfer Model Curriculum requires the use of the IGETC General Education Pattern, which will allow students to transfer to CSU or UC.

Business Administration

The Business Administration UC Transfer Pathway in the Transfer Model Curriculum

This is the proposed UC Transfer Pathway in the Transfer Model Curriculum.

(DRAFT Proposal)

CCC Major or Area of Emphasis: Business Administration
 CSU Major or Majors: Business Administration
 UC Transfer Pathway: Business Administration
 Degree Type: AS-T
 Total Major's Preparation Units: 29 units minimum

Required Core Courses

Title	Min Units	C-ID Designation
Financial Accounting	3	ACCT 110
Managerial Accounting	3	ACCT 120
Principles of Microeconomics	3	ECON 201
Principles of Macroeconomics	3	ECON 202
Introduction to Statistics	3	MATH 110
Introduction to Business	3	BUS 110
Business Law OR Legal Environment of Business	3	BUS 125 or BUS 120

Choose a minimum of 8 units from:

Single Variable Calculus I – Early Transcendentals	4	Math 210
Single Variable Calculus II – Early Transcendentals	4	Math 220
OR		
Single Variable Calculus I – Late Transcendentals	4	Math 211
Single Variable Calculus II – Late Transcendentals	4	Math 221
OR		
Single Variable Calculus Sequence	≥8	Math 900S

The Business Administration UC Transfer Pathway in the Transfer Model Curriculum requires the use of the general education pattern /GETC, which will allow students to transfer to CSU or UC.

- Note: The existing TMC may need to be expanded to include the option of a Single Variable STEM Calculus series

Economics

The Economics UC Transfer Pathway in the Transfer Model Curriculum

This is the proposed UC Transfer Pathway in the Transfer Model Curriculum.

(DRAFT Proposal)

CCC Major or Area of Emphasis: Economics
 CSU Major or Majors: Economics
 UC Transfer Pathway: Economics
 Degree Type: AA-T
 Total Major's Preparation Units: 18 units minimum

Required Core Courses (minimum of 17 units, all courses are universally required)

Title	Min Units	C-ID Designation
Principles of Microeconomics	3	Econ 201
Principles of Macroeconomics	3	Econ 202
Introduction to Statistics	3	Math 110

Choose a minimum of 8 units from:

Single Variable Calculus I – Early Transcendentals	4	Math 210
Single Variable Calculus II – Early Transcendentals	4	Math 220

OR

Single Variable Calculus I – Late Transcendentals	4	Math 211
Single Variable Calculus II – Late Transcendentals	4	Math 221

OR

Single Variable Calculus Sequence	≥8	Math 900S
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Choose one course from Group A, if needed for a minimum of 18 units for the major.

Group A Provides Depth of understanding in subject major

Multivariable Calculus	4	Math 230
Introduction to Linear Algebra	3	Math 250
Financial Accounting	3	Acct 110
Managerial Accounting	3	Acct 120
Business Information Systems	3	Bus 140
Business Communications	3	Bus 115

The Economics UC Transfer Pathway in the Transfer Model Curriculum requires the use of the general education pattern *IGETC*, which will allow students to transfer to CSU or UC.

History

The History UC Transfer Pathway in the Transfer Model Curriculum

This is the proposed UC Transfer Pathway in the Transfer Model Curriculum.

(DRAFT Proposal)

CCC Major or Area of Emphasis: **History**
CSU Major or Majors: **History**
UC Transfer Pathway: **History**
Total major's preparation units: **18** (all units are semester units)
Degree Type: AA-T

Required Core Course (12 units minimum)

Title (units)	Min Units	C-ID Designation
World History 1 & 2 OR	6	HIST 150/160 OR
Western Civilization 1 & 2	6	HIST 170/180
US History Sequence	6	HIST 130/140

Select 1 course (3 units minimum) from Group A:

Group A Provides diversity component within understanding in subject major.

Any non-U.S. or non-western history course (any history course not pertaining to the US or Europe) that is articulated as lower division major preparation for the history major at the intended transfer institution.

Some lower division examples include:

Latin American History
Asian History
African History
Middle Eastern History
World Civilization (if not taken as a core course)

Select 1 course (3 units minimum) from Group B:

Group B expands application of discipline

1) Any **history course** (including List A courses, if not used above) **or** any **non-history course** from the humanities or social sciences related to history articulated as fulfilling CSU GE Area C or D **or** any **introductory level social sciences course** articulated as fulfilling CSU GE Area D or
b) a language other than English which is articulated as fulfilling CSU GE Area C2

The History UC Transfer Pathway in the Transfer Model Curriculum requires the use of the IGETC GE Pattern, which will allow students to transfer to CSU or UC.

Mathematics

The Mathematics UC Transfer Pathway in the Transfer Model Curriculum

This is the proposed UC Transfer Pathway in the Transfer Model Curriculum.
(DRAFT Proposal)

CCC Major or Area of Emphasis: Mathematics
 CSU Major or Majors: Mathematics
 UC Transfer Pathway: Mathematics
 Degree Type: AS-T
 Total Major's Preparation Units: 25-30 units minimum

Required Core Courses (minimum of 12 units, all courses are universally required)

Title	Min Units	C-ID Designation
Single Variable Calculus I – Early Transcendentals	4	Math 210
Single Variable Calculus II – Early Transcendentals	4	Math 220
Multivariable Calculus	4	Math 230
OR		
Single Variable Calculus I – Late Transcendentals	4	Math 211
Single Variable Calculus II – Late Transcendentals	4	Math 221
Multivariable Calculus	4	Math 230
OR		
Single Variable Calculus Sequence	≥8	Math 900S
Multivariable Calculus	4	Math 230

Choose a minimum of 5 units from Group A.

Group A Provides depth of understanding in subject major

Ordinary Differential Equations	3	Math 240
Introduction to Linear Algebra	3	Math 250
OR		
Differential Equations and Linear Algebra	5	Math 910S

Choose one sequence from Group B

Group B Expands application of discipline

General Chemistry for Science Majors Sequence A	10	CHEM 120S
Calculus-based Physics for Scientists and Engineers: A	12	PHYS 200S
General Biology for Majors Sequence	8	BIOL 135S

The Mathematics UC Transfer Pathway in the Transfer Model Curriculum requires the use of the general education pattern *IGETC for STEM*, which will allow students to transfer to CSU or UC.

Philosophy

The Philosophy UC Transfer Pathway in the Transfer Model Curriculum

This is the proposed UC Transfer Pathway in the Transfer Model Curriculum.

(DRAFT Proposal)

CCC Major or Area of Emphasis: Philosophy
CSU Major or Majors: Philosophy
UC Transfer Pathway: Philosophy
Degree Type: AA-T
Total Major's Preparation Units: 18 units minimum

Required Core Courses 15 units, (all courses are universally required)

Title	Min Units	C-ID Designation
Symbolic Logic	3	PHIL 210
History of Ancient Philosophy	3	PHIL 130
History of Modern Philosophy	3	PHIL 140
Introduction to Ethics	3	PHIL 120
Philosophy of Mind or Epistemology	3	

List A

Any 1 courses (3 units) from the following:

Title	Min Units	C-ID Designation
Western Civilization I	3	HIST 170
Western Civilization II	3	HIST 180
Introduction to Philosophy of Religion	3	
Introduction to Social and Political Philosophy	3	

The Philosophy UC Transfer Pathway in the Transfer Model Curriculum requires the use of the IGETC GE Pattern, which will allow students to transfer to CSU or UC.

Sociology

The Sociology UC Transfer Pathway (UCTP) in the Transfer Model Curriculum (DRAFT Proposal; 1-21-2020)

This document has been developed to demonstrate the modifications that would be needed to an existing TMC in order to create a degree that is both TMC-aligned and UCTP-aligned.

CCC Major or Area of Emphasis: Sociology
 CSU Major or Majors: Sociology
 UC Transfer Pathway: Sociology
 Degree Type: AA-T
 Total Major's Preparation Units: 18 units minimum

Required Core Courses (all courses are universally required)

Title	Min Units	C-ID Designation
Introduction to Sociology	3	SOCI 110
Social Problems	3	SOCI 115
Intro to Statistics in Sociology or Intro to Statistics Or Behavioral and/or Social Science Statistics	3	SOCI 125 or MATH 110

List A

Any 2 courses (6 units) from the following:

Title	Min Units	C-ID Designation
Introduction to Research Methods or Research Methods for the Behavioral and/or Social Sciences	3	SOCI 120 or Another CSU and UC transferable behavioral and/or social science research methods course that has either a prerequisite of SOCI 125 or PSY 110 or articulation as major preparation.
Introduction to Marriage and Family	3	SOCI 130
Introduction to Gender	3	SOCI 140
Introduction to Race & Ethnicity	3	SOCI 150
Introduction to Crime	3	SOCI 160
Introduction to Social Psychology (may be cross-listed as SOCI) (3)	3	PSY 170
Any sociology course that is articulated as lower major preparation at a CSU or UC.		

List B

Select 1 course (3 units) from the following:

Title	Min Units	C-ID Designation
Introduction to Research Methods or Research Methods for the Behavioral and/or Social Sciences	3	Any courses not selected above, any CSU and UC transferable sociology courses, and/or other courses (in or outside the discipline) that are articulated as lower division major preparation for the Sociology major at a CSU and UC (e.g. Cultural Anthropology, General Psychology) or introductory course in the social sciences.

Summary - In order to align the existing Sociology TMC with the Sociology UCTP, the research methods option that was included in the Sociology TMC core has become an option in List A.

The Sociology UC Transfer Pathway in the Transfer Model Curriculum requires the use of the IGETC GE Pattern, which will allow students to transfer to CSU or UC.

Engineering Model Curriculum

The Electrical Engineering UC Transfer Pathway in the Intersegmental Model Curriculum

This is the proposed UC Transfer Pathway in the Intersegmental Model Curriculum.
(DRAFT Proposal)

CCC Major or Area of Emphasis: Engineering
CSU Major or Majors: Electrical Engineering
UC Transfer Pathway: Electrical Engineering
Degree Type: AS-T
Total Major's Preparation Units: 43 units minimum

Title	Min Units	C-ID Designation
Single Variable Calculus I – Early Transcendentals	4	MATH 210
Single Variable Calculus II – Early Transcendentals	4	MATH 220
Multivariable Calculus	4	MATH 230
OR		
Single Variable Calculus I – Late Transcendentals	4	MATH 211
Single Variable Calculus II – Late Transcendentals	4	MATH 221
Multivariable Calculus	4	MATH 230
OR		
Single Variable Calculus Sequence	8	MATH 900S
Multivariable Calculus	4	MATH 230
AND		

Introduction to Linear Algebra	3	MATH 250
Ordinary Differential Equations	3	MATH 240
Chemistry – General Chem I	5	CHEM 110
Physics for Scientists and Engineers	12	PHYS 200S

AND

Introduction to Programming Concepts and Methodologies for Engineers	4	ENGR120
Circuit Analysis with Lab*	4	ENGR 260 + ENGR 260L

Please note the following differences between the UCTP in Mechanical Engineering and the ISMC in Mechanical, Aerospace, and Manufacturing Engineering:

The ISMC requires Introduction to Engineering (C-ID ENGR 110). The ISMC does not require Linear Algebra (C-ID MATH 250).

Also note that the UC encourages students to complete a logic design course (if available) prior to transfer, but this course is not required to complete the transfer pathway.

The Electrical Engineering UC Transfer Pathway in the Transfer Model Curriculum requires the use of the general education pattern *IGETC for STEM*, which will allow students to transfer to CSU or UC.

- Recommended by the Intersegmental Curriculum Workgroup (ICW)
- Not an ADT – too many units

Next Steps

- Survey to Faculty Discipline Review Groups (FDRGs) on each UCTP Program Map in the TMC: 10-day turnaround
- Follow up webinar:
 - February 4, 2020
 - 2:00-4:00
- At state level – make agreements between CCC and UC