

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

To: University of California, Merced
2022-2023 General Catalog, Semester

From: De Anza College
2022-2023 General Catalog, Quarter

Economics, Quantitative Economics Emphasis, B.S.

ADMISSIONS MAJOR SELECTION CRITERIA

Thank you for your interest in UC Merced!

For Admissions to the **Economics, Quantitative Economics Emphasis B.S.** major, students must earn an overall transferable GPA of 2.4 or better, and must complete classes articulated with the following UC Merced courses by the end of spring term prior to fall enrollment or by the end of fall term prior to spring enrollment.. All Major Preparation courses requires a "C" or better.

REQUIRED: Major Preparation Courses for Transfer:

- ECON 001
- MATH 021
- MATH 022

* Math 23 is not required for admissions, but a Major Preparation course that is strongly recommended to be completed before transfer.

Additional Major Preparation Courses: Recommended to be completed prior to Transfer:

- * ECON 010
- Complete additional Mathematics Requirement: MATH 023 **and** MATH 024
- Computer Science Requirement: BIOE 21 OR CSE 019
- Complete one Introductory Social Science Requirement: ANTH 001, COGS 001, PH 001, PH 005, PSY 001, POLI 001, SOC 001
- Complete one Introductory Natural Science Requirement; ANTH 005, BIO 003, BIO 005, BIO 050, BIO 051, BIO 060, CHEM 001, ESS 001, ESS 002, ESS 010, ESS 015, ESS 020, ESS 043, ESS 047, ESS 050, ESS 065

* ECON 010 (and Math 021) is a prerequisite to ECON 110 (Econometrics) which is an required upper division course.

Courses in the major must be taken for a letter grade and may not be taken on a pass/no pass basis unless the course is only offered on a pass/no pass basis.

AP Exam Score & Course Exemptions

- An AP Chemistry: score of 3 or 4 exempts CHEM 001
- An AP Economics: Both Macroeconomics And Microeconomics score of 4 or 5 exempts ECON 001
- An AP Environmental Sciences: score of 4 or 5 exempts ESS 001
- An AP Mathematics: Calculus AB score of 4 or 5 exempts MATH 011 or MATH 021
- An AP Mathematics: Calculus BC score of 3 or higher exempts MATH 011 or MATH 021
- An AP Mathematics: Calculus BC score of 4 or 5 exempts MATH 011 and MATH 012 OR MATH 021 and MATH 022
- An AP Mathematics: Calculus BC Subscore AB: score of 3 or higher exempts MATH 011 or MATH 021
- An AP Government and Politics: United States score of 4 or 5 exempts POLI 001
- An AP Psychology score of 4 or 5 exempts PSY 001
- An AP Statistics score of 5 exempts ECON 010

UC Merced Advance Placement (AP) and International Baccalaureate (IB) credit policies are detailed in the link below:

[Advance Placement \(AP\) and International Baccalaureate \(IB\) Examinations](#)

IMPORTANT TRANSFER INFORMATION

In addition to the Major Selection Criteria, all Upper-Division Transfer applicants must meet minimum [University of California admissions requirements](#). Visit <https://admissions.ucmerced.edu/transfer/requirements> for more specific UC Merced admissions information.

Prior to Transferring to UC Merced, please be advised of the following for Junior Transfers:

1) WRI 001 and WRI 010 are admissions requirements: In most situations, WRI 001 is fulfilled by IGETC 1A English Composition and WRI 010 is fulfilled by IGETC 1B Critical Thinking/English Composition. However best practice is to complete the articulated course for WRI 001 and WRI 010. Please scroll towards the bottom of the agreement to find the articulation for each course.

2) Transfer Admissions Guarantee (TAG): UC Merced is one of the six UC's that offers Transfer Admissions Guarantee. Please visit the TAG website for more information: <https://admissions.ucmerced.edu/transfer/tag>

3) General Education (GE Requirements): While general education is not required for admission, it can help speed up your time to graduation once you transfer to UC Merced. We highly recommend reviewing the [Transfer Students: Satisfying General Education](#) page in the catalog for a more extensive explanation of the requirements.

Transfer students are strongly encouraged to complete IGETC in order to prepare for work within the School of Social Sciences, Humanities and Arts

(SSHA). IGETC courses may double count with the major courses listed below. Please visit your Community College Counselor to learn more.

4. This agreement displays all lower-division (or Major Preparation) courses required in the major. UC Merced courses on the left, approved (articulated) transfer courses to the right.

5. Changes to this Agreements: Major requirements are subject to change from one academic year to the next. Newly-articulated courses are added on a rolling basis, and articulated courses can be revised. Visit ASSIST every semester for the latest information and consult with an Academic Counselor at your institution on a regular basis.

For more questions about admissions, please email: transfer@ucmerced.edu.

ABOUT THIS MAJOR

The [Economics major](#) is built on a foundation of strong theoretical and statistical training. The major provides students solid grounding in microeconomic and macroeconomic theory, statistical and econometric methodology, as well as applied economic analysis. The Economics major emphasizes the role of incentives and institutions in shaping economic outcomes and how public policies influence economic performance and individual outcomes. Special emphases in the program include development economics, economic growth, economic history, empirical methods, environmental economics, health economics, international trade, labor economics, law and economics, political economy, and public economics.

For more information on the **Quantitative Economics** emphasis, please visit the [22-23 catalog](#) and the [Four-Year Course Plan](#) (We encourage to visit your Community College Counselor to create an individualize educational plan for transfer)

MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER

Minimum grade required: C or better
Required for admission

ECON 001 - Introduction to Economics (4.00)



ECON 1 - Principles of Macroeconomics (4.00)

--- And ---

ECON 2 - Principles of Microeconomics (4.00)

--- And ---

MATH 021 - Calculus I for Physical Sciences & Engineering (4.00)



MATH 1A - Calculus (5.00)

--- And ---

MATH 1B - Calculus (5.00)

--- Or ---

MATH 1AH - Calculus - HONORS (5.00)

--- And ---

MATH 1BH - Calculus - HONORS (5.00)

MATH 022 - Calculus II for Physical Sciences & Engineering (4.00)



MATH 1B - Calculus (5.00)

--- And ---

MATH 1C - Calculus (5.00)

--- Or ---

MATH 1BH - Calculus - HONORS (5.00)

--- And ---

MATH 1CH - Calculus - HONORS (5.00)

ADDITIONAL MAJOR PREPARATION COURSE

Minimum grade required: C or better
Recommended to be completed prior to transfer

ECON 010 - Statistical Inference (4.00)



MATH 10 - Introductory Statistics (5.00)

ADDITIONAL MATHEMATICS REQUIREMENT

Minimum grade required: C or better
Recommended to be completed prior to transfer

MATH 023 - Vector Calculus (4.00)

- ****REFER TO TOP OF AGREEMENT****

**MATH 1C** - Calculus (5.00)

--- And ---

MATH 1D - Calculus (5.00)

--- Or ---

MATH 1CH - Calculus - HONORS (5.00)

--- And ---

MATH 1DH - Calculus - HONORS (5.00)**MATH 024** - Linear Algebra and Differential Equations (4.00)**MATH 2A** - Differential Equations (5.00)

--- And ---

MATH 2B - Linear Algebra (5.00)**COMPUTER SCIENCE REQUIREMENT**

Minimum grade required: C or better

Recommended to be completed prior to transfer

BIOE 021 - Introduction to Computing with Python (4.00)

No Course Articulated

--- Or ---

CSE 019 - Introduction to Computing (4.00)**CIS 26A** - C as a Second Programming Language (4.50)

--- Or ---

CIS 26B - Advanced C Programming (4.50)

- *Effective next fall, this course will no longer articulate*

--- Or ---

CIS 22A - Beginning Programming Methodologies in C++ (4.50)

--- And ---

CIS 22B - Intermediate Programming Methodologies in C++ (4.50)

--- Or ---

CIS 22A - Beginning Programming Methodologies in C++ (4.50)

--- And ---

CIS 22BH - Intermediate Programming Methodologies in C++ - HONORS (4.50)

--- Or ---

CIS 27 - Programming in C++ for C/Java Programmers (4.50)

--- Or ---

CIS 36A - Introduction to Computer Programming Using Java (4.50)

--- And ---

CIS 36B - Intermediate Problem Solving in Java (4.50)

--- Or ---

CIS 41A - Python Programming (4.50)**INTRODUCTORY SOCIAL SCIENCE REQUIREMENT**

Select 1 Course from the following

Minimum grade required: C or better

Recommended to be completed prior to transfer

ANTH 001 - Introduction to Sociocultural Anthropology (4.00)**ANTH 2** - Cultural Anthropology (4.00)**COGS 001** - Introduction to Cognitive Science (4.00)

No Course Articulated

PH 001 - Introduction to Public Health (4.00)

No Course Articulated

PH 005 - Global and International Public Health (4.00)

No Course Articulated

POLI 001 - Introduction to American Politics (4.00)**POLI 1** - American Government and Politics (5.00)

--- Or ---

POLI 1H - American Government and Politics - HONORS (5.00)

PSY 001 - Introduction to Psychology (4.00)

← **PSYC 1** - General Psychology (4.00)

SOC 001 - Introduction to Sociology (4.00)

← **SOC 1** - Introduction to Sociology (4.00)

INTRODUCTORY NATURAL SCIENCE REQUIREMENT

Select 1 Course from the following

Minimum grade required: C or better

Recommended to be completed prior to transfer

ANTH 005 - Introduction to Biological Anthropology (4.00)

← **ANTH 1** - Physical Anthropology (4.00)

BIO 003 - To Know Ourselves: Molecular Basis of Health and Disease (4.00)

← No Course Articulated

BIO 005 - Concepts & Issues in Biology Today (4.00)

← **BIOL 10** - Introductory Biology (5.00)

--- Or ---

BIOL 10H - Introductory Biology - HONORS (5.00)

BIO 050 - Human Development (4.00)

← No Course Articulated

BIO 051 - Cancer and Aging (4.00)

← No Course Articulated

BIO 060 - Nutrition (4.00)

← **NUTR 10** - Contemporary Nutrition (4.00)

CHEM 001 - Preparatory Chemistry (3.00)

← **CHEM 10** - Introductory Chemistry (5.00)

--- Or ---

CHEM 25 - Preparation Course for General Chemistry (5.00)

--- Or ---

CHEM 30A - Introduction to General, Organic, and Biochemistry I (5.00)

ESS 001 - Introduction to Earth Systems Science (4.00)

← No Course Articulated

ESS 002 - Sustainability Science (4.00)

← No Course Articulated

ESS 010 - Earth Resources and Society (4.00)

← No Course Articulated

ESS 015 - Weather, Climate, and the Environment (4.00)

← No Course Articulated

ESS 020 - Fundamentals of Geology (4.00)

← **GEOL 10** - Introductory Geology (5.00)

ESS 043 - Biodiversity and Conservation (4.00)
Same-As: BIO 043

← No Course Articulated

ESS 047 - Astrobiology (4.00)
Same-As: BIO 047

← No Course Articulated

ESS 050 - Ecosystems of California (4.00)

← No Course Articulated

ESS 065 - Natural History of Dinosaurs (4.00)
Same-As: BIO 065

← No Course Articulated

ACADEMIC WRITING - CHOOSE ONE COURSE FROM:

****REFER TO TOP OF AGREEMENT****

Minimum grade required: C or better

WRI 001 - Academic Writing (4.00)

← **ESL 5** - Advanced Composition and Reading (5.00)

--- Or ---

EWRT 1A - Composition and Reading (5.00)

--- Or ---

EWRT 1AH - Composition and Reading - HONORS (5.00)

--- Or ---

EWRT 1AS - Intensive Composition and Reading Stretch: First Quarter (5.00)

- UC credit limitation applies; refer to UC-transferability list

--- And ---

EWRT 1AT - Intensive Composition and Reading Stretch: Second Quarter (5.00)

- UC credit limitation applies; refer to UC-transferability list

COLLEGE READING AND COMPOSITION - CHOOSE ONE COURSE FROM:

****REFER TO TOP OF AGREEMENT****

Minimum grade required: C or better

WRI 010 - College Reading and Composition (4.00)



COMM 9 - Argumentation: Analysis of Oral and Written Communication (5.00)

--- Or ---

COMM 9H - Argumentation: Analysis of Oral and Written Communication - HONORS (5.00)

--- Or ---

EWRT 1B - Reading, Writing and Research (5.00)

--- Or ---

EWRT 1C - Literature and Composition (5.00)

--- Or ---

EWRT 2 - Critical Reading, Writing and Thinking (5.00)

--- Or ---

EWRT 2H - Critical Reading, Writing and Thinking - HONORS (5.00)

--- Or ---

PHIL 3 - Critical Thinking and Writing (5.00)

END OF AGREEMENT