Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

To: University of California, Davis	From: De Anza College
2022-2023 General Catalog, Quarter	2022-2023 General Catalog, Quarter

Mathematics B.S.

INFORMATION AND ADVISORIES

Special Advising Note:

Transfer students are strongly advised to complete as many preparatory courses as possible for their major before enrolling at UC Davis. Preparing well for the major helps students move efficiently toward graduation and significantly reduces time to degree.

Transfer students must also meet UC transfer admission requirements. For details see the UC Davis Transfer Admission website. UC Davis requires that students complete UC transfer admission requirements by the end of Spring term prior to Fall enrollment. In order to receive priority consideration it is strongly recommended that transfer students complete UC transfer admission requirements in English and Mathematics by the end of Fall term prior to enrollment.

REQUIREMENTS FOR ADMISSION:

The Mathematics BS major is selective and requires preparatory coursework for admission. Any required courses that are offered at your current campus must be completed by the close of Spring term prior to Fall enrollment at UC Davis. If required courses are not offered at your college, you must complete them after enrolling at UC Davis.

Transfer students must earn an overall transfer GPA of 2.80 or higher to be competitive candidates for admission to this major (3.20 or higher for TAG applicants). Candidates must complete courses comparable to the following UC Davis courses with a cumulative GPA of 3.0 for the selective major course group below. It is required that candidates have already achieved the minimum required GPA in course(s) from the group below that have been completed by the time of application and that they maintain the GPA through the transfer academic update filing period. Courses must be taken for a letter grade, with no grade less than C. Advanced Placement (AP) or International Baccalaureate (IB) Higher Level examinations may satisfy course equivalents:

- Mathematics 021A/B/C/D
- Mathematics 022A or Mathematics 067
- Mathematics 022B

Transfer Admission Guarantee (TAG) Note:

GPA and other requirements to obtain a UC Davis TAG may differ from those stated here for general transfer admission to the major.
Visit http://tag.ucdavis.edu for details regarding UC Davis TAG.

Intersegmental General Education Transfer Curriculum (IGETC)/UC Davis General Education (GE) Note:

Students have two choices for selection of a GE pattern: IGETC or UC Davis GE. IGETC is available only at California community colleges and works well for students planning to complete undergraduate degrees in the College of Letters and Science at UC Davis. For students pursuing a Bachelor of Science degree, IGETC also satisfies the Natural Sciences and Mathematics Area Breadth requirement of the College. UC Davis accepts partial IGETC certification and IGETC for STEM. Students not planning to complete IGETC should see important information about the UC Davis GE pattern. See additional details about IGETC/GE at ASSIST. The Dean's Office of your undergraduate college at UC Davis determines whether you have satisfied the GE requirement. See a UC Davis academic advisor to understand how to complete all of the GE components.

Advanced Placement (AP) and International Baccalaureate (IB) Examination Note:

AP and IB examination credit policies are detailed in the UC Davis General Catalog. Quick reference charts for AP and IB are also available here.

MAJOR PREPARATION

- **Please carefully review Information and Advisories and Course Articulation Details.**

COURSE ARTICULATION DETAILS

- **Important note: Due to the limitations of the ASSIST platform at this time, it is important to view both the department and major agreements for a complete picture of the articulation arrangements. *Please refer to the appropriate department agreements in conjunction with the major agreement below.***

- **Please check the UC Transferability Lists on ASSIST for information on any credit limitations.**

- **Attention**: **Articulation agreements are California Community College *specific*. Lower division courses that are taken at multiple**

California Community Colleges, including those within a shared district, may articulate differently from what is indicated in the department or major agreements. It is recommended that series courses be completed at the same California Community College. Please contact your California Community College counselor for more information.

PREPARATION COURSES FOR THE MAJOR

ECS 032A - Introduction to Programming (4.00)   ←   No Course Articulated

--- Or ---

ENG 006 - Engineering Problem Solving (4.00)   ←   No Course Articulated

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Highly recommended to complete the entire series
If the entire sequence is not completed prior to transfer, students must consult an advisor prior to enrollment
Complete entire sequence at same institution prior to transfer

MAT 021A - Calculus (4.00)   ←   **MATH 1A** - Calculus (5.00)
- *Credit for articulated courses in one series only*

--- Or ---

MATH 1AH - Calculus - HONORS (5.00)
- *Credit for articulated courses in one series only*

MAT 021B - Calculus (4.00)   ←   **MATH 1B** - Calculus (5.00)
- *Credit for articulated courses in one series only*

--- Or ---

MATH 1BH - Calculus - HONORS (5.00)
- *Credit for articulated courses in one series only*

MAT 021C - Calculus (4.00)   ←   **MATH 1C** - Calculus (5.00)
- *Credit for articulated courses in one series only*

--- Or ---

MATH 1CH - Calculus - HONORS (5.00)
- *Credit for articulated courses in one series only*

MAT 021D - Vector Analysis (4.00)   ←   **MATH 1D** - Calculus (5.00)

--- Or ---

MATH 1DH - Calculus - HONORS (5.00)

MAT 022AL - Linear Algebra Computer Laboratory (1.00)   ←   No Course Articulated
- *Or equivalent basic knowledge of MATLAB*

MAT 022B - Differential Equations (3.00)   ←   **MATH 2A** - Differential Equations (5.00)

--- Or ---

MATH 2AH - Differential Equations - HONORS (5.00)

--- Or ---

MAT 027B - Differential Equations with Applications to Biology (4.00)   ←   No Course Articulated
Same-As: BIS 027B

Select 1 Course or Combination from the following

MAT 022A - Linear Algebra (3.00)   ←   **MATH 2B** - Linear Algebra (5.00)
- *Or equivalent basic knowledge of MATLAB*

--- Or ---

MATH 2BH - Linear Algebra - HONORS (5.00)

--- And ---

MAT 108 - Introduction to Abstract Mathematics (4.00)   ←   This course must be taken at the university after transfer

--- Or ---

MAT 027A - Linear Algebra with Applications to Biology (4.00)   ←   No Course Articulated
Same-As: BIS 027A

--- And ---

MAT 108 - Introduction to Abstract Mathematics (4.00)   ←   This course must be taken at the university after transfer

MAT 067 - Modern Linear Algebra (4.00)   ←   No Course Articulated
- *Or equivalent basic knowledge of MATLAB*

PLAN ONE: GENERAL MATHEMATICS

PHY 009A - Classical Physics (5.00)   ←   **PHYS 4A** - Physics for Scientists and Engineers: Mechanics (6.00)

PLAN TWO: MATHEMATICS FOR SECONDARY TEACHING

Select 1 Course from the following

PHY 007A - General Physics (4.00)   ←

> **PHYS 2B** - General Introductory Physics (5.00)
> --- And ---
> **PHYS 2C** - General Introductory Physics (5.00)
> - *Complete entire sequence at same institution prior to transfer*

PHY 009A - Classical Physics (5.00)   ←   **PHYS 4A** - Physics for Scientists and Engineers: Mechanics (6.00)

STA 013 - Elementary Statistics (4.00)   ←   **MATH 10** - Introductory Statistics (5.00)
- *Course is articulated in more than one agreement but credit can only apply to one*

--- Or ---

MATH 10H - Introductory Statistics - HONORS (5.00)
- *Course is articulated in more than one agreement but credit can only apply to one*

--- Or ---

MATH 17 - Integrated Statistics 2 (5.00)
- *Course is articulated in more than one agreement but credit can only apply to one*

--- Or ---

PSYC 15 - Statistics and Research Methods in Social Science (4.00)
Same-As: SOC 15
- *Course is articulated in more than one agreement but credit can only apply to one*

--- Or ---

SOC 15 - Statistics and Research Methods in Social Science (4.00)
Same-As: PSYC 15
- *Course is articulated in more than one agreement but credit can only apply to one*

STA 013Y - Elementary Statistics (4.00)   ←   **MATH 10** - Introductory Statistics (5.00)
- *Course is articulated in more than one agreement but credit can only apply to one*

--- Or ---

MATH 10H - Introductory Statistics - HONORS (5.00)
- *Course is articulated in more than one agreement but credit can only apply to one*

--- Or ---

MATH 17 - Integrated Statistics 2 (5.00)
- *Course is articulated in more than one agreement but credit can only apply to one*

--- Or ---

PSYC 15 - Statistics and Research Methods in Social Science (4.00)
Same-As: SOC 15
- *Course is articulated in more than one agreement but credit can only apply to one*

--- Or ---

SOC 15 - Statistics and Research Methods in Social Science (4.00)
Same-As: PSYC 15
- *Course is articulated in more than one agreement but credit can only apply to one*

STA 032 - Gateway to Statistical Data Science (4.00)   ←   No Course Articulated

END OF AGREEMENT