

# Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

To: University of California, Davis  
2022-2023 General Catalog, Quarter

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

## Applied 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. In particular, it is highly recommended that students complete chemistry courses before transferring. 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. See the [UC Davis Transfer Admission website](#) for details. UC Davis requires that students complete the minimum transfer admission requirement 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.

#### Special Advising Note for Future Applicants:\*

Beginning Fall, 2022, the Applied Mathematics major will become selective and will require preparatory coursework for admission. Any required courses that are offered at your current campus will need to be completed by the close of Spring term prior to Fall enrollment at UC Davis. If required courses will not be offered at your college, you must complete them after enrolling at UC Davis.

Transfer students must earn an overall GPA of 2.80 or higher to be competitive candidates for admission to this major (3.20 or higher for TAG applicants).

Strive to achieve your highest possible GPA in order to be most competitive.

Candidates must complete courses comparable to the following UC Davis courses with a GPA of at least 3.00 for the selective major course group. It is recommended that candidates have a cumulative GPA of at least 3.00 for the group of courses below that have been completed at the time of application and through the transfer academic update filing period. Whether planning for the general application or TAG process, 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 UC course equivalents).

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

\*Information for future applicants is subject to change.

#### 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

<b>ECS 032A</b> - Introduction to Programming (4.00)	←	No Course Articulated
<b>ENG 006</b> - Engineering Problem Solving (4.00)	←	No Course Articulated
<b>MAT 021A</b> - Calculus (4.00)	←	<b>MATH 1A</b> - Calculus (5.00) <ul style="list-style-type: none"> <li>• Credit for articulated courses in one series only</li> </ul> <div>--- Or ---</div> <b>MATH 1AH</b> - Calculus - HONORS (5.00) <ul style="list-style-type: none"> <li>• Credit for articulated courses in one series only</li> </ul>
<b>MAT 021B</b> - Calculus (4.00)	←	<b>MATH 1B</b> - Calculus (5.00) <ul style="list-style-type: none"> <li>• Credit for articulated courses in one series only</li> </ul> <div>--- Or ---</div> <b>MATH 1BH</b> - Calculus - HONORS (5.00) <ul style="list-style-type: none"> <li>• Credit for articulated courses in one series only</li> </ul>
<b>MAT 021C</b> - Calculus (4.00)	←	<b>MATH 1C</b> - Calculus (5.00) <ul style="list-style-type: none"> <li>• Credit for articulated courses in one series only</li> </ul> <div>--- Or ---</div> <b>MATH 1CH</b> - Calculus - HONORS (5.00) <ul style="list-style-type: none"> <li>• Credit for articulated courses in one series only</li> </ul>
<b>MAT 021D</b> - Vector Analysis (4.00)	←	<b>MATH 1D</b> - Calculus (5.00) <div>--- Or ---</div> <b>MATH 1DH</b> - Calculus - HONORS (5.00)
<b>MAT 022AL</b> - Linear Algebra Computer Laboratory (1.00) <ul style="list-style-type: none"> <li>• Or equivalent basic knowledge of MATLAB</li> </ul>	←	No Course Articulated

<b>MAT 022B</b> - Differential Equations (3.00)	←	<b>MATH 2A</b> - Differential Equations (5.00) <div>--- Or ---</div> <b>MATH 2AH</b> - Differential Equations - HONORS (5.00)
<b>MAT 027B</b> - Differential Equations with Applications to Biology (4.00) <ul style="list-style-type: none"> <li>• Same-As: BIS 027B</li> </ul>	←	No Course Articulated

## Select 1 Course or Combination from the following

<b>MAT 022A</b> - Linear Algebra (3.00) <ul style="list-style-type: none"> <li>• Or equivalent basic knowledge of MATLAB</li> </ul>	←	<b>MATH 2B</b> - Linear Algebra (5.00) <div>--- Or ---</div> <b>MATH 2BH</b> - Linear Algebra - HONORS (5.00)
--- And ---		
<b>MAT 108</b> - Introduction to Abstract Mathematics (4.00)	←	This course must be taken at the university after transfer
--- Or ---		
<b>MAT 027A</b> - Linear Algebra with Applications to Biology (4.00) <ul style="list-style-type: none"> <li>• Same-As: BIS 027A</li> </ul>	←	No Course Articulated
--- And ---		
<b>MAT 108</b> - Introduction to Abstract Mathematics (4.00)	←	This course must be taken at the university after transfer
--- Or ---		

**MAT 067** - Modern Linear Algebra (4.00)

- Or equivalent basic knowledge of MATLAB



No Course Articulated

**Select 1 Sequence from the following**

**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**

**BIS 002A** - Introduction to Biology: Essentials of Life on Earth (5.00)



**BIOL 6B** - Cell and Molecular Biology (6.00)

**BIS 002B** - Introduction to Biology: Principles of Ecology & Evolution (5.00)



**BIOL 6C** - Ecology and Evolution (6.00)

**--- Or ---**

**BIOL 6CH** - Ecology and Evolution - HONORS (6.00)

**--- Or ---**

**CHE 002A** - General Chemistry (5.00)



**CHEM 1A** - General Chemistry (5.00)

- Effective next fall, this articulation will be revised

**--- Or ---**

**CHEM 1AH** - General Chemistry - HONORS (5.00)

- Course is articulated in more than one agreement but credit can only apply to one
- Effective next fall, this articulation will be revised

**CHE 002B** - General Chemistry (5.00)



**CHEM 1B** - General Chemistry (5.00)

- Effective next fall, this articulation will be revised

**--- Or ---**

**CHEM 1BH** - General Chemistry - HONORS (5.00)

- Course is articulated in more than one agreement but credit can only apply to one
- Effective next fall, this articulation will be revised

**--- Or ---**

**ECN 001A** - Principles of Microeconomics (4.00)



**ECON 2** - Principles of Microeconomics (4.00)

**--- Or ---**

**ECON 2H** - Principles of Microeconomics - HONORS (4.00)

**ECN 001B** - Principles of Macroeconomics (4.00)



**ECON 1** - Principles of Macroeconomics (4.00)

**--- Or ---**

**ECON 1H** - Principles of Macroeconomics - HONORS (4.00)

**--- Or ---**

**PHY 009A** - Classical Physics (5.00)



**PHYS 4A** - Physics for Scientists and Engineers: Mechanics (6.00)

**PHY 009B** - Classical Physics (5.00)



**PHYS 4C** - Physics for Scientists and Engineers: Fluids, Waves, Optics and Thermodynamics (6.00)

**--- Or ---**

**STA 032** - Gateway to Statistical Data Science (4.00)



No Course Articulated

**STA 100** - Applied Statistics for Biological Sciences (4.00)



This course must be taken at the university after transfer

**END OF AGREEMENT**