

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

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

Mathematics/Applied Science B.S.

GENERAL INFORMATION

DATED MATERIAL, SUBJECT TO CHANGE. PLEASE CONSULT CURRENT UCSD GENERAL CATALOG FOR ANY ADDITIONAL INFORMATION.

Effective Fall 2018, major preparation will be required for this major. For details, visit: <http://admissions.ucsd.edu/MajorPrep>

MATHEMATICS/APPLIED SCIENCE

Students who have completed C/C++ Programming may be able to use that course in place of one of the required Java Programming classes listed below. Students should speak with a UCSD Mathematics advisor.

The Mathematics/Applied Science major is intended for those students who are interested in mathematics, but who also have a substantial interest in the applications of mathematics to other areas. It is an individual major and students design their own programs while consulting with an academic advisor.

Students who major in Mathematics/Applied Science may pursue one of the following plans, for example, or others which can be custom designed:

- | | |
|-------------------------------------|--|
| 1. Chemistry and Biochemistry | 2. Medical and Life Sciences |
| 3. Cognitive Science and Psychology | 4. Applied Mechanics & Engineering |
| 5. Biology and Bioengineering | 6. Electrical and Computer Engineering |

For more information please visit

<https://math.ucsd.edu/students/undergraduate/ma31-math-applied-science-b-s/>

NOTE: Students who have taken a vector calculus course at a non-UC college must successfully petition the course for 20E equivalency. Petitions must generally include course syllabus, textbook information and final exam. More information on the petition process for 20E can be found at the following site:

<https://www.math.ucsd.edu/students/undergraduate/math-20e-equivalency>

UC San Diego Advanced Placement (AP) and International Baccalaureate (IB) credit policies are detailed in the links below:

Advanced Placement (AP) <https://www.ucsd.edu/catalog/pdf/APC-chart.pdf>

International Baccalaureate (IB) https://catalog.ucsd.edu/_files/international-baccalaureate-credits-chart.pdf

MATH 18 - Linear Algebra (4.00)



MATH 2B - Linear Algebra (5.00)

--- Or ---

MATH 2BH - Linear Algebra - HONORS (5.00)

MATH 20A - Calculus for Science and Engineering (4.00)



MATH 1A - Calculus (5.00)

--- Or ---

MATH 1AH - Calculus - HONORS (5.00)

MATH 20B - Calculus for Science and Engineering (4.00)



MATH 1B - Calculus (5.00)

--- Or ---

MATH 1BH - Calculus - HONORS (5.00)

MATH 20C - Calculus and Analytic Geometry for Science and Engineering (4.00)



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 20D - Introduction to Differential Equations (4.00)



MATH 2A - Differential Equations (5.00)

--- Or ---

MATH 2AH - Differential Equations - HONORS (5.00)

MATH 20E - Vector Calculus (4.00)



No Course Articulated

- *Petition department after transfer*

CSE 11 - Introduction to Programming and Computational Problem Solving - Accelerated Pace (4.00)



CIS 35A - Java Programming (4.50)

--- Or ---

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

--- And ---

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

--- Or ---

CSE 8A - Introduction to Programming and Computational Problem Solving I (4.00)



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

--- Or ---

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

--- Or ---

CIS 40 - Introduction to Programming in Python (4.50)

--- And ---

CSE 8B - Introduction to Programming and Computational Problem Solving II (4.00)



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

--- Or ---

ECE 15 - Engineering Computation (4.00)



This course must be taken at the university after transfer

END OF AGREEMENT