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

Mathematics A.B.

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 A.B. 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 at UC Davis. 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.

College Foreign Language Requirement Note:

Transfer students pursuing this major who do not certify IGETC must complete a college graduation requirement in a foreign language. See https://ucdlc.ucdavis.edu/ and check with the College of Letters and Science Undergraduate Education and Advising Office at UC Davis for more information.

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

- <u>**Important note:**</u> **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***

- **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) Same-As: BIS 027B	←	No Course Articulated

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ADDITIONAL MAJOR REQUIREMENTS

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) Same-As: BIS 027A	←	No Course Articulated

<div align="center">--- And ---</div>

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

<div align="center">--- Or ---</div>

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

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<div align="center">**Select 12 Quarter Unit(s) from the following**</div>

ANT 001 - Human Evolutionary Biology (4.00)	←	**ANTH 1** - Physical Anthropology (4.00) --- Or --- **ANTH 1H** - Physical Anthropology - HONORS (4.00)
ANT 001Y - Human Evolutionary Biology (Hybrid Version) (4.00)	←	This Course is Never Articulated
ANT 013 - Scientific Method in Physical Anthropology (4.00)	←	No Course Articulated
ANT 015 - From Birth to Death: The Evolution of the Human Life Cycle (5.00)	←	No Course Articulated
ANT 054 - Introduction to Primatology (4.00)	←	No Course Articulated
AST 010C - Introduction to Cosmology (3.00)	←	No Course Articulated
AST 010G - Introduction to Stars, Galaxies, & the Universe (3.00)	←	No Course Articulated
AST 010L - Observational Astronomy Lab (1.00)	←	No Course Articulated
AST 010S - Astronomy of the Solar System (3.00)	←	**ASTR 4** - Solar System Astronomy (5.00)
AST 025 - Introduction to Modern Astronomy & Astrophysics (4.00)	←	No Course Articulated
AVS 013 - Birds, Humans & the Environment (3.00)	←	No Course Articulated
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)
BIS 002C - Introduction to Biology: Biodiversity & the Tree of Life (5.00)	←	**BIOL 6A** - Form and Function in the Biological World (6.00) --- Or --- **BIOL 6AH** - Form and Function in the Biological World - HONORS (6.00)
BIS 002D - Introduction to Biology: Principles of Cell Biology & Physiology (3.00)	←	No Course Articulated
BIS 002B - Introduction to Biology: Principles of Ecology & Evolution (5.00) --- And --- **BIS 002C** - Introduction to Biology: Biodiversity & the Tree of Life (5.00)	←	No Course Articulated
BIS 005 - Exploring Biological Sciences (1.00)	←	This Course is Never Articulated
BIS 002A - Introduction to Biology: Essentials of Life on Earth (5.00) --- And --- **BIS 002B** - Introduction to Biology: Principles of Ecology & Evolution (5.00) --- And --- **BIS 002C** - Introduction to Biology: Biodiversity & the Tree of Life (5.00)	←	No Course Articulated
BIS 010 - Everyday Biology (4.00)	←	**BIOL 10** - Introductory Biology (5.00) • *Course is articulated in more than one agreement but credit can only apply to one* --- Or --- **BIOL 10H** - Introductory Biology - HONORS (5.00)
BIS 011 - Issues in the Life Sciences (2.00)	←	This Course is Never Articulated
BIS 011L - Basic Life Sciences Laboratory (1.00)	←	This Course is Never Articulated

BIS 015L - Introduction to Data Science for Biologists (2.00)	←	No Course Articulated
BIS 020Q - Modeling in Biology (2.00)	←	No Course Articulated
BIS 023A - Genome Hunters (3.00)	←	No Course Articulated
BIS 023B - Genome Hunters (3.00)	←	No Course Articulated
BIS 027A - Linear Algebra with Applications to Biology (4.00) Same-As: MAT 027A	←	No Course Articulated
BIS 027B - Differential Equations with Applications to Biology (4.00) Same-As: MAT 027B	←	No Course Articulated
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 002AH - Honors General Chemistry (5.00)	←	**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 course will no longer articulate*
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*
CHE 002BH - Honors General Chemistry (5.00)	←	**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 course will no longer articulate*
CHE 002C - General Chemistry (5.00)	←	**CHEM 1C** - General Chemistry and Qualitative Analysis (5.00) --- Or --- **CHEM 1CH** - General Chemistry and Qualitative Analysis - HONORS (5.00) • *Course is articulated in more than one agreement but credit can only apply to one*
CHE 002CH - Honors General Chemistry (5.00)	←	**CHEM 1CH** - General Chemistry and Qualitative Analysis - HONORS (5.00) • *Course is articulated in more than one agreement but credit can only apply to one* • *Effective next fall, this course will no longer articulate*
CHE 002A - General Chemistry (5.00) --- And --- **CHE 002B** - General Chemistry (5.00)	←	No Course Articulated
CHE 002A - General Chemistry (5.00) --- And --- **CHE 002B** - General Chemistry (5.00) --- And --- **CHE 002C** - General Chemistry (5.00)	←	No Course Articulated
CHE 003A - Chemistry for Life Sciences: Determining Structure & Predicting Properties (5.00)	←	No Course Articulated
CHE 003B - Chemistry for Life Sciences: Predicting & Characterizing Chemical Change (5.00)	←	No Course Articulated
CHE 003C - Chemistry for Life Sciences: Controlling Processes & Synthetic Pathways (5.00)	←	No Course Articulated

CHE 004A - General Chemistry for the Physical Sciences & Engineering (5.00)	←	**CHEM 1AH** - General Chemistry - HONORS (5.00) • *Course is articulated in more than one agreement but credit can only apply to one*
CHE 004B - General Chemistry for the Physical Sciences & Engineering (5.00)	←	**CHEM 1BH** - General Chemistry - HONORS (5.00) • *Course is articulated in more than one agreement but credit can only apply to one*
CHE 004C - General Chemistry for the Physical Sciences & Engineering (5.00)	←	**CHEM 1CH** - General Chemistry and Qualitative Analysis - HONORS (5.00) • *Course is articulated in more than one agreement but credit can only apply to one*
CHE 004A - General Chemistry for the Physical Sciences & Engineering (5.00) --- And --- **CHE 004B** - General Chemistry for the Physical Sciences & Engineering (5.00) --- And --- **CHE 004C** - General Chemistry for the Physical Sciences & Engineering (5.00)	←	No Course Articulated
CHE 008A - Organic Chemistry: Brief Course (2.00)	←	No Course Articulated
CHE 008B - Organic Chemistry: Brief Course (4.00)	←	No Course Articulated
CHE 008A - Organic Chemistry: Brief Course (2.00) --- And --- **CHE 008B** - Organic Chemistry: Brief Course (4.00)	←	No Course Articulated
CHE 010 - Concept of Chemistry (4.00)	←	**CHEM 10** - Introductory Chemistry (5.00)
ENG 010 - The Science Behind the Technology in Our Lives (4.00)	←	No Course Articulated
ENG 035 - Statics (4.00)	←	**ENGR 35** - Statics (4.00)
ECS 012 - Introduction to Media Computation (4.00) Same-As: CDM 012	←	No Course Articulated
ECS 020 - Discrete Mathematics For Computer Science (4.00)	←	**MATH 22** - Discrete Mathematics (5.00) --- Or --- **MATH 22H** - Discrete Mathematics - HONORS (5.00)
ECS 032A - Introduction to Programming (4.00)	←	No Course Articulated
ECS 032B - Introduction to Data Structures (4.00)	←	**CIS 22C** - Data Abstraction and Structures (4.50) • *Course is articulated in more than one agreement but credit can only apply to one* --- Or --- **CIS 22CH** - Data Abstraction and Structures - HONORS (4.50) • *Course is articulated in more than one agreement but credit can only apply to one*
ECS 032C - Implementation of Data Structures in C (4.00)	←	No Course Articulated
ECS 034 - Software Development in UNIX & C++ (4.00)	←	This Course is Never Articulated

ECS 036A - Programming & Problem Solving (4.00)	←	**CIS 22A** - Beginning Programming Methodologies in C++ (4.50)
		--- Or ---
		CIS 22B - Intermediate Programming Methodologies in C++ (4.50)
		• *Course is articulated in more than one agreement but credit can only apply to one*
		--- Or ---
		CIS 22BH - Intermediate Programming Methodologies in C++ - HONORS (4.50)
		• *Course is articulated in more than one agreement but credit can only apply to one*
		--- Or ---
		CIS 26A - C as a Second Programming Language (4.50)
		--- Or ---
		CIS 26B - Advanced C Programming (4.50)
		--- Or ---
		CIS 27 - Programming in C++ for C/Java Programmers (4.50)
		• *Course is articulated in more than one agreement but credit can only apply to one*
		--- Or ---
		CIS 35A - Java Programming (4.50)
		• *Course is articulated in more than one agreement but credit can only apply to one*
		--- Or ---
		CIS 36A - Introduction to Computer Programming Using Java (4.50)
ECS 036B - Software Development & Object-Oriented Programming in C++ (4.00)	←	**CIS 22B** - Intermediate Programming Methodologies in C++ (4.50)
		• *Course is articulated in more than one agreement but credit can only apply to one*
		--- Or ---
		CIS 22BH - Intermediate Programming Methodologies in C++ - HONORS (4.50)
		• *Course is articulated in more than one agreement but credit can only apply to one*
		--- Or ---
		CIS 29 - Advanced C++ Programming (4.50)
		--- Or ---
		CIS 35A - Java Programming (4.50)
		• *Course is articulated in more than one agreement but credit can only apply to one*
		--- Or ---
		CIS 36B - Intermediate Problem Solving in Java (4.50)
ECS 036C - Data Structures, Algorithms, & Programming (4.00)	←	**CIS 22C** - Data Abstraction and Structures (4.50)
		• *Course is articulated in more than one agreement but credit can only apply to one*
		--- Or ---
		CIS 22CH - Data Abstraction and Structures - HONORS (4.50)
		• *Course is articulated in more than one agreement but credit can only apply to one*
ECS 036A - Programming & Problem Solving (4.00) --- And --- **ECS 036B** - Software Development & Object-Oriented Programming in C++ (4.00) --- And --- **ECS 036C** - Data Structures, Algorithms, & Programming (4.00)	←	No Course Articulated
ECS 050 - Computer Organization & Machine-Dependent Programming (4.00)	←	**CIS 21JA** - Introduction to x86 Processor Assembly Language and Computer Architecture (4.50)
ENT 010 - Natural History of Insects (3.00)	←	No Course Articulated
EVE 002 - Biodiversity (3.00)	←	No Course Articulated
EVE 010 - Evolution for Non-Biologists (3.00)	←	No Course Articulated
EVE 011 - Principles of Ecology (4.00)	←	This Course is Never Articulated
EVE 012 - Life in the Sea (3.00)	←	No Course Articulated
EVE 013 - Sex in the Natural World (3.00)	←	No Course Articulated
EVE 016 - Wild Davis: A California Naturalist Certification Course (4.00)	←	No Course Articulated

EVE 017 - Dining with Darwin: Evolutionary Insights Into Your Diet (3.00)	←	No Course Articulated
EVE 020 - Darwinian Medicine (3.00)	←	No Course Articulated
GEL 001 - The Earth (4.00)	←	**GEOL 10** - Introductory Geology (5.00) • *Maximum credit, one course or one course plus lab*
GEL 002 - Earth System Science (3.00)	←	No Course Articulated
GEL 002G - Earth System Science Discussion (1.00)	←	No Course Articulated
GEL 003 - History of Life (3.00)	←	No Course Articulated
GEL 003G - History of Life: Discussion (1.00)	←	No Course Articulated
GEL 003L - History of Life Laboratory (1.00)	←	No Course Articulated
GEL 003 - History of Life (3.00) --- And --- **GEL 003L** - History of Life Laboratory (1.00)	←	No Course Articulated
GEL 004 - Evolution: Science & World View (3.00)	←	No Course Articulated
GEL 009 - Geology Field Experience (1.00)	←	No Course Articulated
GEL 010 - Modern & Ancient Global Environmental Change (3.00)	←	No Course Articulated
GEL 012 - Evolution & Paleobiology of Dinosaurs (2.00)	←	No Course Articulated
GEL 016 - The Oceans (3.00)	←	**GEOL 20** - General Oceanography (4.00)
GEL 016G - The Oceans: Discussion (2.00)	←	No Course Articulated
GEL 016V - The Oceans (3.00)	←	No Course Articulated
GEL 017 - Earthquakes & Other Earth Hazards (2.00)	←	No Course Articulated
GEL 018 - Energy & the Environment (3.00)	←	No Course Articulated
GEL 018V - Energy & the Environment (3.00)	←	No Course Articulated
GEL 020 - Geology of California (2.00)	←	No Course Articulated
GEL 025 - Geology of National Parks (3.00)	←	No Course Articulated
GEL 025V - Geology of National Parks (3.00)	←	No Course Articulated
GEL 028 - Astrobiology (3.00)	←	No Course Articulated
GEL 030 - Fractals, Chaos & Complexity (3.00) Same-As: PHY 030	←	No Course Articulated
GEL 032 - Volcanoes (3.00)	←	No Course Articulated
GEL 035 - Rivers (3.00)	←	No Course Articulated
GEL 036 - The Solar System (4.00)	←	No Course Articulated
GEL 050 - Physical Geology (3.00)	←	**GEOL 10** - Introductory Geology (5.00) • *Maximum credit, one course or one course plus lab*
GEL 050L - Physical Geology Laboratory (2.00)	←	**GEOL 10** - Introductory Geology (5.00) • *Maximum credit, one course or one course plus lab*
GEL 050 - Physical Geology (3.00) --- And --- **GEL 050L** - Physical Geology Laboratory (2.00)	←	No Course Articulated
GEL 053 - Introduction to Geobiology (3.00)	←	No Course Articulated
GEL 055 - Introduction to Geochemistry (3.00)	←	No Course Articulated
GEL 056 - Introduction to Geophysics (4.00)	←	No Course Articulated
GEL 060 - Earth Materials: Introduction (4.00)	←	No Course Articulated
GEL 062 - Optical Mineralogy (2.00)	←	No Course Articulated
GEL 081 - Learning in Science & Mathematics (2.00) Same-As: EDU 081	←	This Course is Never Articulated

MAT 012 - Precalculus (3.00) ←

> **MATH 31** - Precalculus I (5.00)
> --- And ---
> **MATH 32** - Precalculus II (5.00)
> - *Complete entire sequence at same institution prior to transfer*

--- Or ---

> **MATH 31** - Precalculus I (5.00)
> --- And ---
> **MATH 32H** - Precalculus II - HONORS (5.00)
> - *Complete entire sequence at same institution prior to transfer*

--- Or ---

> **MATH 31A** - Precalculus I (Part 1) (2.50)
> --- And ---
> **MATH 31B** - Precalculus I (Part 2) (2.50)
> --- And ---
> **MATH 32** - Precalculus II (5.00)
> - *Complete entire sequence at same institution prior to transfer*

--- Or ---

> **MATH 31A** - Precalculus I (Part 1) (2.50)
> --- And ---
> **MATH 31B** - Precalculus I (Part 2) (2.50)
> --- And ---
> **MATH 32H** - Precalculus II - HONORS (5.00)
> - *Complete entire sequence at same institution prior to transfer*

--- Or ---

> **MATH 31H** - Precalculus I - HONORS (5.00)
> --- And ---
> **MATH 32** - Precalculus II (5.00)
> - *Complete entire sequence at same institution prior to transfer*

--- Or ---

> **MATH 31H** - Precalculus I - HONORS (5.00)
> --- And ---
> **MATH 32H** - Precalculus II - HONORS (5.00)
> - *Complete entire sequence at same institution prior to transfer*

MAT 016A - Short Calculus (3.00) ←

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 016B - Short Calculus (3.00) ←

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 016C - Short Calculus (3.00)	←	**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 017A - Calculus for Biology & Medicine (4.00)	←	No Course Articulated
MAT 017B - Calculus for Biology & Medicine (4.00)	←	No Course Articulated
MAT 017C - Calculus for Biology & Medicine (4.00)	←	No Course Articulated
MAT 017A - Calculus for Biology & Medicine (4.00) --- And --- **MAT 017B** - Calculus for Biology & Medicine (4.00) --- And --- **MAT 017C** - Calculus for Biology & Medicine (4.00)	←	No Course Articulated
MAT 036 - Fundamentals of Mathematics (3.00)	←	This Course is Never Articulated
MAT 071A - Explorations in Elementary Mathematics (3.00)	←	This Course is Never Articulated
MAT 071B - Explorations in Elementary Mathematics (3.00)	←	This Course is Never Articulated
MAT 089 - Elementary Problem Solving (1.00)	←	This Course is Never Articulated
MIC 010 - Natural History of Infectious Diseases (3.00)	←	No Course Articulated
MCB 010 - Introduction to Human Heredity (4.00)	←	No Course Articulated
MCB 023 - Biography of Cancer: Past, Present & Future (3.00)	←	No Course Articulated
NPB 010 - Elementary Human Physiology (3.00)	←	**BIOL 40A** - Human Anatomy and Physiology (5.00) --- And --- **BIOL 40B** - Human Anatomy and Physiology (5.00) --- And --- **BIOL 40C** - Human Anatomy and Physiology (5.00) • *Complete entire sequence at same institution prior to transfer*
NPB 011 - Exercise & Fitness: Principles & Practice (3.00)	←	No Course Articulated
NPB 012 - The Human Brain & Disease (3.00)	←	No Course Articulated
NPB 013 - Extreme Animal Athletes (3.00)	←	No Course Articulated
NPB 014 - Illusions: Fooling the Brain (3.00)	←	No Course Articulated
NPB 015 - The Biology & Physiology of Aging (4.00)	←	No Course Articulated
NPB 015V - The Biology & Physiology of Aging (4.00)	←	No Course Articulated
NPB 015V - The Biology & Physiology of Aging (4.00)	←	No Course Articulated
NPB 017 - The Path to Cyborgs: Introduction to Prostheses & Human Machine Interfaces (3.00)	←	No Course Articulated
NPB 018 - Biological Science for Social Justice (3.00)	←	No Course Articulated
NPB 068 - Biology of Drug Addiction & Abuse (3.00)	←	No Course Articulated
NUT 010 - Discoveries & Concepts in Nutrition (3.00)	←	**NUTR 10** - Contemporary Nutrition (4.00)
NUT 010V - Discoveries & Concepts in Nutrition (3.00)	←	No Course Articulated
NUT 010Y - Discoveries & Concepts in Nutrition (3.00)	←	No Course Articulated
PHY 001A - Principles of Physics (3.00)	←	No Course Articulated
PHY 001B - Principles of Physics (3.00)	←	**PHYS 2A** - General Introductory Physics (5.00)
PHY 001A - Principles of Physics (3.00) --- And --- **PHY 001B** - Principles of Physics (3.00)	←	No Course Articulated

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 007B - 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 007C - 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 007A - General Physics (4.00) --- And --- **PHY 007B** - General Physics (4.00) --- And --- **PHY 007C** - General Physics (4.00)	←	No Course Articulated
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)
PHY 009C - Classical Physics (5.00)	←	**PHYS 4B** - Physics for Scientists and Engineers: Electricity and Magnetism (6.00)
PHY 009B - Classical Physics (5.00) --- And --- **PHY 009C** - Classical Physics (5.00)	←	No Course Articulated
PHY 009A - Classical Physics (5.00) --- And --- **PHY 009B** - Classical Physics (5.00) --- And --- **PHY 009C** - Classical Physics (5.00)	←	No Course Articulated
PHY 009D - Modern Physics (4.00)	←	**PHYS 4D** - Physics for Scientists and Engineers: Modern Physics (6.00)
PHY 009HA - Honors Physics (5.00)	←	No Course Articulated
PHY 009HB - Honors Physics (5.00)	←	No Course Articulated
PHY 009HC - Honors Physics (5.00)	←	No Course Articulated
PHY 009HD - Honors Physics (5.00)	←	No Course Articulated
PHY 009HE - Honors Physics (5.00)	←	No Course Articulated
PHY 010 - Topics in Physics for Nonscientists (4.00)	←	**PHYS 10** - Concepts of Physics (5.00)
PHY 010CY - Physics of California (3.00)	←	No Course Articulated
PHY 012 - Visualization in Science (3.00)	←	No Course Articulated
PHY 030 - Fractals, Chaos & Complexity (3.00) Same-As: GEL 030	←	No Course Articulated
PHY 040 - Introduction to Physics Computation (4.00)	←	No Course Articulated
PLB 010 - Plant Biology (3.00)	←	No Course Articulated

PSC 041 - Research Methods in Psychology (4.00)	←	**PSYC 2** - Research Methods in Psychology (6.00)
		--- 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 010 - Statistical Thinking (4.00)	←	No Course Articulated
STA 012 - Introduction to Discrete Probability (4.00)	←	No Course Articulated
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 015A - Introduction to Statistical Data Science I (4.00)	←	No Course Articulated
STA 015B - Introduction to Statistical Data Science II (4.00)	←	No Course Articulated
STA 015C - Introduction to Statistical Data Science III (4.00)	←	No Course Articulated
STA 032 - Gateway to Statistical Data Science (4.00)	←	No Course Articulated
STA 035A - Statistical Data Science I (4.00)	←	No Course Articulated
STA 035B - Statistical Data Science II (4.00)	←	No Course Articulated
STA 035C - Statistical Data Science III (4.00)	←	No Course Articulated
WFC 010 - Wildlife Ecology & Conservation (4.00)	←	No Course Articulated

END OF AGREEMENT