

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: Long Beach City College
2022-2023 General Catalog, Semester

Computer Science, B.S.

GENERAL INFORMATION

Admission to the Donald Bren School of Information and Computer Science is highly competitive. The most important selection criteria are completion of the required preparatory courses and academic performance. *This major does not participate in the TAG program.*

Required for admission:

Students must have a cumulative GPA of 3.0 and grade of B or higher in all required courses below:

- One year of computer programming courses* in a single object-language (Python, Java, or C++). Object-oriented programming language courses that do not directly articulate to I&C SCI 31-33 can be used to satisfy the admissions requirements. Introduction to computer science courses do not meet this requirement.
- Two semesters/two quarters of approved first-year Calculus
- One additional approved transferable course for the major (an approved math or CS course - see below)

Additional Approved Courses:

- One course in advanced data structures
- One course in machine organization and assembly language (both topics must be covered)
- One course in software engineering
- One course in discrete mathematics
- One course in Boolean algebra
- One course in linear algebra

***NOTE:** Additional computer science courses beyond the two required are strongly recommended, particularly those that align with the major of interest. Our first year of object-oriented programming is taught in Python. C++ and Java are used extensively in the curriculum; therefore, transfer students should plan to learn it by studying on their own or by completing related programming courses prior to their first quarter at UCI.

Additional courses beyond those required for admission must be taken to fulfill the lower-division degree requirements, as many are prerequisites for upper-division courses. For some transfer students, this may mean that it will take longer than two years to complete their degree.

Students should have I&C SCI 31-33 credit first in order to move further into the program here at UCI.

In fulfillment of the requirements below, a single course may be used only once.

For information regarding the [AP and IB examination](#) credit policies refer to the UCI General Catalogue.

MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER

I&C SCI 31 - Introduction to Programming (4.00)

--- And ---

I&C SCI 32 - Programming with Software Libraries (4.00)

--- And ---

I&C SCI 33 - Intermediate Programming (4.00)

- Please refer to additional important General Information section above

CS 11 - Introduction to Computer Science-C++ (3.00)

--- And ---

CS 12 - Advanced Computer Science-C++ (4.00)

MATH 2A - Single-Variable Calculus (4.00)

← MATH 60 - First Calculus Course (5.00)

--- Or ---

MATH 60H - Honors First Calculus Course (5.00)

MATH 2B - Single-Variable Calculus (4.00)

← MATH 70 - Second Calculus Course (5.00)

--- Or ---

MATH 70H - Honors Second Calculus Course (5.00)

One additional approved transferable course for the major (an approved Math, Science, or CSE course):

← No Course Articulated

- Please refer to additional important General Information section above

ONE ADDITIONAL APPROVED TRANSFERABLE COURSE FOR THE MAJOR (MATH OR CS COURSE)

REFER TO TOP OF AGREEMENT

MATH 3A - Introduction to Linear Algebra (4.00)	← MATH 84 - Intro to Differential Equations and Linear Algebra (5.00)
--- Or ---	
I&C SCI 6N - Computational Linear Algebra (4.00)	← No Course Articulated
I&C SCI 6B - Boolean Logic and Discrete Structures (4.00)	← No Course Articulated
I&C SCI 6D - Discrete Mathematics for Computer Science (4.00)	← No Course Articulated
I&C SCI 45C - Programming in C/C++ as a Second Language (4.00)	← No Course Articulated
I&C SCI 46 - Data Structure Implementation and Analysis (4.00)	← No Course Articulated
I&C SCI 51 - Introductory Computer Organization (6.00)	← CS 51 - Introduction to Computer Architecture (3.00)
I&C SCI 53 - Principles in System Design (4.00)	← No Course Articulated
IN4MATX 43 - Introduction to Software Engineering (4.00)	← No Course Articulated
STATS 67 - Introduction to Probability and Statistics for Computer Science (4.00)	← No Course Articulated
Two courses approved for General Education Category II except those related to computing/engineering, economics, or mathematics	← No Course Articulated

END OF AGREEMENT

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: Cypress College
2022-2023 General Catalog, Semester

Computer Science, B.S.

GENERAL INFORMATION

Admission to the Donald Bren School of Information and Computer Science is highly competitive. The most important selection criteria are completion of the required preparatory courses and academic performance. *This major does not participate in the TAG program.*

Required for admission:

Students must have a cumulative GPA of 3.0 and grade of B or higher in all required courses below:

- One year of computer programming courses* in a single object-language (Python, Java, or C++). Object-oriented programming language courses that do not directly articulate to I&C SCI 31-33 can be used to satisfy the admissions requirements. Introduction to computer science courses do not meet this requirement.
- Two semesters/two quarters of approved first-year Calculus
- One additional approved transferable course for the major (an approved math or CS course - see below)

Additional Approved Courses:

- One course in advanced data structures
- One course in machine organization and assembly language (both topics must be covered)
- One course in software engineering
- One course in discrete mathematics
- One course in Boolean algebra
- One course in linear algebra

***NOTE:** Additional computer science courses beyond the two required are strongly recommended, particularly those that align with the major of interest. Our first year of object-oriented programming is taught in Python. C++ and Java are used extensively in the curriculum; therefore, transfer students should plan to learn it by studying on their own or by completing related programming courses prior to their first quarter at UCI.

Additional courses beyond those required for admission must be taken to fulfill the lower-division degree requirements, as many are prerequisites for upper-division courses. For some transfer students, this may mean that it will take longer than two years to complete their degree.

Students should have I&C SCI 31-33 credit first in order to move further into the program here at UCI.

In fulfillment of the requirements below, a single course may be used only once.

For information regarding the [AP and IB examination](#) credit policies refer to the UCI General Catalogue.

MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER

I&C SCI 31 - Introduction to Programming (4.00)

--- And ---

I&C SCI 32 - Programming with Software Libraries (4.00)

--- And ---

I&C SCI 33 - Intermediate Programming (4.00)

- Please refer to additional important General Information section above

CSCI 123 C - Introduction to Programming Concepts in C++ (3.00)

--- And ---

CSCI 133 C - Data Structures in C++ (3.00)

--- Or ---

CIS 226 C - Java Programming (3.00)

--- And ---

CIS 234 C - Advanced Java Programming (3.00)

--- Or ---

CIS 247 C - Python Programming (3.00)

--- And ---

CIS 275 C - Advanced Python Programming (3.00)

MATH 2A - Single-Variable Calculus (4.00)

← **MATH 150AC** - Calculus I (4.00)

MATH 2B - Single-Variable Calculus (4.00)

← **MATH 150BC** - Calculus II (4.00)

One additional approved transferable course for the major (an approved Math, Science, or CSE course):

← No Course Articulated

- Please refer to additional important General Information section above

ONE ADDITIONAL APPROVED TRANSFERABLE COURSE FOR THE MAJOR (MATH OR CS COURSE)

REFER TO TOP OF AGREEMENT

MATH 3A - Introduction to Linear Algebra (4.00)	←	MATH 250BC - Linear Algebra and Differential Equations (5.00)
--- Or ---		
I&C SCI 6N - Computational Linear Algebra (4.00)	←	No Course Articulated
I&C SCI 6B - Boolean Logic and Discrete Structures (4.00)	←	CSCI 252 C - Discrete Structures (3.00)
I&C SCI 6D - Discrete Mathematics for Computer Science (4.00)	←	No Course Articulated
I&C SCI 45C - Programming in C/C++ as a Second Language (4.00)	←	CSCI 123 C - Introduction to Programming Concepts in C++ (3.00) --- And --- CSCI 133 C - Data Structures in C++ (3.00) --- And --- CIS 247 C - Python Programming (3.00)
I&C SCI 46 - Data Structure Implementation and Analysis (4.00)	←	No Course Articulated
I&C SCI 51 - Introductory Computer Organization (6.00)	←	CSCI 242 C - Computer Architecture and Organization (3.00)
I&C SCI 53 - Principles in System Design (4.00)	←	No Course Articulated
IN4MATX 43 - Introduction to Software Engineering (4.00)	←	No Course Articulated
STATS 67 - Introduction to Probability and Statistics for Computer Science (4.00)	←	No Course Articulated
Two courses approved for General Education Category II except those related to computing/engineering, economics, or mathematics	←	No Course Articulated

END OF AGREEMENT

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: Norco College
2022-2023 General Catalog, Semester

Computer Science, B.S.

GENERAL INFORMATION

Admission to the Donald Bren School of Information and Computer Science is highly competitive. The most important selection criteria are completion of the required preparatory courses and academic performance. *This major does not participate in the TAG program.*

Required for admission:

Students must have a cumulative GPA of 3.0 and grade of B or higher in all required courses below:

- One year of computer programming courses* in a single object-language (Python, Java, or C++). Object-oriented programming language courses that do not directly articulate to I&C SCI 31-33 can be used to satisfy the admissions requirements. Introduction to computer science courses do not meet this requirement.
- Two semesters/two quarters of approved first-year Calculus
- One additional approved transferable course for the major (an approved math or CS course - see below)

Additional Approved Courses:

- One course in advanced data structures
- One course in machine organization and assembly language (both topics must be covered)
- One course in software engineering
- One course in discrete mathematics
- One course in Boolean algebra
- One course in linear algebra

***NOTE:** Additional computer science courses beyond the two required are strongly recommended, particularly those that align with the major of interest. Our first year of object-oriented programming is taught in Python. C++ and Java are used extensively in the curriculum; therefore, transfer students should plan to learn it by studying on their own or by completing related programming courses prior to their first quarter at UCI.

Additional courses beyond those required for admission must be taken to fulfill the lower-division degree requirements, as many are prerequisites for upper-division courses. For some transfer students, this may mean that it will take longer than two years to complete their degree.

Students should have I&C SCI 31-33 credit first in order to move further into the program here at UCI.

In fulfillment of the requirements below, a single course may be used only once.

For information regarding the [AP and IB examination](#) credit policies refer to the UCI General Catalogue.

MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER

I&C SCI 31 - Introduction to Programming (4.00)

--- And ---

I&C SCI 32 - Programming with Software Libraries (4.00)

--- And ---

I&C SCI 33 - Intermediate Programming (4.00)

- Please refer to additional important General Information section above

CIS 17A - Programming Concepts and Methodology II: C++ (3.00)

Same-As: CSC 17A

--- And ---

CIS 17B - C++ Programming: Advanced Objects (3.00)

--- Or ---

CIS 18A - JAVA Programming: Objects (3.00)

Same-As: CSC 18A

--- And ---

CIS 18B - Java Programming: Advanced Objects (3.00)

--- Or ---

CIS 30A - Introduction to Python Programming (3.00)

--- And ---

CIS 30E - Advanced Python Programming (3.00)

- Articulates with the first two courses in the series only

MATH 2A - Single-Variable Calculus (4.00)

MAT 1A - Calculus I (4.00)

--- Or ---

MAT 1AH - Honors Calculus I (4.00)

MATH 2B - Single-Variable Calculus (4.00)

← **MAT 1B** - Calculus II (4.00)

One additional approved transferable course for the major (an approved Math, Science, or CSE course):

- Please refer to additional important General Information section above

← No Course Articulated

ONE ADDITIONAL APPROVED TRANSFERABLE COURSE FOR THE MAJOR (MATH OR CS COURSE)

REFER TO TOP OF AGREEMENT

MATH 3A - Introduction to Linear Algebra (4.00)

← **MAT 3** - Linear Algebra (3.00)

--- Or ---

I&C SCI 6N - Computational Linear Algebra (4.00)

← No Course Articulated

I&C SCI 6B - Boolean Logic and Discrete Structures (4.00)

← **CIS 7** - Discrete Structures (3.00)

Same-As: CSC 7

I&C SCI 6D - Discrete Mathematics for Computer Science (4.00)

← No Course Articulated

I&C SCI 45C - Programming in C/C++ as a Second Language (4.00)

← **CIS 17C** - C++ Programming: Data Structures (3.00)

I&C SCI 46 - Data Structure Implementation and Analysis (4.00)

← No Course Articulated

I&C SCI 51 - Introductory Computer Organization (6.00)

← No Course Articulated

I&C SCI 53 - Principles in System Design (4.00)

← No Course Articulated

IN4MATX 43 - Introduction to Software Engineering (4.00)

← No Course Articulated

STATS 67 - Introduction to Probability and Statistics for Computer Science (4.00)

← No Course Articulated

Two courses approved for General Education Category II except those related to computing/engineering, economics, or mathematics ← No Course Articulated

END OF AGREEMENT

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: Skyline College
2022-2023 General Catalog, Semester

Computer Science, B.S.

GENERAL INFORMATION

Admission to the Donald Bren School of Information and Computer Science is highly competitive. The most important selection criteria are completion of the required preparatory courses and academic performance. *This major does not participate in the TAG program.*

Required for admission:

Students must have a cumulative GPA of 3.0 and grade of B or higher in all required courses below:

- One year of computer programming courses* in a single object-language (Python, Java, or C++). Object-oriented programming language courses that do not directly articulate to I&C SCI 31-33 can be used to satisfy the admissions requirements. Introduction to computer science courses do not meet this requirement.
- Two semesters/two quarters of approved first-year Calculus
- One additional approved transferable course for the major (an approved math or CS course - see below)

Additional Approved Courses:

- One course in advanced data structures
- One course in machine organization and assembly language (both topics must be covered)
- One course in software engineering
- One course in discrete mathematics
- One course in Boolean algebra
- One course in linear algebra

***NOTE:** Additional computer science courses beyond the two required are strongly recommended, particularly those that align with the major of interest. Our first year of object-oriented programming is taught in Python. C++ and Java are used extensively in the curriculum; therefore, transfer students should plan to learn it by studying on their own or by completing related programming courses prior to their first quarter at UCI.

Additional courses beyond those required for admission must be taken to fulfill the lower-division degree requirements, as many are prerequisites for upper-division courses. For some transfer students, this may mean that it will take longer than two years to complete their degree.

Students should have I&C SCI 31-33 credit first in order to move further into the program here at UCI.

In fulfillment of the requirements below, a single course may be used only once.

For information regarding the [AP and IB examination](#) credit policies refer to the UCI General Catalogue.

MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER

I&C SCI 31 - Introduction to Programming (4.00)

--- And ---

I&C SCI 32 - Programming with Software Libraries (4.00)

--- And ---

I&C SCI 33 - Intermediate Programming (4.00)

- Please refer to additional important General Information section above

COMP 250 - Intro to Object-Oriented Programming: C++ (3.00)

--- And ---

COMP 252 - Data Structures: C++ (3.00)

MATH 2A - Single-Variable Calculus (4.00)

← **MATH 251** - Calculus with Analytic Geometry I (5.00)

MATH 2B - Single-Variable Calculus (4.00)

← **MATH 252** - Calculus with Analytic Geometry II (5.00)

One additional approved transferable course for the major (an approved Math, Science, or CSE course):

← No Course Articulated

- Please refer to additional important General Information section above

ONE ADDITIONAL APPROVED TRANSFERABLE COURSE FOR THE MAJOR (MATH OR CS COURSE)

REFER TO TOP OF AGREEMENT

MATH 3A - Introduction to Linear Algebra (4.00)

← **MATH 270** - Linear Algebra (3.00)

--- Or ---

I&C SCI 6N - Computational Linear Algebra (4.00)

← No Course Articulated

I&C SCI 6B - Boolean Logic and Discrete Structures (4.00)	← COMP 262 - Discrete Mathematics for Computer Science (3.00)
I&C SCI 6D - Discrete Mathematics for Computer Science (4.00)	← COMP 262 - Discrete Mathematics for Computer Science (3.00)
I&C SCI 45C - Programming in C/C++ as a Second Language (4.00)	← No Course Articulated
I&C SCI 46 - Data Structure Implementation and Analysis (4.00)	← No Course Articulated
I&C SCI 51 - Introductory Computer Organization (6.00)	← COMP 256 - Computer Architecture and Assembly Language (3.00)
I&C SCI 53 - Principles in System Design (4.00)	← No Course Articulated
IN4MATX 43 - Introduction to Software Engineering (4.00)	← No Course Articulated
STATS 67 - Introduction to Probability and Statistics for Computer Science (4.00)	← No Course Articulated
Two courses approved for General Education Category II except those related to computing/engineering, economics, or mathematics	← No Course Articulated

END OF AGREEMENT

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: Palo Verde College
2022-2023 General Catalog, Semester

Computer Science, B.S.

GENERAL INFORMATION

Admission to the Donald Bren School of Information and Computer Science is highly competitive. The most important selection criteria are completion of the required preparatory courses and academic performance. *This major does not participate in the TAG program.*

Required for admission:

Students must have a cumulative GPA of 3.0 and grade of B or higher in all required courses below:

- One year of computer programming courses* in a single object-language (Python, Java, or C++). Object-oriented programming language courses that do not directly articulate to I&C SCI 31-33 can be used to satisfy the admissions requirements. Introduction to computer science courses do not meet this requirement.
- Two semesters/two quarters of approved first-year Calculus
- One additional approved transferable course for the major (an approved math or CS course - see below)

Additional Approved Courses:

- One course in advanced data structures
- One course in machine organization and assembly language (both topics must be covered)
- One course in software engineering
- One course in discrete mathematics
- One course in Boolean algebra
- One course in linear algebra

***NOTE:** Additional computer science courses beyond the two required are strongly recommended, particularly those that align with the major of interest. Our first year of object-oriented programming is taught in Python. C++ and Java are used extensively in the curriculum; therefore, transfer students should plan to learn it by studying on their own or by completing related programming courses prior to their first quarter at UCI.

Additional courses beyond those required for admission must be taken to fulfill the lower-division degree requirements, as many are prerequisites for upper-division courses. For some transfer students, this may mean that it will take longer than two years to complete their degree.

Students should have I&C SCI 31-33 credit first in order to move further into the program here at UCI.

In fulfillment of the requirements below, a single course may be used only once.

For information regarding the [AP and IB examination](#) credit policies refer to the UCI General Catalogue.

MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER

I&C SCI 31 - Introduction to Programming (4.00)

--- And ---

I&C SCI 32 - Programming with Software Libraries (4.00)

--- And ---

I&C SCI 33 - Intermediate Programming (4.00)

- Please refer to additional important General Information section above

← No Course Articulated

MATH 2A - Single-Variable Calculus (4.00)

← MAT 220 - Calculus I (5.00)

MATH 2B - Single-Variable Calculus (4.00)

← No Course Articulated

One additional approved transferable course for the major (an approved Math, Science, or CSE course):

- Please refer to additional important General Information section above

← No Course Articulated

ONE ADDITIONAL APPROVED TRANSFERABLE COURSE FOR THE MAJOR (MATH OR CS COURSE)

REFER TO TOP OF AGREEMENT

MATH 3A - Introduction to Linear Algebra (4.00)

← No Course Articulated

--- Or ---

I&C SCI 6N - Computational Linear Algebra (4.00)

← No Course Articulated

I&C SCI 6B - Boolean Logic and Discrete Structures (4.00) ← No Course Articulated

I&C SCI 6D - Discrete Mathematics for Computer Science (4.00) ← No Course Articulated

I&C SCI 45C - Programming in C/C++ as a Second Language (4.00) ← No Course Articulated

I&C SCI 46 - Data Structure Implementation and Analysis (4.00) ← No Course Articulated

I&C SCI 51 - Introductory Computer Organization (6.00) ← No Course Articulated

I&C SCI 53 - Principles in System Design (4.00) ← No Course Articulated

IN4MATX 43 - Introduction to Software Engineering (4.00) ← No Course Articulated

STATS 67 - Introduction to Probability and Statistics for Computer Science (4.00) ← No Course Articulated

Two courses approved for General Education Category II except those related to computing/engineering, economics, or mathematics ← No Course Articulated

END OF AGREEMENT

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: Moorpark College
2022-2023 General Catalog, Semester

Computer Science, B.S.

GENERAL INFORMATION

Admission to the Donald Bren School of Information and Computer Science is highly competitive. The most important selection criteria are completion of the required preparatory courses and academic performance. *This major does not participate in the TAG program.*

Required for admission:

Students must have a cumulative GPA of 3.0 and grade of B or higher in all required courses below:

- One year of computer programming courses* in a single object-language (Python, Java, or C++). Object-oriented programming language courses that do not directly articulate to I&C SCI 31-33 can be used to satisfy the admissions requirements. Introduction to computer science courses do not meet this requirement.
- Two semesters/two quarters of approved first-year Calculus
- One additional approved transferable course for the major (an approved math or CS course - see below)

Additional Approved Courses:

- One course in advanced data structures
- One course in machine organization and assembly language (both topics must be covered)
- One course in software engineering
- One course in discrete mathematics
- One course in Boolean algebra
- One course in linear algebra

***NOTE:** Additional computer science courses beyond the two required are strongly recommended, particularly those that align with the major of interest. Our first year of object-oriented programming is taught in Python. C++ and Java are used extensively in the curriculum; therefore, transfer students should plan to learn it by studying on their own or by completing related programming courses prior to their first quarter at UCI.

Additional courses beyond those required for admission must be taken to fulfill the lower-division degree requirements, as many are prerequisites for upper-division courses. For some transfer students, this may mean that it will take longer than two years to complete their degree.

Students should have I&C SCI 31-33 credit first in order to move further into the program here at UCI.

In fulfillment of the requirements below, a single course may be used only once.

For information regarding the [AP and IB examination](#) credit policies refer to the UCI General Catalogue.

MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER

I&C SCI 31 - Introduction to Programming (4.00)

--- And ---

I&C SCI 32 - Programming with Software Libraries (4.00)

--- And ---

I&C SCI 33 - Intermediate Programming (4.00)

- Please refer to additional important General Information section above

CS M125 - Programming Concepts and Methodology I (3.00)

--- And ---

CS M135 - Programming Concepts and Methodology II (3.00)

MATH 2A - Single-Variable Calculus (4.00)



MATH M25A - Calculus with Analytic Geometry I (5.00)

--- Or ---

MATH M25AH - Honors: Calculus with Analytic Geometry I (5.00)

MATH 2B - Single-Variable Calculus (4.00)



MATH M25B - Calculus with Analytic Geometry II (5.00)

--- Or ---

MATH M25BH - Honors: Calculus with Analytic Geometry II (5.00)

One additional approved transferable course for the major (an approved Math, Science, or CSE course):

- Please refer to additional important General Information section above

← No Course Articulated

ONE ADDITIONAL APPROVED TRANSFERABLE COURSE FOR THE MAJOR (MATH OR CS COURSE)

REFER TO TOP OF AGREEMENT

MATH 3A - Introduction to Linear Algebra (4.00)	← MATH M31 - Introduction to Linear Algebra (3.00)
--- Or ---	
I&C SCI 6N - Computational Linear Algebra (4.00)	← No Course Articulated
I&C SCI 6B - Boolean Logic and Discrete Structures (4.00)	← CS M155 - Discrete Structures (3.00)
I&C SCI 6D - Discrete Mathematics for Computer Science (4.00)	← MATH M21 - Discrete Mathematics (3.00)
I&C SCI 45C - Programming in C/C++ as a Second Language (4.00)	← No Course Articulated
I&C SCI 46 - Data Structure Implementation and Analysis (4.00)	← No Course Articulated
I&C SCI 51 - Introductory Computer Organization (6.00)	← CS M145 - Computer Architecture and Organization (3.00)
I&C SCI 53 - Principles in System Design (4.00)	← No Course Articulated
IN4MATX 43 - Introduction to Software Engineering (4.00)	← No Course Articulated
STATS 67 - Introduction to Probability and Statistics for Computer Science (4.00)	← No Course Articulated
Two courses approved for General Education Category II except those related to computing/engineering, economics, or mathematics	← No Course Articulated

END OF AGREEMENT

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: College of Alameda
2022-2023 General Catalog, Semester

Computer Science, B.S.

GENERAL INFORMATION

Admission to the Donald Bren School of Information and Computer Science is highly competitive. The most important selection criteria are completion of the required preparatory courses and academic performance. *This major does not participate in the TAG program.*

Required for admission:

Students must have a cumulative GPA of 3.0 and grade of B or higher in all required courses below:

- One year of computer programming courses* in a single object-language (Python, Java, or C++). Object-oriented programming language courses that do not directly articulate to I&C SCI 31-33 can be used to satisfy the admissions requirements. Introduction to computer science courses do not meet this requirement.
- Two semesters/two quarters of approved first-year Calculus
- One additional approved transferable course for the major (an approved math or CS course - see below)

Additional Approved Courses:

- One course in advanced data structures
- One course in machine organization and assembly language (both topics must be covered)
- One course in software engineering
- One course in discrete mathematics
- One course in Boolean algebra
- One course in linear algebra

***NOTE:** Additional computer science courses beyond the two required are strongly recommended, particularly those that align with the major of interest. Our first year of object-oriented programming is taught in Python. C++ and Java are used extensively in the curriculum; therefore, transfer students should plan to learn it by studying on their own or by completing related programming courses prior to their first quarter at UCI.

Additional courses beyond those required for admission must be taken to fulfill the lower-division degree requirements, as many are prerequisites for upper-division courses. For some transfer students, this may mean that it will take longer than two years to complete their degree.

Students should have I&C SCI 31-33 credit first in order to move further into the program here at UCI.

In fulfillment of the requirements below, a single course may be used only once.

For information regarding the [AP and IB examination](#) credit policies refer to the UCI General Catalogue.

MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER

I&C SCI 31 - Introduction to Programming (4.00)

--- And ---

I&C SCI 32 - Programming with Software Libraries (4.00)

--- And ---

I&C SCI 33 - Intermediate Programming (4.00)

- Please refer to additional important General Information section above

← No Course Articulated

MATH 2A - Single-Variable Calculus (4.00)

← MATH 3A - Calculus I (5.00)

MATH 2B - Single-Variable Calculus (4.00)

← MATH 3B - Calculus II (5.00)

One additional approved transferable course for the major (an approved Math, Science, or CSE course):

- Please refer to additional important General Information section above

← No Course Articulated

ONE ADDITIONAL APPROVED TRANSFERABLE COURSE FOR THE MAJOR (MATH OR CS COURSE)

REFER TO TOP OF AGREEMENT

MATH 3A - Introduction to Linear Algebra (4.00)

← MATH 3E - Linear Algebra (3.00)

--- Or ---

I&C SCI 6N - Computational Linear Algebra (4.00)

← No Course Articulated

I&C SCI 6B - Boolean Logic and Discrete Structures (4.00)

← No Course Articulated

I&C SCI 6D - Discrete Mathematics for Computer Science (4.00)

← **MATH 11** - Discrete Mathematics (4.00)

I&C SCI 45C - Programming in C/C++ as a Second Language (4.00)

← No Course Articulated

I&C SCI 46 - Data Structure Implementation and Analysis (4.00)

← No Course Articulated

I&C SCI 51 - Introductory Computer Organization (6.00)

← No Course Articulated

I&C SCI 53 - Principles in System Design (4.00)

← No Course Articulated

IN4MATX 43 - Introduction to Software Engineering (4.00)

← No Course Articulated

STATS 67 - Introduction to Probability and Statistics for Computer Science (4.00)

← No Course Articulated

Two courses approved for General Education Category II except those related to computing/engineering, economics, or mathematics ← No Course Articulated

END OF AGREEMENT

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: Contra Costa College
2022-2023 General Catalog, Semester

Computer Science, B.S.

GENERAL INFORMATION

Admission to the Donald Bren School of Information and Computer Science is highly competitive. The most important selection criteria are completion of the required preparatory courses and academic performance. *This major does not participate in the TAG program.*

Required for admission:

Students must have a cumulative GPA of 3.0 and grade of B or higher in all required courses below:

- One year of computer programming courses* in a single object-language (Python, Java, or C++). Object-oriented programming language courses that do not directly articulate to I&C SCI 31-33 can be used to satisfy the admissions requirements. Introduction to computer science courses do not meet this requirement.
- Two semesters/two quarters of approved first-year Calculus
- One additional approved transferable course for the major (an approved math or CS course - see below)

Additional Approved Courses:

- One course in advanced data structures
- One course in machine organization and assembly language (both topics must be covered)
- One course in software engineering
- One course in discrete mathematics
- One course in Boolean algebra
- One course in linear algebra

***NOTE:** Additional computer science courses beyond the two required are strongly recommended, particularly those that align with the major of interest. Our first year of object-oriented programming is taught in Python. C++ and Java are used extensively in the curriculum; therefore, transfer students should plan to learn it by studying on their own or by completing related programming courses prior to their first quarter at UCI.

Additional courses beyond those required for admission must be taken to fulfill the lower-division degree requirements, as many are prerequisites for upper-division courses. For some transfer students, this may mean that it will take longer than two years to complete their degree.

Students should have I&C SCI 31-33 credit first in order to move further into the program here at UCI.

In fulfillment of the requirements below, a single course may be used only once.

For information regarding the [AP and IB examination](#) credit policies refer to the UCI General Catalogue.

MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER

I&C SCI 31 - Introduction to Programming (4.00)

--- And ---

I&C SCI 32 - Programming with Software Libraries (4.00)

--- And ---

I&C SCI 33 - Intermediate Programming (4.00)

- Please refer to additional important General Information section above

COMP 112 - Introduction to Programming (4.00)

--- And ---

COMP 165 - Advanced Programming with C and C++ (4.00)

--- And ---

COMP 200 - Object Oriented Programming C++ (4.00)

MATH 2A - Single-Variable Calculus (4.00)

← MATH 190 - Analytic Geometry and Calculus I (5.00)

MATH 2B - Single-Variable Calculus (4.00)

← MATH 191 - Analytic Geometry and Calculus II (4.00)

One additional approved transferable course for the major (an approved Math, Science, or CSE course):

← No Course Articulated

- Please refer to additional important General Information section above

ONE ADDITIONAL APPROVED TRANSFERABLE COURSE FOR THE MAJOR (MATH OR CS COURSE)

REFER TO TOP OF AGREEMENT

MATH 3A - Introduction to Linear Algebra (4.00)

← MATH 200 - Introduction to Linear Algebra (4.00)

--- Or ---

I&C SCI 6N - Computational Linear Algebra (4.00)	← No Course Articulated
I&C SCI 6B - Boolean Logic and Discrete Structures (4.00)	← No Course Articulated
I&C SCI 6D - Discrete Mathematics for Computer Science (4.00)	← No Course Articulated
I&C SCI 45C - Programming in C/C++ as a Second Language (4.00)	← COMP 200 - Object Oriented Programming C++ (4.00)
I&C SCI 46 - Data Structure Implementation and Analysis (4.00)	←
	COMP 112 - Introduction to Programming (4.00) --- And --- COMP 165 - Advanced Programming with C and C++ (4.00) --- And --- COMP 200 - Object Oriented Programming C++ (4.00) --- And --- COMP 210 - Program Design and Data Structures (4.00)
I&C SCI 51 - Introductory Computer Organization (6.00)	← COMP 265 - Assembly Language Programming/Computer Organization (4.00)
I&C SCI 53 - Principles in System Design (4.00)	← No Course Articulated
IN4MATX 43 - Introduction to Software Engineering (4.00)	← No Course Articulated
STATS 67 - Introduction to Probability and Statistics for Computer Science (4.00)	← No Course Articulated
Two courses approved for General Education Category II except those related to computing/engineering, economics, or mathematics	← No Course Articulated

END OF AGREEMENT

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: Golden West College
2022-2023 General Catalog, Semester

Computer Science, B.S.

GENERAL INFORMATION

Admission to the Donald Bren School of Information and Computer Science is highly competitive. The most important selection criteria are completion of the required preparatory courses and academic performance. *This major does not participate in the TAG program.*

Required for admission:

Students must have a cumulative GPA of 3.0 and grade of B or higher in all required courses below:

- One year of computer programming courses* in a single object-language (Python, Java, or C++). Object-oriented programming language courses that do not directly articulate to I&C SCI 31-33 can be used to satisfy the admissions requirements. Introduction to computer science courses do not meet this requirement.
- Two semesters/two quarters of approved first-year Calculus
- One additional approved transferable course for the major (an approved math or CS course - see below)

Additional Approved Courses:

- One course in advanced data structures
- One course in machine organization and assembly language (both topics must be covered)
- One course in software engineering
- One course in discrete mathematics
- One course in Boolean algebra
- One course in linear algebra

***NOTE:** Additional computer science courses beyond the two required are strongly recommended, particularly those that align with the major of interest. Our first year of object-oriented programming is taught in Python. C++ and Java are used extensively in the curriculum; therefore, transfer students should plan to learn it by studying on their own or by completing related programming courses prior to their first quarter at UCI.

Additional courses beyond those required for admission must be taken to fulfill the lower-division degree requirements, as many are prerequisites for upper-division courses. For some transfer students, this may mean that it will take longer than two years to complete their degree.

Students should have I&C SCI 31-33 credit first in order to move further into the program here at UCI.

In fulfillment of the requirements below, a single course may be used only once.

For information regarding the [AP and IB examination](#) credit policies refer to the UCI General Catalogue.

MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER

I&C SCI 31 - Introduction to Programming (4.00)

--- And ---

I&C SCI 32 - Programming with Software Libraries (4.00)

--- And ---

I&C SCI 33 - Intermediate Programming (4.00)

- Please refer to additional important General Information section above

CS G175 - C++ Programming (4.00)

--- And ---

CS G179 - C++ Programming, Advanced (4.00)

--- And ---

CS G189 - Data Structures with C++ (4.00)

--- And ---

CS G131 - Python Programming I (4.00)

MATH 2A - Single-Variable Calculus (4.00)

← MATH G180 - Calculus 1 (4.00)

MATH 2B - Single-Variable Calculus (4.00)

← MATH G185 - Calculus 2 (4.00)

One additional approved transferable course for the major (an approved Math, Science, or CSE course):

← No Course Articulated

- Please refer to additional important General Information section above

ONE ADDITIONAL APPROVED TRANSFERABLE COURSE FOR THE MAJOR (MATH OR CS COURSE)

REFER TO TOP OF AGREEMENT

MATH 3A - Introduction to Linear Algebra (4.00)	←	MATH G235 - Applied Linear Algebra (4.00)
--- Or ---		
	←	MATH G285 - Introduction to Linear Algebra and Differential Equations (5.00)
--- Or ---		
I&C SCI 6N - Computational Linear Algebra (4.00)	←	No Course Articulated
I&C SCI 6B - Boolean Logic and Discrete Structures (4.00)	←	No Course Articulated
I&C SCI 6D - Discrete Mathematics for Computer Science (4.00)	←	CS G262 - Discrete Structures (3.00)
I&C SCI 45C - Programming in C/C++ as a Second Language (4.00)	←	CS G175 - C++ Programming (4.00) --- And --- CS G179 - C++ Programming, Advanced (4.00) --- And --- CS G189 - Data Structures with C++ (4.00) --- And --- CS G131 - Python Programming I (4.00)
I&C SCI 46 - Data Structure Implementation and Analysis (4.00)	←	No Course Articulated
I&C SCI 51 - Introductory Computer Organization (6.00)	←	CS G242 - Computer Architecture and Organization (3.00)
I&C SCI 53 - Principles in System Design (4.00)	←	No Course Articulated
IN4MATX 43 - Introduction to Software Engineering (4.00)	←	No Course Articulated
STATS 67 - Introduction to Probability and Statistics for Computer Science (4.00)	←	No Course Articulated
Two courses approved for General Education Category II except those related to computing/engineering, economics, or mathematics	←	No Course Articulated

END OF AGREEMENT

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: Reedley College
2022-2023 General Catalog, Semester

Computer Science, B.S.

GENERAL INFORMATION

Admission to the Donald Bren School of Information and Computer Science is highly competitive. The most important selection criteria are completion of the required preparatory courses and academic performance. *This major does not participate in the TAG program.*

Required for admission:

Students must have a cumulative GPA of 3.0 and grade of B or higher in all required courses below:

- One year of computer programming courses* in a single object-language (Python, Java, or C++). Object-oriented programming language courses that do not directly articulate to I&C SCI 31-33 can be used to satisfy the admissions requirements. Introduction to computer science courses do not meet this requirement.
- Two semesters/two quarters of approved first-year Calculus
- One additional approved transferable course for the major (an approved math or CS course - see below)

Additional Approved Courses:

- One course in advanced data structures
- One course in machine organization and assembly language (both topics must be covered)
- One course in software engineering
- One course in discrete mathematics
- One course in Boolean algebra
- One course in linear algebra

***NOTE:** Additional computer science courses beyond the two required are strongly recommended, particularly those that align with the major of interest. Our first year of object-oriented programming is taught in Python. C++ and Java are used extensively in the curriculum; therefore, transfer students should plan to learn it by studying on their own or by completing related programming courses prior to their first quarter at UCI.

Additional courses beyond those required for admission must be taken to fulfill the lower-division degree requirements, as many are prerequisites for upper-division courses. For some transfer students, this may mean that it will take longer than two years to complete their degree.

Students should have I&C SCI 31-33 credit first in order to move further into the program here at UCI.

In fulfillment of the requirements below, a single course may be used only once.

For information regarding the [AP and IB examination](#) credit policies refer to the UCI General Catalogue.

MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER

I&C SCI 31 - Introduction to Programming (4.00)

--- And ---

I&C SCI 32 - Programming with Software Libraries (4.00)

--- And ---

I&C SCI 33 - Intermediate Programming (4.00)

- Please refer to additional important General Information section above

CSCI 40 - Programming Concepts and Methodology I (4.00)

--- And ---

CSCI 41 - Programming Concepts and Methodology II (4.00)

MATH 2A - Single-Variable Calculus (4.00)

← **MATH 5A** - Calculus I (5.00)

MATH 2B - Single-Variable Calculus (4.00)

← **MATH 5B** - Calculus II (4.00)

One additional approved transferable course for the major (an approved Math, Science, or CSE course):

← No Course Articulated

- Please refer to additional important General Information section above

ONE ADDITIONAL APPROVED TRANSFERABLE COURSE FOR THE MAJOR (MATH OR CS COURSE)

REFER TO TOP OF AGREEMENT

MATH 3A - Introduction to Linear Algebra (4.00)

← **MATH 17** - Differential Equations and Linear Algebra (5.00)

--- Or ---

I&C SCI 6N - Computational Linear Algebra (4.00)

← No Course Articulated

I&C SCI 6B - Boolean Logic and Discrete Structures (4.00) ← No Course Articulated

I&C SCI 6D - Discrete Mathematics for Computer Science (4.00) ← No Course Articulated

I&C SCI 45C - Programming in C/C++ as a Second Language (4.00) ← No Course Articulated

I&C SCI 46 - Data Structure Implementation and Analysis (4.00) ← No Course Articulated

I&C SCI 51 - Introductory Computer Organization (6.00) ← No Course Articulated

I&C SCI 53 - Principles in System Design (4.00) ← No Course Articulated

IN4MATX 43 - Introduction to Software Engineering (4.00) ← No Course Articulated

STATS 67 - Introduction to Probability and Statistics for Computer Science (4.00) ← No Course Articulated

Two courses approved for General Education Category II except those related to computing/engineering, economics, or mathematics ← No Course Articulated

END OF AGREEMENT

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: El Camino College
2022-2023 General Catalog, Semester

Computer Science, B.S.

GENERAL INFORMATION

Admission to the Donald Bren School of Information and Computer Science is highly competitive. The most important selection criteria are completion of the required preparatory courses and academic performance. *This major does not participate in the TAG program.*

Required for admission:

Students must have a cumulative GPA of 3.0 and grade of B or higher in all required courses below:

- One year of computer programming courses* in a single object-language (Python, Java, or C++). Object-oriented programming language courses that do not directly articulate to I&C SCI 31-33 can be used to satisfy the admissions requirements. Introduction to computer science courses do not meet this requirement.
- Two semesters/two quarters of approved first-year Calculus
- One additional approved transferable course for the major (an approved math or CS course - see below)

Additional Approved Courses:

- One course in advanced data structures
- One course in machine organization and assembly language (both topics must be covered)
- One course in software engineering
- One course in discrete mathematics
- One course in Boolean algebra
- One course in linear algebra

***NOTE:** Additional computer science courses beyond the two required are strongly recommended, particularly those that align with the major of interest. Our first year of object-oriented programming is taught in Python. C++ and Java are used extensively in the curriculum; therefore, transfer students should plan to learn it by studying on their own or by completing related programming courses prior to their first quarter at UCI.

Additional courses beyond those required for admission must be taken to fulfill the lower-division degree requirements, as many are prerequisites for upper-division courses. For some transfer students, this may mean that it will take longer than two years to complete their degree.

Students should have I&C SCI 31-33 credit first in order to move further into the program here at UCI.

In fulfillment of the requirements below, a single course may be used only once.

For information regarding the [AP and IB examination](#) credit policies refer to the UCI General Catalogue.

MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER

I&C SCI 31 - Introduction to Programming (4.00)

--- And ---

I&C SCI 32 - Programming with Software Libraries (4.00)

--- And ---

I&C SCI 33 - Intermediate Programming (4.00)

- Please refer to additional important General Information section above

COMP SCI 1 - Problem Solving and Program Design Using C++ (4.00)

--- And ---

COMP SCI 30 - Advanced Programming in C++ (4.00)

MATH 2A - Single-Variable Calculus (4.00)

← **MATH 190** - Single Variable Calculus and Analytic Geometry I (5.00)

MATH 2B - Single-Variable Calculus (4.00)

← **MATH 191** - Single Variable Calculus and Analytic Geometry II (5.00)

One additional approved transferable course for the major (an approved Math, Science, or CSE course):

← No Course Articulated

- Please refer to additional important General Information section above

ONE ADDITIONAL APPROVED TRANSFERABLE COURSE FOR THE MAJOR (MATH OR CS COURSE)

REFER TO TOP OF AGREEMENT

MATH 3A - Introduction to Linear Algebra (4.00)

← **MATH 270** - Differential Equations with Linear Algebra (5.00)

--- Or ---

I&C SCI 6N - Computational Linear Algebra (4.00)

← No Course Articulated

I&C SCI 6B - Boolean Logic and Discrete Structures (4.00)

← No Course Articulated

I&C SCI 6D - Discrete Mathematics for Computer Science (4.00)

← **MATH 210** - Introduction to Discrete Structures (5.00)

I&C SCI 45C - Programming in C/C++ as a Second Language (4.00)

← No Course Articulated

I&C SCI 46 - Data Structure Implementation and Analysis (4.00)

← No Course Articulated

I&C SCI 51 - Introductory Computer Organization (6.00)

← No Course Articulated

I&C SCI 53 - Principles in System Design (4.00)

← No Course Articulated

IN4MATX 43 - Introduction to Software Engineering (4.00)

← No Course Articulated

STATS 67 - Introduction to Probability and Statistics for Computer Science (4.00)

← No Course Articulated

Two courses approved for General Education Category II except those related to computing/engineering, economics, or mathematics ← No Course Articulated

END OF AGREEMENT

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: Los Angeles Mission College
2022-2023 General Catalog, Semester

Computer Science, B.S.

GENERAL INFORMATION

Admission to the Donald Bren School of Information and Computer Science is highly competitive. The most important selection criteria are completion of the required preparatory courses and academic performance. *This major does not participate in the TAG program.*

Required for admission:

Students must have a cumulative GPA of 3.0 and grade of B or higher in all required courses below:

- One year of computer programming courses* in a single object-language (Python, Java, or C++). Object-oriented programming language courses that do not directly articulate to I&C SCI 31-33 can be used to satisfy the admissions requirements. Introduction to computer science courses do not meet this requirement.
- Two semesters/two quarters of approved first-year Calculus
- One additional approved transferable course for the major (an approved math or CS course - see below)

Additional Approved Courses:

- One course in advanced data structures
- One course in machine organization and assembly language (both topics must be covered)
- One course in software engineering
- One course in discrete mathematics
- One course in Boolean algebra
- One course in linear algebra

***NOTE:** Additional computer science courses beyond the two required are strongly recommended, particularly those that align with the major of interest. Our first year of object-oriented programming is taught in Python. C++ and Java are used extensively in the curriculum; therefore, transfer students should plan to learn it by studying on their own or by completing related programming courses prior to their first quarter at UCI.

Additional courses beyond those required for admission must be taken to fulfill the lower-division degree requirements, as many are prerequisites for upper-division courses. For some transfer students, this may mean that it will take longer than two years to complete their degree.

Students should have I&C SCI 31-33 credit first in order to move further into the program here at UCI.

In fulfillment of the requirements below, a single course may be used only once.

For information regarding the [AP and IB examination](#) credit policies refer to the UCI General Catalogue.

MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER

I&C SCI 31 - Introduction to Programming (4.00)

--- And ---

I&C SCI 32 - Programming with Software Libraries (4.00)

--- And ---

I&C SCI 33 - Intermediate Programming (4.00)

- Please refer to additional important General Information section above

← No Course Articulated

MATH 2A - Single-Variable Calculus (4.00)

← MATH 261 - Calculus I (5.00)

MATH 2B - Single-Variable Calculus (4.00)

← MATH 262 - Calculus II (5.00)

One additional approved transferable course for the major (an approved Math, Science, or CSE course):

- Please refer to additional important General Information section above

← No Course Articulated

ONE ADDITIONAL APPROVED TRANSFERABLE COURSE FOR THE MAJOR (MATH OR CS COURSE)

REFER TO TOP OF AGREEMENT

MATH 3A - Introduction to Linear Algebra (4.00)

← MATH 270 - Linear Algebra (3.00)

--- Or ---

I&C SCI 6N - Computational Linear Algebra (4.00)

← No Course Articulated

I&C SCI 6B - Boolean Logic and Discrete Structures (4.00) ← No Course Articulated

I&C SCI 6D - Discrete Mathematics for Computer Science (4.00) ← No Course Articulated

I&C SCI 45C - Programming in C/C++ as a Second Language (4.00) ← No Course Articulated

I&C SCI 46 - Data Structure Implementation and Analysis (4.00) ← No Course Articulated

I&C SCI 51 - Introductory Computer Organization (6.00) ← No Course Articulated

I&C SCI 53 - Principles in System Design (4.00) ← No Course Articulated

IN4MATX 43 - Introduction to Software Engineering (4.00) ← No Course Articulated

STATS 67 - Introduction to Probability and Statistics for Computer Science (4.00) ← No Course Articulated

Two courses approved for General Education Category II except those related to computing/engineering, economics, or mathematics ← No Course Articulated

END OF AGREEMENT

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: Madera Community College
2022-2023 General Catalog, Semester

Computer Science, B.S.

GENERAL INFORMATION

Admission to the Donald Bren School of Information and Computer Science is highly competitive. The most important selection criteria are completion of the required preparatory courses and academic performance. *This major does not participate in the TAG program.*

Required for admission:

Students must have a cumulative GPA of 3.0 and grade of B or higher in all required courses below:

- One year of computer programming courses* in a single object-language (Python, Java, or C++). Object-oriented programming language courses that do not directly articulate to I&C SCI 31-33 can be used to satisfy the admissions requirements. Introduction to computer science courses do not meet this requirement.
- Two semesters/two quarters of approved first-year Calculus
- One additional approved transferable course for the major (an approved math or CS course - see below)

Additional Approved Courses:

- One course in advanced data structures
- One course in machine organization and assembly language (both topics must be covered)
- One course in software engineering
- One course in discrete mathematics
- One course in Boolean algebra
- One course in linear algebra

***NOTE:** Additional computer science courses beyond the two required are strongly recommended, particularly those that align with the major of interest. Our first year of object-oriented programming is taught in Python. C++ and Java are used extensively in the curriculum; therefore, transfer students should plan to learn it by studying on their own or by completing related programming courses prior to their first quarter at UCI.

Additional courses beyond those required for admission must be taken to fulfill the lower-division degree requirements, as many are prerequisites for upper-division courses. For some transfer students, this may mean that it will take longer than two years to complete their degree.

Students should have I&C SCI 31-33 credit first in order to move further into the program here at UCI.

In fulfillment of the requirements below, a single course may be used only once.

For information regarding the [AP and IB examination](#) credit policies refer to the UCI General Catalogue.

MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER

I&C SCI 31 - Introduction to Programming (4.00)

--- And ---

I&C SCI 32 - Programming with Software Libraries (4.00)

--- And ---

I&C SCI 33 - Intermediate Programming (4.00)

- Please refer to additional important General Information section above

CSCI 40 - Programming Concepts and Methodology I (4.00)

--- And ---

CSCI 41 - Programming Concepts and Methodology II (4.00)

MATH 2A - Single-Variable Calculus (4.00)

← **MATH 5A** - Math Analysis I (5.00)

MATH 2B - Single-Variable Calculus (4.00)

← **MATH 5B** - Math Analysis II (4.00)

One additional approved transferable course for the major (an approved Math, Science, or CSE course):

← No Course Articulated

- Please refer to additional important General Information section above

ONE ADDITIONAL APPROVED TRANSFERABLE COURSE FOR THE MAJOR (MATH OR CS COURSE)

REFER TO TOP OF AGREEMENT

MATH 3A - Introduction to Linear Algebra (4.00)

← **MATH 17** - Differential Equations and Linear Algebra (5.00)

--- Or ---

I&C SCI 6N - Computational Linear Algebra (4.00)

← No Course Articulated

I&C SCI 6B - Boolean Logic and Discrete Structures (4.00) ← No Course Articulated

I&C SCI 6D - Discrete Mathematics for Computer Science (4.00) ← No Course Articulated

I&C SCI 45C - Programming in C/C++ as a Second Language (4.00) ← No Course Articulated

I&C SCI 46 - Data Structure Implementation and Analysis (4.00) ← No Course Articulated

I&C SCI 51 - Introductory Computer Organization (6.00) ← No Course Articulated

I&C SCI 53 - Principles in System Design (4.00) ← No Course Articulated

IN4MATX 43 - Introduction to Software Engineering (4.00) ← No Course Articulated

STATS 67 - Introduction to Probability and Statistics for Computer Science (4.00) ← No Course Articulated

Two courses approved for General Education Category II except those related to computing/engineering, economics, or mathematics ← No Course Articulated

END OF AGREEMENT

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: Yuba College
2022-2023 General Catalog, Semester

Computer Science, B.S.

GENERAL INFORMATION

Admission to the Donald Bren School of Information and Computer Science is highly competitive. The most important selection criteria are completion of the required preparatory courses and academic performance. *This major does not participate in the TAG program.*

Required for admission:

Students must have a cumulative GPA of 3.0 and grade of B or higher in all required courses below:

- One year of computer programming courses* in a single object-language (Python, Java, or C++). Object-oriented programming language courses that do not directly articulate to I&C SCI 31-33 can be used to satisfy the admissions requirements. Introduction to computer science courses do not meet this requirement.
- Two semesters/two quarters of approved first-year Calculus
- One additional approved transferable course for the major (an approved math or CS course - see below)

Additional Approved Courses:

- One course in advanced data structures
- One course in machine organization and assembly language (both topics must be covered)
- One course in software engineering
- One course in discrete mathematics
- One course in Boolean algebra
- One course in linear algebra

***NOTE:** Additional computer science courses beyond the two required are strongly recommended, particularly those that align with the major of interest. Our first year of object-oriented programming is taught in Python. C++ and Java are used extensively in the curriculum; therefore, transfer students should plan to learn it by studying on their own or by completing related programming courses prior to their first quarter at UCI.

Additional courses beyond those required for admission must be taken to fulfill the lower-division degree requirements, as many are prerequisites for upper-division courses. For some transfer students, this may mean that it will take longer than two years to complete their degree.

Students should have I&C SCI 31-33 credit first in order to move further into the program here at UCI.

In fulfillment of the requirements below, a single course may be used only once.

For information regarding the [AP and IB examination](#) credit policies refer to the UCI General Catalogue.

MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER

I&C SCI 31 - Introduction to Programming (4.00)

--- And ---

I&C SCI 32 - Programming with Software Libraries (4.00)

--- And ---

I&C SCI 33 - Intermediate Programming (4.00)

- Please refer to additional important General Information section above

← No Course Articulated

MATH 2A - Single-Variable Calculus (4.00)

← **MATH 1A** - Single Variable Calculus I - Early Transcendentals (4.00)

MATH 2B - Single-Variable Calculus (4.00)

← **MATH 1B** - Single Variable Calculus II - Early Transcendentals (4.00)

One additional approved transferable course for the major (an approved Math, Science, or CSE course):

- Please refer to additional important General Information section above

← No Course Articulated

ONE ADDITIONAL APPROVED TRANSFERABLE COURSE FOR THE MAJOR (MATH OR CS COURSE)

REFER TO TOP OF AGREEMENT

MATH 3A - Introduction to Linear Algebra (4.00)

← **MATH 3** - Linear Algebra (3.00)

--- Or ---

I&C SCI 6N - Computational Linear Algebra (4.00)

← No Course Articulated

I&C SCI 6B - Boolean Logic and Discrete Structures (4.00) ← No Course Articulated

I&C SCI 6D - Discrete Mathematics for Computer Science (4.00) ← No Course Articulated

I&C SCI 45C - Programming in C/C++ as a Second Language (4.00) ← No Course Articulated

I&C SCI 46 - Data Structure Implementation and Analysis (4.00) ← No Course Articulated

I&C SCI 51 - Introductory Computer Organization (6.00) ← No Course Articulated

I&C SCI 53 - Principles in System Design (4.00) ← No Course Articulated

IN4MATX 43 - Introduction to Software Engineering (4.00) ← No Course Articulated

STATS 67 - Introduction to Probability and Statistics for Computer Science (4.00) ← No Course Articulated

Two courses approved for General Education Category II except those related to computing/engineering, economics, or mathematics ← No Course Articulated

END OF AGREEMENT

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: Lassen Community College
2022-2023 General Catalog, Semester

Computer Science, B.S.

GENERAL INFORMATION

Admission to the Donald Bren School of Information and Computer Science is highly competitive. The most important selection criteria are completion of the required preparatory courses and academic performance. *This major does not participate in the TAG program.*

Required for admission:

Students must have a cumulative GPA of 3.0 and grade of B or higher in all required courses below:

- One year of computer programming courses* in a single object-language (Python, Java, or C++). Object-oriented programming language courses that do not directly articulate to I&C SCI 31-33 can be used to satisfy the admissions requirements. Introduction to computer science courses do not meet this requirement.
- Two semesters/two quarters of approved first-year Calculus
- One additional approved transferable course for the major (an approved math or CS course - see below)

Additional Approved Courses:

- One course in advanced data structures
- One course in machine organization and assembly language (both topics must be covered)
- One course in software engineering
- One course in discrete mathematics
- One course in Boolean algebra
- One course in linear algebra

***NOTE:** Additional computer science courses beyond the two required are strongly recommended, particularly those that align with the major of interest. Our first year of object-oriented programming is taught in Python. C++ and Java are used extensively in the curriculum; therefore, transfer students should plan to learn it by studying on their own or by completing related programming courses prior to their first quarter at UCI.

Additional courses beyond those required for admission must be taken to fulfill the lower-division degree requirements, as many are prerequisites for upper-division courses. For some transfer students, this may mean that it will take longer than two years to complete their degree.

Students should have I&C SCI 31-33 credit first in order to move further into the program here at UCI.

In fulfillment of the requirements below, a single course may be used only once.

For information regarding the [AP and IB examination](#) credit policies refer to the UCI General Catalogue.

MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER

I&C SCI 31 - Introduction to Programming (4.00)

--- And ---

I&C SCI 32 - Programming with Software Libraries (4.00)

--- And ---

I&C SCI 33 - Intermediate Programming (4.00)

- Please refer to additional important General Information section above

← No Course Articulated

MATH 2A - Single-Variable Calculus (4.00)

← **MATH 1A** - Analytic Geometry and Calculus I (5.00)

MATH 2B - Single-Variable Calculus (4.00)

← **MATH 1B** - Analytic Geometry and Calculus II (5.00)

One additional approved transferable course for the major (an approved Math, Science, or CSE course):

- Please refer to additional important General Information section above

← No Course Articulated

ONE ADDITIONAL APPROVED TRANSFERABLE COURSE FOR THE MAJOR (MATH OR CS COURSE)

REFER TO TOP OF AGREEMENT

MATH 3A - Introduction to Linear Algebra (4.00)

← No Course Articulated

--- Or ---

I&C SCI 6N - Computational Linear Algebra (4.00)

← No Course Articulated

I&C SCI 6B - Boolean Logic and Discrete Structures (4.00) ← No Course Articulated

I&C SCI 6D - Discrete Mathematics for Computer Science (4.00) ← No Course Articulated

I&C SCI 45C - Programming in C/C++ as a Second Language (4.00) ← No Course Articulated

I&C SCI 46 - Data Structure Implementation and Analysis (4.00) ← No Course Articulated

I&C SCI 51 - Introductory Computer Organization (6.00) ← No Course Articulated

I&C SCI 53 - Principles in System Design (4.00) ← No Course Articulated

IN4MATX 43 - Introduction to Software Engineering (4.00) ← No Course Articulated

STATS 67 - Introduction to Probability and Statistics for Computer Science (4.00) ← No Course Articulated

Two courses approved for General Education Category II except those related to computing/engineering, economics, or mathematics ← No Course Articulated

END OF AGREEMENT

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: Los Angeles City College
2022-2023 General Catalog, Semester

Computer Science, B.S.

GENERAL INFORMATION

Admission to the Donald Bren School of Information and Computer Science is highly competitive. The most important selection criteria are completion of the required preparatory courses and academic performance. *This major does not participate in the TAG program.*

Required for admission:

Students must have a cumulative GPA of 3.0 and grade of B or higher in all required courses below:

- One year of computer programming courses* in a single object-language (Python, Java, or C++). Object-oriented programming language courses that do not directly articulate to I&C SCI 31-33 can be used to satisfy the admissions requirements. Introduction to computer science courses do not meet this requirement.
- Two semesters/two quarters of approved first-year Calculus
- One additional approved transferable course for the major (an approved math or CS course - see below)

Additional Approved Courses:

- One course in advanced data structures
- One course in machine organization and assembly language (both topics must be covered)
- One course in software engineering
- One course in discrete mathematics
- One course in Boolean algebra
- One course in linear algebra

***NOTE:** Additional computer science courses beyond the two required are strongly recommended, particularly those that align with the major of interest. Our first year of object-oriented programming is taught in Python. C++ and Java are used extensively in the curriculum; therefore, transfer students should plan to learn it by studying on their own or by completing related programming courses prior to their first quarter at UCI.

Additional courses beyond those required for admission must be taken to fulfill the lower-division degree requirements, as many are prerequisites for upper-division courses. For some transfer students, this may mean that it will take longer than two years to complete their degree.

Students should have I&C SCI 31-33 credit first in order to move further into the program here at UCI.

In fulfillment of the requirements below, a single course may be used only once.

For information regarding the [AP and IB examination](#) credit policies refer to the UCI General Catalogue.

MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER

I&C SCI 31 - Introduction to Programming (4.00)

--- And ---

I&C SCI 32 - Programming with Software Libraries (4.00)

--- And ---

I&C SCI 33 - Intermediate Programming (4.00)

- Please refer to additional important General Information section above

CS 113 - Programming in JAVA (3.00)

--- And ---

CS 213 - Advanced Programming in JAVA (3.00)

MATH 2A - Single-Variable Calculus (4.00)

← MATH 261 - Calculus I (5.00)

MATH 2B - Single-Variable Calculus (4.00)

← MATH 262 - Calculus II (5.00)

One additional approved transferable course for the major (an approved Math, Science, or CSE course):

← No Course Articulated

- Please refer to additional important General Information section above

ONE ADDITIONAL APPROVED TRANSFERABLE COURSE FOR THE MAJOR (MATH OR CS COURSE)

REFER TO TOP OF AGREEMENT

MATH 3A - Introduction to Linear Algebra (4.00)

← MATH 270 - Linear Algebra (3.00)

--- Or ---

I&C SCI 6N - Computational Linear Algebra (4.00)

← No Course Articulated

I&C SCI 6B - Boolean Logic and Discrete Structures (4.00)

← No Course Articulated

I&C SCI 6D - Discrete Mathematics for Computer Science (4.00)

← **MATH 272** - Methods of Discrete Mathematics (5.00)

I&C SCI 45C - Programming in C/C++ as a Second Language (4.00)

← No Course Articulated

I&C SCI 46 - Data Structure Implementation and Analysis (4.00)

← No Course Articulated

I&C SCI 51 - Introductory Computer Organization (6.00)

← No Course Articulated

I&C SCI 53 - Principles in System Design (4.00)

← No Course Articulated

IN4MATX 43 - Introduction to Software Engineering (4.00)

← No Course Articulated

STATS 67 - Introduction to Probability and Statistics for Computer Science (4.00)

← No Course Articulated

Two courses approved for General Education Category II except those related to computing/engineering, economics, or mathematics ← No Course Articulated

END OF AGREEMENT

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: West Valley College
2022-2023 General Catalog, Semester

Computer Science, B.S.

GENERAL INFORMATION

Admission to the Donald Bren School of Information and Computer Science is highly competitive. The most important selection criteria are completion of the required preparatory courses and academic performance. *This major does not participate in the TAG program.*

Required for admission:

Students must have a cumulative GPA of 3.0 and grade of B or higher in all required courses below:

- One year of computer programming courses* in a single object-language (Python, Java, or C++). Object-oriented programming language courses that do not directly articulate to I&C SCI 31-33 can be used to satisfy the admissions requirements. Introduction to computer science courses do not meet this requirement.
- Two semesters/two quarters of approved first-year Calculus
- One additional approved transferable course for the major (an approved math or CS course - see below)

Additional Approved Courses:

- One course in advanced data structures
- One course in machine organization and assembly language (both topics must be covered)
- One course in software engineering
- One course in discrete mathematics
- One course in Boolean algebra
- One course in linear algebra

***NOTE:** Additional computer science courses beyond the two required are strongly recommended, particularly those that align with the major of interest. Our first year of object-oriented programming is taught in Python. C++ and Java are used extensively in the curriculum; therefore, transfer students should plan to learn it by studying on their own or by completing related programming courses prior to their first quarter at UCI.

Additional courses beyond those required for admission must be taken to fulfill the lower-division degree requirements, as many are prerequisites for upper-division courses. For some transfer students, this may mean that it will take longer than two years to complete their degree.

Students should have I&C SCI 31-33 credit first in order to move further into the program here at UCI.

In fulfillment of the requirements below, a single course may be used only once.

For information regarding the [AP and IB examination](#) credit policies refer to the UCI General Catalogue.

MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER

I&C SCI 31 - Introduction to Programming (4.00)

--- And ---

I&C SCI 32 - Programming with Software Libraries (4.00)

--- And ---

I&C SCI 33 - Intermediate Programming (4.00)

- Please refer to additional important General Information section above

CIST 005A - Introduction to Python (4.00)

--- And ---

CIST 005B - Advanced Python (4.00)

MATH 2A - Single-Variable Calculus (4.00)



MATH 003A - Calculus and Analytic Geometry (5.00)

--- Or ---

MATH 003AH - Honors Calculus & Analytical Geometry (5.00)

MATH 2B - Single-Variable Calculus (4.00)



MATH 003B - Calculus and Analytic Geometry (5.00)

--- Or ---

MATH 003BH - Honors Calculus & Analytical Geometry (5.00)

One additional approved transferable course for the major (an approved Math, Science, or CSE course):

- Please refer to additional important General Information section above

← No Course Articulated

ONE ADDITIONAL APPROVED TRANSFERABLE COURSE FOR THE MAJOR (MATH OR CS COURSE)

REFER TO TOP OF AGREEMENT

MATH 3A - Introduction to Linear Algebra (4.00)	← MATH 004C - Linear Algebra (4.00)
--- Or ---	
I&C SCI 6N - Computational Linear Algebra (4.00)	← No Course Articulated
I&C SCI 6B - Boolean Logic and Discrete Structures (4.00)	← No Course Articulated
I&C SCI 6D - Discrete Mathematics for Computer Science (4.00)	← MATH 019 - Discrete Mathematics (4.00)
I&C SCI 45C - Programming in C/C++ as a Second Language (4.00)	←
	CIST 004A - Computer Programming I (C++) (4.00) --- And --- CIST 004B - Computer Programming II (C++) (4.00)
I&C SCI 46 - Data Structure Implementation and Analysis (4.00)	←
	CIST 004A - Computer Programming I (C++) (4.00) --- And --- CIST 004B - Computer Programming II (C++) (4.00)
I&C SCI 51 - Introductory Computer Organization (6.00)	← No Course Articulated
I&C SCI 53 - Principles in System Design (4.00)	← No Course Articulated
IN4MATX 43 - Introduction to Software Engineering (4.00)	← No Course Articulated
STATS 67 - Introduction to Probability and Statistics for Computer Science (4.00)	← No Course Articulated
Two courses approved for General Education Category II except those related to computing/engineering, economics, or mathematics	← No Course Articulated

END OF AGREEMENT

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: Santa Barbara City College
2022-2023 General Catalog, Semester

Computer Science, B.S.

GENERAL INFORMATION

Admission to the Donald Bren School of Information and Computer Science is highly competitive. The most important selection criteria are completion of the required preparatory courses and academic performance. *This major does not participate in the TAG program.*

Required for admission:

Students must have a cumulative GPA of 3.0 and grade of B or higher in all required courses below:

- One year of computer programming courses* in a single object-language (Python, Java, or C++). Object-oriented programming language courses that do not directly articulate to I&C SCI 31-33 can be used to satisfy the admissions requirements. Introduction to computer science courses do not meet this requirement.
- Two semesters/two quarters of approved first-year Calculus
- One additional approved transferable course for the major (an approved math or CS course - see below)

Additional Approved Courses:

- One course in advanced data structures
- One course in machine organization and assembly language (both topics must be covered)
- One course in software engineering
- One course in discrete mathematics
- One course in Boolean algebra
- One course in linear algebra

***NOTE:** Additional computer science courses beyond the two required are strongly recommended, particularly those that align with the major of interest. Our first year of object-oriented programming is taught in Python. C++ and Java are used extensively in the curriculum; therefore, transfer students should plan to learn it by studying on their own or by completing related programming courses prior to their first quarter at UCI.

Additional courses beyond those required for admission must be taken to fulfill the lower-division degree requirements, as many are prerequisites for upper-division courses. For some transfer students, this may mean that it will take longer than two years to complete their degree.

Students should have I&C SCI 31-33 credit first in order to move further into the program here at UCI.

In fulfillment of the requirements below, a single course may be used only once.

For information regarding the [AP and IB examination](#) credit policies refer to the UCI General Catalogue.

MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER

I&C SCI 31 - Introduction to Programming (4.00)

--- And ---

I&C SCI 32 - Programming with Software Libraries (4.00)

--- And ---

I&C SCI 33 - Intermediate Programming (4.00)

- Please refer to additional important General Information section above

CS 104 - Introduction to Programming (3.00)

--- And ---

CS 114 - Intermediate Python (3.00)

--- And ---

CS 140 - Object-Oriented Programming Using C++ (4.00)

MATH 2A - Single-Variable Calculus (4.00)

← MATH 150 - Calculus with Analytic Geometry I (5.00)

--- Or ---

MATH 130 - Calculus for Biological Sciences, Social Sciences and Business I (5.00)

MATH 2B - Single-Variable Calculus (4.00)

← MATH 160 - Calculus with Analytic Geometry II (5.00)

One additional approved transferable course for the major (an approved Math, Science, or CSE course):

← No Course Articulated

- Please refer to additional important General Information section above

ONE ADDITIONAL APPROVED TRANSFERABLE COURSE FOR THE MAJOR (MATH OR CS COURSE)

REFER TO TOP OF AGREEMENT

MATH 3A - Introduction to Linear Algebra (4.00)	← MATH 210 - Linear Algebra (4.00)
--- Or ---	
I&C SCI 6N - Computational Linear Algebra (4.00)	← No Course Articulated
I&C SCI 6B - Boolean Logic and Discrete Structures (4.00)	← No Course Articulated
I&C SCI 6D - Discrete Mathematics for Computer Science (4.00)	← CS 108 - Discrete Structures (4.00)
I&C SCI 45C - Programming in C/C++ as a Second Language (4.00)	←
	CS 104 - Introduction to Programming (3.00)
	--- And ---
	CS 114 - Intermediate Python (3.00)
	--- And ---
	CS 140 - Object-Oriented Programming Using C++ (4.00)
I&C SCI 46 - Data Structure Implementation and Analysis (4.00)	← No Course Articulated
I&C SCI 51 - Introductory Computer Organization (6.00)	← No Course Articulated
I&C SCI 53 - Principles in System Design (4.00)	← No Course Articulated
IN4MATX 43 - Introduction to Software Engineering (4.00)	← No Course Articulated
STATS 67 - Introduction to Probability and Statistics for Computer Science (4.00)	← No Course Articulated
Two courses approved for General Education Category II except those related to computing/engineering, economics, or mathematics	← No Course Articulated

END OF AGREEMENT

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: West Hills College Lemoore
2022-2023 General Catalog, Semester

Computer Science, B.S.

GENERAL INFORMATION

Admission to the Donald Bren School of Information and Computer Science is highly competitive. The most important selection criteria are completion of the required preparatory courses and academic performance. *This major does not participate in the TAG program.*

Required for admission:

Students must have a cumulative GPA of 3.0 and grade of B or higher in all required courses below:

- One year of computer programming courses* in a single object-language (Python, Java, or C++). Object-oriented programming language courses that do not directly articulate to I&C SCI 31-33 can be used to satisfy the admissions requirements. Introduction to computer science courses do not meet this requirement.
- Two semesters/two quarters of approved first-year Calculus
- One additional approved transferable course for the major (an approved math or CS course - see below)

Additional Approved Courses:

- One course in advanced data structures
- One course in machine organization and assembly language (both topics must be covered)
- One course in software engineering
- One course in discrete mathematics
- One course in Boolean algebra
- One course in linear algebra

***NOTE:** Additional computer science courses beyond the two required are strongly recommended, particularly those that align with the major of interest. Our first year of object-oriented programming is taught in Python. C++ and Java are used extensively in the curriculum; therefore, transfer students should plan to learn it by studying on their own or by completing related programming courses prior to their first quarter at UCI.

Additional courses beyond those required for admission must be taken to fulfill the lower-division degree requirements, as many are prerequisites for upper-division courses. For some transfer students, this may mean that it will take longer than two years to complete their degree.

Students should have I&C SCI 31-33 credit first in order to move further into the program here at UCI.

In fulfillment of the requirements below, a single course may be used only once.

For information regarding the [AP and IB examination](#) credit policies refer to the UCI General Catalogue.

MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER

I&C SCI 31 - Introduction to Programming (4.00)

--- And ---

I&C SCI 32 - Programming with Software Libraries (4.00)

--- And ---

I&C SCI 33 - Intermediate Programming (4.00)

- Please refer to additional important General Information section above

← No Course Articulated

MATH 2A - Single-Variable Calculus (4.00)

← MATH 001A - Introduction to Calculus (5.00)

MATH 2B - Single-Variable Calculus (4.00)

← MATH 001B - Calculus with Applications (5.00)

One additional approved transferable course for the major (an approved Math, Science, or CSE course):

- Please refer to additional important General Information section above

← No Course Articulated

ONE ADDITIONAL APPROVED TRANSFERABLE COURSE FOR THE MAJOR (MATH OR CS COURSE)

REFER TO TOP OF AGREEMENT

MATH 3A - Introduction to Linear Algebra (4.00)

← MATH 003A - Linear Algebra I (4.00)

--- Or ---

I&C SCI 6N - Computational Linear Algebra (4.00)

← No Course Articulated

I&C SCI 6B - Boolean Logic and Discrete Structures (4.00) ← No Course Articulated

I&C SCI 6D - Discrete Mathematics for Computer Science (4.00) ← No Course Articulated

I&C SCI 45C - Programming in C/C++ as a Second Language (4.00) ← No Course Articulated

I&C SCI 46 - Data Structure Implementation and Analysis (4.00) ← No Course Articulated

I&C SCI 51 - Introductory Computer Organization (6.00) ← No Course Articulated

I&C SCI 53 - Principles in System Design (4.00) ← No Course Articulated

IN4MATX 43 - Introduction to Software Engineering (4.00) ← No Course Articulated

STATS 67 - Introduction to Probability and Statistics for Computer Science (4.00) ← No Course Articulated

Two courses approved for General Education Category II except those related to computing/engineering, economics, or mathematics ← No Course Articulated

END OF AGREEMENT

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: Porterville College
2022-2023 General Catalog, Semester

Computer Science, B.S.

GENERAL INFORMATION

Admission to the Donald Bren School of Information and Computer Science is highly competitive. The most important selection criteria are completion of the required preparatory courses and academic performance. *This major does not participate in the TAG program.*

Required for admission:

Students must have a cumulative GPA of 3.0 and grade of B or higher in all required courses below:

- One year of computer programming courses* in a single object-language (Python, Java, or C++). Object-oriented programming language courses that do not directly articulate to I&C SCI 31-33 can be used to satisfy the admissions requirements. Introduction to computer science courses do not meet this requirement.
- Two semesters/two quarters of approved first-year Calculus
- One additional approved transferable course for the major (an approved math or CS course - see below)

Additional Approved Courses:

- One course in advanced data structures
- One course in machine organization and assembly language (both topics must be covered)
- One course in software engineering
- One course in discrete mathematics
- One course in Boolean algebra
- One course in linear algebra

***NOTE:** Additional computer science courses beyond the two required are strongly recommended, particularly those that align with the major of interest. Our first year of object-oriented programming is taught in Python. C++ and Java are used extensively in the curriculum; therefore, transfer students should plan to learn it by studying on their own or by completing related programming courses prior to their first quarter at UCI.

Additional courses beyond those required for admission must be taken to fulfill the lower-division degree requirements, as many are prerequisites for upper-division courses. For some transfer students, this may mean that it will take longer than two years to complete their degree.

Students should have I&C SCI 31-33 credit first in order to move further into the program here at UCI.

In fulfillment of the requirements below, a single course may be used only once.

For information regarding the [AP and IB examination](#) credit policies refer to the UCI General Catalogue.

MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER

I&C SCI 31 - Introduction to Programming (4.00)

--- And ---

I&C SCI 32 - Programming with Software Libraries (4.00)

--- And ---

I&C SCI 33 - Intermediate Programming (4.00)

- Please refer to additional important General Information section above

← No Course Articulated

MATH 2A - Single-Variable Calculus (4.00)

← **MATH P103** - Calculus I with Analytic Geometry (4.00)

MATH 2B - Single-Variable Calculus (4.00)

← **MATH P104** - Calculus II with Analytical Geometry (4.00)

One additional approved transferable course for the major (an approved Math, Science, or CSE course):

- Please refer to additional important General Information section above

← No Course Articulated

ONE ADDITIONAL APPROVED TRANSFERABLE COURSE FOR THE MAJOR (MATH OR CS COURSE)

REFER TO TOP OF AGREEMENT

MATH 3A - Introduction to Linear Algebra (4.00)

← **MATH P206** - Differential Equations and Linear Algebra (5.00)

--- Or ---

MATH P208 - Introduction to Linear Algebra (4.00)

--- Or ---

I&C SCI 6N - Computational Linear Algebra (4.00)

← No Course Articulated

I&C SCI 6B - Boolean Logic and Discrete Structures (4.00)

← No Course Articulated

I&C SCI 6D - Discrete Mathematics for Computer Science (4.00)

← No Course Articulated

I&C SCI 45C - Programming in C/C++ as a Second Language (4.00)

← No Course Articulated

I&C SCI 46 - Data Structure Implementation and Analysis (4.00)

← No Course Articulated

I&C SCI 51 - Introductory Computer Organization (6.00)

← No Course Articulated

I&C SCI 53 - Principles in System Design (4.00)

← No Course Articulated

IN4MATX 43 - Introduction to Software Engineering (4.00)

← No Course Articulated

STATS 67 - Introduction to Probability and Statistics for Computer Science (4.00)

← No Course Articulated

Two courses approved for General Education Category II except those related to computing/engineering, economics, or mathematics ← No Course Articulated

END OF AGREEMENT

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: Los Medanos College
2022-2023 General Catalog, Semester

Computer Science, B.S.

GENERAL INFORMATION

Admission to the Donald Bren School of Information and Computer Science is highly competitive. The most important selection criteria are completion of the required preparatory courses and academic performance. *This major does not participate in the TAG program.*

Required for admission:

Students must have a cumulative GPA of 3.0 and grade of B or higher in all required courses below:

- One year of computer programming courses* in a single object-language (Python, Java, or C++). Object-oriented programming language courses that do not directly articulate to I&C SCI 31-33 can be used to satisfy the admissions requirements. Introduction to computer science courses do not meet this requirement.
- Two semesters/two quarters of approved first-year Calculus
- One additional approved transferable course for the major (an approved math or CS course - see below)

Additional Approved Courses:

- One course in advanced data structures
- One course in machine organization and assembly language (both topics must be covered)
- One course in software engineering
- One course in discrete mathematics
- One course in Boolean algebra
- One course in linear algebra

***NOTE:** Additional computer science courses beyond the two required are strongly recommended, particularly those that align with the major of interest. Our first year of object-oriented programming is taught in Python. C++ and Java are used extensively in the curriculum; therefore, transfer students should plan to learn it by studying on their own or by completing related programming courses prior to their first quarter at UCI.

Additional courses beyond those required for admission must be taken to fulfill the lower-division degree requirements, as many are prerequisites for upper-division courses. For some transfer students, this may mean that it will take longer than two years to complete their degree.

Students should have I&C SCI 31-33 credit first in order to move further into the program here at UCI.

In fulfillment of the requirements below, a single course may be used only once.

For information regarding the [AP and IB examination](#) credit policies refer to the UCI General Catalogue.

MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER

I&C SCI 31 - Introduction to Programming (4.00)

--- And ---

I&C SCI 32 - Programming with Software Libraries (4.00)

--- And ---

I&C SCI 33 - Intermediate Programming (4.00)

- Please refer to additional important General Information section above

← No Course Articulated

MATH 2A - Single-Variable Calculus (4.00)

← **MATH 210** - Calculus and Analytic Geometry I (4.00)

MATH 2B - Single-Variable Calculus (4.00)

← **MATH 220** - Calculus and Analytic Geometry II (4.00)

One additional approved transferable course for the major (an approved Math, Science, or CSE course):

- Please refer to additional important General Information section above

← No Course Articulated

ONE ADDITIONAL APPROVED TRANSFERABLE COURSE FOR THE MAJOR (MATH OR CS COURSE)

REFER TO TOP OF AGREEMENT

MATH 3A - Introduction to Linear Algebra (4.00)

← **MATH 250** - Linear Algebra (3.00)

--- Or ---

I&C SCI 6N - Computational Linear Algebra (4.00)

← No Course Articulated

I&C SCI 6B - Boolean Logic and Discrete Structures (4.00) ← No Course Articulated

I&C SCI 6D - Discrete Mathematics for Computer Science (4.00) ← No Course Articulated

I&C SCI 45C - Programming in C/C++ as a Second Language (4.00) ← No Course Articulated

I&C SCI 46 - Data Structure Implementation and Analysis (4.00) ← No Course Articulated

I&C SCI 51 - Introductory Computer Organization (6.00) ← No Course Articulated

I&C SCI 53 - Principles in System Design (4.00) ← No Course Articulated

IN4MATX 43 - Introduction to Software Engineering (4.00) ← No Course Articulated

STATS 67 - Introduction to Probability and Statistics for Computer Science (4.00) ← No Course Articulated

Two courses approved for General Education Category II except those related to computing/engineering, economics, or mathematics ← No Course Articulated

END OF AGREEMENT

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: Columbia College
2022-2023 General Catalog, Semester

Computer Science, B.S.

GENERAL INFORMATION

Admission to the Donald Bren School of Information and Computer Science is highly competitive. The most important selection criteria are completion of the required preparatory courses and academic performance. *This major does not participate in the TAG program.*

Required for admission:

Students must have a cumulative GPA of 3.0 and grade of B or higher in all required courses below:

- One year of computer programming courses* in a single object-language (Python, Java, or C++). Object-oriented programming language courses that do not directly articulate to I&C SCI 31-33 can be used to satisfy the admissions requirements. Introduction to computer science courses do not meet this requirement.
- Two semesters/two quarters of approved first-year Calculus
- One additional approved transferable course for the major (an approved math or CS course - see below)

Additional Approved Courses:

- One course in advanced data structures
- One course in machine organization and assembly language (both topics must be covered)
- One course in software engineering
- One course in discrete mathematics
- One course in Boolean algebra
- One course in linear algebra

***NOTE:** Additional computer science courses beyond the two required are strongly recommended, particularly those that align with the major of interest. Our first year of object-oriented programming is taught in Python. C++ and Java are used extensively in the curriculum; therefore, transfer students should plan to learn it by studying on their own or by completing related programming courses prior to their first quarter at UCI.

Additional courses beyond those required for admission must be taken to fulfill the lower-division degree requirements, as many are prerequisites for upper-division courses. For some transfer students, this may mean that it will take longer than two years to complete their degree.

Students should have I&C SCI 31-33 credit first in order to move further into the program here at UCI.

In fulfillment of the requirements below, a single course may be used only once.

For information regarding the [AP and IB examination](#) credit policies refer to the UCI General Catalogue.

MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER

I&C SCI 31 - Introduction to Programming (4.00)

--- And ---

I&C SCI 32 - Programming with Software Libraries (4.00)

--- And ---

I&C SCI 33 - Intermediate Programming (4.00)

- Please refer to additional important General Information section above

← No Course Articulated

MATH 2A - Single-Variable Calculus (4.00)

← MATH 18A - Calculus I (5.00)

MATH 2B - Single-Variable Calculus (4.00)

← MATH 18B - Calculus II (5.00)

One additional approved transferable course for the major (an approved Math, Science, or CSE course):

- Please refer to additional important General Information section above

← No Course Articulated

ONE ADDITIONAL APPROVED TRANSFERABLE COURSE FOR THE MAJOR (MATH OR CS COURSE)

REFER TO TOP OF AGREEMENT

MATH 3A - Introduction to Linear Algebra (4.00)

← MATH 26 - Linear Algebra (3.00)

--- Or ---

I&C SCI 6N - Computational Linear Algebra (4.00)

← No Course Articulated

I&C SCI 6B - Boolean Logic and Discrete Structures (4.00) ← No Course Articulated

I&C SCI 6D - Discrete Mathematics for Computer Science (4.00) ← No Course Articulated

I&C SCI 45C - Programming in C/C++ as a Second Language (4.00) ← No Course Articulated

I&C SCI 46 - Data Structure Implementation and Analysis (4.00) ← No Course Articulated

I&C SCI 51 - Introductory Computer Organization (6.00) ← No Course Articulated

I&C SCI 53 - Principles in System Design (4.00) ← No Course Articulated

IN4MATX 43 - Introduction to Software Engineering (4.00) ← No Course Articulated

STATS 67 - Introduction to Probability and Statistics for Computer Science (4.00) ← No Course Articulated

Two courses approved for General Education Category II except those related to computing/engineering, economics, or mathematics ← No Course Articulated

END OF AGREEMENT

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: Santa Monica College
2022-2023 General Catalog, Semester

Computer Science, B.S.

GENERAL INFORMATION

Admission to the Donald Bren School of Information and Computer Science is highly competitive. The most important selection criteria are completion of the required preparatory courses and academic performance. *This major does not participate in the TAG program.*

Required for admission:

Students must have a cumulative GPA of 3.0 and grade of B or higher in all required courses below:

- One year of computer programming courses* in a single object-language (Python, Java, or C++). Object-oriented programming language courses that do not directly articulate to I&C SCI 31-33 can be used to satisfy the admissions requirements. Introduction to computer science courses do not meet this requirement.
- Two semesters/two quarters of approved first-year Calculus
- One additional approved transferable course for the major (an approved math or CS course - see below)

Additional Approved Courses:

- One course in advanced data structures
- One course in machine organization and assembly language (both topics must be covered)
- One course in software engineering
- One course in discrete mathematics
- One course in Boolean algebra
- One course in linear algebra

***NOTE:** Additional computer science courses beyond the two required are strongly recommended, particularly those that align with the major of interest. Our first year of object-oriented programming is taught in Python. C++ and Java are used extensively in the curriculum; therefore, transfer students should plan to learn it by studying on their own or by completing related programming courses prior to their first quarter at UCI.

Additional courses beyond those required for admission must be taken to fulfill the lower-division degree requirements, as many are prerequisites for upper-division courses. For some transfer students, this may mean that it will take longer than two years to complete their degree.

Students should have I&C SCI 31-33 credit first in order to move further into the program here at UCI.

In fulfillment of the requirements below, a single course may be used only once.

For information regarding the [AP and IB examination](#) credit policies refer to the UCI General Catalogue.

MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER

I&C SCI 31 - Introduction to Programming (4.00)

--- And ---

I&C SCI 32 - Programming with Software Libraries (4.00)

--- And ---

I&C SCI 33 - Intermediate Programming (4.00)

- Please refer to additional important General Information section above

CS 55 - JAVA Programming (3.00)

--- And ---

CS 56 - Advanced JAVA Programming (3.00)

I&C SCI 31 - Introduction to Programming (4.00)

--- And ---

I&C SCI 32 - Programming with Software Libraries (4.00)

- Please refer to additional important General Information section above

CS 87A - Python (3.00)

--- And ---

CS 87B - Advanced Python Programming (3.00)

MATH 2A - Single-Variable Calculus (4.00)

← MATH 7 - Calculus 1 (5.00)

MATH 2B - Single-Variable Calculus (4.00)

← MATH 8 - Calculus 2 (5.00)

One additional approved transferable course for the major (an approved Math, Science, or CSE course):

← No Course Articulated

- Please refer to additional important General Information section above

ONE ADDITIONAL APPROVED TRANSFERABLE COURSE FOR THE MAJOR (MATH OR CS COURSE)

REFER TO TOP OF AGREEMENT

MATH 3A - Introduction to Linear Algebra (4.00)	← MATH 13 - Linear Algebra (3.00)
--- Or ---	
I&C SCI 6N - Computational Linear Algebra (4.00)	← No Course Articulated
I&C SCI 6B - Boolean Logic and Discrete Structures (4.00)	← No Course Articulated
I&C SCI 6D - Discrete Mathematics for Computer Science (4.00)	← No Course Articulated
I&C SCI 45C - Programming in C/C++ as a Second Language (4.00)	← CS 52 - C++ Programming (3.00)
I&C SCI 46 - Data Structure Implementation and Analysis (4.00)	← CS 20A - Data Structures with C++ (3.00)
I&C SCI 51 - Introductory Computer Organization (6.00)	← No Course Articulated
I&C SCI 53 - Principles in System Design (4.00)	← No Course Articulated
IN4MATX 43 - Introduction to Software Engineering (4.00)	← No Course Articulated
STATS 67 - Introduction to Probability and Statistics for Computer Science (4.00)	← No Course Articulated
Two courses approved for General Education Category II except those related to computing/engineering, economics, or mathematics	← No Course Articulated

END OF AGREEMENT

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: Napa Valley College
2022-2023 General Catalog, Semester

Computer Science, B.S.

GENERAL INFORMATION

Admission to the Donald Bren School of Information and Computer Science is highly competitive. The most important selection criteria are completion of the required preparatory courses and academic performance. *This major does not participate in the TAG program.*

Required for admission:

Students must have a cumulative GPA of 3.0 and grade of B or higher in all required courses below:

- One year of computer programming courses* in a single object-language (Python, Java, or C++). Object-oriented programming language courses that do not directly articulate to I&C SCI 31-33 can be used to satisfy the admissions requirements. Introduction to computer science courses do not meet this requirement.
- Two semesters/two quarters of approved first-year Calculus
- One additional approved transferable course for the major (an approved math or CS course - see below)

Additional Approved Courses:

- One course in advanced data structures
- One course in machine organization and assembly language (both topics must be covered)
- One course in software engineering
- One course in discrete mathematics
- One course in Boolean algebra
- One course in linear algebra

***NOTE:** Additional computer science courses beyond the two required are strongly recommended, particularly those that align with the major of interest. Our first year of object-oriented programming is taught in Python. C++ and Java are used extensively in the curriculum; therefore, transfer students should plan to learn it by studying on their own or by completing related programming courses prior to their first quarter at UCI.

Additional courses beyond those required for admission must be taken to fulfill the lower-division degree requirements, as many are prerequisites for upper-division courses. For some transfer students, this may mean that it will take longer than two years to complete their degree.

Students should have I&C SCI 31-33 credit first in order to move further into the program here at UCI.

In fulfillment of the requirements below, a single course may be used only once.

For information regarding the [AP and IB examination](#) credit policies refer to the UCI General Catalogue.

MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER

I&C SCI 31 - Introduction to Programming (4.00)

--- And ---

I&C SCI 32 - Programming with Software Libraries (4.00)

--- And ---

I&C SCI 33 - Intermediate Programming (4.00)

- Please refer to additional important General Information section above

← No Course Articulated

MATH 2A - Single-Variable Calculus (4.00)

← **MATH 120** - Calculus I (5.00)

MATH 2B - Single-Variable Calculus (4.00)

← **MATH 121** - Calculus II (5.00)

One additional approved transferable course for the major (an approved Math, Science, or CSE course):

- Please refer to additional important General Information section above

← No Course Articulated

ONE ADDITIONAL APPROVED TRANSFERABLE COURSE FOR THE MAJOR (MATH OR CS COURSE)

REFER TO TOP OF AGREEMENT

MATH 3A - Introduction to Linear Algebra (4.00)

← **MATH 220** - Linear Algebra (3.00)

--- Or ---

I&C SCI 6N - Computational Linear Algebra (4.00)

← No Course Articulated

I&C SCI 6B - Boolean Logic and Discrete Structures (4.00) ← No Course Articulated

I&C SCI 6D - Discrete Mathematics for Computer Science (4.00) ← No Course Articulated

I&C SCI 45C - Programming in C/C++ as a Second Language (4.00) ← No Course Articulated

I&C SCI 46 - Data Structure Implementation and Analysis (4.00) ← No Course Articulated

I&C SCI 51 - Introductory Computer Organization (6.00) ← No Course Articulated

I&C SCI 53 - Principles in System Design (4.00) ← No Course Articulated

IN4MATX 43 - Introduction to Software Engineering (4.00) ← No Course Articulated

STATS 67 - Introduction to Probability and Statistics for Computer Science (4.00) ← No Course Articulated

Two courses approved for General Education Category II except those related to computing/engineering, economics, or mathematics ← No Course Articulated

END OF AGREEMENT

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: Shasta College
2022-2023 General Catalog, Semester

Computer Science, B.S.

GENERAL INFORMATION

Admission to the Donald Bren School of Information and Computer Science is highly competitive. The most important selection criteria are completion of the required preparatory courses and academic performance. *This major does not participate in the TAG program.*

Required for admission:

Students must have a cumulative GPA of 3.0 and grade of B or higher in all required courses below:

- One year of computer programming courses* in a single object-language (Python, Java, or C++). Object-oriented programming language courses that do not directly articulate to I&C SCI 31-33 can be used to satisfy the admissions requirements. Introduction to computer science courses do not meet this requirement.
- Two semesters/two quarters of approved first-year Calculus
- One additional approved transferable course for the major (an approved math or CS course - see below)

Additional Approved Courses:

- One course in advanced data structures
- One course in machine organization and assembly language (both topics must be covered)
- One course in software engineering
- One course in discrete mathematics
- One course in Boolean algebra
- One course in linear algebra

***NOTE:** Additional computer science courses beyond the two required are strongly recommended, particularly those that align with the major of interest. Our first year of object-oriented programming is taught in Python. C++ and Java are used extensively in the curriculum; therefore, transfer students should plan to learn it by studying on their own or by completing related programming courses prior to their first quarter at UCI.

Additional courses beyond those required for admission must be taken to fulfill the lower-division degree requirements, as many are prerequisites for upper-division courses. For some transfer students, this may mean that it will take longer than two years to complete their degree.

Students should have I&C SCI 31-33 credit first in order to move further into the program here at UCI.

In fulfillment of the requirements below, a single course may be used only once.

For information regarding the [AP and IB examination](#) credit policies refer to the UCI General Catalogue.

MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER

I&C SCI 31 - Introduction to Programming (4.00)

--- And ---

I&C SCI 32 - Programming with Software Libraries (4.00)

--- And ---

I&C SCI 33 - Intermediate Programming (4.00)

- Please refer to additional important General Information section above

← No Course Articulated

MATH 2A - Single-Variable Calculus (4.00)

← MATH 3A - Calculus (4.00)

MATH 2B - Single-Variable Calculus (4.00)

← MATH 3B - Calculus (5.00)

One additional approved transferable course for the major (an approved Math, Science, or CSE course):

- Please refer to additional important General Information section above

← No Course Articulated

ONE ADDITIONAL APPROVED TRANSFERABLE COURSE FOR THE MAJOR (MATH OR CS COURSE)

REFER TO TOP OF AGREEMENT

MATH 3A - Introduction to Linear Algebra (4.00)

← MATH 6 - Linear Algebra (3.00)

--- Or ---

I&C SCI 6N - Computational Linear Algebra (4.00)

← No Course Articulated

I&C SCI 6B - Boolean Logic and Discrete Structures (4.00) ← No Course Articulated

I&C SCI 6D - Discrete Mathematics for Computer Science (4.00) ← No Course Articulated

I&C SCI 45C - Programming in C/C++ as a Second Language (4.00) ← No Course Articulated

I&C SCI 46 - Data Structure Implementation and Analysis (4.00) ← No Course Articulated

I&C SCI 51 - Introductory Computer Organization (6.00) ← No Course Articulated

I&C SCI 53 - Principles in System Design (4.00) ← No Course Articulated

IN4MATX 43 - Introduction to Software Engineering (4.00) ← No Course Articulated

STATS 67 - Introduction to Probability and Statistics for Computer Science (4.00) ← No Course Articulated

Two courses approved for General Education Category II except those related to computing/engineering, economics, or mathematics ← No Course Articulated

END OF AGREEMENT

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: San Diego Mesa College
2022-2023 General Catalog, Semester

Computer Science, B.S.

GENERAL INFORMATION

Admission to the Donald Bren School of Information and Computer Science is highly competitive. The most important selection criteria are completion of the required preparatory courses and academic performance. *This major does not participate in the TAG program.*

Required for admission:

Students must have a cumulative GPA of 3.0 and grade of B or higher in all required courses below:

- One year of computer programming courses* in a single object-language (Python, Java, or C++). Object-oriented programming language courses that do not directly articulate to I&C SCI 31-33 can be used to satisfy the admissions requirements. Introduction to computer science courses do not meet this requirement.
- Two semesters/two quarters of approved first-year Calculus
- One additional approved transferable course for the major (an approved math or CS course - see below)

Additional Approved Courses:

- One course in advanced data structures
- One course in machine organization and assembly language (both topics must be covered)
- One course in software engineering
- One course in discrete mathematics
- One course in Boolean algebra
- One course in linear algebra

***NOTE:** Additional computer science courses beyond the two required are strongly recommended, particularly those that align with the major of interest. Our first year of object-oriented programming is taught in Python. C++ and Java are used extensively in the curriculum; therefore, transfer students should plan to learn it by studying on their own or by completing related programming courses prior to their first quarter at UCI.

Additional courses beyond those required for admission must be taken to fulfill the lower-division degree requirements, as many are prerequisites for upper-division courses. For some transfer students, this may mean that it will take longer than two years to complete their degree.

Students should have I&C SCI 31-33 credit first in order to move further into the program here at UCI.

In fulfillment of the requirements below, a single course may be used only once.

For information regarding the [AP and IB examination](#) credit policies refer to the UCI General Catalogue.

MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER

I&C SCI 31 - Introduction to Programming (4.00)

--- And ---

I&C SCI 32 - Programming with Software Libraries (4.00)

--- And ---

I&C SCI 33 - Intermediate Programming (4.00)

- Please refer to additional important General Information section above

CISC 179 - Python Programming (4.00)

--- And ---

CISC 192 - C/C++ Programming (4.00)

--- And ---

CISC 201 - Advanced C++ Programming (4.00)

MATH 2A - Single-Variable Calculus (4.00)

← **MATH 150** - Calculus with Analytic Geometry I (5.00)

MATH 2B - Single-Variable Calculus (4.00)

← **MATH 151** - Calculus with Analytic Geometry II (4.00)

One additional approved transferable course for the major (an approved Math, Science, or CSE course):

← No Course Articulated

- Please refer to additional important General Information section above

ONE ADDITIONAL APPROVED TRANSFERABLE COURSE FOR THE MAJOR (MATH OR CS COURSE)

REFER TO TOP OF AGREEMENT

MATH 3A - Introduction to Linear Algebra (4.00)

← **MATH 254** - Introduction to Linear Algebra (3.00)

--- Or ---

I&C SCI 6N - Computational Linear Algebra (4.00)

← No Course Articulated

I&C SCI 6B - Boolean Logic and Discrete Structures (4.00)

←

MATH 245 - Discrete Mathematics (3.00)

--- And ---

CISC 246 - Discrete Mathematics for Computer Science (3.00)

I&C SCI 6D - Discrete Mathematics for Computer Science (4.00)

←

MATH 245 - Discrete Mathematics (3.00)

--- And ---

CISC 246 - Discrete Mathematics for Computer Science (3.00)

I&C SCI 45C - Programming in C/C++ as a Second Language (4.00)

←

No Course Articulated

I&C SCI 46 - Data Structure Implementation and Analysis (4.00)

←

No Course Articulated

I&C SCI 51 - Introductory Computer Organization (6.00)

←

CISC 211 - Computer Organization and Assembly Language (4.00)

I&C SCI 53 - Principles in System Design (4.00)

←

No Course Articulated

IN4MATX 43 - Introduction to Software Engineering (4.00)

←

No Course Articulated

STATS 67 - Introduction to Probability and Statistics for Computer Science (4.00)

←

No Course Articulated

Two courses approved for General Education Category II except those related to computing/engineering, economics, or mathematics

←

No Course Articulated

END OF AGREEMENT

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: San Diego Miramar College
2022-2023 General Catalog, Semester

Computer Science, B.S.

GENERAL INFORMATION

Admission to the Donald Bren School of Information and Computer Science is highly competitive. The most important selection criteria are completion of the required preparatory courses and academic performance. *This major does not participate in the TAG program.*

Required for admission:

Students must have a cumulative GPA of 3.0 and grade of B or higher in all required courses below:

- One year of computer programming courses* in a single object-language (Python, Java, or C++). Object-oriented programming language courses that do not directly articulate to I&C SCI 31-33 can be used to satisfy the admissions requirements. Introduction to computer science courses do not meet this requirement.
- Two semesters/two quarters of approved first-year Calculus
- One additional approved transferable course for the major (an approved math or CS course - see below)

Additional Approved Courses:

- One course in advanced data structures
- One course in machine organization and assembly language (both topics must be covered)
- One course in software engineering
- One course in discrete mathematics
- One course in Boolean algebra
- One course in linear algebra

***NOTE:** Additional computer science courses beyond the two required are strongly recommended, particularly those that align with the major of interest. Our first year of object-oriented programming is taught in Python. C++ and Java are used extensively in the curriculum; therefore, transfer students should plan to learn it by studying on their own or by completing related programming courses prior to their first quarter at UCI.

Additional courses beyond those required for admission must be taken to fulfill the lower-division degree requirements, as many are prerequisites for upper-division courses. For some transfer students, this may mean that it will take longer than two years to complete their degree.

Students should have I&C SCI 31-33 credit first in order to move further into the program here at UCI.

In fulfillment of the requirements below, a single course may be used only once.

For information regarding the [AP and IB examination](#) credit policies refer to the UCI General Catalogue.

MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER

I&C SCI 31 - Introduction to Programming (4.00)

--- And ---

I&C SCI 32 - Programming with Software Libraries (4.00)

--- And ---

I&C SCI 33 - Intermediate Programming (4.00)

- Please refer to additional important General Information section above

← No Course Articulated

MATH 2A - Single-Variable Calculus (4.00)

← **MATH 150** - Calculus with Analytic Geometry I (5.00)

MATH 2B - Single-Variable Calculus (4.00)

← **MATH 151** - Calculus with Analytic Geometry II (4.00)

One additional approved transferable course for the major (an approved Math, Science, or CSE course):

- Please refer to additional important General Information section above

← No Course Articulated

ONE ADDITIONAL APPROVED TRANSFERABLE COURSE FOR THE MAJOR (MATH OR CS COURSE)

REFER TO TOP OF AGREEMENT

MATH 3A - Introduction to Linear Algebra (4.00)

← **MATH 254** - Introduction to Linear Algebra (3.00)

--- Or ---

I&C SCI 6N - Computational Linear Algebra (4.00)

← No Course Articulated

I&C SCI 6B - Boolean Logic and Discrete Structures (4.00)

←

MATH 245 - Discrete Mathematics (3.00)

--- And ---

CISC 246 - Discrete Mathematics for Computer Science (3.00)

I&C SCI 6D - Discrete Mathematics for Computer Science (4.00)

←

MATH 245 - Discrete Mathematics (3.00)

--- And ---

CISC 246 - Discrete Mathematics for Computer Science (3.00)

I&C SCI 45C - Programming in C/C++ as a Second Language (4.00)

←

No Course Articulated

I&C SCI 46 - Data Structure Implementation and Analysis (4.00)

←

No Course Articulated

I&C SCI 51 - Introductory Computer Organization (6.00)

←

CISC 211 - Computer Organization and Assembly Language (4.00)

I&C SCI 53 - Principles in System Design (4.00)

←

No Course Articulated

IN4MATX 43 - Introduction to Software Engineering (4.00)

←

No Course Articulated

STATS 67 - Introduction to Probability and Statistics for Computer Science (4.00)

←

No Course Articulated

Two courses approved for General Education Category II except those related to computing/engineering, economics, or mathematics

←

No Course Articulated

END OF AGREEMENT

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: Pasadena City College
2022-2023 General Catalog, Semester

Computer Science, B.S.

GENERAL INFORMATION

Admission to the Donald Bren School of Information and Computer Science is highly competitive. The most important selection criteria are completion of the required preparatory courses and academic performance. *This major does not participate in the TAG program.*

Required for admission:

Students must have a cumulative GPA of 3.0 and grade of B or higher in all required courses below:

- One year of computer programming courses* in a single object-language (Python, Java, or C++). Object-oriented programming language courses that do not directly articulate to I&C SCI 31-33 can be used to satisfy the admissions requirements. Introduction to computer science courses do not meet this requirement.
- Two semesters/two quarters of approved first-year Calculus
- One additional approved transferable course for the major (an approved math or CS course - see below)

Additional Approved Courses:

- One course in advanced data structures
- One course in machine organization and assembly language (both topics must be covered)
- One course in software engineering
- One course in discrete mathematics
- One course in Boolean algebra
- One course in linear algebra

***NOTE:** Additional computer science courses beyond the two required are strongly recommended, particularly those that align with the major of interest. Our first year of object-oriented programming is taught in Python. C++ and Java are used extensively in the curriculum; therefore, transfer students should plan to learn it by studying on their own or by completing related programming courses prior to their first quarter at UCI.

Additional courses beyond those required for admission must be taken to fulfill the lower-division degree requirements, as many are prerequisites for upper-division courses. For some transfer students, this may mean that it will take longer than two years to complete their degree.

Students should have I&C SCI 31-33 credit first in order to move further into the program here at UCI.

In fulfillment of the requirements below, a single course may be used only once.

For information regarding the [AP and IB examination](#) credit policies refer to the UCI General Catalogue.

MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER

I&C SCI 31 - Introduction to Programming (4.00)

--- And ---

I&C SCI 32 - Programming with Software Libraries (4.00)

--- And ---

I&C SCI 33 - Intermediate Programming (4.00)

- Please refer to additional important General Information section above

CS 002 - Fundamentals of Computer Science I (4.00)

--- And ---

CS 003B - Fundamentals of Computer Science (JAVA) (4.00)

--- Or ---

CS 002 - Fundamentals of Computer Science I (4.00)

--- And ---

CS 003C - Fundamentals of Computer Science (Python) (4.00)

MATH 2A - Single-Variable Calculus (4.00)



MATH 005A - Single Variable Calculus I (5.00)

--- Or ---

MATH 005AH - Honors Single Variable Calculus I (5.00)

--- Or ---

MATH 006A - Calculus for Life Sciences I (3.00)

MATH 2B - Single-Variable Calculus (4.00)



MATH 005B - Single Variable Calculus II (5.00)

--- Or ---

MATH 005BH - Honors Single Variable Calculus II (5.00)

One additional approved transferable course for the major (an approved Math, Science, or CSE course):

- Please refer to additional important General Information section above

← No Course Articulated

ONE ADDITIONAL APPROVED TRANSFERABLE COURSE FOR THE MAJOR (MATH OR CS COURSE)

REFER TO TOP OF AGREEMENT

MATH 3A - Introduction to Linear Algebra (4.00)	←	MATH 010 - Linear Algebra and Applications (4.00) --- Or --- MATH 010H - Honors Linear Algebra and Applications (4.00)
I&C SCI 6N - Computational Linear Algebra (4.00)	←	--- Or --- No Course Articulated
I&C SCI 6B - Boolean Logic and Discrete Structures (4.00)	←	No Course Articulated
I&C SCI 6D - Discrete Mathematics for Computer Science (4.00)	←	MATH 022 - Discrete Mathematics (4.00)
I&C SCI 45C - Programming in C/C++ as a Second Language (4.00)	←	CS 002 - Fundamentals of Computer Science I (4.00) --- And --- CS 003A - Fundamentals of Computer Science II (C++) (4.00) --- Or --- CIS 012 - Introduction to Programming Using Python (3.00) --- And --- CIS 014 - C++ Programming (3.00)
I&C SCI 46 - Data Structure Implementation and Analysis (4.00)	←	CS 008 - Fundamentals of Computer Science III-Data Structures (4.00)
I&C SCI 51 - Introductory Computer Organization (6.00)	←	No Course Articulated
I&C SCI 53 - Principles in System Design (4.00)	←	No Course Articulated
IN4MATX 43 - Introduction to Software Engineering (4.00)	←	No Course Articulated
STATS 67 - Introduction to Probability and Statistics for Computer Science (4.00)	←	No Course Articulated
Two courses approved for General Education Category II except those related to computing/engineering, economics, or mathematics	←	No Course Articulated

END OF AGREEMENT

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

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

Computer Science, B.S.

GENERAL INFORMATION

Admission to the Donald Bren School of Information and Computer Science is highly competitive. The most important selection criteria are completion of the required preparatory courses and academic performance. *This major does not participate in the TAG program.*

Required for admission:

Students must have a cumulative GPA of 3.0 and grade of B or higher in all required courses below:

- One year of computer programming courses* in a single object-language (Python, Java, or C++). Object-oriented programming language courses that do not directly articulate to I&C SCI 31-33 can be used to satisfy the admissions requirements. Introduction to computer science courses do not meet this requirement.
- Two semesters/two quarters of approved first-year Calculus
- One additional approved transferable course for the major (an approved math or CS course - see below)

Additional Approved Courses:

- One course in advanced data structures
- One course in machine organization and assembly language (both topics must be covered)
- One course in software engineering
- One course in discrete mathematics
- One course in Boolean algebra
- One course in linear algebra

***NOTE:** Additional computer science courses beyond the two required are strongly recommended, particularly those that align with the major of interest. Our first year of object-oriented programming is taught in Python. C++ and Java are used extensively in the curriculum; therefore, transfer students should plan to learn it by studying on their own or by completing related programming courses prior to their first quarter at UCI.

Additional courses beyond those required for admission must be taken to fulfill the lower-division degree requirements, as many are prerequisites for upper-division courses. For some transfer students, this may mean that it will take longer than two years to complete their degree.

Students should have I&C SCI 31-33 credit first in order to move further into the program here at UCI.

In fulfillment of the requirements below, a single course may be used only once.

For information regarding the [AP and IB examination](#) credit policies refer to the UCI General Catalogue.

MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER

I&C SCI 31 - Introduction to Programming (4.00)

--- And ---

I&C SCI 32 - Programming with Software Libraries (4.00)

--- And ---

I&C SCI 33 - Intermediate Programming (4.00)

- Please refer to additional important General Information section above

CIS 40 - Introduction to Programming in Python (4.50)

--- And ---

CIS 41A - Python Programming (4.50)

--- And ---

CIS 41B - Advanced Python Programming (4.50)

MATH 2A - Single-Variable Calculus (4.00)



MATH 1A - Calculus (5.00)

--- Or ---

MATH 1AH - Calculus - HONORS (5.00)

MATH 2B - Single-Variable Calculus (4.00)



MATH 1B - Calculus (5.00)

--- Or ---

MATH 1BH - Calculus - HONORS (5.00)

One additional approved transferable course for the major (an approved Math, Science, or CSE course):

- Please refer to additional important General Information section above

← No Course Articulated

ONE ADDITIONAL APPROVED TRANSFERABLE COURSE FOR THE MAJOR (MATH OR CS COURSE)

REFER TO TOP OF AGREEMENT

MATH 3A - Introduction to Linear Algebra (4.00)	←	MATH 2B - Linear Algebra (5.00)
--- Or ---		
I&C SCI 6N - Computational Linear Algebra (4.00)	←	No Course Articulated
I&C SCI 6B - Boolean Logic and Discrete Structures (4.00)	←	No Course Articulated
I&C SCI 6D - Discrete Mathematics for Computer Science (4.00)	←	MATH 22 - Discrete Mathematics (5.00)
I&C SCI 45C - Programming in C/C++ as a Second Language (4.00)	←	<div style="border: 1px solid black; padding: 5px;"> CIS 22A - Beginning Programming Methodologies in C++ (4.50) --- And --- CIS 22B - Intermediate Programming Methodologies in C++ (4.50) </div>
--- Or ---		
I&C SCI 46 - Data Structure Implementation and Analysis (4.00)	←	CIS 22C - Data Abstraction and Structures (4.50)
I&C SCI 51 - Introductory Computer Organization (6.00)	←	No Course Articulated
I&C SCI 53 - Principles in System Design (4.00)	←	No Course Articulated
IN4MATX 43 - Introduction to Software Engineering (4.00)	←	No Course Articulated
STATS 67 - Introduction to Probability and Statistics for Computer Science (4.00)	←	No Course Articulated
Two courses approved for General Education Category II except those related to computing/engineering, economics, or mathematics	←	No Course Articulated

END OF AGREEMENT

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: Santa Rosa Junior College
2022-2023 General Catalog, Semester

Computer Science, B.S.

GENERAL INFORMATION

Admission to the Donald Bren School of Information and Computer Science is highly competitive. The most important selection criteria are completion of the required preparatory courses and academic performance. *This major does not participate in the TAG program.*

Required for admission:

Students must have a cumulative GPA of 3.0 and grade of B or higher in all required courses below:

- One year of computer programming courses* in a single object-language (Python, Java, or C++). Object-oriented programming language courses that do not directly articulate to I&C SCI 31-33 can be used to satisfy the admissions requirements. Introduction to computer science courses do not meet this requirement.
- Two semesters/two quarters of approved first-year Calculus
- One additional approved transferable course for the major (an approved math or CS course - see below)

Additional Approved Courses:

- One course in advanced data structures
- One course in machine organization and assembly language (both topics must be covered)
- One course in software engineering
- One course in discrete mathematics
- One course in Boolean algebra
- One course in linear algebra

***NOTE:** Additional computer science courses beyond the two required are strongly recommended, particularly those that align with the major of interest. Our first year of object-oriented programming is taught in Python. C++ and Java are used extensively in the curriculum; therefore, transfer students should plan to learn it by studying on their own or by completing related programming courses prior to their first quarter at UCI.

Additional courses beyond those required for admission must be taken to fulfill the lower-division degree requirements, as many are prerequisites for upper-division courses. For some transfer students, this may mean that it will take longer than two years to complete their degree.

Students should have I&C SCI 31-33 credit first in order to move further into the program here at UCI.

In fulfillment of the requirements below, a single course may be used only once.

For information regarding the [AP and IB examination](#) credit policies refer to the UCI General Catalogue.

MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER

I&C SCI 31 - Introduction to Programming (4.00)

--- And ---

I&C SCI 32 - Programming with Software Libraries (4.00)

--- And ---

I&C SCI 33 - Intermediate Programming (4.00)

- Please refer to additional important General Information section above

← No Course Articulated

MATH 2A - Single-Variable Calculus (4.00)

← **MATH 1A** - Calculus, First Course (5.00)

MATH 2B - Single-Variable Calculus (4.00)

← **MATH 1B** - Calculus, Second Course (5.00)

One additional approved transferable course for the major (an approved Math, Science, or CSE course):

- Please refer to additional important General Information section above

← No Course Articulated

ONE ADDITIONAL APPROVED TRANSFERABLE COURSE FOR THE MAJOR (MATH OR CS COURSE)

REFER TO TOP OF AGREEMENT

MATH 3A - Introduction to Linear Algebra (4.00)

← **MATH 5** - Introduction to Linear Algebra (4.00)

--- Or ---

I&C SCI 6N - Computational Linear Algebra (4.00)

← No Course Articulated

I&C SCI 6B - Boolean Logic and Discrete Structures (4.00)

← No Course Articulated

I&C SCI 6D - Discrete Mathematics for Computer Science (4.00)

← **MATH 4** - Discrete Mathematics (4.00)

I&C SCI 45C - Programming in C/C++ as a Second Language (4.00)

← No Course Articulated

I&C SCI 46 - Data Structure Implementation and Analysis (4.00)

←

CS 10C - Programming Concepts and Methodologies 2 (4.00)

--- And ---

CS 17.11 - Java Programming (3.00)

I&C SCI 51 - Introductory Computer Organization (6.00)

← No Course Articulated

I&C SCI 53 - Principles in System Design (4.00)

← No Course Articulated

IN4MATX 43 - Introduction to Software Engineering (4.00)

← No Course Articulated

STATS 67 - Introduction to Probability and Statistics for Computer Science (4.00)

← No Course Articulated

Two courses approved for General Education Category II except those related to computing/engineering, economics, or mathematics

← No Course Articulated

END OF AGREEMENT

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: College of San Mateo
2022-2023 General Catalog, Semester

Computer Science, B.S.

GENERAL INFORMATION

Admission to the Donald Bren School of Information and Computer Science is highly competitive. The most important selection criteria are completion of the required preparatory courses and academic performance. *This major does not participate in the TAG program.*

Required for admission:

Students must have a cumulative GPA of 3.0 and grade of B or higher in all required courses below:

- One year of computer programming courses* in a single object-language (Python, Java, or C++). Object-oriented programming language courses that do not directly articulate to I&C SCI 31-33 can be used to satisfy the admissions requirements. Introduction to computer science courses do not meet this requirement.
- Two semesters/two quarters of approved first-year Calculus
- One additional approved transferable course for the major (an approved math or CS course - see below)

Additional Approved Courses:

- One course in advanced data structures
- One course in machine organization and assembly language (both topics must be covered)
- One course in software engineering
- One course in discrete mathematics
- One course in Boolean algebra
- One course in linear algebra

***NOTE:** Additional computer science courses beyond the two required are strongly recommended, particularly those that align with the major of interest. Our first year of object-oriented programming is taught in Python. C++ and Java are used extensively in the curriculum; therefore, transfer students should plan to learn it by studying on their own or by completing related programming courses prior to their first quarter at UCI.

Additional courses beyond those required for admission must be taken to fulfill the lower-division degree requirements, as many are prerequisites for upper-division courses. For some transfer students, this may mean that it will take longer than two years to complete their degree.

Students should have I&C SCI 31-33 credit first in order to move further into the program here at UCI.

In fulfillment of the requirements below, a single course may be used only once.

For information regarding the [AP and IB examination](#) credit policies refer to the UCI General Catalogue.

MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER

I&C SCI 31 - Introduction to Programming (4.00)

--- And ---

I&C SCI 32 - Programming with Software Libraries (4.00)

--- And ---

I&C SCI 33 - Intermediate Programming (4.00)

- Please refer to additional important General Information section above

CIS 255 - (CS1) Programming Methods: Java (4.00)

--- And ---

CIS 256 - (CS2) Data Structures: Java (4.00)

MATH 2A - Single-Variable Calculus (4.00)

← MATH 251 - Calculus with Analytic Geometry I (5.00)

MATH 2B - Single-Variable Calculus (4.00)

← MATH 252 - Calculus with Analytic Geometry II (5.00)

One additional approved transferable course for the major (an approved Math, Science, or CSE course):

← No Course Articulated

- Please refer to additional important General Information section above

ONE ADDITIONAL APPROVED TRANSFERABLE COURSE FOR THE MAJOR (MATH OR CS COURSE)

REFER TO TOP OF AGREEMENT

MATH 3A - Introduction to Linear Algebra (4.00)

← MATH 270 - Linear Algebra (3.00)

--- Or ---

I&C SCI 6N - Computational Linear Algebra (4.00)

← No Course Articulated

I&C SCI 6B - Boolean Logic and Discrete Structures (4.00)	← CIS 262 - Discrete Mathematics for Computer Science (3.00)
I&C SCI 6D - Discrete Mathematics for Computer Science (4.00)	← CIS 262 - Discrete Mathematics for Computer Science (3.00) --- Or --- MATH 268 - Discrete Mathematics (4.00)
I&C SCI 45C - Programming in C/C++ as a Second Language (4.00)	← CIS 278 - (CS1)Programming Methods I: C++ (4.00)
I&C SCI 46 - Data Structure Implementation and Analysis (4.00)	← CIS 279 - (CS2) Data Structures: C ++ (4.00)
I&C SCI 51 - Introductory Computer Organization (6.00)	← CIS 264 - Computer Organization and Systems Programming (4.00)
I&C SCI 53 - Principles in System Design (4.00)	← No Course Articulated
IN4MATX 43 - Introduction to Software Engineering (4.00)	← No Course Articulated
STATS 67 - Introduction to Probability and Statistics for Computer Science (4.00)	← No Course Articulated
Two courses approved for General Education Category II except those related to computing/engineering, economics, or mathematics	← No Course Articulated

END OF AGREEMENT

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: Cerro Coso Community College
2022-2023 General Catalog, Semester

Computer Science, B.S.

GENERAL INFORMATION

Admission to the Donald Bren School of Information and Computer Science is highly competitive. The most important selection criteria are completion of the required preparatory courses and academic performance. *This major does not participate in the TAG program.*

Required for admission:

Students must have a cumulative GPA of 3.0 and grade of B or higher in all required courses below:

- One year of computer programming courses* in a single object-language (Python, Java, or C++). Object-oriented programming language courses that do not directly articulate to I&C SCI 31-33 can be used to satisfy the admissions requirements. Introduction to computer science courses do not meet this requirement.
- Two semesters/two quarters of approved first-year Calculus
- One additional approved transferable course for the major (an approved math or CS course - see below)

Additional Approved Courses:

- One course in advanced data structures
- One course in machine organization and assembly language (both topics must be covered)
- One course in software engineering
- One course in discrete mathematics
- One course in Boolean algebra
- One course in linear algebra

***NOTE:** Additional computer science courses beyond the two required are strongly recommended, particularly those that align with the major of interest. Our first year of object-oriented programming is taught in Python. C++ and Java are used extensively in the curriculum; therefore, transfer students should plan to learn it by studying on their own or by completing related programming courses prior to their first quarter at UCI.

Additional courses beyond those required for admission must be taken to fulfill the lower-division degree requirements, as many are prerequisites for upper-division courses. For some transfer students, this may mean that it will take longer than two years to complete their degree.

Students should have I&C SCI 31-33 credit first in order to move further into the program here at UCI.

In fulfillment of the requirements below, a single course may be used only once.

For information regarding the [AP and IB examination](#) credit policies refer to the UCI General Catalogue.

MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER

I&C SCI 31 - Introduction to Programming (4.00)

--- And ---

I&C SCI 32 - Programming with Software Libraries (4.00)

--- And ---

I&C SCI 33 - Intermediate Programming (4.00)

- Please refer to additional important General Information section above

← No Course Articulated

MATH 2A - Single-Variable Calculus (4.00)

← **MATH C151** - Analytic Geometry & Calculus I (4.00)

MATH 2B - Single-Variable Calculus (4.00)

← **MATH C152** - Analytic Geometry & Calculus II (4.00)

One additional approved transferable course for the major (an approved Math, Science, or CSE course):

- Please refer to additional important General Information section above

← No Course Articulated

ONE ADDITIONAL APPROVED TRANSFERABLE COURSE FOR THE MAJOR (MATH OR CS COURSE)

REFER TO TOP OF AGREEMENT

MATH 3A - Introduction to Linear Algebra (4.00)

← **MATH C257** - Linear Algebra (4.00)

--- Or ---

I&C SCI 6N - Computational Linear Algebra (4.00)

← No Course Articulated

I&C SCI 6B - Boolean Logic and Discrete Structures (4.00) ← No Course Articulated

I&C SCI 6D - Discrete Mathematics for Computer Science (4.00) ← No Course Articulated

I&C SCI 45C - Programming in C/C++ as a Second Language (4.00) ← No Course Articulated

I&C SCI 46 - Data Structure Implementation and Analysis (4.00) ← No Course Articulated

I&C SCI 51 - Introductory Computer Organization (6.00) ← No Course Articulated

I&C SCI 53 - Principles in System Design (4.00) ← No Course Articulated

IN4MATX 43 - Introduction to Software Engineering (4.00) ← No Course Articulated

STATS 67 - Introduction to Probability and Statistics for Computer Science (4.00) ← No Course Articulated

Two courses approved for General Education Category II except those related to computing/engineering, economics, or mathematics ← No Course Articulated

END OF AGREEMENT

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: Chabot College
2022-2023 General Catalog, Semester

Computer Science, B.S.

GENERAL INFORMATION

Admission to the Donald Bren School of Information and Computer Science is highly competitive. The most important selection criteria are completion of the required preparatory courses and academic performance. *This major does not participate in the TAG program.*

Required for admission:

Students must have a cumulative GPA of 3.0 and grade of B or higher in all required courses below:

- One year of computer programming courses* in a single object-language (Python, Java, or C++). Object-oriented programming language courses that do not directly articulate to I&C SCI 31-33 can be used to satisfy the admissions requirements. Introduction to computer science courses do not meet this requirement.
- Two semesters/two quarters of approved first-year Calculus
- One additional approved transferable course for the major (an approved math or CS course - see below)

Additional Approved Courses:

- One course in advanced data structures
- One course in machine organization and assembly language (both topics must be covered)
- One course in software engineering
- One course in discrete mathematics
- One course in Boolean algebra
- One course in linear algebra

***NOTE:** Additional computer science courses beyond the two required are strongly recommended, particularly those that align with the major of interest. Our first year of object-oriented programming is taught in Python. C++ and Java are used extensively in the curriculum; therefore, transfer students should plan to learn it by studying on their own or by completing related programming courses prior to their first quarter at UCI.

Additional courses beyond those required for admission must be taken to fulfill the lower-division degree requirements, as many are prerequisites for upper-division courses. For some transfer students, this may mean that it will take longer than two years to complete their degree.

Students should have I&C SCI 31-33 credit first in order to move further into the program here at UCI.

In fulfillment of the requirements below, a single course may be used only once.

For information regarding the [AP and IB examination](#) credit policies refer to the UCI General Catalogue.

MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER

I&C SCI 31 - Introduction to Programming (4.00)

--- And ---

I&C SCI 32 - Programming with Software Libraries (4.00)

--- And ---

I&C SCI 33 - Intermediate Programming (4.00)

- Please refer to additional important General Information section above

CSCI 14 - Introduction to Structured Programming in C++ (4.00)

--- And ---

CSCI 15 - Object-Oriented Programming Methods (4.00)

MATH 2A - Single-Variable Calculus (4.00)



MTH 1 - Calculus I (5.00)

--- Or ---

MTH 15 - Applied Calculus I (3.00)

MATH 2B - Single-Variable Calculus (4.00)



MTH 2 - Calculus II (5.00)

--- Or ---

MTH 16 - Applied Calculus II (3.00)

One additional approved transferable course for the major (an approved Math, Science, or CSE course):

- Please refer to additional important General Information section above

← No Course Articulated

ONE ADDITIONAL APPROVED TRANSFERABLE COURSE FOR THE MAJOR (MATH OR CS COURSE)

REFER TO TOP OF AGREEMENT

MATH 3A - Introduction to Linear Algebra (4.00)	← MTH 6 - Elementary Linear Algebra (3.00)
--- Or ---	
I&C SCI 6N - Computational Linear Algebra (4.00)	← No Course Articulated
I&C SCI 6B - Boolean Logic and Discrete Structures (4.00)	← No Course Articulated
I&C SCI 6D - Discrete Mathematics for Computer Science (4.00)	← No Course Articulated
I&C SCI 45C - Programming in C/C++ as a Second Language (4.00)	← No Course Articulated
I&C SCI 46 - Data Structure Implementation and Analysis (4.00)	← CSCI 20 - Introduction to Data Structures (4.00)
I&C SCI 51 - Introductory Computer Organization (6.00)	← No Course Articulated
I&C SCI 53 - Principles in System Design (4.00)	← No Course Articulated
IN4MATX 43 - Introduction to Software Engineering (4.00)	← No Course Articulated
STATS 67 - Introduction to Probability and Statistics for Computer Science (4.00)	← No Course Articulated
Two courses approved for General Education Category II except those related to computing/engineering, economics, or mathematics	← No Course Articulated

END OF AGREEMENT

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: Bakersfield College
2022-2023 General Catalog, Semester

Computer Science, B.S.

GENERAL INFORMATION

Admission to the Donald Bren School of Information and Computer Science is highly competitive. The most important selection criteria are completion of the required preparatory courses and academic performance. *This major does not participate in the TAG program.*

Required for admission:

Students must have a cumulative GPA of 3.0 and grade of B or higher in all required courses below:

- One year of computer programming courses* in a single object-language (Python, Java, or C++). Object-oriented programming language courses that do not directly articulate to I&C SCI 31-33 can be used to satisfy the admissions requirements. Introduction to computer science courses do not meet this requirement.
- Two semesters/two quarters of approved first-year Calculus
- One additional approved transferable course for the major (an approved math or CS course - see below)

Additional Approved Courses:

- One course in advanced data structures
- One course in machine organization and assembly language (both topics must be covered)
- One course in software engineering
- One course in discrete mathematics
- One course in Boolean algebra
- One course in linear algebra

***NOTE:** Additional computer science courses beyond the two required are strongly recommended, particularly those that align with the major of interest. Our first year of object-oriented programming is taught in Python. C++ and Java are used extensively in the curriculum; therefore, transfer students should plan to learn it by studying on their own or by completing related programming courses prior to their first quarter at UCI.

Additional courses beyond those required for admission must be taken to fulfill the lower-division degree requirements, as many are prerequisites for upper-division courses. For some transfer students, this may mean that it will take longer than two years to complete their degree.

Students should have I&C SCI 31-33 credit first in order to move further into the program here at UCI.

In fulfillment of the requirements below, a single course may be used only once.

For information regarding the [AP and IB examination](#) credit policies refer to the UCI General Catalogue.

MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER

I&C SCI 31 - Introduction to Programming (4.00)

--- And ---

I&C SCI 32 - Programming with Software Libraries (4.00)

--- And ---

I&C SCI 33 - Intermediate Programming (4.00)

- Please refer to additional important General Information section above

← No Course Articulated

MATH 2A - Single-Variable Calculus (4.00)

← **MATH B6A** - Analytic Geometry/Calculus I (4.00)

MATH 2B - Single-Variable Calculus (4.00)

← **MATH B6B** - Analytic Geometry/Calculus II (4.00)

One additional approved transferable course for the major (an approved Math, Science, or CSE course):

← No Course Articulated

- Please refer to additional important General Information section above

ONE ADDITIONAL APPROVED TRANSFERABLE COURSE FOR THE MAJOR (MATH OR CS COURSE)

REFER TO TOP OF AGREEMENT

MATH 3A - Introduction to Linear Algebra (4.00)

← **MATH B6E** - Elementary Linear Algebra (3.00)

--- Or ---

I&C SCI 6N - Computational Linear Algebra (4.00)

← No Course Articulated

I&C SCI 6B - Boolean Logic and Discrete Structures (4.00)	← COMP B14 - Discrete Structures (3.00)
I&C SCI 6D - Discrete Mathematics for Computer Science (4.00)	← COMP B14 - Discrete Structures (3.00)
I&C SCI 45C - Programming in C/C++ as a Second Language (4.00)	← No Course Articulated
I&C SCI 46 - Data Structure Implementation and Analysis (4.00)	← No Course Articulated
I&C SCI 51 - Introductory Computer Organization (6.00)	← No Course Articulated
I&C SCI 53 - Principles in System Design (4.00)	← No Course Articulated
IN4MATX 43 - Introduction to Software Engineering (4.00)	← No Course Articulated
STATS 67 - Introduction to Probability and Statistics for Computer Science (4.00)	← No Course Articulated
Two courses approved for General Education Category II except those related to computing/engineering, economics, or mathematics	← No Course Articulated

END OF AGREEMENT

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: San Joaquin Delta College
2022-2023 General Catalog, Semester

Computer Science, B.S.

GENERAL INFORMATION

Admission to the Donald Bren School of Information and Computer Science is highly competitive. The most important selection criteria are completion of the required preparatory courses and academic performance. *This major does not participate in the TAG program.*

Required for admission:

Students must have a cumulative GPA of 3.0 and grade of B or higher in all required courses below:

- One year of computer programming courses* in a single object-language (Python, Java, or C++). Object-oriented programming language courses that do not directly articulate to I&C SCI 31-33 can be used to satisfy the admissions requirements. Introduction to computer science courses do not meet this requirement.
- Two semesters/two quarters of approved first-year Calculus
- One additional approved transferable course for the major (an approved math or CS course - see below)

Additional Approved Courses:

- One course in advanced data structures
- One course in machine organization and assembly language (both topics must be covered)
- One course in software engineering
- One course in discrete mathematics
- One course in Boolean algebra
- One course in linear algebra

***NOTE:** Additional computer science courses beyond the two required are strongly recommended, particularly those that align with the major of interest. Our first year of object-oriented programming is taught in Python. C++ and Java are used extensively in the curriculum; therefore, transfer students should plan to learn it by studying on their own or by completing related programming courses prior to their first quarter at UCI.

Additional courses beyond those required for admission must be taken to fulfill the lower-division degree requirements, as many are prerequisites for upper-division courses. For some transfer students, this may mean that it will take longer than two years to complete their degree.

Students should have I&C SCI 31-33 credit first in order to move further into the program here at UCI.

In fulfillment of the requirements below, a single course may be used only once.

For information regarding the [AP and IB examination](#) credit policies refer to the UCI General Catalogue.

MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER

I&C SCI 31 - Introduction to Programming (4.00)

--- And ---

I&C SCI 32 - Programming with Software Libraries (4.00)

--- And ---

I&C SCI 33 - Intermediate Programming (4.00)

- Please refer to additional important General Information section above

← No Course Articulated

MATH 2A - Single-Variable Calculus (4.00)

← **MATH 1** - Calculus I (5.00)

MATH 2B - Single-Variable Calculus (4.00)

← **MATH 2** - Calculus II (4.00)

One additional approved transferable course for the major (an approved Math, Science, or CSE course):

- Please refer to additional important General Information section above

← No Course Articulated

ONE ADDITIONAL APPROVED TRANSFERABLE COURSE FOR THE MAJOR (MATH OR CS COURSE)

REFER TO TOP OF AGREEMENT

MATH 3A - Introduction to Linear Algebra (4.00)

← **MATH 5** - Linear Algebra (4.00)

--- Or ---

I&C SCI 6N - Computational Linear Algebra (4.00)

← No Course Articulated

I&C SCI 6B - Boolean Logic and Discrete Structures (4.00) ← No Course Articulated

I&C SCI 6D - Discrete Mathematics for Computer Science (4.00) ← No Course Articulated

I&C SCI 45C - Programming in C/C++ as a Second Language (4.00) ← No Course Articulated

I&C SCI 46 - Data Structure Implementation and Analysis (4.00) ← No Course Articulated

I&C SCI 51 - Introductory Computer Organization (6.00) ← No Course Articulated

I&C SCI 53 - Principles in System Design (4.00) ← No Course Articulated

IN4MATX 43 - Introduction to Software Engineering (4.00) ← No Course Articulated

STATS 67 - Introduction to Probability and Statistics for Computer Science (4.00) ← No Course Articulated

Two courses approved for General Education Category II except those related to computing/engineering, economics, or mathematics ← No Course Articulated

END OF AGREEMENT

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: College of the Desert
2022-2023 General Catalog, Semester

Computer Science, B.S.

GENERAL INFORMATION

Admission to the Donald Bren School of Information and Computer Science is highly competitive. The most important selection criteria are completion of the required preparatory courses and academic performance. *This major does not participate in the TAG program.*

Required for admission:

Students must have a cumulative GPA of 3.0 and grade of B or higher in all required courses below:

- One year of computer programming courses* in a single object-language (Python, Java, or C++). Object-oriented programming language courses that do not directly articulate to I&C SCI 31-33 can be used to satisfy the admissions requirements. Introduction to computer science courses do not meet this requirement.
- Two semesters/two quarters of approved first-year Calculus
- One additional approved transferable course for the major (an approved math or CS course - see below)

Additional Approved Courses:

- One course in advanced data structures
- One course in machine organization and assembly language (both topics must be covered)
- One course in software engineering
- One course in discrete mathematics
- One course in Boolean algebra
- One course in linear algebra

***NOTE:** Additional computer science courses beyond the two required are strongly recommended, particularly those that align with the major of interest. Our first year of object-oriented programming is taught in Python. C++ and Java are used extensively in the curriculum; therefore, transfer students should plan to learn it by studying on their own or by completing related programming courses prior to their first quarter at UCI.

Additional courses beyond those required for admission must be taken to fulfill the lower-division degree requirements, as many are prerequisites for upper-division courses. For some transfer students, this may mean that it will take longer than two years to complete their degree.

Students should have I&C SCI 31-33 credit first in order to move further into the program here at UCI.

In fulfillment of the requirements below, a single course may be used only once.

For information regarding the [AP and IB examination](#) credit policies refer to the UCI General Catalogue.

MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER

I&C SCI 31 - Introduction to Programming (4.00)

--- And ---

I&C SCI 32 - Programming with Software Libraries (4.00)

--- And ---

I&C SCI 33 - Intermediate Programming (4.00)

- Please refer to additional important General Information section above

← No Course Articulated

MATH 2A - Single-Variable Calculus (4.00)

← MATH 1A - Calculus (4.00)

MATH 2B - Single-Variable Calculus (4.00)

← MATH 1B - Calculus (4.00)

One additional approved transferable course for the major (an approved Math, Science, or CSE course):

- Please refer to additional important General Information section above

← No Course Articulated

ONE ADDITIONAL APPROVED TRANSFERABLE COURSE FOR THE MAJOR (MATH OR CS COURSE)

REFER TO TOP OF AGREEMENT

MATH 3A - Introduction to Linear Algebra (4.00)

← MATH 2B - Linear Algebra (4.00)

--- Or ---

I&C SCI 6N - Computational Linear Algebra (4.00)

← No Course Articulated

I&C SCI 6B - Boolean Logic and Discrete Structures (4.00) ← No Course Articulated

I&C SCI 6D - Discrete Mathematics for Computer Science (4.00) ← No Course Articulated

I&C SCI 45C - Programming in C/C++ as a Second Language (4.00) ← No Course Articulated

I&C SCI 46 - Data Structure Implementation and Analysis (4.00) ← No Course Articulated

I&C SCI 51 - Introductory Computer Organization (6.00) ← No Course Articulated

I&C SCI 53 - Principles in System Design (4.00) ← No Course Articulated

IN4MATX 43 - Introduction to Software Engineering (4.00) ← No Course Articulated

STATS 67 - Introduction to Probability and Statistics for Computer Science (4.00) ← No Course Articulated

Two courses approved for General Education Category II except those related to computing/engineering, economics, or mathematics ← No Course Articulated

END OF AGREEMENT

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: Mt. San Jacinto College
2022-2023 General Catalog, Semester

Computer Science, B.S.

GENERAL INFORMATION

Admission to the Donald Bren School of Information and Computer Science is highly competitive. The most important selection criteria are completion of the required preparatory courses and academic performance. *This major does not participate in the TAG program.*

Required for admission:

Students must have a cumulative GPA of 3.0 and grade of B or higher in all required courses below:

- One year of computer programming courses* in a single object-language (Python, Java, or C++). Object-oriented programming language courses that do not directly articulate to I&C SCI 31-33 can be used to satisfy the admissions requirements. Introduction to computer science courses do not meet this requirement.
- Two semesters/two quarters of approved first-year Calculus
- One additional approved transferable course for the major (an approved math or CS course - see below)

Additional Approved Courses:

- One course in advanced data structures
- One course in machine organization and assembly language (both topics must be covered)
- One course in software engineering
- One course in discrete mathematics
- One course in Boolean algebra
- One course in linear algebra

***NOTE:** Additional computer science courses beyond the two required are strongly recommended, particularly those that align with the major of interest. Our first year of object-oriented programming is taught in Python. C++ and Java are used extensively in the curriculum; therefore, transfer students should plan to learn it by studying on their own or by completing related programming courses prior to their first quarter at UCI.

Additional courses beyond those required for admission must be taken to fulfill the lower-division degree requirements, as many are prerequisites for upper-division courses. For some transfer students, this may mean that it will take longer than two years to complete their degree.

Students should have I&C SCI 31-33 credit first in order to move further into the program here at UCI.

In fulfillment of the requirements below, a single course may be used only once.

For information regarding the [AP and IB examination](#) credit policies refer to the UCI General Catalogue.

MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER

I&C SCI 31 - Introduction to Programming (4.00)

--- And ---

I&C SCI 32 - Programming with Software Libraries (4.00)

--- And ---

I&C SCI 33 - Intermediate Programming (4.00)

- Please refer to additional important General Information section above

← No Course Articulated

MATH 2A - Single-Variable Calculus (4.00)

← **MATH- 211** - Analytic Geometry and Calculus I (4.00)

--- Or ---

MATH- 211H - Honors Analytic Geometry and Calculus I (4.00)

MATH 2B - Single-Variable Calculus (4.00)

← **MATH- 212** - Analytic Geometry and Calculus II (4.00)

--- Or ---

MATH- 212H - Honors Analytic Geometry and Calculus II (4.00)

One additional approved transferable course for the major (an approved Math, Science, or CSE course):

- Please refer to additional important General Information section above

← No Course Articulated

ONE ADDITIONAL APPROVED TRANSFERABLE COURSE FOR THE MAJOR (MATH OR CS COURSE)

REFER TO TOP OF AGREEMENT

MATH 3A - Introduction to Linear Algebra (4.00)	←	MATH- 218 - Linear Algebra (3.00)
--- Or ---		
I&C SCI 6N - Computational Linear Algebra (4.00)	←	No Course Articulated
I&C SCI 6B - Boolean Logic and Discrete Structures (4.00)	←	No Course Articulated
I&C SCI 6D - Discrete Mathematics for Computer Science (4.00)	←	No Course Articulated
I&C SCI 45C - Programming in C/C++ as a Second Language (4.00)	←	No Course Articulated
I&C SCI 46 - Data Structure Implementation and Analysis (4.00)	←	No Course Articulated
I&C SCI 51 - Introductory Computer Organization (6.00)	←	No Course Articulated
I&C SCI 53 - Principles in System Design (4.00)	←	No Course Articulated
IN4MATX 43 - Introduction to Software Engineering (4.00)	←	No Course Articulated
STATS 67 - Introduction to Probability and Statistics for Computer Science (4.00)	←	No Course Articulated
Two courses approved for General Education Category II except those related to computing/engineering, economics, or mathematics	←	No Course Articulated

END OF AGREEMENT

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: Cabrillo College
2022-2023 General Catalog, Semester

Computer Science, B.S.

GENERAL INFORMATION

Admission to the Donald Bren School of Information and Computer Science is highly competitive. The most important selection criteria are completion of the required preparatory courses and academic performance. *This major does not participate in the TAG program.*

Required for admission:

Students must have a cumulative GPA of 3.0 and grade of B or higher in all required courses below:

- One year of computer programming courses* in a single object-language (Python, Java, or C++). Object-oriented programming language courses that do not directly articulate to I&C SCI 31-33 can be used to satisfy the admissions requirements. Introduction to computer science courses do not meet this requirement.
- Two semesters/two quarters of approved first-year Calculus
- One additional approved transferable course for the major (an approved math or CS course - see below)

Additional Approved Courses:

- One course in advanced data structures
- One course in machine organization and assembly language (both topics must be covered)
- One course in software engineering
- One course in discrete mathematics
- One course in Boolean algebra
- One course in linear algebra

***NOTE:** Additional computer science courses beyond the two required are strongly recommended, particularly those that align with the major of interest. Our first year of object-oriented programming is taught in Python. C++ and Java are used extensively in the curriculum; therefore, transfer students should plan to learn it by studying on their own or by completing related programming courses prior to their first quarter at UCI.

Additional courses beyond those required for admission must be taken to fulfill the lower-division degree requirements, as many are prerequisites for upper-division courses. For some transfer students, this may mean that it will take longer than two years to complete their degree.

Students should have I&C SCI 31-33 credit first in order to move further into the program here at UCI.

In fulfillment of the requirements below, a single course may be used only once.

For information regarding the [AP and IB examination](#) credit policies refer to the UCI General Catalogue.

MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER

I&C SCI 31 - Introduction to Programming (4.00)
--- And ---
I&C SCI 32 - Programming with Software Libraries (4.00)
--- And ---
I&C SCI 33 - Intermediate Programming (4.00)
• Please refer to additional important General Information section above

←	CS 12P - Python Introductory Programming Concepts and Methodology (4.00)
--- And ---	
←	CS 20P - Python Programming and Abstractions (4.00)
--- Or ---	
← CS 12J - Introduction to Programming Concepts & Methodology, JAVA (4.00)	
--- And ---	
←	CS 20J - Java Programming (4.00)
--- Or ---	
← CS 11 - Introduction to Programming Concepts and Methodology, C++ (4.00)	
--- And ---	
←	CS 19 - C++ Programming (4.00)
--- Or ---	
← CS 11M - Introduction to C/C++ Programming Using Microcontrollers (4.00)	
--- And ---	
←	CS 19 - C++ Programming (4.00)

MATH 2A - Single-Variable Calculus (4.00)	← MATH 5A - Analytic Geometry and Calculus I (5.00)
MATH 2B - Single-Variable Calculus (4.00)	← MATH 5B - Analytic Geometry and Calculus II (5.00)
One additional approved transferable course for the major (an approved Math, Science, or CSE course):	← No Course Articulated
• Please refer to additional important General Information section above	

ONE ADDITIONAL APPROVED TRANSFERABLE COURSE FOR THE MAJOR (MATH OR CS COURSE)

REFER TO TOP OF AGREEMENT

MATH 3A - Introduction to Linear Algebra (4.00)	← MATH 6 - Introduction to Linear Algebra (3.00)
--- Or ---	
I&C SCI 6N - Computational Linear Algebra (4.00)	← No Course Articulated
--- Or ---	
I&C SCI 6B - Boolean Logic and Discrete Structures (4.00)	← No Course Articulated
I&C SCI 6D - Discrete Mathematics for Computer Science (4.00)	← CS 23 - Discrete Mathematics (4.00) Same-As: MATH 23
--- Or ---	
	MATH 23 - Discrete Mathematics (4.00) Same-As: CS 23
I&C SCI 45C - Programming in C/C++ as a Second Language (4.00)	← No Course Articulated
I&C SCI 46 - Data Structure Implementation and Analysis (4.00)	← No Course Articulated
I&C SCI 51 - Introductory Computer Organization (6.00)	← CS 24 - Elementary Computer Organization (4.00)
I&C SCI 53 - Principles in System Design (4.00)	← No Course Articulated
IN4MATX 43 - Introduction to Software Engineering (4.00)	← No Course Articulated
STATS 67 - Introduction to Probability and Statistics for Computer Science (4.00)	← No Course Articulated
Two courses approved for General Education Category II except those related to computing/engineering, economics, or mathematics	← No Course Articulated

END OF AGREEMENT

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: Coastline Community College
2022-2023 General Catalog, Semester

Computer Science, B.S.

GENERAL INFORMATION

Admission to the Donald Bren School of Information and Computer Science is highly competitive. The most important selection criteria are completion of the required preparatory courses and academic performance. *This major does not participate in the TAG program.*

Required for admission:

Students must have a cumulative GPA of 3.0 and grade of B or higher in all required courses below:

- One year of computer programming courses* in a single object-language (Python, Java, or C++). Object-oriented programming language courses that do not directly articulate to I&C SCI 31-33 can be used to satisfy the admissions requirements. Introduction to computer science courses do not meet this requirement.
- Two semesters/two quarters of approved first-year Calculus
- One additional approved transferable course for the major (an approved math or CS course - see below)

Additional Approved Courses:

- One course in advanced data structures
- One course in machine organization and assembly language (both topics must be covered)
- One course in software engineering
- One course in discrete mathematics
- One course in Boolean algebra
- One course in linear algebra

***NOTE:** Additional computer science courses beyond the two required are strongly recommended, particularly those that align with the major of interest. Our first year of object-oriented programming is taught in Python. C++ and Java are used extensively in the curriculum; therefore, transfer students should plan to learn it by studying on their own or by completing related programming courses prior to their first quarter at UCI.

Additional courses beyond those required for admission must be taken to fulfill the lower-division degree requirements, as many are prerequisites for upper-division courses. For some transfer students, this may mean that it will take longer than two years to complete their degree.

Students should have I&C SCI 31-33 credit first in order to move further into the program here at UCI.

In fulfillment of the requirements below, a single course may be used only once.

For information regarding the [AP and IB examination](#) credit policies refer to the UCI General Catalogue.

MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER

I&C SCI 31 - Introduction to Programming (4.00)

--- And ---

I&C SCI 32 - Programming with Software Libraries (4.00)

--- And ---

I&C SCI 33 - Intermediate Programming (4.00)

- Please refer to additional important General Information section above

← No Course Articulated

MATH 2A - Single-Variable Calculus (4.00)

← MATH C180 - Calculus 1 (5.00)

MATH 2B - Single-Variable Calculus (4.00)

← MATH C185 - Calculus 2 (5.00)

One additional approved transferable course for the major (an approved Math, Science, or CSE course):

- Please refer to additional important General Information section above

← No Course Articulated

ONE ADDITIONAL APPROVED TRANSFERABLE COURSE FOR THE MAJOR (MATH OR CS COURSE)

REFER TO TOP OF AGREEMENT

MATH 3A - Introduction to Linear Algebra (4.00)

← MATH C285 - Introduction to Linear Algebra and Differential Equations (5.00)

--- Or ---

I&C SCI 6N - Computational Linear Algebra (4.00)

← No Course Articulated

I&C SCI 6B - Boolean Logic and Discrete Structures (4.00)	← No Course Articulated
I&C SCI 6D - Discrete Mathematics for Computer Science (4.00)	← No Course Articulated
I&C SCI 45C - Programming in C/C++ as a Second Language (4.00)	← No Course Articulated
I&C SCI 46 - Data Structure Implementation and Analysis (4.00)	← No Course Articulated
I&C SCI 51 - Introductory Computer Organization (6.00)	← No Course Articulated
I&C SCI 53 - Principles in System Design (4.00)	← No Course Articulated
IN4MATX 43 - Introduction to Software Engineering (4.00)	← INFM C143 - Informatics Core Course III (4.00)
STATS 67 - Introduction to Probability and Statistics for Computer Science (4.00)	← No Course Articulated
Two courses approved for General Education Category II except those related to computing/engineering, economics, or mathematics	← No Course Articulated

END OF AGREEMENT

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: Chaffey College
2022-2023 General Catalog, Semester

Computer Science, B.S.

GENERAL INFORMATION

Admission to the Donald Bren School of Information and Computer Science is highly competitive. The most important selection criteria are completion of the required preparatory courses and academic performance. *This major does not participate in the TAG program.*

Required for admission:

Students must have a cumulative GPA of 3.0 and grade of B or higher in all required courses below:

- One year of computer programming courses* in a single object-language (Python, Java, or C++). Object-oriented programming language courses that do not directly articulate to I&C SCI 31-33 can be used to satisfy the admissions requirements. Introduction to computer science courses do not meet this requirement.
- Two semesters/two quarters of approved first-year Calculus
- One additional approved transferable course for the major (an approved math or CS course - see below)

Additional Approved Courses:

- One course in advanced data structures
- One course in machine organization and assembly language (both topics must be covered)
- One course in software engineering
- One course in discrete mathematics
- One course in Boolean algebra
- One course in linear algebra

***NOTE:** Additional computer science courses beyond the two required are strongly recommended, particularly those that align with the major of interest. Our first year of object-oriented programming is taught in Python. C++ and Java are used extensively in the curriculum; therefore, transfer students should plan to learn it by studying on their own or by completing related programming courses prior to their first quarter at UCI.

Additional courses beyond those required for admission must be taken to fulfill the lower-division degree requirements, as many are prerequisites for upper-division courses. For some transfer students, this may mean that it will take longer than two years to complete their degree.

Students should have I&C SCI 31-33 credit first in order to move further into the program here at UCI.

In fulfillment of the requirements below, a single course may be used only once.

For information regarding the [AP and IB examination](#) credit policies refer to the UCI General Catalogue.

MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER

I&C SCI 31 - Introduction to Programming (4.00)

--- And ---

I&C SCI 32 - Programming with Software Libraries (4.00)

--- And ---

I&C SCI 33 - Intermediate Programming (4.00)

- Please refer to additional important General Information section above

COMPSCI 1 - Programming Concepts and Methodology I (3.00)

--- And ---

COMPSCI 2 - Programming Concepts and Methodology II (3.00)

MATH 2A - Single-Variable Calculus (4.00)

← MATH 65A - Calculus I (4.00)

MATH 2B - Single-Variable Calculus (4.00)

← MATH 65B - Calculus II (4.00)

One additional approved transferable course for the major (an approved Math, Science, or CSE course):

← No Course Articulated

- Please refer to additional important General Information section above

ONE ADDITIONAL APPROVED TRANSFERABLE COURSE FOR THE MAJOR (MATH OR CS COURSE)

REFER TO TOP OF AGREEMENT

MATH 3A - Introduction to Linear Algebra (4.00)

← MATH 81 - Linear Algebra (4.00)

--- Or ---

I&C SCI 6N - Computational Linear Algebra (4.00)

← No Course Articulated

I&C SCI 6B - Boolean Logic and Discrete Structures (4.00) ← No Course Articulated

I&C SCI 6D - Discrete Mathematics for Computer Science (4.00) ← No Course Articulated

I&C SCI 45C - Programming in C/C++ as a Second Language (4.00) ← No Course Articulated

I&C SCI 46 - Data Structure Implementation and Analysis (4.00) ← No Course Articulated

I&C SCI 51 - Introductory Computer Organization (6.00) ← No Course Articulated

I&C SCI 53 - Principles in System Design (4.00) ← No Course Articulated

IN4MATX 43 - Introduction to Software Engineering (4.00) ← No Course Articulated

STATS 67 - Introduction to Probability and Statistics for Computer Science (4.00) ← No Course Articulated

Two courses approved for General Education Category II except those related to computing/engineering, economics, or mathematics ← No Course Articulated

END OF AGREEMENT

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: Clovis Community College
2022-2023 General Catalog, Semester

Computer Science, B.S.

GENERAL INFORMATION

Admission to the Donald Bren School of Information and Computer Science is highly competitive. The most important selection criteria are completion of the required preparatory courses and academic performance. *This major does not participate in the TAG program.*

Required for admission:

Students must have a cumulative GPA of 3.0 and grade of B or higher in all required courses below:

- One year of computer programming courses* in a single object-language (Python, Java, or C++). Object-oriented programming language courses that do not directly articulate to I&C SCI 31-33 can be used to satisfy the admissions requirements. Introduction to computer science courses do not meet this requirement.
- Two semesters/two quarters of approved first-year Calculus
- One additional approved transferable course for the major (an approved math or CS course - see below)

Additional Approved Courses:

- One course in advanced data structures
- One course in machine organization and assembly language (both topics must be covered)
- One course in software engineering
- One course in discrete mathematics
- One course in Boolean algebra
- One course in linear algebra

***NOTE:** Additional computer science courses beyond the two required are strongly recommended, particularly those that align with the major of interest. Our first year of object-oriented programming is taught in Python. C++ and Java are used extensively in the curriculum; therefore, transfer students should plan to learn it by studying on their own or by completing related programming courses prior to their first quarter at UCI.

Additional courses beyond those required for admission must be taken to fulfill the lower-division degree requirements, as many are prerequisites for upper-division courses. For some transfer students, this may mean that it will take longer than two years to complete their degree.

Students should have I&C SCI 31-33 credit first in order to move further into the program here at UCI.

In fulfillment of the requirements below, a single course may be used only once.

For information regarding the [AP and IB examination](#) credit policies refer to the UCI General Catalogue.

MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER

I&C SCI 31 - Introduction to Programming (4.00)

--- And ---

I&C SCI 32 - Programming with Software Libraries (4.00)

--- And ---

I&C SCI 33 - Intermediate Programming (4.00)

- Please refer to additional important General Information section above

CSCI 40 - Programming Concepts and Methodology I (4.00)

--- And ---

CSCI 41 - Programming Concepts and Methodology II (4.00)

MATH 2A - Single-Variable Calculus (4.00)

← **MATH 5A** - Math Analysis I (5.00)

MATH 2B - Single-Variable Calculus (4.00)

← **MATH 5B** - Math Analysis II (4.00)

One additional approved transferable course for the major (an approved Math, Science, or CSE course):

← No Course Articulated

- Please refer to additional important General Information section above

ONE ADDITIONAL APPROVED TRANSFERABLE COURSE FOR THE MAJOR (MATH OR CS COURSE)

REFER TO TOP OF AGREEMENT

MATH 3A - Introduction to Linear Algebra (4.00)

← **MATH 17** - Differential Equations and Linear Algebra (5.00)

--- Or ---

I&C SCI 6N - Computational Linear Algebra (4.00)

← No Course Articulated

I&C SCI 6B - Boolean Logic and Discrete Structures (4.00) ← No Course Articulated

I&C SCI 6D - Discrete Mathematics for Computer Science (4.00) ← No Course Articulated

I&C SCI 45C - Programming in C/C++ as a Second Language (4.00) ← No Course Articulated

I&C SCI 46 - Data Structure Implementation and Analysis (4.00) ← No Course Articulated

I&C SCI 51 - Introductory Computer Organization (6.00) ← No Course Articulated

I&C SCI 53 - Principles in System Design (4.00) ← No Course Articulated

IN4MATX 43 - Introduction to Software Engineering (4.00) ← No Course Articulated

STATS 67 - Introduction to Probability and Statistics for Computer Science (4.00) ← No Course Articulated

Two courses approved for General Education Category II except those related to computing/engineering, economics, or mathematics ← No Course Articulated

END OF AGREEMENT

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: Santa Ana College
2022-2023 General Catalog, Semester

Computer Science, B.S.

GENERAL INFORMATION

Admission to the Donald Bren School of Information and Computer Science is highly competitive. The most important selection criteria are completion of the required preparatory courses and academic performance. *This major does not participate in the TAG program.*

Required for admission:

Students must have a cumulative GPA of 3.0 and grade of B or higher in all required courses below:

- One year of computer programming courses* in a single object-language (Python, Java, or C++). Object-oriented programming language courses that do not directly articulate to I&C SCI 31-33 can be used to satisfy the admissions requirements. Introduction to computer science courses do not meet this requirement.
- Two semesters/two quarters of approved first-year Calculus
- One additional approved transferable course for the major (an approved math or CS course - see below)

Additional Approved Courses:

- One course in advanced data structures
- One course in machine organization and assembly language (both topics must be covered)
- One course in software engineering
- One course in discrete mathematics
- One course in Boolean algebra
- One course in linear algebra

***NOTE:** Additional computer science courses beyond the two required are strongly recommended, particularly those that align with the major of interest. Our first year of object-oriented programming is taught in Python. C++ and Java are used extensively in the curriculum; therefore, transfer students should plan to learn it by studying on their own or by completing related programming courses prior to their first quarter at UCI.

Additional courses beyond those required for admission must be taken to fulfill the lower-division degree requirements, as many are prerequisites for upper-division courses. For some transfer students, this may mean that it will take longer than two years to complete their degree.

Students should have I&C SCI 31-33 credit first in order to move further into the program here at UCI.

In fulfillment of the requirements below, a single course may be used only once.

For information regarding the [AP and IB examination](#) credit policies refer to the UCI General Catalogue.

MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER

I&C SCI 31 - Introduction to Programming (4.00)

--- And ---

I&C SCI 32 - Programming with Software Libraries (4.00)

--- And ---

I&C SCI 33 - Intermediate Programming (4.00)

- Please refer to additional important General Information section above

CMPR 112 - JAVA Programming (3.00)

--- And ---

CMPR 113 - Advanced Java (3.00)

--- Or ---

CMPR 120 - Introduction to Programming (3.00)

--- And ---

CMPR 121 - Programming Concepts (3.00)

MATH 2A - Single-Variable Calculus (4.00)

← MATH 180 - Single Variable Calculus I (4.00)

MATH 2B - Single-Variable Calculus (4.00)

← MATH 185 - Single Variable Calculus II (4.00)

One additional approved transferable course for the major (an approved Math, Science, or CSE course):

← No Course Articulated

- Please refer to additional important General Information section above

ONE ADDITIONAL APPROVED TRANSFERABLE COURSE FOR THE MAJOR (MATH OR CS COURSE)

REFER TO TOP OF AGREEMENT

MATH 3A - Introduction to Linear Algebra (4.00)

← **MATH 287** - Introduction to Linear Algebra and Differential Equations (5.00)

--- Or ---

I&C SCI 6N - Computational Linear Algebra (4.00)

← No Course Articulated

I&C SCI 6B - Boolean Logic and Discrete Structures (4.00)

← **CMPR 140** - Discrete Structures for Computer Science (3.00)

I&C SCI 6D - Discrete Mathematics for Computer Science (4.00)

← **CMPR 140** - Discrete Structures for Computer Science (3.00)

I&C SCI 45C - Programming in C/C++ as a Second Language (4.00)

← No Course Articulated

I&C SCI 46 - Data Structure Implementation and Analysis (4.00)

← No Course Articulated

I&C SCI 51 - Introductory Computer Organization (6.00)

← No Course Articulated

I&C SCI 53 - Principles in System Design (4.00)

← No Course Articulated

IN4MATX 43 - Introduction to Software Engineering (4.00)

← No Course Articulated

STATS 67 - Introduction to Probability and Statistics for Computer Science (4.00)

← No Course Articulated

Two courses approved for General Education Category II except those related to computing/engineering, economics, or mathematics ← No Course Articulated

END OF AGREEMENT

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: Laney College
2022-2023 General Catalog, Semester

Computer Science, B.S.

GENERAL INFORMATION

Admission to the Donald Bren School of Information and Computer Science is highly competitive. The most important selection criteria are completion of the required preparatory courses and academic performance. *This major does not participate in the TAG program.*

Required for admission:

Students must have a cumulative GPA of 3.0 and grade of B or higher in all required courses below:

- One year of computer programming courses* in a single object-language (Python, Java, or C++). Object-oriented programming language courses that do not directly articulate to I&C SCI 31-33 can be used to satisfy the admissions requirements. Introduction to computer science courses do not meet this requirement.
- Two semesters/two quarters of approved first-year Calculus
- One additional approved transferable course for the major (an approved math or CS course - see below)

Additional Approved Courses:

- One course in advanced data structures
- One course in machine organization and assembly language (both topics must be covered)
- One course in software engineering
- One course in discrete mathematics
- One course in Boolean algebra
- One course in linear algebra

***NOTE:** Additional computer science courses beyond the two required are strongly recommended, particularly those that align with the major of interest. Our first year of object-oriented programming is taught in Python. C++ and Java are used extensively in the curriculum; therefore, transfer students should plan to learn it by studying on their own or by completing related programming courses prior to their first quarter at UCI.

Additional courses beyond those required for admission must be taken to fulfill the lower-division degree requirements, as many are prerequisites for upper-division courses. For some transfer students, this may mean that it will take longer than two years to complete their degree.

Students should have I&C SCI 31-33 credit first in order to move further into the program here at UCI.

In fulfillment of the requirements below, a single course may be used only once.

For information regarding the [AP and IB examination](#) credit policies refer to the UCI General Catalogue.

MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER

I&C SCI 31 - Introduction to Programming (4.00)

--- And ---

I&C SCI 32 - Programming with Software Libraries (4.00)

--- And ---

I&C SCI 33 - Intermediate Programming (4.00)

- Please refer to additional important General Information section above

← No Course Articulated

MATH 2A - Single-Variable Calculus (4.00)

← **MATH 3A** - Calculus I (5.00)

MATH 2B - Single-Variable Calculus (4.00)

← **MATH 3B** - Calculus II (5.00)

One additional approved transferable course for the major (an approved Math, Science, or CSE course):

- Please refer to additional important General Information section above

← No Course Articulated

ONE ADDITIONAL APPROVED TRANSFERABLE COURSE FOR THE MAJOR (MATH OR CS COURSE)

REFER TO TOP OF AGREEMENT

MATH 3A - Introduction to Linear Algebra (4.00)

← **MATH 3E** - Linear Algebra (3.00)

--- Or ---

I&C SCI 6N - Computational Linear Algebra (4.00)

← No Course Articulated

I&C SCI 6B - Boolean Logic and Discrete Structures (4.00)	← No Course Articulated
I&C SCI 6D - Discrete Mathematics for Computer Science (4.00)	← MATH 11 - Discrete Mathematics (4.00)
I&C SCI 45C - Programming in C/C++ as a Second Language (4.00)	← No Course Articulated
I&C SCI 46 - Data Structure Implementation and Analysis (4.00)	← CIS 27 - Data Structures and Algorithms (4.00)
I&C SCI 51 - Introductory Computer Organization (6.00)	← No Course Articulated
I&C SCI 53 - Principles in System Design (4.00)	← No Course Articulated
IN4MATX 43 - Introduction to Software Engineering (4.00)	← No Course Articulated
STATS 67 - Introduction to Probability and Statistics for Computer Science (4.00)	← No Course Articulated
Two courses approved for General Education Category II except those related to computing/engineering, economics, or mathematics	← No Course Articulated

END OF AGREEMENT

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: Monterey Peninsula College
2022-2023 General Catalog, Semester

Computer Science, B.S.

GENERAL INFORMATION

Admission to the Donald Bren School of Information and Computer Science is highly competitive. The most important selection criteria are completion of the required preparatory courses and academic performance. *This major does not participate in the TAG program.*

Required for admission:

Students must have a cumulative GPA of 3.0 and grade of B or higher in all required courses below:

- One year of computer programming courses* in a single object-language (Python, Java, or C++). Object-oriented programming language courses that do not directly articulate to I&C SCI 31-33 can be used to satisfy the admissions requirements. Introduction to computer science courses do not meet this requirement.
- Two semesters/two quarters of approved first-year Calculus
- One additional approved transferable course for the major (an approved math or CS course - see below)

Additional Approved Courses:

- One course in advanced data structures
- One course in machine organization and assembly language (both topics must be covered)
- One course in software engineering
- One course in discrete mathematics
- One course in Boolean algebra
- One course in linear algebra

***NOTE:** Additional computer science courses beyond the two required are strongly recommended, particularly those that align with the major of interest. Our first year of object-oriented programming is taught in Python. C++ and Java are used extensively in the curriculum; therefore, transfer students should plan to learn it by studying on their own or by completing related programming courses prior to their first quarter at UCI.

Additional courses beyond those required for admission must be taken to fulfill the lower-division degree requirements, as many are prerequisites for upper-division courses. For some transfer students, this may mean that it will take longer than two years to complete their degree.

Students should have I&C SCI 31-33 credit first in order to move further into the program here at UCI.

In fulfillment of the requirements below, a single course may be used only once.

For information regarding the [AP and IB examination](#) credit policies refer to the UCI General Catalogue.

MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER

I&C SCI 31 - Introduction to Programming (4.00)

--- And ---

I&C SCI 32 - Programming with Software Libraries (4.00)

--- And ---

I&C SCI 33 - Intermediate Programming (4.00)

- Please refer to additional important General Information section above

← No Course Articulated

MATH 2A - Single-Variable Calculus (4.00)

← **MATH 20A** - Calculus with Analytic Geometry I (4.00)

MATH 2B - Single-Variable Calculus (4.00)

← **MATH 20B** - Calculus with Analytic Geometry II (4.00)

One additional approved transferable course for the major (an approved Math, Science, or CSE course):

- Please refer to additional important General Information section above

← No Course Articulated

ONE ADDITIONAL APPROVED TRANSFERABLE COURSE FOR THE MAJOR (MATH OR CS COURSE)

REFER TO TOP OF AGREEMENT

MATH 3A - Introduction to Linear Algebra (4.00)

← **MATH 31** - Linear Algebra (4.00)

--- Or ---

I&C SCI 6N - Computational Linear Algebra (4.00)

← No Course Articulated

I&C SCI 6B - Boolean Logic and Discrete Structures (4.00) ← No Course Articulated

I&C SCI 6D - Discrete Mathematics for Computer Science (4.00) ← No Course Articulated

I&C SCI 45C - Programming in C/C++ as a Second Language (4.00) ← No Course Articulated

I&C SCI 46 - Data Structure Implementation and Analysis (4.00) ← No Course Articulated

I&C SCI 51 - Introductory Computer Organization (6.00) ← No Course Articulated

I&C SCI 53 - Principles in System Design (4.00) ← No Course Articulated

IN4MATX 43 - Introduction to Software Engineering (4.00) ← No Course Articulated

STATS 67 - Introduction to Probability and Statistics for Computer Science (4.00) ← No Course Articulated

Two courses approved for General Education Category II except those related to computing/engineering, economics, or mathematics ← No Course Articulated

END OF AGREEMENT

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: Cosumnes River College
2022-2023 General Catalog, Semester

Computer Science, B.S.

GENERAL INFORMATION

Admission to the Donald Bren School of Information and Computer Science is highly competitive. The most important selection criteria are completion of the required preparatory courses and academic performance. *This major does not participate in the TAG program.*

Required for admission:

Students must have a cumulative GPA of 3.0 and grade of B or higher in all required courses below:

- One year of computer programming courses* in a single object-language (Python, Java, or C++). Object-oriented programming language courses that do not directly articulate to I&C SCI 31-33 can be used to satisfy the admissions requirements. Introduction to computer science courses do not meet this requirement.
- Two semesters/two quarters of approved first-year Calculus
- One additional approved transferable course for the major (an approved math or CS course - see below)

Additional Approved Courses:

- One course in advanced data structures
- One course in machine organization and assembly language (both topics must be covered)
- One course in software engineering
- One course in discrete mathematics
- One course in Boolean algebra
- One course in linear algebra

***NOTE:** Additional computer science courses beyond the two required are strongly recommended, particularly those that align with the major of interest. Our first year of object-oriented programming is taught in Python. C++ and Java are used extensively in the curriculum; therefore, transfer students should plan to learn it by studying on their own or by completing related programming courses prior to their first quarter at UCI.

Additional courses beyond those required for admission must be taken to fulfill the lower-division degree requirements, as many are prerequisites for upper-division courses. For some transfer students, this may mean that it will take longer than two years to complete their degree.

Students should have I&C SCI 31-33 credit first in order to move further into the program here at UCI.

In fulfillment of the requirements below, a single course may be used only once.

For information regarding the [AP and IB examination](#) credit policies refer to the UCI General Catalogue.

MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER

I&C SCI 31 - Introduction to Programming (4.00)

--- And ---

I&C SCI 32 - Programming with Software Libraries (4.00)

--- And ---

I&C SCI 33 - Intermediate Programming (4.00)

- Please refer to additional important General Information section above

CISP 360 - Introduction to Structured Programming (4.00)

--- And ---

CISP 400 - Object Oriented Programming with C++ (4.00)

MATH 2A - Single-Variable Calculus (4.00)

← MATH 400 - Calculus I (5.00)

--- Or ---

MATH 355 - Calculus for Biology and Medicine I (4.00)

MATH 2B - Single-Variable Calculus (4.00)

← MATH 401 - Calculus II (5.00)

One additional approved transferable course for the major (an approved Math, Science, or CSE course):

← No Course Articulated

- Please refer to additional important General Information section above

ONE ADDITIONAL APPROVED TRANSFERABLE COURSE FOR THE MAJOR (MATH OR CS COURSE)

REFER TO TOP OF AGREEMENT

MATH 3A - Introduction to Linear Algebra (4.00)	← MATH 410 - Introduction to Linear Algebra (3.00)
--- Or ---	
I&C SCI 6N - Computational Linear Algebra (4.00)	← No Course Articulated
I&C SCI 6B - Boolean Logic and Discrete Structures (4.00)	← CISP 440 - Discrete Structures for Computer Science (3.00)
I&C SCI 6D - Discrete Mathematics for Computer Science (4.00)	← CISP 440 - Discrete Structures for Computer Science (3.00)
I&C SCI 45C - Programming in C/C++ as a Second Language (4.00)	← No Course Articulated
I&C SCI 46 - Data Structure Implementation and Analysis (4.00)	← No Course Articulated
I&C SCI 51 - Introductory Computer Organization (6.00)	← No Course Articulated
I&C SCI 53 - Principles in System Design (4.00)	← No Course Articulated
IN4MATX 43 - Introduction to Software Engineering (4.00)	← No Course Articulated
STATS 67 - Introduction to Probability and Statistics for Computer Science (4.00)	← No Course Articulated
Two courses approved for General Education Category II except those related to computing/engineering, economics, or mathematics	← No Course Articulated

END OF AGREEMENT

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: Saddleback College
2022-2023 General Catalog, Semester

Computer Science, B.S.

GENERAL INFORMATION

Admission to the Donald Bren School of Information and Computer Science is highly competitive. The most important selection criteria are completion of the required preparatory courses and academic performance. *This major does not participate in the TAG program.*

Required for admission:

Students must have a cumulative GPA of 3.0 and grade of B or higher in all required courses below:

- One year of computer programming courses* in a single object-language (Python, Java, or C++). Object-oriented programming language courses that do not directly articulate to I&C SCI 31-33 can be used to satisfy the admissions requirements. Introduction to computer science courses do not meet this requirement.
- Two semesters/two quarters of approved first-year Calculus
- One additional approved transferable course for the major (an approved math or CS course - see below)

Additional Approved Courses:

- One course in advanced data structures
- One course in machine organization and assembly language (both topics must be covered)
- One course in software engineering
- One course in discrete mathematics
- One course in Boolean algebra
- One course in linear algebra

***NOTE:** Additional computer science courses beyond the two required are strongly recommended, particularly those that align with the major of interest. Our first year of object-oriented programming is taught in Python. C++ and Java are used extensively in the curriculum; therefore, transfer students should plan to learn it by studying on their own or by completing related programming courses prior to their first quarter at UCI.

Additional courses beyond those required for admission must be taken to fulfill the lower-division degree requirements, as many are prerequisites for upper-division courses. For some transfer students, this may mean that it will take longer than two years to complete their degree.

Students should have I&C SCI 31-33 credit first in order to move further into the program here at UCI.

In fulfillment of the requirements below, a single course may be used only once.

For information regarding the [AP and IB examination](#) credit policies refer to the UCI General Catalogue.

MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER

I&C SCI 31 - Introduction to Programming (4.00)

--- And ---

I&C SCI 32 - Programming with Software Libraries (4.00)

--- And ---

I&C SCI 33 - Intermediate Programming (4.00)

- Please refer to additional important General Information section above

CS 1A - Introduction to Computer Science I (3.50)

--- And ---

CS 1B - Introduction to Computer Science II (3.50)

--- And ---

CS 1C - Introduction to Computer Science III (3.50)

MATH 2A - Single-Variable Calculus (4.00)



MATH 3A - Analytic Geometry and Calculus (5.00)

--- Or ---

MATH 3AH - Honors Analytic Geometry and Calculus (5.00)

MATH 2B - Single-Variable Calculus (4.00)



MATH 3B - Analytic Geometry and Calculus (5.00)

One additional approved transferable course for the major (an approved Math, Science, or CSE course):

← No Course Articulated

- Please refer to additional important General Information section above

ONE ADDITIONAL APPROVED TRANSFERABLE COURSE FOR THE MAJOR (MATH OR CS COURSE)

REFER TO TOP OF AGREEMENT

MATH 3A - Introduction to Linear Algebra (4.00)	← MATH 26 - Introduction to Linear Algebra (4.00)
---	Or ---
I&C SCI 6N - Computational Linear Algebra (4.00)	← No Course Articulated
I&C SCI 6B - Boolean Logic and Discrete Structures (4.00)	←
	CS 30A - Computer Discrete Mathematics I (3.00) Same-As: MATH 30A --- And --- CS 30B - Computer Discrete Mathematics II (3.00) Same-As: MATH 30B
I&C SCI 6D - Discrete Mathematics for Computer Science (4.00)	←
	CS 30A - Computer Discrete Mathematics I (3.00) Same-As: MATH 30A --- And --- CS 30B - Computer Discrete Mathematics II (3.00) Same-As: MATH 30B
I&C SCI 45C - Programming in C/C++ as a Second Language (4.00)	←
	CS 1A - Introduction to Computer Science I (3.50) --- And --- CS 1B - Introduction to Computer Science II (3.50) --- And --- CS 1C - Introduction to Computer Science III (3.50)
I&C SCI 46 - Data Structure Implementation and Analysis (4.00)	← CS 1D - Data Structures (3.50)
I&C SCI 51 - Introductory Computer Organization (6.00)	←
	CS 3A - Computer Organization and Machine Language (3.50) --- And --- CS 3B - Computer Organization and Assembly Language (3.50)
I&C SCI 53 - Principles in System Design (4.00)	← No Course Articulated
IN4MATX 43 - Introduction to Software Engineering (4.00)	← No Course Articulated
STATS 67 - Introduction to Probability and Statistics for Computer Science (4.00)	← No Course Articulated
Two courses approved for General Education Category II except those related to computing/engineering, economics, or mathematics	← No Course Articulated

END OF AGREEMENT

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: Antelope Valley College
2022-2023 General Catalog, Semester

Computer Science, B.S.

GENERAL INFORMATION

Admission to the Donald Bren School of Information and Computer Science is highly competitive. The most important selection criteria are completion of the required preparatory courses and academic performance. *This major does not participate in the TAG program.*

Required for admission:

Students must have a cumulative GPA of 3.0 and grade of B or higher in all required courses below:

- One year of computer programming courses* in a single object-language (Python, Java, or C++). Object-oriented programming language courses that do not directly articulate to I&C SCI 31-33 can be used to satisfy the admissions requirements. Introduction to computer science courses do not meet this requirement.
- Two semesters/two quarters of approved first-year Calculus
- One additional approved transferable course for the major (an approved math or CS course - see below)

Additional Approved Courses:

- One course in advanced data structures
- One course in machine organization and assembly language (both topics must be covered)
- One course in software engineering
- One course in discrete mathematics
- One course in Boolean algebra
- One course in linear algebra

***NOTE:** Additional computer science courses beyond the two required are strongly recommended, particularly those that align with the major of interest. Our first year of object-oriented programming is taught in Python. C++ and Java are used extensively in the curriculum; therefore, transfer students should plan to learn it by studying on their own or by completing related programming courses prior to their first quarter at UCI.

Additional courses beyond those required for admission must be taken to fulfill the lower-division degree requirements, as many are prerequisites for upper-division courses. For some transfer students, this may mean that it will take longer than two years to complete their degree.

Students should have I&C SCI 31-33 credit first in order to move further into the program here at UCI.

In fulfillment of the requirements below, a single course may be used only once.

For information regarding the [AP and IB examination](#) credit policies refer to the UCI General Catalogue.

MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER

I&C SCI 31 - Introduction to Programming (4.00)

--- And ---

I&C SCI 32 - Programming with Software Libraries (4.00)

--- And ---

I&C SCI 33 - Intermediate Programming (4.00)

- Please refer to additional important General Information section above

CIS 111 - Introduction to Programming and Algorithms (3.00)

--- And ---

CIS 113 - Data Structures (3.00)

MATH 2A - Single-Variable Calculus (4.00)

← **MATH 150** - Calculus and Analytic Geometry (5.00)

MATH 2B - Single-Variable Calculus (4.00)

← **MATH 160** - Calculus and Analytic Geometry (4.00)

One additional approved transferable course for the major (an approved Math, Science, or CSE course):

← No Course Articulated

- Please refer to additional important General Information section above

ONE ADDITIONAL APPROVED TRANSFERABLE COURSE FOR THE MAJOR (MATH OR CS COURSE)

REFER TO TOP OF AGREEMENT

MATH 3A - Introduction to Linear Algebra (4.00)

← **MATH 220** - Linear Algebra (4.00)

--- Or ---

I&C SCI 6N - Computational Linear Algebra (4.00)

← No Course Articulated

I&C SCI 6B - Boolean Logic and Discrete Structures (4.00)

← **CIS 121** - Computer Mathematics (3.00)

I&C SCI 6D - Discrete Mathematics for Computer Science (4.00)

← No Course Articulated

I&C SCI 45C - Programming in C/C++ as a Second Language (4.00)

←

CIS 161 - Introduction to C Programming (3.00)

--- And ---

CIS 173 - Introduction to C++ Programming (3.00)

I&C SCI 46 - Data Structure Implementation and Analysis (4.00)

← No Course Articulated

I&C SCI 51 - Introductory Computer Organization (6.00)

← **CIS 123** - Assembly Language and Computer Architecture (3.00)

I&C SCI 53 - Principles in System Design (4.00)

← No Course Articulated

IN4MATX 43 - Introduction to Software Engineering (4.00)

← No Course Articulated

STATS 67 - Introduction to Probability and Statistics for Computer Science (4.00)

← No Course Articulated

Two courses approved for General Education Category II except those related to computing/engineering, economics, or mathematics

← No Course Articulated

END OF AGREEMENT

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: Las Positas College
2022-2023 General Catalog, Semester

Computer Science, B.S.

GENERAL INFORMATION

Admission to the Donald Bren School of Information and Computer Science is highly competitive. The most important selection criteria are completion of the required preparatory courses and academic performance. *This major does not participate in the TAG program.*

Required for admission:

Students must have a cumulative GPA of 3.0 and grade of B or higher in all required courses below:

- One year of computer programming courses* in a single object-language (Python, Java, or C++). Object-oriented programming language courses that do not directly articulate to I&C SCI 31-33 can be used to satisfy the admissions requirements. Introduction to computer science courses do not meet this requirement.
- Two semesters/two quarters of approved first-year Calculus
- One additional approved transferable course for the major (an approved math or CS course - see below)

Additional Approved Courses:

- One course in advanced data structures
- One course in machine organization and assembly language (both topics must be covered)
- One course in software engineering
- One course in discrete mathematics
- One course in Boolean algebra
- One course in linear algebra

***NOTE:** Additional computer science courses beyond the two required are strongly recommended, particularly those that align with the major of interest. Our first year of object-oriented programming is taught in Python. C++ and Java are used extensively in the curriculum; therefore, transfer students should plan to learn it by studying on their own or by completing related programming courses prior to their first quarter at UCI.

Additional courses beyond those required for admission must be taken to fulfill the lower-division degree requirements, as many are prerequisites for upper-division courses. For some transfer students, this may mean that it will take longer than two years to complete their degree.

Students should have I&C SCI 31-33 credit first in order to move further into the program here at UCI.

In fulfillment of the requirements below, a single course may be used only once.

For information regarding the [AP and IB examination](#) credit policies refer to the UCI General Catalogue.

MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER

I&C SCI 31 - Introduction to Programming (4.00)

--- And ---

I&C SCI 32 - Programming with Software Libraries (4.00)

--- And ---

I&C SCI 33 - Intermediate Programming (4.00)

- Please refer to additional important General Information section above

CS 1 - Computing Fundamentals I (4.00)

--- And ---

CS 2 - Computing Fundamentals II (4.00)

--- And ---

CS 20 - Advanced Programming with Data Structures/C++ (4.00)

MATH 2A - Single-Variable Calculus (4.00)

← MATH 1 - Calculus I (5.00)

MATH 2B - Single-Variable Calculus (4.00)

← MATH 2 - Calculus II (5.00)

One additional approved transferable course for the major (an approved Math, Science, or CSE course):

← No Course Articulated

- Please refer to additional important General Information section above

ONE ADDITIONAL APPROVED TRANSFERABLE COURSE FOR THE MAJOR (MATH OR CS COURSE)

REFER TO TOP OF AGREEMENT

MATH 3A - Introduction to Linear Algebra (4.00)

← MATH 7 - Elementary Linear Algebra (3.50)

--- Or ---

I&C SCI 6N - Computational Linear Algebra (4.00)

← No Course Articulated

I&C SCI 6B - Boolean Logic and Discrete Structures (4.00)

← **CS 17** - Discrete Mathematical Structures (4.00)
Same-As: MATH 10

I&C SCI 6D - Discrete Mathematics for Computer Science (4.00)

← No Course Articulated

I&C SCI 45C - Programming in C/C++ as a Second Language (4.00)

←
CS 1 - Computing Fundamentals I (4.00)
--- And ---
CS 2 - Computing Fundamentals II (4.00)
--- And ---
CS 20 - Advanced Programming with Data Structures/C++ (4.00)

I&C SCI 46 - Data Structure Implementation and Analysis (4.00)

← No Course Articulated

I&C SCI 51 - Introductory Computer Organization (6.00)

← **CS 21** - Computer Organization and Assembly Language Programming (4.00)

I&C SCI 53 - Principles in System Design (4.00)

← No Course Articulated

IN4MATX 43 - Introduction to Software Engineering (4.00)

← No Course Articulated

STATS 67 - Introduction to Probability and Statistics for Computer Science (4.00)

← No Course Articulated

Two courses approved for General Education Category II except those related to computing/engineering, economics, or mathematics ← No Course Articulated

END OF AGREEMENT

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: Glendale Community College
2022-2023 General Catalog, Semester

Computer Science, B.S.

GENERAL INFORMATION

Admission to the Donald Bren School of Information and Computer Science is highly competitive. The most important selection criteria are completion of the required preparatory courses and academic performance. *This major does not participate in the TAG program.*

Required for admission:

Students must have a cumulative GPA of 3.0 and grade of B or higher in all required courses below:

- One year of computer programming courses* in a single object-language (Python, Java, or C++). Object-oriented programming language courses that do not directly articulate to I&C SCI 31-33 can be used to satisfy the admissions requirements. Introduction to computer science courses do not meet this requirement.
- Two semesters/two quarters of approved first-year Calculus
- One additional approved transferable course for the major (an approved math or CS course - see below)

Additional Approved Courses:

- One course in advanced data structures
- One course in machine organization and assembly language (both topics must be covered)
- One course in software engineering
- One course in discrete mathematics
- One course in Boolean algebra
- One course in linear algebra

***NOTE:** Additional computer science courses beyond the two required are strongly recommended, particularly those that align with the major of interest. Our first year of object-oriented programming is taught in Python. C++ and Java are used extensively in the curriculum; therefore, transfer students should plan to learn it by studying on their own or by completing related programming courses prior to their first quarter at UCI.

Additional courses beyond those required for admission must be taken to fulfill the lower-division degree requirements, as many are prerequisites for upper-division courses. For some transfer students, this may mean that it will take longer than two years to complete their degree.

Students should have I&C SCI 31-33 credit first in order to move further into the program here at UCI.

In fulfillment of the requirements below, a single course may be used only once.

For information regarding the [AP and IB examination](#) credit policies refer to the UCI General Catalogue.

MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER

I&C SCI 31 - Introduction to Programming (4.00)

--- And ---

I&C SCI 32 - Programming with Software Libraries (4.00)

--- And ---

I&C SCI 33 - Intermediate Programming (4.00)

- Please refer to additional important General Information section above

CS/IS 135 - Programming in C/C++ (3.00)

--- And ---

CS/IS 137 - C++ and Advanced Topics (4.00)

MATH 2A - Single-Variable Calculus (4.00)

← **MATH 103E** - Calculus and Analytic Geometry I (5.00)

--- Or ---

MATH 103EH - Honors Calculus and Analytic Geometry I (5.00)

MATH 2B - Single-Variable Calculus (4.00)

← **MATH 104E** - Calculus and Analytic Geometry II (5.00)

--- Or ---

MATH 104EH - Honors Calculus and Analytic Geometry II (5.00)

One additional approved transferable course for the major (an approved Math, Science, or CSE course):

- Please refer to additional important General Information section above

← No Course Articulated

ONE ADDITIONAL APPROVED TRANSFERABLE COURSE FOR THE MAJOR (MATH OR CS COURSE)

REFER TO TOP OF AGREEMENT

MATH 3A - Introduction to Linear Algebra (4.00)	←	MATH 107 - Linear Algebra (5.00)
--- Or ---		
MATH 107H - Honors Linear Algebra (5.00)	←	
--- Or ---		
I&C SCI 6N - Computational Linear Algebra (4.00)	←	No Course Articulated
I&C SCI 6B - Boolean Logic and Discrete Structures (4.00)	←	CS/IS 125 - Discrete Structures for Computing (4.00)
I&C SCI 6D - Discrete Mathematics for Computer Science (4.00)	←	No Course Articulated
I&C SCI 45C - Programming in C/C++ as a Second Language (4.00)	←	No Course Articulated
I&C SCI 46 - Data Structure Implementation and Analysis (4.00)	←	CS/IS 211 - Data Structures (4.00) --- And --- CS/IS 212 - Advanced Data Structures (3.00)
I&C SCI 51 - Introductory Computer Organization (6.00)	←	CS/IS 165 - Computer Architecture and Assembly Language (4.00) --- And --- CS/IS 166 - Advanced Computer Architecture and Assembly Language (3.00)
I&C SCI 53 - Principles in System Design (4.00)	←	No Course Articulated
IN4MATX 43 - Introduction to Software Engineering (4.00)	←	No Course Articulated
STATS 67 - Introduction to Probability and Statistics for Computer Science (4.00)	←	No Course Articulated
Two courses approved for General Education Category II except those related to computing/engineering, economics, or mathematics	←	No Course Articulated

END OF AGREEMENT

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: Imperial Valley College
2022-2023 General Catalog, Semester

Computer Science, B.S.

GENERAL INFORMATION

Admission to the Donald Bren School of Information and Computer Science is highly competitive. The most important selection criteria are completion of the required preparatory courses and academic performance. *This major does not participate in the TAG program.*

Required for admission:

Students must have a cumulative GPA of 3.0 and grade of B or higher in all required courses below:

- One year of computer programming courses* in a single object-language (Python, Java, or C++). Object-oriented programming language courses that do not directly articulate to I&C SCI 31-33 can be used to satisfy the admissions requirements. Introduction to computer science courses do not meet this requirement.
- Two semesters/two quarters of approved first-year Calculus
- One additional approved transferable course for the major (an approved math or CS course - see below)

Additional Approved Courses:

- One course in advanced data structures
- One course in machine organization and assembly language (both topics must be covered)
- One course in software engineering
- One course in discrete mathematics
- One course in Boolean algebra
- One course in linear algebra

***NOTE:** Additional computer science courses beyond the two required are strongly recommended, particularly those that align with the major of interest. Our first year of object-oriented programming is taught in Python. C++ and Java are used extensively in the curriculum; therefore, transfer students should plan to learn it by studying on their own or by completing related programming courses prior to their first quarter at UCI.

Additional courses beyond those required for admission must be taken to fulfill the lower-division degree requirements, as many are prerequisites for upper-division courses. For some transfer students, this may mean that it will take longer than two years to complete their degree.

Students should have I&C SCI 31-33 credit first in order to move further into the program here at UCI.

In fulfillment of the requirements below, a single course may be used only once.

For information regarding the [AP and IB examination](#) credit policies refer to the UCI General Catalogue.

MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER

I&C SCI 31 - Introduction to Programming (4.00)

--- And ---

I&C SCI 32 - Programming with Software Libraries (4.00)

--- And ---

I&C SCI 33 - Intermediate Programming (4.00)

- Please refer to additional important General Information section above

← No Course Articulated

MATH 2A - Single-Variable Calculus (4.00)

← **MATH 192** - Analytic Geometry and Calculus I (4.00)

MATH 2B - Single-Variable Calculus (4.00)

← **MATH 194** - Analytic Geometry and Calculus II (4.00)

One additional approved transferable course for the major (an approved Math, Science, or CSE course):

- Please refer to additional important General Information section above

← No Course Articulated

ONE ADDITIONAL APPROVED TRANSFERABLE COURSE FOR THE MAJOR (MATH OR CS COURSE)

REFER TO TOP OF AGREEMENT

MATH 3A - Introduction to Linear Algebra (4.00)

← **MATH 230** - Introduction to Linear Algebra with Applications (3.00)

--- Or ---

I&C SCI 6N - Computational Linear Algebra (4.00)

← No Course Articulated

I&C SCI 6B - Boolean Logic and Discrete Structures (4.00)

← No Course Articulated

I&C SCI 6D - Discrete Mathematics for Computer Science (4.00)

← **MATH 240** - Discrete Mathematics (3.00)

I&C SCI 45C - Programming in C/C++ as a Second Language (4.00)

← No Course Articulated

I&C SCI 46 - Data Structure Implementation and Analysis (4.00)

← No Course Articulated

I&C SCI 51 - Introductory Computer Organization (6.00)

← No Course Articulated

I&C SCI 53 - Principles in System Design (4.00)

← No Course Articulated

IN4MATX 43 - Introduction to Software Engineering (4.00)

← No Course Articulated

STATS 67 - Introduction to Probability and Statistics for Computer Science (4.00)

← No Course Articulated

Two courses approved for General Education Category II except those related to computing/engineering, economics, or mathematics ← No Course Articulated

END OF AGREEMENT

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: Barstow Community College
2022-2023 General Catalog, Semester

Computer Science, B.S.

GENERAL INFORMATION

Admission to the Donald Bren School of Information and Computer Science is highly competitive. The most important selection criteria are completion of the required preparatory courses and academic performance. *This major does not participate in the TAG program.*

Required for admission:

Students must have a cumulative GPA of 3.0 and grade of B or higher in all required courses below:

- One year of computer programming courses* in a single object-language (Python, Java, or C++). Object-oriented programming language courses that do not directly articulate to I&C SCI 31-33 can be used to satisfy the admissions requirements. Introduction to computer science courses do not meet this requirement.
- Two semesters/two quarters of approved first-year Calculus
- One additional approved transferable course for the major (an approved math or CS course - see below)

Additional Approved Courses:

- One course in advanced data structures
- One course in machine organization and assembly language (both topics must be covered)
- One course in software engineering
- One course in discrete mathematics
- One course in Boolean algebra
- One course in linear algebra

***NOTE:** Additional computer science courses beyond the two required are strongly recommended, particularly those that align with the major of interest. Our first year of object-oriented programming is taught in Python. C++ and Java are used extensively in the curriculum; therefore, transfer students should plan to learn it by studying on their own or by completing related programming courses prior to their first quarter at UCI.

Additional courses beyond those required for admission must be taken to fulfill the lower-division degree requirements, as many are prerequisites for upper-division courses. For some transfer students, this may mean that it will take longer than two years to complete their degree.

Students should have I&C SCI 31-33 credit first in order to move further into the program here at UCI.

In fulfillment of the requirements below, a single course may be used only once.

For information regarding the [AP and IB examination](#) credit policies refer to the UCI General Catalogue.

MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER

I&C SCI 31 - Introduction to Programming (4.00)

--- And ---

I&C SCI 32 - Programming with Software Libraries (4.00)

--- And ---

I&C SCI 33 - Intermediate Programming (4.00)

- Please refer to additional important General Information section above

← No Course Articulated

MATH 2A - Single-Variable Calculus (4.00)

← **MATH 4A** - Calculus I (4.00)

MATH 2B - Single-Variable Calculus (4.00)

← **MATH 4B** - Calculus II (4.00)

One additional approved transferable course for the major (an approved Math, Science, or CSE course):

- Please refer to additional important General Information section above

← No Course Articulated

ONE ADDITIONAL APPROVED TRANSFERABLE COURSE FOR THE MAJOR (MATH OR CS COURSE)

REFER TO TOP OF AGREEMENT

MATH 3A - Introduction to Linear Algebra (4.00)

← **MATH 10** - Introduction to Linear Algebra (3.00)

--- Or ---

I&C SCI 6N - Computational Linear Algebra (4.00)

← No Course Articulated

I&C SCI 6B - Boolean Logic and Discrete Structures (4.00) ← No Course Articulated

I&C SCI 6D - Discrete Mathematics for Computer Science (4.00) ← No Course Articulated

I&C SCI 45C - Programming in C/C++ as a Second Language (4.00) ← No Course Articulated

I&C SCI 46 - Data Structure Implementation and Analysis (4.00) ← No Course Articulated

I&C SCI 51 - Introductory Computer Organization (6.00) ← No Course Articulated

I&C SCI 53 - Principles in System Design (4.00) ← No Course Articulated

IN4MATX 43 - Introduction to Software Engineering (4.00) ← No Course Articulated

STATS 67 - Introduction to Probability and Statistics for Computer Science (4.00) ← No Course Articulated

Two courses approved for General Education Category II except those related to computing/engineering, economics, or mathematics ← No Course Articulated

END OF AGREEMENT

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: Taft College
2022-2023 General Catalog, Semester

Computer Science, B.S.

GENERAL INFORMATION

Admission to the Donald Bren School of Information and Computer Science is highly competitive. The most important selection criteria are completion of the required preparatory courses and academic performance. *This major does not participate in the TAG program.*

Required for admission:

Students must have a cumulative GPA of 3.0 and grade of B or higher in all required courses below:

- One year of computer programming courses* in a single object-language (Python, Java, or C++). Object-oriented programming language courses that do not directly articulate to I&C SCI 31-33 can be used to satisfy the admissions requirements. Introduction to computer science courses do not meet this requirement.
- Two semesters/two quarters of approved first-year Calculus
- One additional approved transferable course for the major (an approved math or CS course - see below)

Additional Approved Courses:

- One course in advanced data structures
- One course in machine organization and assembly language (both topics must be covered)
- One course in software engineering
- One course in discrete mathematics
- One course in Boolean algebra
- One course in linear algebra

***NOTE:** Additional computer science courses beyond the two required are strongly recommended, particularly those that align with the major of interest. Our first year of object-oriented programming is taught in Python. C++ and Java are used extensively in the curriculum; therefore, transfer students should plan to learn it by studying on their own or by completing related programming courses prior to their first quarter at UCI.

Additional courses beyond those required for admission must be taken to fulfill the lower-division degree requirements, as many are prerequisites for upper-division courses. For some transfer students, this may mean that it will take longer than two years to complete their degree.

Students should have I&C SCI 31-33 credit first in order to move further into the program here at UCI.

In fulfillment of the requirements below, a single course may be used only once.

For information regarding the [AP and IB examination](#) credit policies refer to the UCI General Catalogue.

MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER

I&C SCI 31 - Introduction to Programming (4.00)

--- And ---

I&C SCI 32 - Programming with Software Libraries (4.00)

--- And ---

I&C SCI 33 - Intermediate Programming (4.00)

- Please refer to additional important General Information section above

← No Course Articulated

MATH 2A - Single-Variable Calculus (4.00)

← **MATH 2100** - Analytic Geometry and Calculus I (5.00)

MATH 2B - Single-Variable Calculus (4.00)

← **MATH 2120** - Analytic Geometry and Calculus II (4.00)

One additional approved transferable course for the major (an approved Math, Science, or CSE course):

- Please refer to additional important General Information section above

← No Course Articulated

ONE ADDITIONAL APPROVED TRANSFERABLE COURSE FOR THE MAJOR (MATH OR CS COURSE)

REFER TO TOP OF AGREEMENT

MATH 3A - Introduction to Linear Algebra (4.00)

← **MATH 2125** - Linear Algebra (4.00)

--- Or ---

I&C SCI 6N - Computational Linear Algebra (4.00)

← No Course Articulated

I&C SCI 6B - Boolean Logic and Discrete Structures (4.00) ← No Course Articulated

I&C SCI 6D - Discrete Mathematics for Computer Science (4.00) ← No Course Articulated

I&C SCI 45C - Programming in C/C++ as a Second Language (4.00) ← No Course Articulated

I&C SCI 46 - Data Structure Implementation and Analysis (4.00) ← No Course Articulated

I&C SCI 51 - Introductory Computer Organization (6.00) ← No Course Articulated

I&C SCI 53 - Principles in System Design (4.00) ← No Course Articulated

IN4MATX 43 - Introduction to Software Engineering (4.00) ← No Course Articulated

STATS 67 - Introduction to Probability and Statistics for Computer Science (4.00) ← No Course Articulated

Two courses approved for General Education Category II except those related to computing/engineering, economics, or mathematics ← No Course Articulated

END OF AGREEMENT

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: Foothill College
2022-2023 General Catalog, Quarter

Computer Science, B.S.

GENERAL INFORMATION

Admission to the Donald Bren School of Information and Computer Science is highly competitive. The most important selection criteria are completion of the required preparatory courses and academic performance. *This major does not participate in the TAG program.*

Required for admission:

Students must have a cumulative GPA of 3.0 and grade of B or higher in all required courses below:

- One year of computer programming courses* in a single object-language (Python, Java, or C++). Object-oriented programming language courses that do not directly articulate to I&C SCI 31-33 can be used to satisfy the admissions requirements. Introduction to computer science courses do not meet this requirement.
- Two semesters/two quarters of approved first-year Calculus
- One additional approved transferable course for the major (an approved math or CS course - see below)

Additional Approved Courses:

- One course in advanced data structures
- One course in machine organization and assembly language (both topics must be covered)
- One course in software engineering
- One course in discrete mathematics
- One course in Boolean algebra
- One course in linear algebra

***NOTE:** Additional computer science courses beyond the two required are strongly recommended, particularly those that align with the major of interest. Our first year of object-oriented programming is taught in Python. C++ and Java are used extensively in the curriculum; therefore, transfer students should plan to learn it by studying on their own or by completing related programming courses prior to their first quarter at UCI.

Additional courses beyond those required for admission must be taken to fulfill the lower-division degree requirements, as many are prerequisites for upper-division courses. For some transfer students, this may mean that it will take longer than two years to complete their degree.

Students should have I&C SCI 31-33 credit first in order to move further into the program here at UCI.

In fulfillment of the requirements below, a single course may be used only once.

For information regarding the [AP and IB examination](#) credit policies refer to the UCI General Catalogue.

MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER

I&C SCI 31 - Introduction to Programming (4.00)

--- And ---

I&C SCI 32 - Programming with Software Libraries (4.00)

--- And ---

I&C SCI 33 - Intermediate Programming (4.00)

- Please refer to additional important General Information section above

C S 3A - Object-Oriented Programming Methodologies in PYTHON (4.50)

--- And ---

C S 3B - Intermediate Software Design in Python (4.50)

--- And ---

C S 3C - Advanced Data Structures & Algorithms in Python (4.50)

MATH 2A - Single-Variable Calculus (4.00)



MATH 1A - Calculus (5.00)

--- Or ---

MATH 1AH - Honors Calculus I (5.00)

MATH 2B - Single-Variable Calculus (4.00)



MATH 1B - Calculus (5.00)

--- Or ---

MATH 1BH - Honors Calculus II (5.00)

One additional approved transferable course for the major (an approved Math, Science, or CSE course):

← No Course Articulated

- Please refer to additional important General Information section above

ONE ADDITIONAL APPROVED TRANSFERABLE COURSE FOR THE MAJOR (MATH OR CS COURSE)

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

MATH 3A - Introduction to Linear Algebra (4.00)	← MATH 2B - Linear Algebra (5.00)
--- Or ---	
I&C SCI 6N - Computational Linear Algebra (4.00)	← No Course Articulated
I&C SCI 6B - Boolean Logic and Discrete Structures (4.00)	← No Course Articulated
I&C SCI 6D - Discrete Mathematics for Computer Science (4.00)	← No Course Articulated
I&C SCI 45C - Programming in C/C++ as a Second Language (4.00)	← No Course Articulated
I&C SCI 46 - Data Structure Implementation and Analysis (4.00)	← C S 2C - Advanced Data Structures & Algorithms in C++ (4.50)
I&C SCI 51 - Introductory Computer Organization (6.00)	← No Course Articulated
I&C SCI 53 - Principles in System Design (4.00)	← No Course Articulated
IN4MATX 43 - Introduction to Software Engineering (4.00)	← C S 40A - Software Engineering Methodologies (4.50)
STATS 67 - Introduction to Probability and Statistics for Computer Science (4.00)	← No Course Articulated
Two courses approved for General Education Category II except those related to computing/engineering, economics, or mathematics	← No Course Articulated

END OF AGREEMENT

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: Mission College
2022-2023 General Catalog, Semester

Computer Science, B.S.

GENERAL INFORMATION

Admission to the Donald Bren School of Information and Computer Science is highly competitive. The most important selection criteria are completion of the required preparatory courses and academic performance. *This major does not participate in the TAG program.*

Required for admission:

Students must have a cumulative GPA of 3.0 and grade of B or higher in all required courses below:

- One year of computer programming courses* in a single object-language (Python, Java, or C++). Object-oriented programming language courses that do not directly articulate to I&C SCI 31-33 can be used to satisfy the admissions requirements. Introduction to computer science courses do not meet this requirement.
- Two semesters/two quarters of approved first-year Calculus
- One additional approved transferable course for the major (an approved math or CS course - see below)

Additional Approved Courses:

- One course in advanced data structures
- One course in machine organization and assembly language (both topics must be covered)
- One course in software engineering
- One course in discrete mathematics
- One course in Boolean algebra
- One course in linear algebra

***NOTE:** Additional computer science courses beyond the two required are strongly recommended, particularly those that align with the major of interest. Our first year of object-oriented programming is taught in Python. C++ and Java are used extensively in the curriculum; therefore, transfer students should plan to learn it by studying on their own or by completing related programming courses prior to their first quarter at UCI.

Additional courses beyond those required for admission must be taken to fulfill the lower-division degree requirements, as many are prerequisites for upper-division courses. For some transfer students, this may mean that it will take longer than two years to complete their degree.

Students should have I&C SCI 31-33 credit first in order to move further into the program here at UCI.

In fulfillment of the requirements below, a single course may be used only once.

For information regarding the [AP and IB examination](#) credit policies refer to the UCI General Catalogue.

MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER

I&C SCI 31 - Introduction to Programming (4.00)

--- And ---

I&C SCI 32 - Programming with Software Libraries (4.00)

--- And ---

I&C SCI 33 - Intermediate Programming (4.00)

- Please refer to additional important General Information section above

CIS 043 - Software Development with Java Programming (4.00)

--- And ---

CIS 044 - Introduction to Data Structures Using Java (4.00)

--- Or ---

CIS 007 - Python Programming (4.00)

--- And ---

CIS 008 - Advanced Python Programming (4.00)

- Articulates with the first two courses in the series only

MATH 2A - Single-Variable Calculus (4.00)

← **MAT 003A** - Analytic Geometry and Calculus I (5.00)

--- Or ---

MAT 003AH - Analytic Geometry and Calculus I - Honors (5.00)

MATH 2B - Single-Variable Calculus (4.00)

← **MAT 003B** - Analytic Geometry and Calculus II (5.00)

One additional approved transferable course for the major (an approved Math, Science, or CSE course):

- Please refer to additional important General Information section above

← No Course Articulated

ONE ADDITIONAL APPROVED TRANSFERABLE COURSE FOR THE MAJOR (MATH OR CS COURSE)

REFER TO TOP OF AGREEMENT

MATH 3A - Introduction to Linear Algebra (4.00)	←	MAT 004C - Linear Algebra (4.00)
--- Or ---		
I&C SCI 6N - Computational Linear Algebra (4.00)	←	No Course Articulated
I&C SCI 6B - Boolean Logic and Discrete Structures (4.00)	←	No Course Articulated
I&C SCI 6D - Discrete Mathematics for Computer Science (4.00)	←	No Course Articulated
I&C SCI 45C - Programming in C/C++ as a Second Language (4.00)	←	No Course Articulated
I&C SCI 46 - Data Structure Implementation and Analysis (4.00)	←	No Course Articulated
I&C SCI 51 - Introductory Computer Organization (6.00)	←	No Course Articulated
I&C SCI 53 - Principles in System Design (4.00)	←	No Course Articulated
IN4MATX 43 - Introduction to Software Engineering (4.00)	←	No Course Articulated
STATS 67 - Introduction to Probability and Statistics for Computer Science (4.00)	←	No Course Articulated
Two courses approved for General Education Category II except those related to computing/engineering, economics, or mathematics	←	No Course Articulated

END OF AGREEMENT

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: West Hills College Coalinga
2022-2023 General Catalog, Semester

Computer Science, B.S.

GENERAL INFORMATION

Admission to the Donald Bren School of Information and Computer Science is highly competitive. The most important selection criteria are completion of the required preparatory courses and academic performance. *This major does not participate in the TAG program.*

Required for admission:

Students must have a cumulative GPA of 3.0 and grade of B or higher in all required courses below:

- One year of computer programming courses* in a single object-language (Python, Java, or C++). Object-oriented programming language courses that do not directly articulate to I&C SCI 31-33 can be used to satisfy the admissions requirements. Introduction to computer science courses do not meet this requirement.
- Two semesters/two quarters of approved first-year Calculus
- One additional approved transferable course for the major (an approved math or CS course - see below)

Additional Approved Courses:

- One course in advanced data structures
- One course in machine organization and assembly language (both topics must be covered)
- One course in software engineering
- One course in discrete mathematics
- One course in Boolean algebra
- One course in linear algebra

***NOTE:** Additional computer science courses beyond the two required are strongly recommended, particularly those that align with the major of interest. Our first year of object-oriented programming is taught in Python. C++ and Java are used extensively in the curriculum; therefore, transfer students should plan to learn it by studying on their own or by completing related programming courses prior to their first quarter at UCI.

Additional courses beyond those required for admission must be taken to fulfill the lower-division degree requirements, as many are prerequisites for upper-division courses. For some transfer students, this may mean that it will take longer than two years to complete their degree.

Students should have I&C SCI 31-33 credit first in order to move further into the program here at UCI.

In fulfillment of the requirements below, a single course may be used only once.

For information regarding the [AP and IB examination](#) credit policies refer to the UCI General Catalogue.

MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER

I&C SCI 31 - Introduction to Programming (4.00)

--- And ---

I&C SCI 32 - Programming with Software Libraries (4.00)

--- And ---

I&C SCI 33 - Intermediate Programming (4.00)

- Please refer to additional important General Information section above

← No Course Articulated

MATH 2A - Single-Variable Calculus (4.00)

← **MATH 001A** - Introduction to Calculus (5.00)

MATH 2B - Single-Variable Calculus (4.00)

← **MATH 001B** - Calculus With Applications (5.00)

One additional approved transferable course for the major (an approved Math, Science, or CSE course):

- Please refer to additional important General Information section above

← No Course Articulated

ONE ADDITIONAL APPROVED TRANSFERABLE COURSE FOR THE MAJOR (MATH OR CS COURSE)

REFER TO TOP OF AGREEMENT

MATH 3A - Introduction to Linear Algebra (4.00)

← No Course Articulated

--- Or ---

I&C SCI 6N - Computational Linear Algebra (4.00)

← No Course Articulated

I&C SCI 6B - Boolean Logic and Discrete Structures (4.00) ← No Course Articulated

I&C SCI 6D - Discrete Mathematics for Computer Science (4.00) ← No Course Articulated

I&C SCI 45C - Programming in C/C++ as a Second Language (4.00) ← No Course Articulated

I&C SCI 46 - Data Structure Implementation and Analysis (4.00) ← No Course Articulated

I&C SCI 51 - Introductory Computer Organization (6.00) ← No Course Articulated

I&C SCI 53 - Principles in System Design (4.00) ← No Course Articulated

IN4MATX 43 - Introduction to Software Engineering (4.00) ← No Course Articulated

STATS 67 - Introduction to Probability and Statistics for Computer Science (4.00) ← No Course Articulated

Two courses approved for General Education Category II except those related to computing/engineering, economics, or mathematics ← No Course Articulated

END OF AGREEMENT

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: Hartnell College
2022-2023 General Catalog, Semester

Computer Science, B.S.

GENERAL INFORMATION

Admission to the Donald Bren School of Information and Computer Science is highly competitive. The most important selection criteria are completion of the required preparatory courses and academic performance. *This major does not participate in the TAG program.*

Required for admission:

Students must have a cumulative GPA of 3.0 and grade of B or higher in all required courses below:

- One year of computer programming courses* in a single object-language (Python, Java, or C++). Object-oriented programming language courses that do not directly articulate to I&C SCI 31-33 can be used to satisfy the admissions requirements. Introduction to computer science courses do not meet this requirement.
- Two semesters/two quarters of approved first-year Calculus
- One additional approved transferable course for the major (an approved math or CS course - see below)

Additional Approved Courses:

- One course in advanced data structures
- One course in machine organization and assembly language (both topics must be covered)
- One course in software engineering
- One course in discrete mathematics
- One course in Boolean algebra
- One course in linear algebra

***NOTE:** Additional computer science courses beyond the two required are strongly recommended, particularly those that align with the major of interest. Our first year of object-oriented programming is taught in Python. C++ and Java are used extensively in the curriculum; therefore, transfer students should plan to learn it by studying on their own or by completing related programming courses prior to their first quarter at UCI.

Additional courses beyond those required for admission must be taken to fulfill the lower-division degree requirements, as many are prerequisites for upper-division courses. For some transfer students, this may mean that it will take longer than two years to complete their degree.

Students should have I&C SCI 31-33 credit first in order to move further into the program here at UCI.

In fulfillment of the requirements below, a single course may be used only once.

For information regarding the [AP and IB examination](#) credit policies refer to the UCI General Catalogue.

MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER

I&C SCI 31 - Introduction to Programming (4.00)

--- And ---

I&C SCI 32 - Programming with Software Libraries (4.00)

--- And ---

I&C SCI 33 - Intermediate Programming (4.00)

- Please refer to additional important General Information section above

← No Course Articulated

MATH 2A - Single-Variable Calculus (4.00)

← **MAT 3A** - Analytic Geometry and Calculus I (4.00)

MATH 2B - Single-Variable Calculus (4.00)

← **MAT 3B** - Analytic Geometry and Calculus II (4.00)

One additional approved transferable course for the major (an approved Math, Science, or CSE course):

- Please refer to additional important General Information section above

← No Course Articulated

ONE ADDITIONAL APPROVED TRANSFERABLE COURSE FOR THE MAJOR (MATH OR CS COURSE)

REFER TO TOP OF AGREEMENT

MATH 3A - Introduction to Linear Algebra (4.00)

← **MAT 4** - Linear Algebra (3.00)

--- Or ---

I&C SCI 6N - Computational Linear Algebra (4.00)

← No Course Articulated

I&C SCI 6B - Boolean Logic and Discrete Structures (4.00) ← No Course Articulated

I&C SCI 6D - Discrete Mathematics for Computer Science (4.00) ← No Course Articulated

I&C SCI 45C - Programming in C/C++ as a Second Language (4.00) ← No Course Articulated

I&C SCI 46 - Data Structure Implementation and Analysis (4.00) ← No Course Articulated

I&C SCI 51 - Introductory Computer Organization (6.00) ← No Course Articulated

I&C SCI 53 - Principles in System Design (4.00) ← No Course Articulated

IN4MATX 43 - Introduction to Software Engineering (4.00) ← No Course Articulated

STATS 67 - Introduction to Probability and Statistics for Computer Science (4.00) ← No Course Articulated

Two courses approved for General Education Category II except those related to computing/engineering, economics, or mathematics ← No Course Articulated

END OF AGREEMENT

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: College of the Canyons
2022-2023 General Catalog, Semester

Computer Science, B.S.

GENERAL INFORMATION

Admission to the Donald Bren School of Information and Computer Science is highly competitive. The most important selection criteria are completion of the required preparatory courses and academic performance. *This major does not participate in the TAG program.*

Required for admission:

Students must have a cumulative GPA of 3.0 and grade of B or higher in all required courses below:

- One year of computer programming courses* in a single object-language (Python, Java, or C++). Object-oriented programming language courses that do not directly articulate to I&C SCI 31-33 can be used to satisfy the admissions requirements. Introduction to computer science courses do not meet this requirement.
- Two semesters/two quarters of approved first-year Calculus
- One additional approved transferable course for the major (an approved math or CS course - see below)

Additional Approved Courses:

- One course in advanced data structures
- One course in machine organization and assembly language (both topics must be covered)
- One course in software engineering
- One course in discrete mathematics
- One course in Boolean algebra
- One course in linear algebra

***NOTE:** Additional computer science courses beyond the two required are strongly recommended, particularly those that align with the major of interest. Our first year of object-oriented programming is taught in Python. C++ and Java are used extensively in the curriculum; therefore, transfer students should plan to learn it by studying on their own or by completing related programming courses prior to their first quarter at UCI.

Additional courses beyond those required for admission must be taken to fulfill the lower-division degree requirements, as many are prerequisites for upper-division courses. For some transfer students, this may mean that it will take longer than two years to complete their degree.

Students should have I&C SCI 31-33 credit first in order to move further into the program here at UCI.

In fulfillment of the requirements below, a single course may be used only once.

For information regarding the [AP and IB examination](#) credit policies refer to the UCI General Catalogue.

MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER

I&C SCI 31 - Introduction to Programming (4.00)

--- And ---

I&C SCI 32 - Programming with Software Libraries (4.00)

--- And ---

I&C SCI 33 - Intermediate Programming (4.00)

- Please refer to additional important General Information section above

← No Course Articulated

MATH 2A - Single-Variable Calculus (4.00)

← **MATH 211** - Calculus I (5.00)

MATH 2B - Single-Variable Calculus (4.00)

← **MATH 212** - Calculus II (5.00)

One additional approved transferable course for the major (an approved Math, Science, or CSE course):

- Please refer to additional important General Information section above

← No Course Articulated

ONE ADDITIONAL APPROVED TRANSFERABLE COURSE FOR THE MAJOR (MATH OR CS COURSE)

REFER TO TOP OF AGREEMENT

MATH 3A - Introduction to Linear Algebra (4.00)

← **MATH 214** - Linear Algebra (4.00)

--- Or ---

I&C SCI 6N - Computational Linear Algebra (4.00)

← No Course Articulated

I&C SCI 6B - Boolean Logic and Discrete Structures (4.00) ← No Course Articulated

I&C SCI 6D - Discrete Mathematics for Computer Science (4.00) ← No Course Articulated

I&C SCI 45C - Programming in C/C++ as a Second Language (4.00) ← No Course Articulated

I&C SCI 46 - Data Structure Implementation and Analysis (4.00) ← No Course Articulated

I&C SCI 51 - Introductory Computer Organization (6.00) ← No Course Articulated

I&C SCI 53 - Principles in System Design (4.00) ← No Course Articulated

IN4MATX 43 - Introduction to Software Engineering (4.00) ← No Course Articulated

STATS 67 - Introduction to Probability and Statistics for Computer Science (4.00) ← No Course Articulated

Two courses approved for General Education Category II except those related to computing/engineering, economics, or mathematics ← No Course Articulated

END OF AGREEMENT

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: San Bernardino Valley College
2022-2023 General Catalog, Semester

Computer Science, B.S.

GENERAL INFORMATION

Admission to the Donald Bren School of Information and Computer Science is highly competitive. The most important selection criteria are completion of the required preparatory courses and academic performance. *This major does not participate in the TAG program.*

Required for admission:

Students must have a cumulative GPA of 3.0 and grade of B or higher in all required courses below:

- One year of computer programming courses* in a single object-language (Python, Java, or C++). Object-oriented programming language courses that do not directly articulate to I&C SCI 31-33 can be used to satisfy the admissions requirements. Introduction to computer science courses do not meet this requirement.
- Two semesters/two quarters of approved first-year Calculus
- One additional approved transferable course for the major (an approved math or CS course - see below)

Additional Approved Courses:

- One course in advanced data structures
- One course in machine organization and assembly language (both topics must be covered)
- One course in software engineering
- One course in discrete mathematics
- One course in Boolean algebra
- One course in linear algebra

***NOTE:** Additional computer science courses beyond the two required are strongly recommended, particularly those that align with the major of interest. Our first year of object-oriented programming is taught in Python. C++ and Java are used extensively in the curriculum; therefore, transfer students should plan to learn it by studying on their own or by completing related programming courses prior to their first quarter at UCI.

Additional courses beyond those required for admission must be taken to fulfill the lower-division degree requirements, as many are prerequisites for upper-division courses. For some transfer students, this may mean that it will take longer than two years to complete their degree.

Students should have I&C SCI 31-33 credit first in order to move further into the program here at UCI.

In fulfillment of the requirements below, a single course may be used only once.

For information regarding the [AP and IB examination](#) credit policies refer to the UCI General Catalogue.

MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER

I&C SCI 31 - Introduction to Programming (4.00)

--- And ---

I&C SCI 32 - Programming with Software Libraries (4.00)

--- And ---

I&C SCI 33 - Intermediate Programming (4.00)

- Please refer to additional important General Information section above

← **CS 102** - Introduction to Python Programming (3.00)

- Articulates with the first course in the series only

MATH 2A - Single-Variable Calculus (4.00)

← **MATH 250** - Single Variable Calculus I (4.00)

MATH 2B - Single-Variable Calculus (4.00)

← **MATH 251** - Single Variable Calculus II (4.00)

One additional approved transferable course for the major (an approved Math, Science, or CSE course):

← No Course Articulated

- Please refer to additional important General Information section above

ONE ADDITIONAL APPROVED TRANSFERABLE COURSE FOR THE MAJOR (MATH OR CS COURSE)

REFER TO TOP OF AGREEMENT

MATH 3A - Introduction to Linear Algebra (4.00)

← **MATH 265** - Linear Algebra (4.00)

--- Or ---

I&C SCI 6N - Computational Linear Algebra (4.00)

← No Course Articulated

I&C SCI 6B - Boolean Logic and Discrete Structures (4.00)

← No Course Articulated

I&C SCI 6D - Discrete Mathematics for Computer Science (4.00)

← No Course Articulated

I&C SCI 45C - Programming in C/C++ as a Second Language (4.00)

← **CS 190** - Programming in C++ (4.00)

I&C SCI 46 - Data Structure Implementation and Analysis (4.00)

← No Course Articulated

I&C SCI 51 - Introductory Computer Organization (6.00)

← No Course Articulated

I&C SCI 53 - Principles in System Design (4.00)

← No Course Articulated

IN4MATX 43 - Introduction to Software Engineering (4.00)

← No Course Articulated

STATS 67 - Introduction to Probability and Statistics for Computer Science (4.00)

← No Course Articulated

Two courses approved for General Education Category II except those related to computing/engineering, economics, or mathematics ← No Course Articulated

END OF AGREEMENT

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: Cuesta College
2022-2023 General Catalog, Semester

Computer Science, B.S.

GENERAL INFORMATION

Admission to the Donald Bren School of Information and Computer Science is highly competitive. The most important selection criteria are completion of the required preparatory courses and academic performance. *This major does not participate in the TAG program.*

Required for admission:

Students must have a cumulative GPA of 3.0 and grade of B or higher in all required courses below:

- One year of computer programming courses* in a single object-language (Python, Java, or C++). Object-oriented programming language courses that do not directly articulate to I&C SCI 31-33 can be used to satisfy the admissions requirements. Introduction to computer science courses do not meet this requirement.
- Two semesters/two quarters of approved first-year Calculus
- One additional approved transferable course for the major (an approved math or CS course - see below)

Additional Approved Courses:

- One course in advanced data structures
- One course in machine organization and assembly language (both topics must be covered)
- One course in software engineering
- One course in discrete mathematics
- One course in Boolean algebra
- One course in linear algebra

***NOTE:** Additional computer science courses beyond the two required are strongly recommended, particularly those that align with the major of interest. Our first year of object-oriented programming is taught in Python. C++ and Java are used extensively in the curriculum; therefore, transfer students should plan to learn it by studying on their own or by completing related programming courses prior to their first quarter at UCI.

Additional courses beyond those required for admission must be taken to fulfill the lower-division degree requirements, as many are prerequisites for upper-division courses. For some transfer students, this may mean that it will take longer than two years to complete their degree.

Students should have I&C SCI 31-33 credit first in order to move further into the program here at UCI.

In fulfillment of the requirements below, a single course may be used only once.

For information regarding the [AP and IB examination](#) credit policies refer to the UCI General Catalogue.

MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER

I&C SCI 31 - Introduction to Programming (4.00)

--- And ---

I&C SCI 32 - Programming with Software Libraries (4.00)

--- And ---

I&C SCI 33 - Intermediate Programming (4.00)

- Please refer to additional important General Information section above

← No Course Articulated

MATH 2A - Single-Variable Calculus (4.00)

← **MATH 265A** - Calculus I (5.00)

MATH 2B - Single-Variable Calculus (4.00)

← **MATH 265B** - Calculus II (5.00)

One additional approved transferable course for the major (an approved Math, Science, or CSE course):

- Please refer to additional important General Information section above

← No Course Articulated

ONE ADDITIONAL APPROVED TRANSFERABLE COURSE FOR THE MAJOR (MATH OR CS COURSE)

REFER TO TOP OF AGREEMENT

MATH 3A - Introduction to Linear Algebra (4.00)

← **MATH 287** - Ordinary Differential Equations and Linear Algebra (5.00)

--- Or ---

I&C SCI 6N - Computational Linear Algebra (4.00)

← No Course Articulated

I&C SCI 6B - Boolean Logic and Discrete Structures (4.00)	← No Course Articulated
I&C SCI 6D - Discrete Mathematics for Computer Science (4.00)	← CIS 241 - Discrete Structures (3.00)
I&C SCI 45C - Programming in C/C++ as a Second Language (4.00)	← No Course Articulated
I&C SCI 46 - Data Structure Implementation and Analysis (4.00)	← CIS 233 - Fundamentals of Computer Science III (2.00)
I&C SCI 51 - Introductory Computer Organization (6.00)	← No Course Articulated
I&C SCI 53 - Principles in System Design (4.00)	← No Course Articulated
IN4MATX 43 - Introduction to Software Engineering (4.00)	← No Course Articulated
STATS 67 - Introduction to Probability and Statistics for Computer Science (4.00)	← No Course Articulated
Two courses approved for General Education Category II except those related to computing/engineering, economics, or mathematics	← No Course Articulated

END OF AGREEMENT

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: Los Angeles Pierce College
2022-2023 General Catalog, Semester

Computer Science, B.S.

GENERAL INFORMATION

Admission to the Donald Bren School of Information and Computer Science is highly competitive. The most important selection criteria are completion of the required preparatory courses and academic performance. *This major does not participate in the TAG program.*

Required for admission:

Students must have a cumulative GPA of 3.0 and grade of B or higher in all required courses below:

- One year of computer programming courses* in a single object-language (Python, Java, or C++). Object-oriented programming language courses that do not directly articulate to I&C SCI 31-33 can be used to satisfy the admissions requirements. Introduction to computer science courses do not meet this requirement.
- Two semesters/two quarters of approved first-year Calculus
- One additional approved transferable course for the major (an approved math or CS course - see below)

Additional Approved Courses:

- One course in advanced data structures
- One course in machine organization and assembly language (both topics must be covered)
- One course in software engineering
- One course in discrete mathematics
- One course in Boolean algebra
- One course in linear algebra

***NOTE:** Additional computer science courses beyond the two required are strongly recommended, particularly those that align with the major of interest. Our first year of object-oriented programming is taught in Python. C++ and Java are used extensively in the curriculum; therefore, transfer students should plan to learn it by studying on their own or by completing related programming courses prior to their first quarter at UCI.

Additional courses beyond those required for admission must be taken to fulfill the lower-division degree requirements, as many are prerequisites for upper-division courses. For some transfer students, this may mean that it will take longer than two years to complete their degree.

Students should have I&C SCI 31-33 credit first in order to move further into the program here at UCI.

In fulfillment of the requirements below, a single course may be used only once.

For information regarding the [AP and IB examination](#) credit policies refer to the UCI General Catalogue.

MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER

I&C SCI 31 - Introduction to Programming (4.00)

--- And ---

I&C SCI 32 - Programming with Software Libraries (4.00)

--- And ---

I&C SCI 33 - Intermediate Programming (4.00)

- Please refer to additional important General Information section above

CS 116 - Programming in C++ (3.00)

--- And ---

CS 216 - Object-Oriented Programming in C++ (3.00)

MATH 2A - Single-Variable Calculus (4.00)

← MATH 261 - Calculus I (5.00)

MATH 2B - Single-Variable Calculus (4.00)

← MATH 262 - Calculus II (5.00)

One additional approved transferable course for the major (an approved Math, Science, or CSE course):

← No Course Articulated

- Please refer to additional important General Information section above

ONE ADDITIONAL APPROVED TRANSFERABLE COURSE FOR THE MAJOR (MATH OR CS COURSE)

REFER TO TOP OF AGREEMENT

MATH 3A - Introduction to Linear Algebra (4.00)

← MATH 270 - Linear Algebra (3.00)

--- Or ---

I&C SCI 6N - Computational Linear Algebra (4.00)	← No Course Articulated
I&C SCI 6B - Boolean Logic and Discrete Structures (4.00)	← No Course Articulated
I&C SCI 6D - Discrete Mathematics for Computer Science (4.00)	← CS 131 - Discrete Structures for Computer Science (3.00)
I&C SCI 45C - Programming in C/C++ as a Second Language (4.00)	← CS 236 - Advanced Data Structures and Introduction to Databases (3.00) --- And --- CS 136 - Introduction to Data Structures (3.00)
I&C SCI 46 - Data Structure Implementation and Analysis (4.00)	← CS 236 - Advanced Data Structures and Introduction to Databases (3.00) --- And --- CS 136 - Introduction to Data Structures (3.00)
I&C SCI 51 - Introductory Computer Organization (6.00)	← CS 130 - Introduction to Computer Architecture and Organization (3.00) --- And --- CS 230 - Advanced Computer Architecture and Organization (3.00)
I&C SCI 53 - Principles in System Design (4.00)	← No Course Articulated
IN4MATX 43 - Introduction to Software Engineering (4.00)	← No Course Articulated
STATS 67 - Introduction to Probability and Statistics for Computer Science (4.00)	← No Course Articulated
Two courses approved for General Education Category II except those related to computing/engineering, economics, or mathematics	← No Course Articulated

END OF AGREEMENT

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: Solano Community College
2022-2023 General Catalog, Semester

Computer Science, B.S.

GENERAL INFORMATION

Admission to the Donald Bren School of Information and Computer Science is highly competitive. The most important selection criteria are completion of the required preparatory courses and academic performance. *This major does not participate in the TAG program.*

Required for admission:

Students must have a cumulative GPA of 3.0 and grade of B or higher in all required courses below:

- One year of computer programming courses* in a single object-language (Python, Java, or C++). Object-oriented programming language courses that do not directly articulate to I&C SCI 31-33 can be used to satisfy the admissions requirements. Introduction to computer science courses do not meet this requirement.
- Two semesters/two quarters of approved first-year Calculus
- One additional approved transferable course for the major (an approved math or CS course - see below)

Additional Approved Courses:

- One course in advanced data structures
- One course in machine organization and assembly language (both topics must be covered)
- One course in software engineering
- One course in discrete mathematics
- One course in Boolean algebra
- One course in linear algebra

***NOTE:** Additional computer science courses beyond the two required are strongly recommended, particularly those that align with the major of interest. Our first year of object-oriented programming is taught in Python. C++ and Java are used extensively in the curriculum; therefore, transfer students should plan to learn it by studying on their own or by completing related programming courses prior to their first quarter at UCI.

Additional courses beyond those required for admission must be taken to fulfill the lower-division degree requirements, as many are prerequisites for upper-division courses. For some transfer students, this may mean that it will take longer than two years to complete their degree.

Students should have I&C SCI 31-33 credit first in order to move further into the program here at UCI.

In fulfillment of the requirements below, a single course may be used only once.

For information regarding the [AP and IB examination](#) credit policies refer to the UCI General Catalogue.

MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER

I&C SCI 31 - Introduction to Programming (4.00)

--- And ---

I&C SCI 32 - Programming with Software Libraries (4.00)

--- And ---

I&C SCI 33 - Intermediate Programming (4.00)

- Please refer to additional important General Information section above

← No Course Articulated

MATH 2A - Single-Variable Calculus (4.00)

← **MATH 020** - Analytic Geometry and Calculus I (5.00)

--- Or ---

MATH 030 - Business Calculus I (3.00)

MATH 2B - Single-Variable Calculus (4.00)

← **MATH 021** - Analytic Geometry and Calculus II (5.00)

--- Or ---

MATH 031 - Business Calculus II (3.00)

One additional approved transferable course for the major (an approved Math, Science, or CSE course):

- Please refer to additional important General Information section above

← No Course Articulated

ONE ADDITIONAL APPROVED TRANSFERABLE COURSE FOR THE MAJOR (MATH OR CS COURSE)

REFER TO TOP OF AGREEMENT

MATH 3A - Introduction to Linear Algebra (4.00)	← MATH 040 - Introduction to Linear Algebra (3.00)
--- Or ---	
I&C SCI 6N - Computational Linear Algebra (4.00)	← No Course Articulated
I&C SCI 6B - Boolean Logic and Discrete Structures (4.00)	← No Course Articulated
I&C SCI 6D - Discrete Mathematics for Computer Science (4.00)	← No Course Articulated
I&C SCI 45C - Programming in C/C++ as a Second Language (4.00)	← No Course Articulated
I&C SCI 46 - Data Structure Implementation and Analysis (4.00)	← No Course Articulated
I&C SCI 51 - Introductory Computer Organization (6.00)	← No Course Articulated
I&C SCI 53 - Principles in System Design (4.00)	← No Course Articulated
IN4MATX 43 - Introduction to Software Engineering (4.00)	← No Course Articulated
STATS 67 - Introduction to Probability and Statistics for Computer Science (4.00)	← No Course Articulated
Two courses approved for General Education Category II except those related to computing/engineering, economics, or mathematics	← No Course Articulated

END OF AGREEMENT

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: Evergreen Valley College
2022-2023 General Catalog, Semester

Computer Science, B.S.

GENERAL INFORMATION

Admission to the Donald Bren School of Information and Computer Science is highly competitive. The most important selection criteria are completion of the required preparatory courses and academic performance. *This major does not participate in the TAG program.*

Required for admission:

Students must have a cumulative GPA of 3.0 and grade of B or higher in all required courses below:

- One year of computer programming courses* in a single object-language (Python, Java, or C++). Object-oriented programming language courses that do not directly articulate to I&C SCI 31-33 can be used to satisfy the admissions requirements. Introduction to computer science courses do not meet this requirement.
- Two semesters/two quarters of approved first-year Calculus
- One additional approved transferable course for the major (an approved math or CS course - see below)

Additional Approved Courses:

- One course in advanced data structures
- One course in machine organization and assembly language (both topics must be covered)
- One course in software engineering
- One course in discrete mathematics
- One course in Boolean algebra
- One course in linear algebra

***NOTE:** Additional computer science courses beyond the two required are strongly recommended, particularly those that align with the major of interest. Our first year of object-oriented programming is taught in Python. C++ and Java are used extensively in the curriculum; therefore, transfer students should plan to learn it by studying on their own or by completing related programming courses prior to their first quarter at UCI.

Additional courses beyond those required for admission must be taken to fulfill the lower-division degree requirements, as many are prerequisites for upper-division courses. For some transfer students, this may mean that it will take longer than two years to complete their degree.

Students should have I&C SCI 31-33 credit first in order to move further into the program here at UCI.

In fulfillment of the requirements below, a single course may be used only once.

For information regarding the [AP and IB examination](#) credit policies refer to the UCI General Catalogue.

MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER

I&C SCI 31 - Introduction to Programming (4.00)

--- And ---

I&C SCI 32 - Programming with Software Libraries (4.00)

--- And ---

I&C SCI 33 - Intermediate Programming (4.00)

- Please refer to additional important General Information section above

COMSC 075 - Computer Science I: Introduction to Program Structures (3.00)

--- And ---

COMSC 076 - Computer Science II: Introduction to Data Structures (3.00)

MATH 2A - Single-Variable Calculus (4.00)

← **MATH 066** - Calculus I Late Transcendentals for STEM (4.00)
--- Or ---

MATH 071 - Calculus I with Analytic Geometry (5.00)

MATH 2B - Single-Variable Calculus (4.00)

← **MATH 067** - Calculus II Late Transcendentals for STEM (4.00)
--- Or ---

MATH 072 - Calculus II with Analytic Geometry (5.00)

One additional approved transferable course for the major (an approved Math, Science, or CSE course):

- Please refer to additional important General Information section above

← No Course Articulated

ONE ADDITIONAL APPROVED TRANSFERABLE COURSE FOR THE MAJOR (MATH OR CS COURSE)

REFER TO TOP OF AGREEMENT

MATH 3A - Introduction to Linear Algebra (4.00)	← MATH 079 - Linear Algebra (3.00)
--- Or ---	
I&C SCI 6N - Computational Linear Algebra (4.00)	← No Course Articulated
I&C SCI 6B - Boolean Logic and Discrete Structures (4.00)	← COMSC 080 - Discrete Structures (3.00)
--- Or ---	
	COMSC 072 - Discrete Mathematics (4.00)
I&C SCI 6D - Discrete Mathematics for Computer Science (4.00)	← COMSC 080 - Discrete Structures (3.00)
I&C SCI 45C - Programming in C/C++ as a Second Language (4.00)	← No Course Articulated
I&C SCI 46 - Data Structure Implementation and Analysis (4.00)	← No Course Articulated
I&C SCI 51 - Introductory Computer Organization (6.00)	← COMSC 077 - Introduction to Computer Systems (3.00)
I&C SCI 53 - Principles in System Design (4.00)	← No Course Articulated
IN4MATX 43 - Introduction to Software Engineering (4.00)	← No Course Articulated
STATS 67 - Introduction to Probability and Statistics for Computer Science (4.00)	← No Course Articulated
Two courses approved for General Education Category II except those related to computing/engineering, economics, or mathematics	← No Course Articulated

END OF AGREEMENT

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: West Los Angeles College
2022-2023 General Catalog, Semester

Computer Science, B.S.

GENERAL INFORMATION

Admission to the Donald Bren School of Information and Computer Science is highly competitive. The most important selection criteria are completion of the required preparatory courses and academic performance. *This major does not participate in the TAG program.*

Required for admission:

Students must have a cumulative GPA of 3.0 and grade of B or higher in all required courses below:

- One year of computer programming courses* in a single object-language (Python, Java, or C++). Object-oriented programming language courses that do not directly articulate to I&C SCI 31-33 can be used to satisfy the admissions requirements. Introduction to computer science courses do not meet this requirement.
- Two semesters/two quarters of approved first-year Calculus
- One additional approved transferable course for the major (an approved math or CS course - see below)

Additional Approved Courses:

- One course in advanced data structures
- One course in machine organization and assembly language (both topics must be covered)
- One course in software engineering
- One course in discrete mathematics
- One course in Boolean algebra
- One course in linear algebra

***NOTE:** Additional computer science courses beyond the two required are strongly recommended, particularly those that align with the major of interest. Our first year of object-oriented programming is taught in Python. C++ and Java are used extensively in the curriculum; therefore, transfer students should plan to learn it by studying on their own or by completing related programming courses prior to their first quarter at UCI.

Additional courses beyond those required for admission must be taken to fulfill the lower-division degree requirements, as many are prerequisites for upper-division courses. For some transfer students, this may mean that it will take longer than two years to complete their degree.

Students should have I&C SCI 31-33 credit first in order to move further into the program here at UCI.

In fulfillment of the requirements below, a single course may be used only once.

For information regarding the [AP and IB examination](#) credit policies refer to the UCI General Catalogue.

MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER

I&C SCI 31 - Introduction to Programming (4.00)

--- And ---

I&C SCI 32 - Programming with Software Libraries (4.00)

--- And ---

I&C SCI 33 - Intermediate Programming (4.00)

- Please refer to additional important General Information section above

← CS 119 - PROGRAMMING IN PYTHON (3.00)

- Articulates with the first course in the series only

MATH 2A - Single-Variable Calculus (4.00)

← MATH 261 - Calculus I (5.00)

MATH 2B - Single-Variable Calculus (4.00)

← MATH 262 - Calculus II (5.00)

One additional approved transferable course for the major (an approved Math, Science, or CSE course):

← No Course Articulated

- Please refer to additional important General Information section above

ONE ADDITIONAL APPROVED TRANSFERABLE COURSE FOR THE MAJOR (MATH OR CS COURSE)

REFER TO TOP OF AGREEMENT

MATH 3A - Introduction to Linear Algebra (4.00)

← MATH 270 - Linear Algebra (3.00)

--- Or ---

I&C SCI 6N - Computational Linear Algebra (4.00)

← No Course Articulated

I&C SCI 6B - Boolean Logic and Discrete Structures (4.00)	← CS 131 - DISCRETE STRUCTURES FOR COMPUTER SCIENCE (3.00)
I&C SCI 6D - Discrete Mathematics for Computer Science (4.00)	← No Course Articulated
I&C SCI 45C - Programming in C/C++ as a Second Language (4.00)	← CS 216 - Object-Oriented Programming in C++ (3.00)
I&C SCI 46 - Data Structure Implementation and Analysis (4.00)	← No Course Articulated
I&C SCI 51 - Introductory Computer Organization (6.00)	← No Course Articulated
I&C SCI 53 - Principles in System Design (4.00)	← No Course Articulated
IN4MATX 43 - Introduction to Software Engineering (4.00)	← No Course Articulated
STATS 67 - Introduction to Probability and Statistics for Computer Science (4.00)	← No Course Articulated
Two courses approved for General Education Category II except those related to computing/engineering, economics, or mathematics	← No Course Articulated

END OF AGREEMENT

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: College of the Redwoods
2022-2023 General Catalog, Semester

Computer Science, B.S.

GENERAL INFORMATION

Admission to the Donald Bren School of Information and Computer Science is highly competitive. The most important selection criteria are completion of the required preparatory courses and academic performance. *This major does not participate in the TAG program.*

Required for admission:

Students must have a cumulative GPA of 3.0 and grade of B or higher in all required courses below:

- One year of computer programming courses* in a single object-language (Python, Java, or C++). Object-oriented programming language courses that do not directly articulate to I&C SCI 31-33 can be used to satisfy the admissions requirements. Introduction to computer science courses do not meet this requirement.
- Two semesters/two quarters of approved first-year Calculus
- One additional approved transferable course for the major (an approved math or CS course - see below)

Additional Approved Courses:

- One course in advanced data structures
- One course in machine organization and assembly language (both topics must be covered)
- One course in software engineering
- One course in discrete mathematics
- One course in Boolean algebra
- One course in linear algebra

***NOTE:** Additional computer science courses beyond the two required are strongly recommended, particularly those that align with the major of interest. Our first year of object-oriented programming is taught in Python. C++ and Java are used extensively in the curriculum; therefore, transfer students should plan to learn it by studying on their own or by completing related programming courses prior to their first quarter at UCI.

Additional courses beyond those required for admission must be taken to fulfill the lower-division degree requirements, as many are prerequisites for upper-division courses. For some transfer students, this may mean that it will take longer than two years to complete their degree.

Students should have I&C SCI 31-33 credit first in order to move further into the program here at UCI.

In fulfillment of the requirements below, a single course may be used only once.

For information regarding the [AP and IB examination](#) credit policies refer to the UCI General Catalogue.

MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER

I&C SCI 31 - Introduction to Programming (4.00)

--- And ---

I&C SCI 32 - Programming with Software Libraries (4.00)

--- And ---

I&C SCI 33 - Intermediate Programming (4.00)

- Please refer to additional important General Information section above

← No Course Articulated

MATH 2A - Single-Variable Calculus (4.00)

← **MATH 50A** - Differential Calculus (4.00)

MATH 2B - Single-Variable Calculus (4.00)

← **MATH 50B** - Integral Calculus (4.00)

One additional approved transferable course for the major (an approved Math, Science, or CSE course):

- Please refer to additional important General Information section above

← No Course Articulated

ONE ADDITIONAL APPROVED TRANSFERABLE COURSE FOR THE MAJOR (MATH OR CS COURSE)

REFER TO TOP OF AGREEMENT

MATH 3A - Introduction to Linear Algebra (4.00)

← **MATH 45** - Linear Algebra (4.00)

--- Or ---

I&C SCI 6N - Computational Linear Algebra (4.00)

← No Course Articulated

I&C SCI 6B - Boolean Logic and Discrete Structures (4.00) ← No Course Articulated

I&C SCI 6D - Discrete Mathematics for Computer Science (4.00) ← No Course Articulated

I&C SCI 45C - Programming in C/C++ as a Second Language (4.00) ← No Course Articulated

I&C SCI 46 - Data Structure Implementation and Analysis (4.00) ← No Course Articulated

I&C SCI 51 - Introductory Computer Organization (6.00) ← No Course Articulated

I&C SCI 53 - Principles in System Design (4.00) ← No Course Articulated

IN4MATX 43 - Introduction to Software Engineering (4.00) ← No Course Articulated

STATS 67 - Introduction to Probability and Statistics for Computer Science (4.00) ← No Course Articulated

Two courses approved for General Education Category II except those related to computing/engineering, economics, or mathematics ← No Course Articulated

END OF AGREEMENT

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: San Diego City College
2022-2023 General Catalog, Semester

Computer Science, B.S.

GENERAL INFORMATION

Admission to the Donald Bren School of Information and Computer Science is highly competitive. The most important selection criteria are completion of the required preparatory courses and academic performance. *This major does not participate in the TAG program.*

Required for admission:

Students must have a cumulative GPA of 3.0 and grade of B or higher in all required courses below:

- One year of computer programming courses* in a single object-language (Python, Java, or C++). Object-oriented programming language courses that do not directly articulate to I&C SCI 31-33 can be used to satisfy the admissions requirements. Introduction to computer science courses do not meet this requirement.
- Two semesters/two quarters of approved first-year Calculus
- One additional approved transferable course for the major (an approved math or CS course - see below)

Additional Approved Courses:

- One course in advanced data structures
- One course in machine organization and assembly language (both topics must be covered)
- One course in software engineering
- One course in discrete mathematics
- One course in Boolean algebra
- One course in linear algebra

***NOTE:** Additional computer science courses beyond the two required are strongly recommended, particularly those that align with the major of interest. Our first year of object-oriented programming is taught in Python. C++ and Java are used extensively in the curriculum; therefore, transfer students should plan to learn it by studying on their own or by completing related programming courses prior to their first quarter at UCI.

Additional courses beyond those required for admission must be taken to fulfill the lower-division degree requirements, as many are prerequisites for upper-division courses. For some transfer students, this may mean that it will take longer than two years to complete their degree.

Students should have I&C SCI 31-33 credit first in order to move further into the program here at UCI.

In fulfillment of the requirements below, a single course may be used only once.

For information regarding the [AP and IB examination](#) credit policies refer to the UCI General Catalogue.

MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER

I&C SCI 31 - Introduction to Programming (4.00)

--- And ---

I&C SCI 32 - Programming with Software Libraries (4.00)

--- And ---

I&C SCI 33 - Intermediate Programming (4.00)

- Please refer to additional important General Information section above

CISC 179 - Python Programming (4.00)

--- And ---

CISC 192 - C/C++ Programming (4.00)

--- And ---

CISC 201 - Advanced C++ Programming (4.00)

MATH 2A - Single-Variable Calculus (4.00)

← **MATH 150** - Calculus with Analytic Geometry I (5.00)

MATH 2B - Single-Variable Calculus (4.00)

← **MATH 151** - Calculus with Analytic Geometry II (4.00)

One additional approved transferable course for the major (an approved Math, Science, or CSE course):

← No Course Articulated

- Please refer to additional important General Information section above

ONE ADDITIONAL APPROVED TRANSFERABLE COURSE FOR THE MAJOR (MATH OR CS COURSE)

REFER TO TOP OF AGREEMENT

MATH 3A - Introduction to Linear Algebra (4.00)

← **MATH 254** - Introduction to Linear Algebra (3.00)

--- Or ---

I&C SCI 6N - Computational Linear Algebra (4.00)

← No Course Articulated

I&C SCI 6B - Boolean Logic and Discrete Structures (4.00) ← No Course Articulated

I&C SCI 6D - Discrete Mathematics for Computer Science (4.00) ← No Course Articulated

I&C SCI 45C - Programming in C/C++ as a Second Language (4.00) ← No Course Articulated

I&C SCI 46 - Data Structure Implementation and Analysis (4.00) ← No Course Articulated

I&C SCI 51 - Introductory Computer Organization (6.00) ← No Course Articulated

I&C SCI 53 - Principles in System Design (4.00) ← No Course Articulated

IN4MATX 43 - Introduction to Software Engineering (4.00) ← No Course Articulated

STATS 67 - Introduction to Probability and Statistics for Computer Science (4.00) ← No Course Articulated

Two courses approved for General Education Category II except those related to computing/engineering, economics, or mathematics ← No Course Articulated

END OF AGREEMENT

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: Allan Hancock College
2022-2023 General Catalog, Semester

Computer Science, B.S.

GENERAL INFORMATION

Admission to the Donald Bren School of Information and Computer Science is highly competitive. The most important selection criteria are completion of the required preparatory courses and academic performance. *This major does not participate in the TAG program.*

Required for admission:

Students must have a cumulative GPA of 3.0 and grade of B or higher in all required courses below:

- One year of computer programming courses* in a single object-language (Python, Java, or C++). Object-oriented programming language courses that do not directly articulate to I&C SCI 31-33 can be used to satisfy the admissions requirements. Introduction to computer science courses do not meet this requirement.
- Two semesters/two quarters of approved first-year Calculus
- One additional approved transferable course for the major (an approved math or CS course - see below)

Additional Approved Courses:

- One course in advanced data structures
- One course in machine organization and assembly language (both topics must be covered)
- One course in software engineering
- One course in discrete mathematics
- One course in Boolean algebra
- One course in linear algebra

***NOTE:** Additional computer science courses beyond the two required are strongly recommended, particularly those that align with the major of interest. Our first year of object-oriented programming is taught in Python. C++ and Java are used extensively in the curriculum; therefore, transfer students should plan to learn it by studying on their own or by completing related programming courses prior to their first quarter at UCI.

Additional courses beyond those required for admission must be taken to fulfill the lower-division degree requirements, as many are prerequisites for upper-division courses. For some transfer students, this may mean that it will take longer than two years to complete their degree.

Students should have I&C SCI 31-33 credit first in order to move further into the program here at UCI.

In fulfillment of the requirements below, a single course may be used only once.

For information regarding the [AP and IB examination](#) credit policies refer to the UCI General Catalogue.

MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER

I&C SCI 31 - Introduction to Programming (4.00)

--- And ---

I&C SCI 32 - Programming with Software Libraries (4.00)

--- And ---

I&C SCI 33 - Intermediate Programming (4.00)

- Please refer to additional important General Information section above

← No Course Articulated

MATH 2A - Single-Variable Calculus (4.00)

← MATH 181 - Calculus 1 (4.00)

MATH 2B - Single-Variable Calculus (4.00)

← MATH 182 - Calculus 2 (4.00)

One additional approved transferable course for the major (an approved Math, Science, or CSE course):

- Please refer to additional important General Information section above

← No Course Articulated

ONE ADDITIONAL APPROVED TRANSFERABLE COURSE FOR THE MAJOR (MATH OR CS COURSE)

REFER TO TOP OF AGREEMENT

MATH 3A - Introduction to Linear Algebra (4.00)

← MATH 184 - Linear Algebra/Differential Equations (5.00)

--- Or ---

I&C SCI 6N - Computational Linear Algebra (4.00)

← No Course Articulated

I&C SCI 6B - Boolean Logic and Discrete Structures (4.00) ← No Course Articulated

I&C SCI 6D - Discrete Mathematics for Computer Science (4.00) ← No Course Articulated

I&C SCI 45C - Programming in C/C++ as a Second Language (4.00) ← No Course Articulated

I&C SCI 46 - Data Structure Implementation and Analysis (4.00) ← No Course Articulated

I&C SCI 51 - Introductory Computer Organization (6.00) ← No Course Articulated

I&C SCI 53 - Principles in System Design (4.00) ← No Course Articulated

IN4MATX 43 - Introduction to Software Engineering (4.00) ← No Course Articulated

STATS 67 - Introduction to Probability and Statistics for Computer Science (4.00) ← No Course Articulated

Two courses approved for General Education Category II except those related to computing/engineering, economics, or mathematics ← No Course Articulated

END OF AGREEMENT

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: Berkeley City College
2022-2023 General Catalog, Semester

Computer Science, B.S.

GENERAL INFORMATION

Admission to the Donald Bren School of Information and Computer Science is highly competitive. The most important selection criteria are completion of the required preparatory courses and academic performance. *This major does not participate in the TAG program.*

Required for admission:

Students must have a cumulative GPA of 3.0 and grade of B or higher in all required courses below:

- One year of computer programming courses* in a single object-language (Python, Java, or C++). Object-oriented programming language courses that do not directly articulate to I&C SCI 31-33 can be used to satisfy the admissions requirements. Introduction to computer science courses do not meet this requirement.
- Two semesters/two quarters of approved first-year Calculus
- One additional approved transferable course for the major (an approved math or CS course - see below)

Additional Approved Courses:

- One course in advanced data structures
- One course in machine organization and assembly language (both topics must be covered)
- One course in software engineering
- One course in discrete mathematics
- One course in Boolean algebra
- One course in linear algebra

***NOTE:** Additional computer science courses beyond the two required are strongly recommended, particularly those that align with the major of interest. Our first year of object-oriented programming is taught in Python. C++ and Java are used extensively in the curriculum; therefore, transfer students should plan to learn it by studying on their own or by completing related programming courses prior to their first quarter at UCI.

Additional courses beyond those required for admission must be taken to fulfill the lower-division degree requirements, as many are prerequisites for upper-division courses. For some transfer students, this may mean that it will take longer than two years to complete their degree.

Students should have I&C SCI 31-33 credit first in order to move further into the program here at UCI.

In fulfillment of the requirements below, a single course may be used only once.

For information regarding the [AP and IB examination](#) credit policies refer to the UCI General Catalogue.

MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER

I&C SCI 31 - Introduction to Programming (4.00)

--- And ---

I&C SCI 32 - Programming with Software Libraries (4.00)

--- And ---

I&C SCI 33 - Intermediate Programming (4.00)

- Please refer to additional important General Information section above

CIS 6 - Introduction to Computer Programming (5.00)

--- And ---

CIS 25 - Object Oriented Programming Using C++ (4.00)

--- Or ---

CIS 36A - Java Programming Language I (4.00)

--- And ---

CIS 36B - Java Programming Language II (4.00)

MATH 2A - Single-Variable Calculus (4.00)

← **MATH 3A** - Calculus I (5.00)

MATH 2B - Single-Variable Calculus (4.00)

← **MATH 3B** - Calculus II (5.00)

One additional approved transferable course for the major (an approved Math, Science, or CSE course):

← No Course Articulated

- Please refer to additional important General Information section above

ONE ADDITIONAL APPROVED TRANSFERABLE COURSE FOR THE MAJOR (MATH OR CS COURSE)

REFER TO TOP OF AGREEMENT

MATH 3A - Introduction to Linear Algebra (4.00)	← MATH 3E - Linear Algebra (3.00)
--- Or ---	
I&C SCI 6N - Computational Linear Algebra (4.00)	← No Course Articulated
I&C SCI 6B - Boolean Logic and Discrete Structures (4.00)	← No Course Articulated
I&C SCI 6D - Discrete Mathematics for Computer Science (4.00)	← No Course Articulated
I&C SCI 45C - Programming in C/C++ as a Second Language (4.00)	← No Course Articulated
I&C SCI 46 - Data Structure Implementation and Analysis (4.00)	← No Course Articulated
I&C SCI 51 - Introductory Computer Organization (6.00)	← CIS 20 - Microcomputer Assembly Language (4.00)
I&C SCI 53 - Principles in System Design (4.00)	← No Course Articulated
IN4MATX 43 - Introduction to Software Engineering (4.00)	← No Course Articulated
STATS 67 - Introduction to Probability and Statistics for Computer Science (4.00)	← No Course Articulated
Two courses approved for General Education Category II except those related to computing/engineering, economics, or mathematics	← No Course Articulated

END OF AGREEMENT

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: Los Angeles Trade Technical College
2022-2023 General Catalog, Semester

Computer Science, B.S.

GENERAL INFORMATION

Admission to the Donald Bren School of Information and Computer Science is highly competitive. The most important selection criteria are completion of the required preparatory courses and academic performance. *This major does not participate in the TAG program.*

Required for admission:

Students must have a cumulative GPA of 3.0 and grade of B or higher in all required courses below:

- One year of computer programming courses* in a single object-language (Python, Java, or C++). Object-oriented programming language courses that do not directly articulate to I&C SCI 31-33 can be used to satisfy the admissions requirements. Introduction to computer science courses do not meet this requirement.
- Two semesters/two quarters of approved first-year Calculus
- One additional approved transferable course for the major (an approved math or CS course - see below)

Additional Approved Courses:

- One course in advanced data structures
- One course in machine organization and assembly language (both topics must be covered)
- One course in software engineering
- One course in discrete mathematics
- One course in Boolean algebra
- One course in linear algebra

***NOTE:** Additional computer science courses beyond the two required are strongly recommended, particularly those that align with the major of interest. Our first year of object-oriented programming is taught in Python. C++ and Java are used extensively in the curriculum; therefore, transfer students should plan to learn it by studying on their own or by completing related programming courses prior to their first quarter at UCI.

Additional courses beyond those required for admission must be taken to fulfill the lower-division degree requirements, as many are prerequisites for upper-division courses. For some transfer students, this may mean that it will take longer than two years to complete their degree.

Students should have I&C SCI 31-33 credit first in order to move further into the program here at UCI.

In fulfillment of the requirements below, a single course may be used only once.

For information regarding the [AP and IB examination](#) credit policies refer to the UCI General Catalogue.

MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER

I&C SCI 31 - Introduction to Programming (4.00)

--- And ---

I&C SCI 32 - Programming with Software Libraries (4.00)

--- And ---

I&C SCI 33 - Intermediate Programming (4.00)

- Please refer to additional important General Information section above

CS 116 - Programming in C++ (3.00)

--- And ---

CS 216 - Object Oriented Programming in C++ (3.00)

MATH 2A - Single-Variable Calculus (4.00)

← MATH 265 - Calculus with Analytic Geometry I (5.00)

MATH 2B - Single-Variable Calculus (4.00)

← MATH 266 - Calculus with Analytic Geometry II (5.00)

One additional approved transferable course for the major (an approved Math, Science, or CSE course):

← No Course Articulated

- Please refer to additional important General Information section above

ONE ADDITIONAL APPROVED TRANSFERABLE COURSE FOR THE MAJOR (MATH OR CS COURSE)

REFER TO TOP OF AGREEMENT

MATH 3A - Introduction to Linear Algebra (4.00)

← MATH 270 - Linear Algebra (3.00)

--- Or ---

I&C SCI 6N - Computational Linear Algebra (4.00)

← No Course Articulated

I&C SCI 6B - Boolean Logic and Discrete Structures (4.00)	← MATH 272 - Methods of Discrete Mathematics (5.00)
I&C SCI 6D - Discrete Mathematics for Computer Science (4.00)	← No Course Articulated
I&C SCI 45C - Programming in C/C++ as a Second Language (4.00)	← No Course Articulated
I&C SCI 46 - Data Structure Implementation and Analysis (4.00)	← No Course Articulated
I&C SCI 51 - Introductory Computer Organization (6.00)	← No Course Articulated
I&C SCI 53 - Principles in System Design (4.00)	← No Course Articulated
IN4MATX 43 - Introduction to Software Engineering (4.00)	← No Course Articulated
STATS 67 - Introduction to Probability and Statistics for Computer Science (4.00)	← No Course Articulated
Two courses approved for General Education Category II except those related to computing/engineering, economics, or mathematics	← No Course Articulated

END OF AGREEMENT

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: College of the Siskiyous
2022-2023 General Catalog, Semester

Computer Science, B.S.

GENERAL INFORMATION

Admission to the Donald Bren School of Information and Computer Science is highly competitive. The most important selection criteria are completion of the required preparatory courses and academic performance. *This major does not participate in the TAG program.*

Required for admission:

Students must have a cumulative GPA of 3.0 and grade of B or higher in all required courses below:

- One year of computer programming courses* in a single object-language (Python, Java, or C++). Object-oriented programming language courses that do not directly articulate to I&C SCI 31-33 can be used to satisfy the admissions requirements. Introduction to computer science courses do not meet this requirement.
- Two semesters/two quarters of approved first-year Calculus
- One additional approved transferable course for the major (an approved math or CS course - see below)

Additional Approved Courses:

- One course in advanced data structures
- One course in machine organization and assembly language (both topics must be covered)
- One course in software engineering
- One course in discrete mathematics
- One course in Boolean algebra
- One course in linear algebra

***NOTE:** Additional computer science courses beyond the two required are strongly recommended, particularly those that align with the major of interest. Our first year of object-oriented programming is taught in Python. C++ and Java are used extensively in the curriculum; therefore, transfer students should plan to learn it by studying on their own or by completing related programming courses prior to their first quarter at UCI.

Additional courses beyond those required for admission must be taken to fulfill the lower-division degree requirements, as many are prerequisites for upper-division courses. For some transfer students, this may mean that it will take longer than two years to complete their degree.

Students should have I&C SCI 31-33 credit first in order to move further into the program here at UCI.

In fulfillment of the requirements below, a single course may be used only once.

For information regarding the [AP and IB examination](#) credit policies refer to the UCI General Catalogue.

MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER

I&C SCI 31 - Introduction to Programming (4.00)

--- And ---

I&C SCI 32 - Programming with Software Libraries (4.00)

--- And ---

I&C SCI 33 - Intermediate Programming (4.00)

- Please refer to additional important General Information section above

← No Course Articulated

MATH 2A - Single-Variable Calculus (4.00)

← MATH 1400 - Calculus and Analytic Geometry I (4.00)

MATH 2B - Single-Variable Calculus (4.00)

← MATH 1500 - Calculus and Analytic Geometry II (4.00)

One additional approved transferable course for the major (an approved Math, Science, or CSE course):

- Please refer to additional important General Information section above

← No Course Articulated

ONE ADDITIONAL APPROVED TRANSFERABLE COURSE FOR THE MAJOR (MATH OR CS COURSE)

REFER TO TOP OF AGREEMENT

MATH 3A - Introduction to Linear Algebra (4.00)

← MATH 2600 - Introduction to Linear Algebra (3.00)

--- Or ---

I&C SCI 6N - Computational Linear Algebra (4.00)

← No Course Articulated

I&C SCI 6B - Boolean Logic and Discrete Structures (4.00) ← No Course Articulated

I&C SCI 6D - Discrete Mathematics for Computer Science (4.00) ← No Course Articulated

I&C SCI 45C - Programming in C/C++ as a Second Language (4.00) ← No Course Articulated

I&C SCI 46 - Data Structure Implementation and Analysis (4.00) ← No Course Articulated

I&C SCI 51 - Introductory Computer Organization (6.00) ← No Course Articulated

I&C SCI 53 - Principles in System Design (4.00) ← No Course Articulated

IN4MATX 43 - Introduction to Software Engineering (4.00) ← No Course Articulated

STATS 67 - Introduction to Probability and Statistics for Computer Science (4.00) ← No Course Articulated

Two courses approved for General Education Category II except those related to computing/engineering, economics, or mathematics ← No Course Articulated

END OF AGREEMENT

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: Merritt College
2022-2023 General Catalog, Semester

Computer Science, B.S.

GENERAL INFORMATION

Admission to the Donald Bren School of Information and Computer Science is highly competitive. The most important selection criteria are completion of the required preparatory courses and academic performance. *This major does not participate in the TAG program.*

Required for admission:

Students must have a cumulative GPA of 3.0 and grade of B or higher in all required courses below:

- One year of computer programming courses* in a single object-language (Python, Java, or C++). Object-oriented programming language courses that do not directly articulate to I&C SCI 31-33 can be used to satisfy the admissions requirements. Introduction to computer science courses do not meet this requirement.
- Two semesters/two quarters of approved first-year Calculus
- One additional approved transferable course for the major (an approved math or CS course - see below)

Additional Approved Courses:

- One course in advanced data structures
- One course in machine organization and assembly language (both topics must be covered)
- One course in software engineering
- One course in discrete mathematics
- One course in Boolean algebra
- One course in linear algebra

***NOTE:** Additional computer science courses beyond the two required are strongly recommended, particularly those that align with the major of interest. Our first year of object-oriented programming is taught in Python. C++ and Java are used extensively in the curriculum; therefore, transfer students should plan to learn it by studying on their own or by completing related programming courses prior to their first quarter at UCI.

Additional courses beyond those required for admission must be taken to fulfill the lower-division degree requirements, as many are prerequisites for upper-division courses. For some transfer students, this may mean that it will take longer than two years to complete their degree.

Students should have I&C SCI 31-33 credit first in order to move further into the program here at UCI.

In fulfillment of the requirements below, a single course may be used only once.

For information regarding the [AP and IB examination](#) credit policies refer to the UCI General Catalogue.

MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER

I&C SCI 31 - Introduction to Programming (4.00)

--- And ---

I&C SCI 32 - Programming with Software Libraries (4.00)

--- And ---

I&C SCI 33 - Intermediate Programming (4.00)

- Please refer to additional important General Information section above

← No Course Articulated

MATH 2A - Single-Variable Calculus (4.00)

← **MATH 3A** - Calculus I (5.00)

MATH 2B - Single-Variable Calculus (4.00)

← **MATH 3B** - Calculus II (5.00)

One additional approved transferable course for the major (an approved Math, Science, or CSE course):

- Please refer to additional important General Information section above

← No Course Articulated

ONE ADDITIONAL APPROVED TRANSFERABLE COURSE FOR THE MAJOR (MATH OR CS COURSE)

REFER TO TOP OF AGREEMENT

MATH 3A - Introduction to Linear Algebra (4.00)

← **MATH 3E** - Linear Algebra (3.00)

--- Or ---

I&C SCI 6N - Computational Linear Algebra (4.00)

← No Course Articulated

I&C SCI 6B - Boolean Logic and Discrete Structures (4.00) ← No Course Articulated

I&C SCI 6D - Discrete Mathematics for Computer Science (4.00) ← No Course Articulated

I&C SCI 45C - Programming in C/C++ as a Second Language (4.00) ← No Course Articulated

I&C SCI 46 - Data Structure Implementation and Analysis (4.00) ← No Course Articulated

I&C SCI 51 - Introductory Computer Organization (6.00) ← No Course Articulated

I&C SCI 53 - Principles in System Design (4.00) ← No Course Articulated

IN4MATX 43 - Introduction to Software Engineering (4.00) ← No Course Articulated

STATS 67 - Introduction to Probability and Statistics for Computer Science (4.00) ← No Course Articulated

Two courses approved for General Education Category II except those related to computing/engineering, economics, or mathematics ← No Course Articulated

END OF AGREEMENT

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: Moreno Valley College
2022-2023 General Catalog, Semester

Computer Science, B.S.

GENERAL INFORMATION

Admission to the Donald Bren School of Information and Computer Science is highly competitive. The most important selection criteria are completion of the required preparatory courses and academic performance. *This major does not participate in the TAG program.*

Required for admission:

Students must have a cumulative GPA of 3.0 and grade of B or higher in all required courses below:

- One year of computer programming courses* in a single object-language (Python, Java, or C++). Object-oriented programming language courses that do not directly articulate to I&C SCI 31-33 can be used to satisfy the admissions requirements. Introduction to computer science courses do not meet this requirement.
- Two semesters/two quarters of approved first-year Calculus
- One additional approved transferable course for the major (an approved math or CS course - see below)

Additional Approved Courses:

- One course in advanced data structures
- One course in machine organization and assembly language (both topics must be covered)
- One course in software engineering
- One course in discrete mathematics
- One course in Boolean algebra
- One course in linear algebra

***NOTE:** Additional computer science courses beyond the two required are strongly recommended, particularly those that align with the major of interest. Our first year of object-oriented programming is taught in Python. C++ and Java are used extensively in the curriculum; therefore, transfer students should plan to learn it by studying on their own or by completing related programming courses prior to their first quarter at UCI.

Additional courses beyond those required for admission must be taken to fulfill the lower-division degree requirements, as many are prerequisites for upper-division courses. For some transfer students, this may mean that it will take longer than two years to complete their degree.

Students should have I&C SCI 31-33 credit first in order to move further into the program here at UCI.

In fulfillment of the requirements below, a single course may be used only once.

For information regarding the [AP and IB examination](#) credit policies refer to the UCI General Catalogue.

MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER

I&C SCI 31 - Introduction to Programming (4.00)

--- And ---

I&C SCI 32 - Programming with Software Libraries (4.00)

--- And ---

I&C SCI 33 - Intermediate Programming (4.00)

- Please refer to additional important General Information section above

CIS 17A - Programming Concepts and Methodologies II: C++ (3.00)

--- And ---

CIS 17B - C++ Programming: Advanced Objects (3.00)

--- Or ---

CIS 18A - JAVA Programming: Objects (3.00)

--- And ---

CIS 18B - Java Programming: Advanced Objects (3.00)

--- Or ---

CIS 30A - Introduction to Python Programming (3.00)

--- And ---

CIS 30E - Advanced Python Programming (3.00)

MATH 2A - Single-Variable Calculus (4.00)

← **MAT 1A** - Calculus I (4.00)

--- Or ---

MAT 1AH - Honors Calculus I (4.00)

MATH 2B - Single-Variable Calculus (4.00)

← **MAT 1B** - Calculus II (4.00)

One additional approved transferable course for the major (an approved Math, Science, or CSE course):

- Please refer to additional important General Information section above

← No Course Articulated

ONE ADDITIONAL APPROVED TRANSFERABLE COURSE FOR THE MAJOR (MATH OR CS COURSE)

REFER TO TOP OF AGREEMENT

MATH 3A - Introduction to Linear Algebra (4.00)	← MAT 3 - Linear Algebra (3.00)
--- Or ---	
I&C SCI 6N - Computational Linear Algebra (4.00)	← No Course Articulated
I&C SCI 6B - Boolean Logic and Discrete Structures (4.00)	← CIS 7 - Discrete Structures (3.00)
I&C SCI 6D - Discrete Mathematics for Computer Science (4.00)	← No Course Articulated
I&C SCI 45C - Programming in C/C++ as a Second Language (4.00)	← CIS 17C - C++ Programming: Data Structures (3.00)
I&C SCI 46 - Data Structure Implementation and Analysis (4.00)	← No Course Articulated
I&C SCI 51 - Introductory Computer Organization (6.00)	← No Course Articulated
I&C SCI 53 - Principles in System Design (4.00)	← No Course Articulated
IN4MATX 43 - Introduction to Software Engineering (4.00)	← No Course Articulated
STATS 67 - Introduction to Probability and Statistics for Computer Science (4.00)	← No Course Articulated
Two courses approved for General Education Category II except those related to computing/engineering, economics, or mathematics	← No Course Articulated

END OF AGREEMENT

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: Crafton Hills College
2022-2023 General Catalog, Semester

Computer Science, B.S.

GENERAL INFORMATION

Admission to the Donald Bren School of Information and Computer Science is highly competitive. The most important selection criteria are completion of the required preparatory courses and academic performance. *This major does not participate in the TAG program.*

Required for admission:

Students must have a cumulative GPA of 3.0 and grade of B or higher in all required courses below:

- One year of computer programming courses* in a single object-language (Python, Java, or C++). Object-oriented programming language courses that do not directly articulate to I&C SCI 31-33 can be used to satisfy the admissions requirements. Introduction to computer science courses do not meet this requirement.
- Two semesters/two quarters of approved first-year Calculus
- One additional approved transferable course for the major (an approved math or CS course - see below)

Additional Approved Courses:

- One course in advanced data structures
- One course in machine organization and assembly language (both topics must be covered)
- One course in software engineering
- One course in discrete mathematics
- One course in Boolean algebra
- One course in linear algebra

***NOTE:** Additional computer science courses beyond the two required are strongly recommended, particularly those that align with the major of interest. Our first year of object-oriented programming is taught in Python. C++ and Java are used extensively in the curriculum; therefore, transfer students should plan to learn it by studying on their own or by completing related programming courses prior to their first quarter at UCI.

Additional courses beyond those required for admission must be taken to fulfill the lower-division degree requirements, as many are prerequisites for upper-division courses. For some transfer students, this may mean that it will take longer than two years to complete their degree.

Students should have I&C SCI 31-33 credit first in order to move further into the program here at UCI.

In fulfillment of the requirements below, a single course may be used only once.

For information regarding the [AP and IB examination](#) credit policies refer to the UCI General Catalogue.

MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER

I&C SCI 31 - Introduction to Programming (4.00)

--- And ---

I&C SCI 32 - Programming with Software Libraries (4.00)

--- And ---

I&C SCI 33 - Intermediate Programming (4.00)

- Please refer to additional important General Information section above

CSCI 110 - Introduction to Computer Science I (C++) (3.00)

--- And ---

CSCI 120 - Introduction to Computer Science II (C++) (3.00)

MATH 2A - Single-Variable Calculus (4.00)

← **MATH 250** - Single Variable Calculus I (4.00)

MATH 2B - Single-Variable Calculus (4.00)

← **MATH 251** - Single Variable Calculus II (4.00)

One additional approved transferable course for the major (an approved Math, Science, or CSE course):

← No Course Articulated

- Please refer to additional important General Information section above

ONE ADDITIONAL APPROVED TRANSFERABLE COURSE FOR THE MAJOR (MATH OR CS COURSE)

REFER TO TOP OF AGREEMENT

MATH 3A - Introduction to Linear Algebra (4.00)

← **MATH 265** - Linear Algebra (4.00)

--- Or ---

I&C SCI 6N - Computational Linear Algebra (4.00)	← No Course Articulated
I&C SCI 6B - Boolean Logic and Discrete Structures (4.00)	← No Course Articulated
I&C SCI 6D - Discrete Mathematics for Computer Science (4.00)	← CSCI 200 - Discrete Structures (4.00) Same-As: MATH 200 --- Or --- MATH 200 - Discrete Structures (4.00) Same-As: CSCI 200
I&C SCI 45C - Programming in C/C++ as a Second Language (4.00)	← No Course Articulated
I&C SCI 46 - Data Structure Implementation and Analysis (4.00)	← No Course Articulated
I&C SCI 51 - Introductory Computer Organization (6.00)	← CSCI 240 - Computer Organization and Assembly Language Programming (3.00)
I&C SCI 53 - Principles in System Design (4.00)	← No Course Articulated
IN4MATX 43 - Introduction to Software Engineering (4.00)	← No Course Articulated
STATS 67 - Introduction to Probability and Statistics for Computer Science (4.00)	← No Course Articulated
Two courses approved for General Education Category II except those related to computing/engineering, economics, or mathematics	← No Course Articulated

END OF AGREEMENT

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: Fullerton College
2022-2023 General Catalog, Semester

Computer Science, B.S.

GENERAL INFORMATION

Admission to the Donald Bren School of Information and Computer Science is highly competitive. The most important selection criteria are completion of the required preparatory courses and academic performance. *This major does not participate in the TAG program.*

Required for admission:

Students must have a cumulative GPA of 3.0 and grade of B or higher in all required courses below:

- One year of computer programming courses* in a single object-language (Python, Java, or C++). Object-oriented programming language courses that do not directly articulate to I&C SCI 31-33 can be used to satisfy the admissions requirements. Introduction to computer science courses do not meet this requirement.
- Two semesters/two quarters of approved first-year Calculus
- One additional approved transferable course for the major (an approved math or CS course - see below)

Additional Approved Courses:

- One course in advanced data structures
- One course in machine organization and assembly language (both topics must be covered)
- One course in software engineering
- One course in discrete mathematics
- One course in Boolean algebra
- One course in linear algebra

***NOTE:** Additional computer science courses beyond the two required are strongly recommended, particularly those that align with the major of interest. Our first year of object-oriented programming is taught in Python. C++ and Java are used extensively in the curriculum; therefore, transfer students should plan to learn it by studying on their own or by completing related programming courses prior to their first quarter at UCI.

Additional courses beyond those required for admission must be taken to fulfill the lower-division degree requirements, as many are prerequisites for upper-division courses. For some transfer students, this may mean that it will take longer than two years to complete their degree.

Students should have I&C SCI 31-33 credit first in order to move further into the program here at UCI.

In fulfillment of the requirements below, a single course may be used only once.

For information regarding the [AP and IB examination](#) credit policies refer to the UCI General Catalogue.

MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER

I&C SCI 31 - Introduction to Programming (4.00)

--- And ---

I&C SCI 32 - Programming with Software Libraries (4.00)

--- And ---

I&C SCI 33 - Intermediate Programming (4.00)

- Please refer to additional important General Information section above

CSCI 123 F - Introduction to Programming Concepts in C++ (4.00)

--- And ---

CSCI 133 F - Data Structures in C++ (4.00)

MATH 2A - Single-Variable Calculus (4.00)

← **MATH 151 F** - Calculus I (4.00)

--- Or ---

MATH 151HF - Honors Calculus I (4.00)

MATH 2B - Single-Variable Calculus (4.00)

← **MATH 152 F** - Calculus II (4.00)

--- Or ---

MATH 152HF - Honors Calculus II (4.00)

One additional approved transferable course for the major (an approved Math, Science, or CSE course):

- Please refer to additional important General Information section above

← No Course Articulated

ONE ADDITIONAL APPROVED TRANSFERABLE COURSE FOR THE MAJOR (MATH OR CS COURSE)

REFER TO TOP OF AGREEMENT

MATH 3A - Introduction to Linear Algebra (4.00)	←	MATH 172 F - Graph Theory and Linear Algebra (4.00) --- Or --- MATH 252 F - Linear Algebra and Differential Equations (4.00) --- Or --- MATH 253 F - Additional Topics in Linear Algebra (2.00) --- Or --- MATH 255 F - Linear Algebra (3.00)
--- Or ---		
I&C SCI 6N - Computational Linear Algebra (4.00)	←	No Course Articulated
I&C SCI 6B - Boolean Logic and Discrete Structures (4.00)	←	No Course Articulated
I&C SCI 6D - Discrete Mathematics for Computer Science (4.00)	←	MATH 171 F - Discrete Mathematics (4.00)
I&C SCI 45C - Programming in C/C++ as a Second Language (4.00)	←	CSCI 123 F - Introduction to Programming Concepts in C++ (4.00) --- And --- CSCI 133 F - Data Structures in C++ (4.00) --- And --- CSCI 223 F - "C" Language for Mathematics and Science (4.00)
I&C SCI 46 - Data Structure Implementation and Analysis (4.00)	←	CSCI 123 F - Introduction to Programming Concepts in C++ (4.00) --- And --- CSCI 133 F - Data Structures in C++ (4.00) --- And --- CSCI 223 F - "C" Language for Mathematics and Science (4.00)
I&C SCI 51 - Introductory Computer Organization (6.00)	←	No Course Articulated
I&C SCI 53 - Principles in System Design (4.00)	←	No Course Articulated
IN4MATX 43 - Introduction to Software Engineering (4.00)	←	No Course Articulated
STATS 67 - Introduction to Probability and Statistics for Computer Science (4.00)	←	No Course Articulated
Two courses approved for General Education Category II except those related to computing/engineering, economics, or mathematics	←	No Course Articulated

END OF AGREEMENT

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: Folsom Lake College
2022-2023 General Catalog, Semester

Computer Science, B.S.

GENERAL INFORMATION

Admission to the Donald Bren School of Information and Computer Science is highly competitive. The most important selection criteria are completion of the required preparatory courses and academic performance. *This major does not participate in the TAG program.*

Required for admission:

Students must have a cumulative GPA of 3.0 and grade of B or higher in all required courses below:

- One year of computer programming courses* in a single object-language (Python, Java, or C++). Object-oriented programming language courses that do not directly articulate to I&C SCI 31-33 can be used to satisfy the admissions requirements. Introduction to computer science courses do not meet this requirement.
- Two semesters/two quarters of approved first-year Calculus
- One additional approved transferable course for the major (an approved math or CS course - see below)

Additional Approved Courses:

- One course in advanced data structures
- One course in machine organization and assembly language (both topics must be covered)
- One course in software engineering
- One course in discrete mathematics
- One course in Boolean algebra
- One course in linear algebra

***NOTE:** Additional computer science courses beyond the two required are strongly recommended, particularly those that align with the major of interest. Our first year of object-oriented programming is taught in Python. C++ and Java are used extensively in the curriculum; therefore, transfer students should plan to learn it by studying on their own or by completing related programming courses prior to their first quarter at UCI.

Additional courses beyond those required for admission must be taken to fulfill the lower-division degree requirements, as many are prerequisites for upper-division courses. For some transfer students, this may mean that it will take longer than two years to complete their degree.

Students should have I&C SCI 31-33 credit first in order to move further into the program here at UCI.

In fulfillment of the requirements below, a single course may be used only once.

For information regarding the [AP and IB examination](#) credit policies refer to the UCI General Catalogue.

MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER

I&C SCI 31 - Introduction to Programming (4.00)

--- And ---

I&C SCI 32 - Programming with Software Libraries (4.00)

--- And ---

I&C SCI 33 - Intermediate Programming (4.00)

- Please refer to additional important General Information section above

CISP 360 - Introduction to Structured Programming (4.00)

--- And ---

CISP 400 - Object Oriented Programming with C++ (4.00)

--- And ---

CISP 430 - Data Structures (4.00)

MATH 2A - Single-Variable Calculus (4.00)

← **MATH 400** - Calculus I (5.00)

MATH 2B - Single-Variable Calculus (4.00)

← **MATH 401** - Calculus II (5.00)

One additional approved transferable course for the major (an approved Math, Science, or CSE course):

← No Course Articulated

- Please refer to additional important General Information section above

ONE ADDITIONAL APPROVED TRANSFERABLE COURSE FOR THE MAJOR (MATH OR CS COURSE)

REFER TO TOP OF AGREEMENT

MATH 3A - Introduction to Linear Algebra (4.00)

← **MATH 410** - Introduction to Linear Algebra (3.00)

--- Or ---

I&C SCI 6N - Computational Linear Algebra (4.00)

← No Course Articulated

I&C SCI 6B - Boolean Logic and Discrete Structures (4.00)

← **CISP 440** - Discrete Structures for Computer Science (3.00)

I&C SCI 6D - Discrete Mathematics for Computer Science (4.00)

← No Course Articulated

I&C SCI 45C - Programming in C/C++ as a Second Language (4.00) ←

CISP 360 - Introduction to Structured Programming (4.00)

--- And ---

CISP 400 - Object Oriented Programming with C++ (4.00)

--- And ---

CISP 430 - Data Structures (4.00)

I&C SCI 46 - Data Structure Implementation and Analysis (4.00)

← No Course Articulated

I&C SCI 51 - Introductory Computer Organization (6.00)

← No Course Articulated

I&C SCI 53 - Principles in System Design (4.00)

← No Course Articulated

IN4MATX 43 - Introduction to Software Engineering (4.00)

← No Course Articulated

STATS 67 - Introduction to Probability and Statistics for Computer Science (4.00)

← No Course Articulated

Two courses approved for General Education Category II except those related to computing/engineering, economics, or mathematics ← No Course Articulated

END OF AGREEMENT

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: Southwestern College
2022-2023 General Catalog, Semester

Computer Science, B.S.

GENERAL INFORMATION

Admission to the Donald Bren School of Information and Computer Science is highly competitive. The most important selection criteria are completion of the required preparatory courses and academic performance. *This major does not participate in the TAG program.*

Required for admission:

Students must have a cumulative GPA of 3.0 and grade of B or higher in all required courses below:

- One year of computer programming courses* in a single object-language (Python, Java, or C++). Object-oriented programming language courses that do not directly articulate to I&C SCI 31-33 can be used to satisfy the admissions requirements. Introduction to computer science courses do not meet this requirement.
- Two semesters/two quarters of approved first-year Calculus
- One additional approved transferable course for the major (an approved math or CS course - see below)

Additional Approved Courses:

- One course in advanced data structures
- One course in machine organization and assembly language (both topics must be covered)
- One course in software engineering
- One course in discrete mathematics
- One course in Boolean algebra
- One course in linear algebra

***NOTE:** Additional computer science courses beyond the two required are strongly recommended, particularly those that align with the major of interest. Our first year of object-oriented programming is taught in Python. C++ and Java are used extensively in the curriculum; therefore, transfer students should plan to learn it by studying on their own or by completing related programming courses prior to their first quarter at UCI.

Additional courses beyond those required for admission must be taken to fulfill the lower-division degree requirements, as many are prerequisites for upper-division courses. For some transfer students, this may mean that it will take longer than two years to complete their degree.

Students should have I&C SCI 31-33 credit first in order to move further into the program here at UCI.

In fulfillment of the requirements below, a single course may be used only once.

For information regarding the [AP and IB examination](#) credit policies refer to the UCI General Catalogue.

MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER

I&C SCI 31 - Introduction to Programming (4.00)

--- And ---

I&C SCI 32 - Programming with Software Libraries (4.00)

--- And ---

I&C SCI 33 - Intermediate Programming (4.00)

- Please refer to additional important General Information section above

← **CIS 106** - Introduction to Programming Logic and Design using Python (3.00)

- Articulates with the first course in the series only

MATH 2A - Single-Variable Calculus (4.00)

← **MATH 250** - Analytic Geometry and Calculus I (5.00)

--- Or ---

MATH 121 - Applied Calculus I (3.00)

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

--- And ---

MATH 122 - Applied Calculus II (3.00)

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

MATH 2B - Single-Variable Calculus (4.00)

← **MATH 251** - Analytic Geometry and Calculus II (4.00)

One additional approved transferable course for the major (an approved Math, Science, or CSE course):

← No Course Articulated

- Please refer to additional important General Information section above

ONE ADDITIONAL APPROVED TRANSFERABLE COURSE FOR THE MAJOR (MATH OR CS COURSE)

REFER TO TOP OF AGREEMENT

MATH 3A - Introduction to Linear Algebra (4.00)	← MATH 254 - Introduction to Linear Algebra (3.00)
--- Or ---	
I&C SCI 6N - Computational Linear Algebra (4.00)	← No Course Articulated
I&C SCI 6B - Boolean Logic and Discrete Structures (4.00)	← MATH 265 - Discrete Structures (3.00)
I&C SCI 6D - Discrete Mathematics for Computer Science (4.00)	← MATH 265 - Discrete Structures (3.00)
I&C SCI 45C - Programming in C/C++ as a Second Language (4.00)	← No Course Articulated
I&C SCI 46 - Data Structure Implementation and Analysis (4.00)	← No Course Articulated
I&C SCI 51 - Introductory Computer Organization (6.00)	← MATH 230 - Computer Organization and Architecture (4.00)
I&C SCI 53 - Principles in System Design (4.00)	← No Course Articulated
IN4MATX 43 - Introduction to Software Engineering (4.00)	← No Course Articulated
STATS 67 - Introduction to Probability and Statistics for Computer Science (4.00)	← No Course Articulated
Two courses approved for General Education Category II except those related to computing/engineering, economics, or mathematics	← No Course Articulated

END OF AGREEMENT

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: Mount San Antonio College
2022-2023 General Catalog, Semester

Computer Science, B.S.

GENERAL INFORMATION

Admission to the Donald Bren School of Information and Computer Science is highly competitive. The most important selection criteria are completion of the required preparatory courses and academic performance. *This major does not participate in the TAG program.*

Required for admission:

Students must have a cumulative GPA of 3.0 and grade of B or higher in all required courses below:

- One year of computer programming courses* in a single object-language (Python, Java, or C++). Object-oriented programming language courses that do not directly articulate to I&C SCI 31-33 can be used to satisfy the admissions requirements. Introduction to computer science courses do not meet this requirement.
- Two semesters/two quarters of approved first-year Calculus
- One additional approved transferable course for the major (an approved math or CS course - see below)

Additional Approved Courses:

- One course in advanced data structures
- One course in machine organization and assembly language (both topics must be covered)
- One course in software engineering
- One course in discrete mathematics
- One course in Boolean algebra
- One course in linear algebra

***NOTE:** Additional computer science courses beyond the two required are strongly recommended, particularly those that align with the major of interest. Our first year of object-oriented programming is taught in Python. C++ and Java are used extensively in the curriculum; therefore, transfer students should plan to learn it by studying on their own or by completing related programming courses prior to their first quarter at UCI.

Additional courses beyond those required for admission must be taken to fulfill the lower-division degree requirements, as many are prerequisites for upper-division courses. For some transfer students, this may mean that it will take longer than two years to complete their degree.

Students should have I&C SCI 31-33 credit first in order to move further into the program here at UCI.

In fulfillment of the requirements below, a single course may be used only once.

For information regarding the [AP and IB examination](#) credit policies refer to the UCI General Catalogue.

MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER

I&C SCI 31 - Introduction to Programming (4.00)

--- And ---

I&C SCI 32 - Programming with Software Libraries (4.00)

--- And ---

I&C SCI 33 - Intermediate Programming (4.00)

- Please refer to additional important General Information section above

CSCI 110 - Fundamentals of Computer Science (3.50)

--- And ---

CSCI 140 - C++ Language and Object Development (4.00)

MATH 2A - Single-Variable Calculus (4.00)

← **MATH 180** - Calculus and Analytic Geometry (4.00)

MATH 2B - Single-Variable Calculus (4.00)

← **MATH 181** - Calculus and Analytic Geometry (4.00)

One additional approved transferable course for the major (an approved Math, Science, or CSE course):

← No Course Articulated

- Please refer to additional important General Information section above

ONE ADDITIONAL APPROVED TRANSFERABLE COURSE FOR THE MAJOR (MATH OR CS COURSE)

REFER TO TOP OF AGREEMENT

MATH 3A - Introduction to Linear Algebra (4.00)

← **MATH 260** - Linear Algebra (3.00)

--- Or ---

MATH 285 - Linear Algebra and Differential Equations (5.00)

--- Or ---

I&C SCI 6N - Computational Linear Algebra (4.00)	← No Course Articulated
I&C SCI 6B - Boolean Logic and Discrete Structures (4.00)	← No Course Articulated
I&C SCI 6D - Discrete Mathematics for Computer Science (4.00)	← CSCI 190 - Discrete Mathematics Applied to Computer Science (4.00)
I&C SCI 45C - Programming in C/C++ as a Second Language (4.00)	← No Course Articulated
I&C SCI 46 - Data Structure Implementation and Analysis (4.00)	← CSCI 220 - Data Structures I (3.50) --- And --- CSCI 230 - Data Structures II (3.50) --- And --- CSCI 145 - JAVA Language and Object Oriented Programming (4.00)
I&C SCI 51 - Introductory Computer Organization (6.00)	← CSCI 150 - Assembly Language/Machine Architecture (3.50)
I&C SCI 53 - Principles in System Design (4.00)	← No Course Articulated
IN4MATX 43 - Introduction to Software Engineering (4.00)	← No Course Articulated
STATS 67 - Introduction to Probability and Statistics for Computer Science (4.00)	← No Course Articulated
Two courses approved for General Education Category II except those related to computing/engineering, economics, or mathematics	← No Course Articulated

END OF AGREEMENT

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: Sacramento City College
2022-2023 General Catalog, Semester

Computer Science, B.S.

GENERAL INFORMATION

Admission to the Donald Bren School of Information and Computer Science is highly competitive. The most important selection criteria are completion of the required preparatory courses and academic performance. *This major does not participate in the TAG program.*

Required for admission:

Students must have a cumulative GPA of 3.0 and grade of B or higher in all required courses below:

- One year of computer programming courses* in a single object-language (Python, Java, or C++). Object-oriented programming language courses that do not directly articulate to I&C SCI 31-33 can be used to satisfy the admissions requirements. Introduction to computer science courses do not meet this requirement.
- Two semesters/two quarters of approved first-year Calculus
- One additional approved transferable course for the major (an approved math or CS course - see below)

Additional Approved Courses:

- One course in advanced data structures
- One course in machine organization and assembly language (both topics must be covered)
- One course in software engineering
- One course in discrete mathematics
- One course in Boolean algebra
- One course in linear algebra

***NOTE:** Additional computer science courses beyond the two required are strongly recommended, particularly those that align with the major of interest. Our first year of object-oriented programming is taught in Python. C++ and Java are used extensively in the curriculum; therefore, transfer students should plan to learn it by studying on their own or by completing related programming courses prior to their first quarter at UCI.

Additional courses beyond those required for admission must be taken to fulfill the lower-division degree requirements, as many are prerequisites for upper-division courses. For some transfer students, this may mean that it will take longer than two years to complete their degree.

Students should have I&C SCI 31-33 credit first in order to move further into the program here at UCI.

In fulfillment of the requirements below, a single course may be used only once.

For information regarding the [AP and IB examination](#) credit policies refer to the UCI General Catalogue.

MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER

I&C SCI 31 - Introduction to Programming (4.00)

--- And ---

I&C SCI 32 - Programming with Software Libraries (4.00)

--- And ---

I&C SCI 33 - Intermediate Programming (4.00)

- Please refer to additional important General Information section above

← No Course Articulated

MATH 2A - Single-Variable Calculus (4.00)

← **MATH 400** - Calculus I (5.00)

--- Or ---

MATH 355 - Calculus for Biology and Medicine I (4.00)

MATH 2B - Single-Variable Calculus (4.00)

← **MATH 401** - Calculus II (5.00)

--- Or ---

MATH 356 - Calculus for Biology and Medicine II (4.00)

One additional approved transferable course for the major (an approved Math, Science, or CSE course):

- Please refer to additional important General Information section above

← No Course Articulated

ONE ADDITIONAL APPROVED TRANSFERABLE COURSE FOR THE MAJOR (MATH OR CS COURSE)

REFER TO TOP OF AGREEMENT

MATH 3A - Introduction to Linear Algebra (4.00)	← MATH 410 - Introduction to Linear Algebra (3.00)
--- Or ---	
I&C SCI 6N - Computational Linear Algebra (4.00)	← No Course Articulated
I&C SCI 6B - Boolean Logic and Discrete Structures (4.00)	← No Course Articulated
I&C SCI 6D - Discrete Mathematics for Computer Science (4.00)	← No Course Articulated
I&C SCI 45C - Programming in C/C++ as a Second Language (4.00)	← No Course Articulated
I&C SCI 46 - Data Structure Implementation and Analysis (4.00)	← No Course Articulated
I&C SCI 51 - Introductory Computer Organization (6.00)	← No Course Articulated
I&C SCI 53 - Principles in System Design (4.00)	← No Course Articulated
IN4MATX 43 - Introduction to Software Engineering (4.00)	← No Course Articulated
STATS 67 - Introduction to Probability and Statistics for Computer Science (4.00)	← No Course Articulated
Two courses approved for General Education Category II except those related to computing/engineering, economics, or mathematics	← No Course Articulated

END OF AGREEMENT

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: Los Angeles Valley College
2022-2023 General Catalog, Semester

Computer Science, B.S.

GENERAL INFORMATION

Admission to the Donald Bren School of Information and Computer Science is highly competitive. The most important selection criteria are completion of the required preparatory courses and academic performance. *This major does not participate in the TAG program.*

Required for admission:

Students must have a cumulative GPA of 3.0 and grade of B or higher in all required courses below:

- One year of computer programming courses* in a single object-language (Python, Java, or C++). Object-oriented programming language courses that do not directly articulate to I&C SCI 31-33 can be used to satisfy the admissions requirements. Introduction to computer science courses do not meet this requirement.
- Two semesters/two quarters of approved first-year Calculus
- One additional approved transferable course for the major (an approved math or CS course - see below)

Additional Approved Courses:

- One course in advanced data structures
- One course in machine organization and assembly language (both topics must be covered)
- One course in software engineering
- One course in discrete mathematics
- One course in Boolean algebra
- One course in linear algebra

***NOTE:** Additional computer science courses beyond the two required are strongly recommended, particularly those that align with the major of interest. Our first year of object-oriented programming is taught in Python. C++ and Java are used extensively in the curriculum; therefore, transfer students should plan to learn it by studying on their own or by completing related programming courses prior to their first quarter at UCI.

Additional courses beyond those required for admission must be taken to fulfill the lower-division degree requirements, as many are prerequisites for upper-division courses. For some transfer students, this may mean that it will take longer than two years to complete their degree.

Students should have I&C SCI 31-33 credit first in order to move further into the program here at UCI.

In fulfillment of the requirements below, a single course may be used only once.

For information regarding the [AP and IB examination](#) credit policies refer to the UCI General Catalogue.

MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER

I&C SCI 31 - Introduction to Programming (4.00)

--- And ---

I&C SCI 32 - Programming with Software Libraries (4.00)

--- And ---

I&C SCI 33 - Intermediate Programming (4.00)

- Please refer to additional important General Information section above

CS 117 - Intermediate Programming Using C/C++ (3.00)

--- And ---

CS 216 - Object Oriented Programming in C++ (3.00)

MATH 2A - Single-Variable Calculus (4.00)

← **MATH 261** - Calculus I (5.00)

MATH 2B - Single-Variable Calculus (4.00)

← **MATH 262** - Calculus II (5.00)

One additional approved transferable course for the major (an approved Math, Science, or CSE course):

← No Course Articulated

- Please refer to additional important General Information section above

ONE ADDITIONAL APPROVED TRANSFERABLE COURSE FOR THE MAJOR (MATH OR CS COURSE)

REFER TO TOP OF AGREEMENT

MATH 3A - Introduction to Linear Algebra (4.00)

← **MATH 270** - Linear Algebra (3.00)

--- Or ---

I&C SCI 6N - Computational Linear Algebra (4.00)

← No Course Articulated

I&C SCI 6B - Boolean Logic and Discrete Structures (4.00) ← No Course Articulated

I&C SCI 6D - Discrete Mathematics for Computer Science (4.00) ← No Course Articulated

I&C SCI 45C - Programming in C/C++ as a Second Language (4.00) ← No Course Articulated

I&C SCI 46 - Data Structure Implementation and Analysis (4.00) ← No Course Articulated

I&C SCI 51 - Introductory Computer Organization (6.00) ← No Course Articulated

I&C SCI 53 - Principles in System Design (4.00) ← No Course Articulated

IN4MATX 43 - Introduction to Software Engineering (4.00) ← No Course Articulated

STATS 67 - Introduction to Probability and Statistics for Computer Science (4.00) ← No Course Articulated

Two courses approved for General Education Category II except those related to computing/engineering, economics, or mathematics ← No Course Articulated

END OF AGREEMENT

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: Mendocino College
2022-2023 General Catalog, Semester

Computer Science, B.S.

GENERAL INFORMATION

Admission to the Donald Bren School of Information and Computer Science is highly competitive. The most important selection criteria are completion of the required preparatory courses and academic performance. *This major does not participate in the TAG program.*

Required for admission:

Students must have a cumulative GPA of 3.0 and grade of B or higher in all required courses below:

- One year of computer programming courses* in a single object-language (Python, Java, or C++). Object-oriented programming language courses that do not directly articulate to I&C SCI 31-33 can be used to satisfy the admissions requirements. Introduction to computer science courses do not meet this requirement.
- Two semesters/two quarters of approved first-year Calculus
- One additional approved transferable course for the major (an approved math or CS course - see below)

Additional Approved Courses:

- One course in advanced data structures
- One course in machine organization and assembly language (both topics must be covered)
- One course in software engineering
- One course in discrete mathematics
- One course in Boolean algebra
- One course in linear algebra

***NOTE:** Additional computer science courses beyond the two required are strongly recommended, particularly those that align with the major of interest. Our first year of object-oriented programming is taught in Python. C++ and Java are used extensively in the curriculum; therefore, transfer students should plan to learn it by studying on their own or by completing related programming courses prior to their first quarter at UCI.

Additional courses beyond those required for admission must be taken to fulfill the lower-division degree requirements, as many are prerequisites for upper-division courses. For some transfer students, this may mean that it will take longer than two years to complete their degree.

Students should have I&C SCI 31-33 credit first in order to move further into the program here at UCI.

In fulfillment of the requirements below, a single course may be used only once.

For information regarding the [AP and IB examination](#) credit policies refer to the UCI General Catalogue.

MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER

I&C SCI 31 - Introduction to Programming (4.00)

--- And ---

I&C SCI 32 - Programming with Software Libraries (4.00)

--- And ---

I&C SCI 33 - Intermediate Programming (4.00)

- Please refer to additional important General Information section above

← No Course Articulated

MATH 2A - Single-Variable Calculus (4.00)

← **MTH 210** - Calculus and Analytic Geometry I (5.00)

MATH 2B - Single-Variable Calculus (4.00)

← **MTH 211** - Calculus and Analytic Geometry II (5.00)

One additional approved transferable course for the major (an approved Math, Science, or CSE course):

- Please refer to additional important General Information section above

← No Course Articulated

ONE ADDITIONAL APPROVED TRANSFERABLE COURSE FOR THE MAJOR (MATH OR CS COURSE)

REFER TO TOP OF AGREEMENT

MATH 3A - Introduction to Linear Algebra (4.00)

← **MTH 214** - Linear Algebra (4.00)

--- Or ---

I&C SCI 6N - Computational Linear Algebra (4.00)

← No Course Articulated

I&C SCI 6B - Boolean Logic and Discrete Structures (4.00) ← No Course Articulated

I&C SCI 6D - Discrete Mathematics for Computer Science (4.00) ← No Course Articulated

I&C SCI 45C - Programming in C/C++ as a Second Language (4.00) ← No Course Articulated

I&C SCI 46 - Data Structure Implementation and Analysis (4.00) ← No Course Articulated

I&C SCI 51 - Introductory Computer Organization (6.00) ← No Course Articulated

I&C SCI 53 - Principles in System Design (4.00) ← No Course Articulated

IN4MATX 43 - Introduction to Software Engineering (4.00) ← No Course Articulated

STATS 67 - Introduction to Probability and Statistics for Computer Science (4.00) ← No Course Articulated

Two courses approved for General Education Category II except those related to computing/engineering, economics, or mathematics ← No Course Articulated

END OF AGREEMENT

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: American River College
2022-2023 General Catalog, Semester

Computer Science, B.S.

GENERAL INFORMATION

Admission to the Donald Bren School of Information and Computer Science is highly competitive. The most important selection criteria are completion of the required preparatory courses and academic performance. *This major does not participate in the TAG program.*

Required for admission:

Students must have a cumulative GPA of 3.0 and grade of B or higher in all required courses below:

- One year of computer programming courses* in a single object-language (Python, Java, or C++). Object-oriented programming language courses that do not directly articulate to I&C SCI 31-33 can be used to satisfy the admissions requirements. Introduction to computer science courses do not meet this requirement.
- Two semesters/two quarters of approved first-year Calculus
- One additional approved transferable course for the major (an approved math or CS course - see below)

Additional Approved Courses:

- One course in advanced data structures
- One course in machine organization and assembly language (both topics must be covered)
- One course in software engineering
- One course in discrete mathematics
- One course in Boolean algebra
- One course in linear algebra

***NOTE:** Additional computer science courses beyond the two required are strongly recommended, particularly those that align with the major of interest. Our first year of object-oriented programming is taught in Python. C++ and Java are used extensively in the curriculum; therefore, transfer students should plan to learn it by studying on their own or by completing related programming courses prior to their first quarter at UCI.

Additional courses beyond those required for admission must be taken to fulfill the lower-division degree requirements, as many are prerequisites for upper-division courses. For some transfer students, this may mean that it will take longer than two years to complete their degree.

Students should have I&C SCI 31-33 credit first in order to move further into the program here at UCI.

In fulfillment of the requirements below, a single course may be used only once.

For information regarding the [AP and IB examination](#) credit policies refer to the UCI General Catalogue.

MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER

I&C SCI 31 - Introduction to Programming (4.00)

--- And ---

I&C SCI 32 - Programming with Software Libraries (4.00)

--- And ---

I&C SCI 33 - Intermediate Programming (4.00)

- Please refer to additional important General Information section above

CISP 400 - Object Oriented Programming with C++ (4.00)

--- And ---

CISP 430 - Data Structures (4.00)

MATH 2A - Single-Variable Calculus (4.00)

← **MATH 400** - Calculus I (5.00)

MATH 2B - Single-Variable Calculus (4.00)

← **MATH 401** - Calculus II (5.00)

One additional approved transferable course for the major (an approved Math, Science, or CSE course):

← No Course Articulated

- Please refer to additional important General Information section above

ONE ADDITIONAL APPROVED TRANSFERABLE COURSE FOR THE MAJOR (MATH OR CS COURSE)

REFER TO TOP OF AGREEMENT

MATH 3A - Introduction to Linear Algebra (4.00)

← **MATH 410** - Introduction to Linear Algebra (3.00)

--- Or ---

I&C SCI 6N - Computational Linear Algebra (4.00)	← No Course Articulated
I&C SCI 6B - Boolean Logic and Discrete Structures (4.00)	← No Course Articulated
I&C SCI 6D - Discrete Mathematics for Computer Science (4.00)	← No Course Articulated
I&C SCI 45C - Programming in C/C++ as a Second Language (4.00)	← CISP 360 - Introduction to Structured Programming (4.00) --- And --- CISP 400 - Object Oriented Programming with C++ (4.00)
I&C SCI 46 - Data Structure Implementation and Analysis (4.00)	← CISP 400 - Object Oriented Programming with C++ (4.00) --- And --- CISP 430 - Data Structures (4.00)
I&C SCI 51 - Introductory Computer Organization (6.00)	← No Course Articulated
I&C SCI 53 - Principles in System Design (4.00)	← No Course Articulated
IN4MATX 43 - Introduction to Software Engineering (4.00)	← No Course Articulated
STATS 67 - Introduction to Probability and Statistics for Computer Science (4.00)	← No Course Articulated
Two courses approved for General Education Category II except those related to computing/engineering, economics, or mathematics	← No Course Articulated

END OF AGREEMENT

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: Palomar College
2022-2023 General Catalog, Semester

Computer Science, B.S.

GENERAL INFORMATION

Admission to the Donald Bren School of Information and Computer Science is highly competitive. The most important selection criteria are completion of the required preparatory courses and academic performance. *This major does not participate in the TAG program.*

Required for admission:

Students must have a cumulative GPA of 3.0 and grade of B or higher in all required courses below:

- One year of computer programming courses* in a single object-language (Python, Java, or C++). Object-oriented programming language courses that do not directly articulate to I&C SCI 31-33 can be used to satisfy the admissions requirements. Introduction to computer science courses do not meet this requirement.
- Two semesters/two quarters of approved first-year Calculus
- One additional approved transferable course for the major (an approved math or CS course - see below)

Additional Approved Courses:

- One course in advanced data structures
- One course in machine organization and assembly language (both topics must be covered)
- One course in software engineering
- One course in discrete mathematics
- One course in Boolean algebra
- One course in linear algebra

***NOTE:** Additional computer science courses beyond the two required are strongly recommended, particularly those that align with the major of interest. Our first year of object-oriented programming is taught in Python. C++ and Java are used extensively in the curriculum; therefore, transfer students should plan to learn it by studying on their own or by completing related programming courses prior to their first quarter at UCI.

Additional courses beyond those required for admission must be taken to fulfill the lower-division degree requirements, as many are prerequisites for upper-division courses. For some transfer students, this may mean that it will take longer than two years to complete their degree.

Students should have I&C SCI 31-33 credit first in order to move further into the program here at UCI.

In fulfillment of the requirements below, a single course may be used only once.

For information regarding the [AP and IB examination](#) credit policies refer to the UCI General Catalogue.

MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER

I&C SCI 31 - Introduction to Programming (4.00)

--- And ---

I&C SCI 32 - Programming with Software Libraries (4.00)

--- And ---

I&C SCI 33 - Intermediate Programming (4.00)

- Please refer to additional important General Information section above

CSCI 114 - Programming Fundamentals II (4.00)

--- And ---

CSCI 210 - Data Structures (4.00)

MATH 2A - Single-Variable Calculus (4.00)

← **MATH 140** - Calculus with Analytic Geometry, First Course (5.00)

MATH 2B - Single-Variable Calculus (4.00)

← **MATH 141** - Calculus with Analytic Geometry, Second Course (4.00)

One additional approved transferable course for the major (an approved Math, Science, or CSE course):

← No Course Articulated

- Please refer to additional important General Information section above

ONE ADDITIONAL APPROVED TRANSFERABLE COURSE FOR THE MAJOR (MATH OR CS COURSE)

REFER TO TOP OF AGREEMENT

MATH 3A - Introduction to Linear Algebra (4.00)

← **MATH 200** - Introduction to Linear Algebra (3.00)

--- Or ---

I&C SCI 6N - Computational Linear Algebra (4.00)

← No Course Articulated

I&C SCI 6B - Boolean Logic and Discrete Structures (4.00)

← No Course Articulated

I&C SCI 6D - Discrete Mathematics for Computer Science (4.00)

← **MATH 245** - Discrete Mathematics (3.00)

I&C SCI 45C - Programming in C/C++ as a Second Language (4.00)

← No Course Articulated

I&C SCI 46 - Data Structure Implementation and Analysis (4.00)

← No Course Articulated

I&C SCI 51 - Introductory Computer Organization (6.00)

← No Course Articulated

I&C SCI 53 - Principles in System Design (4.00)

← No Course Articulated

IN4MATX 43 - Introduction to Software Engineering (4.00)

← No Course Articulated

STATS 67 - Introduction to Probability and Statistics for Computer Science (4.00)

← No Course Articulated

Two courses approved for General Education Category II except those related to computing/engineering, economics, or mathematics ← No Course Articulated

END OF AGREEMENT

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: Copper Mountain College
2022-2023 General Catalog, Semester

Computer Science, B.S.

GENERAL INFORMATION

Admission to the Donald Bren School of Information and Computer Science is highly competitive. The most important selection criteria are completion of the required preparatory courses and academic performance. *This major does not participate in the TAG program.*

Required for admission:

Students must have a cumulative GPA of 3.0 and grade of B or higher in all required courses below:

- One year of computer programming courses* in a single object-language (Python, Java, or C++). Object-oriented programming language courses that do not directly articulate to I&C SCI 31-33 can be used to satisfy the admissions requirements. Introduction to computer science courses do not meet this requirement.
- Two semesters/two quarters of approved first-year Calculus
- One additional approved transferable course for the major (an approved math or CS course - see below)

Additional Approved Courses:

- One course in advanced data structures
- One course in machine organization and assembly language (both topics must be covered)
- One course in software engineering
- One course in discrete mathematics
- One course in Boolean algebra
- One course in linear algebra

***NOTE:** Additional computer science courses beyond the two required are strongly recommended, particularly those that align with the major of interest. Our first year of object-oriented programming is taught in Python. C++ and Java are used extensively in the curriculum; therefore, transfer students should plan to learn it by studying on their own or by completing related programming courses prior to their first quarter at UCI.

Additional courses beyond those required for admission must be taken to fulfill the lower-division degree requirements, as many are prerequisites for upper-division courses. For some transfer students, this may mean that it will take longer than two years to complete their degree.

Students should have I&C SCI 31-33 credit first in order to move further into the program here at UCI.

In fulfillment of the requirements below, a single course may be used only once.

For information regarding the [AP and IB examination](#) credit policies refer to the UCI General Catalogue.

MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER

I&C SCI 31 - Introduction to Programming (4.00)

--- And ---

I&C SCI 32 - Programming with Software Libraries (4.00)

--- And ---

I&C SCI 33 - Intermediate Programming (4.00)

- Please refer to additional important General Information section above

CS 089 - C++ Programming I (3.00)

--- And ---

CS 089A - C++ Programming II (3.00)

MATH 2A - Single-Variable Calculus (4.00)

← **MATH 001A** - Calculus (4.00)

MATH 2B - Single-Variable Calculus (4.00)

← **MATH 001B** - Calculus (4.00)

One additional approved transferable course for the major (an approved Math, Science, or CSE course):

← No Course Articulated

- Please refer to additional important General Information section above

ONE ADDITIONAL APPROVED TRANSFERABLE COURSE FOR THE MAJOR (MATH OR CS COURSE)

REFER TO TOP OF AGREEMENT

MATH 3A - Introduction to Linear Algebra (4.00)

← **MATH 002B** - Linear Algebra (4.00)

--- Or ---

I&C SCI 6N - Computational Linear Algebra (4.00)

← No Course Articulated

I&C SCI 6B - Boolean Logic and Discrete Structures (4.00) ← No Course Articulated

I&C SCI 6D - Discrete Mathematics for Computer Science (4.00) ← No Course Articulated

I&C SCI 45C - Programming in C/C++ as a Second Language (4.00) ← No Course Articulated

I&C SCI 46 - Data Structure Implementation and Analysis (4.00) ← No Course Articulated

I&C SCI 51 - Introductory Computer Organization (6.00) ← No Course Articulated

I&C SCI 53 - Principles in System Design (4.00) ← No Course Articulated

IN4MATX 43 - Introduction to Software Engineering (4.00) ← No Course Articulated

STATS 67 - Introduction to Probability and Statistics for Computer Science (4.00) ← No Course Articulated

Two courses approved for General Education Category II except those related to computing/engineering, economics, or mathematics ← No Course Articulated

END OF AGREEMENT

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: Ohlone College
2022-2023 General Catalog, Semester

Computer Science, B.S.

GENERAL INFORMATION

Admission to the Donald Bren School of Information and Computer Science is highly competitive. The most important selection criteria are completion of the required preparatory courses and academic performance. *This major does not participate in the TAG program.*

Required for admission:

Students must have a cumulative GPA of 3.0 and grade of B or higher in all required courses below:

- One year of computer programming courses* in a single object-language (Python, Java, or C++). Object-oriented programming language courses that do not directly articulate to I&C SCI 31-33 can be used to satisfy the admissions requirements. Introduction to computer science courses do not meet this requirement.
- Two semesters/two quarters of approved first-year Calculus
- One additional approved transferable course for the major (an approved math or CS course - see below)

Additional Approved Courses:

- One course in advanced data structures
- One course in machine organization and assembly language (both topics must be covered)
- One course in software engineering
- One course in discrete mathematics
- One course in Boolean algebra
- One course in linear algebra

***NOTE:** Additional computer science courses beyond the two required are strongly recommended, particularly those that align with the major of interest. Our first year of object-oriented programming is taught in Python. C++ and Java are used extensively in the curriculum; therefore, transfer students should plan to learn it by studying on their own or by completing related programming courses prior to their first quarter at UCI.

Additional courses beyond those required for admission must be taken to fulfill the lower-division degree requirements, as many are prerequisites for upper-division courses. For some transfer students, this may mean that it will take longer than two years to complete their degree.

Students should have I&C SCI 31-33 credit first in order to move further into the program here at UCI.

In fulfillment of the requirements below, a single course may be used only once.

For information regarding the [AP and IB examination](#) credit policies refer to the UCI General Catalogue.

MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER

I&C SCI 31 - Introduction to Programming (4.00)

--- And ---

I&C SCI 32 - Programming with Software Libraries (4.00)

--- And ---

I&C SCI 33 - Intermediate Programming (4.00)

- Please refer to additional important General Information section above

← No Course Articulated

MATH 2A - Single-Variable Calculus (4.00)

← **MATH 101A** - Calculus with Analytic Geometry (5.00)

MATH 2B - Single-Variable Calculus (4.00)

← **MATH 101B** - Calculus with Analytic Geometry (5.00)

One additional approved transferable course for the major (an approved Math, Science, or CSE course):

- Please refer to additional important General Information section above

← No Course Articulated

ONE ADDITIONAL APPROVED TRANSFERABLE COURSE FOR THE MAJOR (MATH OR CS COURSE)

REFER TO TOP OF AGREEMENT

MATH 3A - Introduction to Linear Algebra (4.00)

← **MATH 103** - Introduction to Linear Algebra (3.00)

--- Or ---

I&C SCI 6N - Computational Linear Algebra (4.00)

← No Course Articulated

I&C SCI 6B - Boolean Logic and Discrete Structures (4.00) ← No Course Articulated

I&C SCI 6D - Discrete Mathematics for Computer Science (4.00) ← No Course Articulated

I&C SCI 45C - Programming in C/C++ as a Second Language (4.00) ← No Course Articulated

I&C SCI 46 - Data Structure Implementation and Analysis (4.00) ← No Course Articulated

I&C SCI 51 - Introductory Computer Organization (6.00) ← No Course Articulated

I&C SCI 53 - Principles in System Design (4.00) ← No Course Articulated

IN4MATX 43 - Introduction to Software Engineering (4.00) ← No Course Articulated

STATS 67 - Introduction to Probability and Statistics for Computer Science (4.00) ← No Course Articulated

Two courses approved for General Education Category II except those related to computing/engineering, economics, or mathematics ← No Course Articulated

END OF AGREEMENT

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: Fresno City College
2022-2023 General Catalog, Semester

Computer Science, B.S.

GENERAL INFORMATION

Admission to the Donald Bren School of Information and Computer Science is highly competitive. The most important selection criteria are completion of the required preparatory courses and academic performance. *This major does not participate in the TAG program.*

Required for admission:

Students must have a cumulative GPA of 3.0 and grade of B or higher in all required courses below:

- One year of computer programming courses* in a single object-language (Python, Java, or C++). Object-oriented programming language courses that do not directly articulate to I&C SCI 31-33 can be used to satisfy the admissions requirements. Introduction to computer science courses do not meet this requirement.
- Two semesters/two quarters of approved first-year Calculus
- One additional approved transferable course for the major (an approved math or CS course - see below)

Additional Approved Courses:

- One course in advanced data structures
- One course in machine organization and assembly language (both topics must be covered)
- One course in software engineering
- One course in discrete mathematics
- One course in Boolean algebra
- One course in linear algebra

***NOTE:** Additional computer science courses beyond the two required are strongly recommended, particularly those that align with the major of interest. Our first year of object-oriented programming is taught in Python. C++ and Java are used extensively in the curriculum; therefore, transfer students should plan to learn it by studying on their own or by completing related programming courses prior to their first quarter at UCI.

Additional courses beyond those required for admission must be taken to fulfill the lower-division degree requirements, as many are prerequisites for upper-division courses. For some transfer students, this may mean that it will take longer than two years to complete their degree.

Students should have I&C SCI 31-33 credit first in order to move further into the program here at UCI.

In fulfillment of the requirements below, a single course may be used only once.

For information regarding the [AP and IB examination](#) credit policies refer to the UCI General Catalogue.

MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER

I&C SCI 31 - Introduction to Programming (4.00)

--- And ---

I&C SCI 32 - Programming with Software Libraries (4.00)

--- And ---

I&C SCI 33 - Intermediate Programming (4.00)

- Please refer to additional important General Information section above

CSCI 40 - Programming Concepts and Methodology I (4.00)

--- And ---

CSCI 41 - Programming Concepts and Methodology II (4.00)

MATH 2A - Single-Variable Calculus (4.00)

← **MATH 5A** - Mathematical Analysis I (5.00)

MATH 2B - Single-Variable Calculus (4.00)

← **MATH 5B** - Mathematical Analysis II (4.00)

One additional approved transferable course for the major (an approved Math, Science, or CSE course):

← No Course Articulated

- Please refer to additional important General Information section above

ONE ADDITIONAL APPROVED TRANSFERABLE COURSE FOR THE MAJOR (MATH OR CS COURSE)

REFER TO TOP OF AGREEMENT

MATH 3A - Introduction to Linear Algebra (4.00)

← **MATH 17** - Differential Equations and Linear Algebra (5.00)

--- Or ---

MATH 26 - Elementary Linear Algebra (3.00)

--- Or ---

I&C SCI 6N - Computational Linear Algebra (4.00)

← No Course Articulated

I&C SCI 6B - Boolean Logic and Discrete Structures (4.00)

← No Course Articulated

I&C SCI 6D - Discrete Mathematics for Computer Science (4.00)

← No Course Articulated

I&C SCI 45C - Programming in C/C++ as a Second Language (4.00)

← No Course Articulated

I&C SCI 46 - Data Structure Implementation and Analysis (4.00)

← No Course Articulated

I&C SCI 51 - Introductory Computer Organization (6.00)

← No Course Articulated

I&C SCI 53 - Principles in System Design (4.00)

← No Course Articulated

IN4MATX 43 - Introduction to Software Engineering (4.00)

← No Course Articulated

STATS 67 - Introduction to Probability and Statistics for Computer Science (4.00)

← No Course Articulated

Two courses approved for General Education Category II except those related to computing/engineering, economics, or mathematics ← No Course Articulated

END OF AGREEMENT

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: Irvine Valley College
2022-2023 General Catalog, Semester

Computer Science, B.S.

GENERAL INFORMATION

Admission to the Donald Bren School of Information and Computer Science is highly competitive. The most important selection criteria are completion of the required preparatory courses and academic performance. *This major does not participate in the TAG program.*

Required for admission:

Students must have a cumulative GPA of 3.0 and grade of B or higher in all required courses below:

- One year of computer programming courses* in a single object-language (Python, Java, or C++). Object-oriented programming language courses that do not directly articulate to I&C SCI 31-33 can be used to satisfy the admissions requirements. Introduction to computer science courses do not meet this requirement.
- Two semesters/two quarters of approved first-year Calculus
- One additional approved transferable course for the major (an approved math or CS course - see below)

Additional Approved Courses:

- One course in advanced data structures
- One course in machine organization and assembly language (both topics must be covered)
- One course in software engineering
- One course in discrete mathematics
- One course in Boolean algebra
- One course in linear algebra

***NOTE:** Additional computer science courses beyond the two required are strongly recommended, particularly those that align with the major of interest. Our first year of object-oriented programming is taught in Python. C++ and Java are used extensively in the curriculum; therefore, transfer students should plan to learn it by studying on their own or by completing related programming courses prior to their first quarter at UCI.

Additional courses beyond those required for admission must be taken to fulfill the lower-division degree requirements, as many are prerequisites for upper-division courses. For some transfer students, this may mean that it will take longer than two years to complete their degree.

Students should have I&C SCI 31-33 credit first in order to move further into the program here at UCI.

In fulfillment of the requirements below, a single course may be used only once.

For information regarding the [AP and IB examination](#) credit policies refer to the UCI General Catalogue.

MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER

I&C SCI 31 - Introduction to Programming (4.00)

--- And ---

I&C SCI 32 - Programming with Software Libraries (4.00)

--- And ---

I&C SCI 33 - Intermediate Programming (4.00)

- Please refer to additional important General Information section above

CS 37 - C++ Programming (3.00)

--- And ---

CS 41 - Data Structures (3.00)

--- And ---

CS 10 - Introduction to Programming Using Python (3.00)

- Articulates with the first two courses in the series only
- Courses must be completed in this order

MATH 2A - Single-Variable Calculus (4.00)



MATH 3A - Analytic Geometry and Calculus I (5.00)

--- Or ---

MATH 3AH - Analytic Geometry and Calculus I Honors (5.00)

MATH 2B - Single-Variable Calculus (4.00)



MATH 3B - Analytic Geometry and Calculus II (5.00)

--- Or ---

MATH 3BH - Analytic Geometry and Calculus II Honors (5.00)

One additional approved transferable course for the major (an approved Math, Science, or CSE course):

- Please refer to additional important General Information section above

← No Course Articulated

ONE ADDITIONAL APPROVED TRANSFERABLE COURSE FOR THE MAJOR (MATH OR CS COURSE)

REFER TO TOP OF AGREEMENT

MATH 3A - Introduction to Linear Algebra (4.00)	← MATH 26 - Introduction to Linear Algebra (4.00)
--- Or ---	
I&C SCI 6N - Computational Linear Algebra (4.00)	← No Course Articulated
I&C SCI 6B - Boolean Logic and Discrete Structures (4.00)	← MATH 31 - Computer Discrete Mathematics II (3.00) Same-As: CS 6B
I&C SCI 6D - Discrete Mathematics for Computer Science (4.00)	← MATH 30 - Computer Discrete Mathematics I (3.00) Same-As: CS 6A
I&C SCI 45C - Programming in C/C++ as a Second Language (4.00)	← No Course Articulated
I&C SCI 46 - Data Structure Implementation and Analysis (4.00)	← No Course Articulated
I&C SCI 51 - Introductory Computer Organization (6.00)	←
	CS 40A - Computer Organization and Assembly Language I (3.00) --- And --- CS 40B - Computer Organization and Assembly Language II (3.00)
I&C SCI 53 - Principles in System Design (4.00)	← No Course Articulated
IN4MATX 43 - Introduction to Software Engineering (4.00)	← No Course Articulated
STATS 67 - Introduction to Probability and Statistics for Computer Science (4.00)	← No Course Articulated
Two courses approved for General Education Category II except those related to computing/engineering, economics, or mathematics	← No Course Articulated

END OF AGREEMENT

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: Woodland Community College
2022-2023 General Catalog, Semester

Computer Science, B.S.

GENERAL INFORMATION

Admission to the Donald Bren School of Information and Computer Science is highly competitive. The most important selection criteria are completion of the required preparatory courses and academic performance. *This major does not participate in the TAG program.*

Required for admission:

Students must have a cumulative GPA of 3.0 and grade of B or higher in all required courses below:

- One year of computer programming courses* in a single object-language (Python, Java, or C++). Object-oriented programming language courses that do not directly articulate to I&C SCI 31-33 can be used to satisfy the admissions requirements. Introduction to computer science courses do not meet this requirement.
- Two semesters/two quarters of approved first-year Calculus
- One additional approved transferable course for the major (an approved math or CS course - see below)

Additional Approved Courses:

- One course in advanced data structures
- One course in machine organization and assembly language (both topics must be covered)
- One course in software engineering
- One course in discrete mathematics
- One course in Boolean algebra
- One course in linear algebra

***NOTE:** Additional computer science courses beyond the two required are strongly recommended, particularly those that align with the major of interest. Our first year of object-oriented programming is taught in Python. C++ and Java are used extensively in the curriculum; therefore, transfer students should plan to learn it by studying on their own or by completing related programming courses prior to their first quarter at UCI.

Additional courses beyond those required for admission must be taken to fulfill the lower-division degree requirements, as many are prerequisites for upper-division courses. For some transfer students, this may mean that it will take longer than two years to complete their degree.

Students should have I&C SCI 31-33 credit first in order to move further into the program here at UCI.

In fulfillment of the requirements below, a single course may be used only once.

For information regarding the [AP and IB examination](#) credit policies refer to the UCI General Catalogue.

MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER

I&C SCI 31 - Introduction to Programming (4.00)

--- And ---

I&C SCI 32 - Programming with Software Libraries (4.00)

--- And ---

I&C SCI 33 - Intermediate Programming (4.00)

- Please refer to additional important General Information section above

← No Course Articulated

MATH 2A - Single-Variable Calculus (4.00)

← **MATH 1A** - Single Variable Calculus I - Early Transcendentals (5.00)

MATH 2B - Single-Variable Calculus (4.00)

← **MATH 1B** - Single Variable Calculus II - Early Transcendentals (4.00)

One additional approved transferable course for the major (an approved Math, Science, or CSE course):

- Please refer to additional important General Information section above

← No Course Articulated

ONE ADDITIONAL APPROVED TRANSFERABLE COURSE FOR THE MAJOR (MATH OR CS COURSE)

REFER TO TOP OF AGREEMENT

MATH 3A - Introduction to Linear Algebra (4.00)

← **MATH 3** - Linear Algebra (3.00)

--- Or ---

I&C SCI 6N - Computational Linear Algebra (4.00)

← No Course Articulated

I&C SCI 6B - Boolean Logic and Discrete Structures (4.00) ← No Course Articulated

I&C SCI 6D - Discrete Mathematics for Computer Science (4.00) ← No Course Articulated

I&C SCI 45C - Programming in C/C++ as a Second Language (4.00) ← No Course Articulated

I&C SCI 46 - Data Structure Implementation and Analysis (4.00) ← No Course Articulated

I&C SCI 51 - Introductory Computer Organization (6.00) ← No Course Articulated

I&C SCI 53 - Principles in System Design (4.00) ← No Course Articulated

IN4MATX 43 - Introduction to Software Engineering (4.00) ← No Course Articulated

STATS 67 - Introduction to Probability and Statistics for Computer Science (4.00) ← No Course Articulated

Two courses approved for General Education Category II except those related to computing/engineering, economics, or mathematics ← No Course Articulated

END OF AGREEMENT

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: Gavilan College
2022-2023 General Catalog, Semester

Computer Science, B.S.

GENERAL INFORMATION

Admission to the Donald Bren School of Information and Computer Science is highly competitive. The most important selection criteria are completion of the required preparatory courses and academic performance. *This major does not participate in the TAG program.*

Required for admission:

Students must have a cumulative GPA of 3.0 and grade of B or higher in all required courses below:

- One year of computer programming courses* in a single object-language (Python, Java, or C++). Object-oriented programming language courses that do not directly articulate to I&C SCI 31-33 can be used to satisfy the admissions requirements. Introduction to computer science courses do not meet this requirement.
- Two semesters/two quarters of approved first-year Calculus
- One additional approved transferable course for the major (an approved math or CS course - see below)

Additional Approved Courses:

- One course in advanced data structures
- One course in machine organization and assembly language (both topics must be covered)
- One course in software engineering
- One course in discrete mathematics
- One course in Boolean algebra
- One course in linear algebra

***NOTE:** Additional computer science courses beyond the two required are strongly recommended, particularly those that align with the major of interest. Our first year of object-oriented programming is taught in Python. C++ and Java are used extensively in the curriculum; therefore, transfer students should plan to learn it by studying on their own or by completing related programming courses prior to their first quarter at UCI.

Additional courses beyond those required for admission must be taken to fulfill the lower-division degree requirements, as many are prerequisites for upper-division courses. For some transfer students, this may mean that it will take longer than two years to complete their degree.

Students should have I&C SCI 31-33 credit first in order to move further into the program here at UCI.

In fulfillment of the requirements below, a single course may be used only once.

For information regarding the [AP and IB examination](#) credit policies refer to the UCI General Catalogue.

MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER

I&C SCI 31 - Introduction to Programming (4.00)

--- And ---

I&C SCI 32 - Programming with Software Libraries (4.00)

--- And ---

I&C SCI 33 - Intermediate Programming (4.00)

- Please refer to additional important General Information section above

← No Course Articulated

MATH 2A - Single-Variable Calculus (4.00)

← **MATH 1A** - Single-Variable Calculus and Analytic Geometry (4.00)

MATH 2B - Single-Variable Calculus (4.00)

← **MATH 1B** - Single-Variable Calculus and Analytic Geometry (4.00)

One additional approved transferable course for the major (an approved Math, Science, or CSE course):

- Please refer to additional important General Information section above

← No Course Articulated

ONE ADDITIONAL APPROVED TRANSFERABLE COURSE FOR THE MAJOR (MATH OR CS COURSE)

REFER TO TOP OF AGREEMENT

MATH 3A - Introduction to Linear Algebra (4.00)

← **MATH 2** - Linear Algebra (3.00)

--- Or ---

I&C SCI 6N - Computational Linear Algebra (4.00)

← No Course Articulated

I&C SCI 6B - Boolean Logic and Discrete Structures (4.00) ← No Course Articulated

I&C SCI 6D - Discrete Mathematics for Computer Science (4.00) ← No Course Articulated

I&C SCI 45C - Programming in C/C++ as a Second Language (4.00) ← No Course Articulated

I&C SCI 46 - Data Structure Implementation and Analysis (4.00) ← No Course Articulated

I&C SCI 51 - Introductory Computer Organization (6.00) ← No Course Articulated

I&C SCI 53 - Principles in System Design (4.00) ← No Course Articulated

IN4MATX 43 - Introduction to Software Engineering (4.00) ← No Course Articulated

STATS 67 - Introduction to Probability and Statistics for Computer Science (4.00) ← No Course Articulated

Two courses approved for General Education Category II except those related to computing/engineering, economics, or mathematics ← No Course Articulated

END OF AGREEMENT

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: San Jose City College
2022-2023 General Catalog, Semester

Computer Science, B.S.

GENERAL INFORMATION

Admission to the Donald Bren School of Information and Computer Science is highly competitive. The most important selection criteria are completion of the required preparatory courses and academic performance. *This major does not participate in the TAG program.*

Required for admission:

Students must have a cumulative GPA of 3.0 and grade of B or higher in all required courses below:

- One year of computer programming courses* in a single object-language (Python, Java, or C++). Object-oriented programming language courses that do not directly articulate to I&C SCI 31-33 can be used to satisfy the admissions requirements. Introduction to computer science courses do not meet this requirement.
- Two semesters/two quarters of approved first-year Calculus
- One additional approved transferable course for the major (an approved math or CS course - see below)

Additional Approved Courses:

- One course in advanced data structures
- One course in machine organization and assembly language (both topics must be covered)
- One course in software engineering
- One course in discrete mathematics
- One course in Boolean algebra
- One course in linear algebra

***NOTE:** Additional computer science courses beyond the two required are strongly recommended, particularly those that align with the major of interest. Our first year of object-oriented programming is taught in Python. C++ and Java are used extensively in the curriculum; therefore, transfer students should plan to learn it by studying on their own or by completing related programming courses prior to their first quarter at UCI.

Additional courses beyond those required for admission must be taken to fulfill the lower-division degree requirements, as many are prerequisites for upper-division courses. For some transfer students, this may mean that it will take longer than two years to complete their degree.

Students should have I&C SCI 31-33 credit first in order to move further into the program here at UCI.

In fulfillment of the requirements below, a single course may be used only once.

For information regarding the [AP and IB examination](#) credit policies refer to the UCI General Catalogue.

MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER

I&C SCI 31 - Introduction to Programming (4.00)

--- And ---

I&C SCI 32 - Programming with Software Libraries (4.00)

--- And ---

I&C SCI 33 - Intermediate Programming (4.00)

- Please refer to additional important General Information section above

← No Course Articulated

MATH 2A - Single-Variable Calculus (4.00)

← **MATH 071** - Calculus I with Analytic Geometry (5.00)

--- Or ---

MATH 071H - Honors Calculus I with Analytic Geometry (5.00)

MATH 2B - Single-Variable Calculus (4.00)

← **MATH 072** - Calculus II with Analytic Geometry (5.00)

One additional approved transferable course for the major (an approved Math, Science, or CSE course):

← No Course Articulated

- Please refer to additional important General Information section above

ONE ADDITIONAL APPROVED TRANSFERABLE COURSE FOR THE MAJOR (MATH OR CS COURSE)

REFER TO TOP OF AGREEMENT

MATH 3A - Introduction to Linear Algebra (4.00)	←	MATH 079 - Linear Algebra (3.00)
--- Or ---		
I&C SCI 6N - Computational Linear Algebra (4.00)	←	No Course Articulated
I&C SCI 6B - Boolean Logic and Discrete Structures (4.00)	←	No Course Articulated
I&C SCI 6D - Discrete Mathematics for Computer Science (4.00)	←	No Course Articulated
I&C SCI 45C - Programming in C/C++ as a Second Language (4.00)	←	No Course Articulated
I&C SCI 46 - Data Structure Implementation and Analysis (4.00)	←	No Course Articulated
I&C SCI 51 - Introductory Computer Organization (6.00)	←	No Course Articulated
I&C SCI 53 - Principles in System Design (4.00)	←	No Course Articulated
IN4MATX 43 - Introduction to Software Engineering (4.00)	←	No Course Articulated
STATS 67 - Introduction to Probability and Statistics for Computer Science (4.00)	←	No Course Articulated
Two courses approved for General Education Category II except those related to computing/engineering, economics, or mathematics	←	No Course Articulated

END OF AGREEMENT

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: Sierra College
2022-2023 General Catalog, Semester

Computer Science, B.S.

GENERAL INFORMATION

Admission to the Donald Bren School of Information and Computer Science is highly competitive. The most important selection criteria are completion of the required preparatory courses and academic performance. *This major does not participate in the TAG program.*

Required for admission:

Students must have a cumulative GPA of 3.0 and grade of B or higher in all required courses below:

- One year of computer programming courses* in a single object-language (Python, Java, or C++). Object-oriented programming language courses that do not directly articulate to I&C SCI 31-33 can be used to satisfy the admissions requirements. Introduction to computer science courses do not meet this requirement.
- Two semesters/two quarters of approved first-year Calculus
- One additional approved transferable course for the major (an approved math or CS course - see below)

Additional Approved Courses:

- One course in advanced data structures
- One course in machine organization and assembly language (both topics must be covered)
- One course in software engineering
- One course in discrete mathematics
- One course in Boolean algebra
- One course in linear algebra

***NOTE:** Additional computer science courses beyond the two required are strongly recommended, particularly those that align with the major of interest. Our first year of object-oriented programming is taught in Python. C++ and Java are used extensively in the curriculum; therefore, transfer students should plan to learn it by studying on their own or by completing related programming courses prior to their first quarter at UCI.

Additional courses beyond those required for admission must be taken to fulfill the lower-division degree requirements, as many are prerequisites for upper-division courses. For some transfer students, this may mean that it will take longer than two years to complete their degree.

Students should have I&C SCI 31-33 credit first in order to move further into the program here at UCI.

In fulfillment of the requirements below, a single course may be used only once.

For information regarding the [AP and IB examination](#) credit policies refer to the UCI General Catalogue.

MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER

I&C SCI 31 - Introduction to Programming (4.00)

--- And ---

I&C SCI 32 - Programming with Software Libraries (4.00)

--- And ---

I&C SCI 33 - Intermediate Programming (4.00)

- Please refer to additional important General Information section above

← No Course Articulated

MATH 2A - Single-Variable Calculus (4.00)

← **MATH 30** - Analytical Geometry and Calculus I (4.00)

MATH 2B - Single-Variable Calculus (4.00)

← **MATH 31** - Analytical Geometry and Calculus II (4.00)

One additional approved transferable course for the major (an approved Math, Science, or CSE course):

← No Course Articulated

- Please refer to additional important General Information section above

ONE ADDITIONAL APPROVED TRANSFERABLE COURSE FOR THE MAJOR (MATH OR CS COURSE)

REFER TO TOP OF AGREEMENT

MATH 3A - Introduction to Linear Algebra (4.00)

← **MATH 33** - Differential Equations and Linear Algebra (6.00)

--- Or ---

I&C SCI 6N - Computational Linear Algebra (4.00)

← No Course Articulated

I&C SCI 6B - Boolean Logic and Discrete Structures (4.00) ← No Course Articulated

I&C SCI 6D - Discrete Mathematics for Computer Science (4.00) ← No Course Articulated

I&C SCI 45C - Programming in C/C++ as a Second Language (4.00) ← No Course Articulated

I&C SCI 46 - Data Structure Implementation and Analysis (4.00) ← No Course Articulated

I&C SCI 51 - Introductory Computer Organization (6.00) ← No Course Articulated

I&C SCI 53 - Principles in System Design (4.00) ← No Course Articulated

IN4MATX 43 - Introduction to Software Engineering (4.00) ← No Course Articulated

STATS 67 - Introduction to Probability and Statistics for Computer Science (4.00) ← No Course Articulated

Two courses approved for General Education Category II except those related to computing/engineering, economics, or mathematics ← No Course Articulated

END OF AGREEMENT

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: Canada College
2022-2023 General Catalog, Semester

Computer Science, B.S.

GENERAL INFORMATION

Admission to the Donald Bren School of Information and Computer Science is highly competitive. The most important selection criteria are completion of the required preparatory courses and academic performance. *This major does not participate in the TAG program.*

Required for admission:

Students must have a cumulative GPA of 3.0 and grade of B or higher in all required courses below:

- One year of computer programming courses* in a single object-language (Python, Java, or C++). Object-oriented programming language courses that do not directly articulate to I&C SCI 31-33 can be used to satisfy the admissions requirements. Introduction to computer science courses do not meet this requirement.
- Two semesters/two quarters of approved first-year Calculus
- One additional approved transferable course for the major (an approved math or CS course - see below)

Additional Approved Courses:

- One course in advanced data structures
- One course in machine organization and assembly language (both topics must be covered)
- One course in software engineering
- One course in discrete mathematics
- One course in Boolean algebra
- One course in linear algebra

***NOTE:** Additional computer science courses beyond the two required are strongly recommended, particularly those that align with the major of interest. Our first year of object-oriented programming is taught in Python. C++ and Java are used extensively in the curriculum; therefore, transfer students should plan to learn it by studying on their own or by completing related programming courses prior to their first quarter at UCI.

Additional courses beyond those required for admission must be taken to fulfill the lower-division degree requirements, as many are prerequisites for upper-division courses. For some transfer students, this may mean that it will take longer than two years to complete their degree.

Students should have I&C SCI 31-33 credit first in order to move further into the program here at UCI.

In fulfillment of the requirements below, a single course may be used only once.

For information regarding the [AP and IB examination](#) credit policies refer to the UCI General Catalogue.

MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER

I&C SCI 31 - Introduction to Programming (4.00)

--- And ---

I&C SCI 32 - Programming with Software Libraries (4.00)

--- And ---

I&C SCI 33 - Intermediate Programming (4.00)

- Please refer to additional important General Information section above

CIS 250 - Introduction to Object Oriented Programming-C++ (3.00)

--- And ---

CIS 252 - Introduction to Data Structures-C++ (3.00)

MATH 2A - Single-Variable Calculus (4.00)

← **MATH 251** - Analytical Geometry and Calculus I (5.00)

MATH 2B - Single-Variable Calculus (4.00)

← **MATH 252** - Analytical Geometry and Calculus II (5.00)

One additional approved transferable course for the major (an approved Math, Science, or CSE course):

← No Course Articulated

- Please refer to additional important General Information section above

ONE ADDITIONAL APPROVED TRANSFERABLE COURSE FOR THE MAJOR (MATH OR CS COURSE)

REFER TO TOP OF AGREEMENT

MATH 3A - Introduction to Linear Algebra (4.00)

← **MATH 270** - Linear Algebra (3.00)

--- Or ---

I&C SCI 6N - Computational Linear Algebra (4.00)

← No Course Articulated

I&C SCI 6B - Boolean Logic and Discrete Structures (4.00) ← No Course Articulated

I&C SCI 6D - Discrete Mathematics for Computer Science (4.00) ← No Course Articulated

I&C SCI 45C - Programming in C/C++ as a Second Language (4.00) ← No Course Articulated

I&C SCI 46 - Data Structure Implementation and Analysis (4.00) ← No Course Articulated

I&C SCI 51 - Introductory Computer Organization (6.00) ← No Course Articulated

I&C SCI 53 - Principles in System Design (4.00) ← No Course Articulated

IN4MATX 43 - Introduction to Software Engineering (4.00) ← No Course Articulated

STATS 67 - Introduction to Probability and Statistics for Computer Science (4.00) ← No Course Articulated

Two courses approved for General Education Category II except those related to computing/engineering, economics, or mathematics ← No Course Articulated

END OF AGREEMENT

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: Victor Valley College
2022-2023 General Catalog, Semester

Computer Science, B.S.

GENERAL INFORMATION

Admission to the Donald Bren School of Information and Computer Science is highly competitive. The most important selection criteria are completion of the required preparatory courses and academic performance. *This major does not participate in the TAG program.*

Required for admission:

Students must have a cumulative GPA of 3.0 and grade of B or higher in all required courses below:

- One year of computer programming courses* in a single object-language (Python, Java, or C++). Object-oriented programming language courses that do not directly articulate to I&C SCI 31-33 can be used to satisfy the admissions requirements. Introduction to computer science courses do not meet this requirement.
- Two semesters/two quarters of approved first-year Calculus
- One additional approved transferable course for the major (an approved math or CS course - see below)

Additional Approved Courses:

- One course in advanced data structures
- One course in machine organization and assembly language (both topics must be covered)
- One course in software engineering
- One course in discrete mathematics
- One course in Boolean algebra
- One course in linear algebra

***NOTE:** Additional computer science courses beyond the two required are strongly recommended, particularly those that align with the major of interest. Our first year of object-oriented programming is taught in Python. C++ and Java are used extensively in the curriculum; therefore, transfer students should plan to learn it by studying on their own or by completing related programming courses prior to their first quarter at UCI.

Additional courses beyond those required for admission must be taken to fulfill the lower-division degree requirements, as many are prerequisites for upper-division courses. For some transfer students, this may mean that it will take longer than two years to complete their degree.

Students should have I&C SCI 31-33 credit first in order to move further into the program here at UCI.

In fulfillment of the requirements below, a single course may be used only once.

For information regarding the [AP and IB examination](#) credit policies refer to the UCI General Catalogue.

MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER

I&C SCI 31 - Introduction to Programming (4.00)

--- And ---

I&C SCI 32 - Programming with Software Libraries (4.00)

--- And ---

I&C SCI 33 - Intermediate Programming (4.00)

- Please refer to additional important General Information section above

← No Course Articulated

MATH 2A - Single-Variable Calculus (4.00)

← **MATH 226** - Analytic Geometry and Calculus I (4.00)

--- Or ---

MATH 226H - Honors Analytic Geometry and Calculus I (4.00)

MATH 2B - Single-Variable Calculus (4.00)

← **MATH 227** - Analytic Geometry and Calculus II (4.00)

--- Or ---

MATH 227H - Honors Analytic Geometry and Calculus II (4.00)

One additional approved transferable course for the major (an approved Math, Science, or CSE course):

- Please refer to additional important General Information section above

← No Course Articulated

ONE ADDITIONAL APPROVED TRANSFERABLE COURSE FOR THE MAJOR (MATH OR CS COURSE)

REFER TO TOP OF AGREEMENT

MATH 3A - Introduction to Linear Algebra (4.00)	←	MATH 231 - Linear Algebra (3.00)
--- Or ---		
I&C SCI 6N - Computational Linear Algebra (4.00)	←	No Course Articulated
I&C SCI 6B - Boolean Logic and Discrete Structures (4.00)	←	No Course Articulated
I&C SCI 6D - Discrete Mathematics for Computer Science (4.00)	←	No Course Articulated
I&C SCI 45C - Programming in C/C++ as a Second Language (4.00)	←	No Course Articulated
I&C SCI 46 - Data Structure Implementation and Analysis (4.00)	←	No Course Articulated
I&C SCI 51 - Introductory Computer Organization (6.00)	←	No Course Articulated
I&C SCI 53 - Principles in System Design (4.00)	←	No Course Articulated
IN4MATX 43 - Introduction to Software Engineering (4.00)	←	No Course Articulated
STATS 67 - Introduction to Probability and Statistics for Computer Science (4.00)	←	No Course Articulated
Two courses approved for General Education Category II except those related to computing/engineering, economics, or mathematics	←	No Course Articulated

END OF AGREEMENT

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: Rio Hondo College
2022-2023 General Catalog, Semester

Computer Science, B.S.

GENERAL INFORMATION

Admission to the Donald Bren School of Information and Computer Science is highly competitive. The most important selection criteria are completion of the required preparatory courses and academic performance. *This major does not participate in the TAG program.*

Required for admission:

Students must have a cumulative GPA of 3.0 and grade of B or higher in all required courses below:

- One year of computer programming courses* in a single object-language (Python, Java, or C++). Object-oriented programming language courses that do not directly articulate to I&C SCI 31-33 can be used to satisfy the admissions requirements. Introduction to computer science courses do not meet this requirement.
- Two semesters/two quarters of approved first-year Calculus
- One additional approved transferable course for the major (an approved math or CS course - see below)

Additional Approved Courses:

- One course in advanced data structures
- One course in machine organization and assembly language (both topics must be covered)
- One course in software engineering
- One course in discrete mathematics
- One course in Boolean algebra
- One course in linear algebra

***NOTE:** Additional computer science courses beyond the two required are strongly recommended, particularly those that align with the major of interest. Our first year of object-oriented programming is taught in Python. C++ and Java are used extensively in the curriculum; therefore, transfer students should plan to learn it by studying on their own or by completing related programming courses prior to their first quarter at UCI.

Additional courses beyond those required for admission must be taken to fulfill the lower-division degree requirements, as many are prerequisites for upper-division courses. For some transfer students, this may mean that it will take longer than two years to complete their degree.

Students should have I&C SCI 31-33 credit first in order to move further into the program here at UCI.

In fulfillment of the requirements below, a single course may be used only once.

For information regarding the [AP and IB examination](#) credit policies refer to the UCI General Catalogue.

MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER

I&C SCI 31 - Introduction to Programming (4.00)

--- And ---

I&C SCI 32 - Programming with Software Libraries (4.00)

--- And ---

I&C SCI 33 - Intermediate Programming (4.00)

- Please refer to additional important General Information section above

CIT 127 - Python Programming I (3.00)

--- And ---

CIT 128 - Python Programming II (3.00)

- Articulates with the first two courses in the series only

MATH 2A - Single-Variable Calculus (4.00)

← **MATH 190** - Calculus I (4.00)

--- Or ---

MATH 190H - Calculus I Honors (4.00)

MATH 2B - Single-Variable Calculus (4.00)

← **MATH 191** - Calculus II (4.00)

One additional approved transferable course for the major (an approved Math, Science, or CSE course):

← No Course Articulated

- Please refer to additional important General Information section above

ONE ADDITIONAL APPROVED TRANSFERABLE COURSE FOR THE MAJOR (MATH OR CS COURSE)

REFER TO TOP OF AGREEMENT

MATH 3A - Introduction to Linear Algebra (4.00)	←	MATH 251 - Linear Algebra and Differential Equations (5.00)
--- Or ---		
I&C SCI 6N - Computational Linear Algebra (4.00)	←	MATH 260 - Linear Algebra (4.00)
--- Or ---		
I&C SCI 6B - Boolean Logic and Discrete Structures (4.00)	←	CS 152 - Discrete Structures (3.00)
I&C SCI 6D - Discrete Mathematics for Computer Science (4.00)	←	No Course Articulated
I&C SCI 45C - Programming in C/C++ as a Second Language (4.00)	←	CIT 125 - Introduction to C++ Programming (4.00)
--- And ---		
		CIT 126 - Advanced C++ Programming (4.00)
I&C SCI 46 - Data Structure Implementation and Analysis (4.00)	←	No Course Articulated
I&C SCI 51 - Introductory Computer Organization (6.00)	←	CS 142 - Computer Architecture and Organization (3.00)
I&C SCI 53 - Principles in System Design (4.00)	←	No Course Articulated
IN4MATX 43 - Introduction to Software Engineering (4.00)	←	No Course Articulated
STATS 67 - Introduction to Probability and Statistics for Computer Science (4.00)	←	No Course Articulated
Two courses approved for General Education Category II except those related to computing/engineering, economics, or mathematics	←	No Course Articulated

END OF AGREEMENT

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: Modesto Junior College
2022-2023 General Catalog, Semester

Computer Science, B.S.

GENERAL INFORMATION

Admission to the Donald Bren School of Information and Computer Science is highly competitive. The most important selection criteria are completion of the required preparatory courses and academic performance. *This major does not participate in the TAG program.*

Required for admission:

Students must have a cumulative GPA of 3.0 and grade of B or higher in all required courses below:

- One year of computer programming courses* in a single object-language (Python, Java, or C++). Object-oriented programming language courses that do not directly articulate to I&C SCI 31-33 can be used to satisfy the admissions requirements. Introduction to computer science courses do not meet this requirement.
- Two semesters/two quarters of approved first-year Calculus
- One additional approved transferable course for the major (an approved math or CS course - see below)

Additional Approved Courses:

- One course in advanced data structures
- One course in machine organization and assembly language (both topics must be covered)
- One course in software engineering
- One course in discrete mathematics
- One course in Boolean algebra
- One course in linear algebra

***NOTE:** Additional computer science courses beyond the two required are strongly recommended, particularly those that align with the major of interest. Our first year of object-oriented programming is taught in Python. C++ and Java are used extensively in the curriculum; therefore, transfer students should plan to learn it by studying on their own or by completing related programming courses prior to their first quarter at UCI.

Additional courses beyond those required for admission must be taken to fulfill the lower-division degree requirements, as many are prerequisites for upper-division courses. For some transfer students, this may mean that it will take longer than two years to complete their degree.

Students should have I&C SCI 31-33 credit first in order to move further into the program here at UCI.

In fulfillment of the requirements below, a single course may be used only once.

For information regarding the [AP and IB examination](#) credit policies refer to the UCI General Catalogue.

MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER

I&C SCI 31 - Introduction to Programming (4.00)

--- And ---

I&C SCI 32 - Programming with Software Libraries (4.00)

--- And ---

I&C SCI 33 - Intermediate Programming (4.00)

- Please refer to additional important General Information section above

← No Course Articulated

MATH 2A - Single-Variable Calculus (4.00)

← **MATH 171** - Calculus: First Course (5.00)

MATH 2B - Single-Variable Calculus (4.00)

← **MATH 172** - Calculus: Second Course (4.00)

One additional approved transferable course for the major (an approved Math, Science, or CSE course):

- Please refer to additional important General Information section above

← No Course Articulated

ONE ADDITIONAL APPROVED TRANSFERABLE COURSE FOR THE MAJOR (MATH OR CS COURSE)

REFER TO TOP OF AGREEMENT

MATH 3A - Introduction to Linear Algebra (4.00)

← **MATH 191** - Linear Algebra (3.00)

--- Or ---

I&C SCI 6N - Computational Linear Algebra (4.00)

← No Course Articulated

I&C SCI 6B - Boolean Logic and Discrete Structures (4.00) ← No Course Articulated

I&C SCI 6D - Discrete Mathematics for Computer Science (4.00) ← No Course Articulated

I&C SCI 45C - Programming in C/C++ as a Second Language (4.00) ← No Course Articulated

I&C SCI 46 - Data Structure Implementation and Analysis (4.00) ← No Course Articulated

I&C SCI 51 - Introductory Computer Organization (6.00) ← No Course Articulated

I&C SCI 53 - Principles in System Design (4.00) ← No Course Articulated

IN4MATX 43 - Introduction to Software Engineering (4.00) ← No Course Articulated

STATS 67 - Introduction to Probability and Statistics for Computer Science (4.00) ← No Course Articulated

Two courses approved for General Education Category II except those related to computing/engineering, economics, or mathematics ← No Course Articulated

END OF AGREEMENT

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: Los Angeles Harbor College
2022-2023 General Catalog, Semester

Computer Science, B.S.

GENERAL INFORMATION

Admission to the Donald Bren School of Information and Computer Science is highly competitive. The most important selection criteria are completion of the required preparatory courses and academic performance. *This major does not participate in the TAG program.*

Required for admission:

Students must have a cumulative GPA of 3.0 and grade of B or higher in all required courses below:

- One year of computer programming courses* in a single object-language (Python, Java, or C++). Object-oriented programming language courses that do not directly articulate to I&C SCI 31-33 can be used to satisfy the admissions requirements. Introduction to computer science courses do not meet this requirement.
- Two semesters/two quarters of approved first-year Calculus
- One additional approved transferable course for the major (an approved math or CS course - see below)

Additional Approved Courses:

- One course in advanced data structures
- One course in machine organization and assembly language (both topics must be covered)
- One course in software engineering
- One course in discrete mathematics
- One course in Boolean algebra
- One course in linear algebra

***NOTE:** Additional computer science courses beyond the two required are strongly recommended, particularly those that align with the major of interest. Our first year of object-oriented programming is taught in Python. C++ and Java are used extensively in the curriculum; therefore, transfer students should plan to learn it by studying on their own or by completing related programming courses prior to their first quarter at UCI.

Additional courses beyond those required for admission must be taken to fulfill the lower-division degree requirements, as many are prerequisites for upper-division courses. For some transfer students, this may mean that it will take longer than two years to complete their degree.

Students should have I&C SCI 31-33 credit first in order to move further into the program here at UCI.

In fulfillment of the requirements below, a single course may be used only once.

For information regarding the [AP and IB examination](#) credit policies refer to the UCI General Catalogue.

MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER

I&C SCI 31 - Introduction to Programming (4.00)

--- And ---

I&C SCI 32 - Programming with Software Libraries (4.00)

--- And ---

I&C SCI 33 - Intermediate Programming (4.00)

- Please refer to additional important General Information section above

← No Course Articulated

MATH 2A - Single-Variable Calculus (4.00)

← **MATH 265** - Calculus with Analytic Geometry I (5.00)

MATH 2B - Single-Variable Calculus (4.00)

← **MATH 266** - Calculus with Analytic Geometry II (5.00)

One additional approved transferable course for the major (an approved Math, Science, or CSE course):

- Please refer to additional important General Information section above

← No Course Articulated

ONE ADDITIONAL APPROVED TRANSFERABLE COURSE FOR THE MAJOR (MATH OR CS COURSE)

REFER TO TOP OF AGREEMENT

MATH 3A - Introduction to Linear Algebra (4.00)

← **MATH 270** - Linear Algebra (3.00)

--- Or ---

I&C SCI 6N - Computational Linear Algebra (4.00)

← No Course Articulated

I&C SCI 6B - Boolean Logic and Discrete Structures (4.00)	← No Course Articulated
I&C SCI 6D - Discrete Mathematics for Computer Science (4.00)	← No Course Articulated
I&C SCI 45C - Programming in C/C++ as a Second Language (4.00)	← No Course Articulated
I&C SCI 46 - Data Structure Implementation and Analysis (4.00)	← No Course Articulated
I&C SCI 51 - Introductory Computer Organization (6.00)	← CS 130 - Introduction to Computer Architecture and Organization (3.00)
I&C SCI 53 - Principles in System Design (4.00)	← No Course Articulated
IN4MATX 43 - Introduction to Software Engineering (4.00)	← No Course Articulated
STATS 67 - Introduction to Probability and Statistics for Computer Science (4.00)	← No Course Articulated
Two courses approved for General Education Category II except those related to computing/engineering, economics, or mathematics	← No Course Articulated

END OF AGREEMENT

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: MiraCosta College
2022-2023 General Catalog, Semester

Computer Science, B.S.

GENERAL INFORMATION

Admission to the Donald Bren School of Information and Computer Science is highly competitive. The most important selection criteria are completion of the required preparatory courses and academic performance. *This major does not participate in the TAG program.*

Required for admission:

Students must have a cumulative GPA of 3.0 and grade of B or higher in all required courses below:

- One year of computer programming courses* in a single object-language (Python, Java, or C++). Object-oriented programming language courses that do not directly articulate to I&C SCI 31-33 can be used to satisfy the admissions requirements. Introduction to computer science courses do not meet this requirement.
- Two semesters/two quarters of approved first-year Calculus
- One additional approved transferable course for the major (an approved math or CS course - see below)

Additional Approved Courses:

- One course in advanced data structures
- One course in machine organization and assembly language (both topics must be covered)
- One course in software engineering
- One course in discrete mathematics
- One course in Boolean algebra
- One course in linear algebra

***NOTE:** Additional computer science courses beyond the two required are strongly recommended, particularly those that align with the major of interest. Our first year of object-oriented programming is taught in Python. C++ and Java are used extensively in the curriculum; therefore, transfer students should plan to learn it by studying on their own or by completing related programming courses prior to their first quarter at UCI.

Additional courses beyond those required for admission must be taken to fulfill the lower-division degree requirements, as many are prerequisites for upper-division courses. For some transfer students, this may mean that it will take longer than two years to complete their degree.

Students should have I&C SCI 31-33 credit first in order to move further into the program here at UCI.

In fulfillment of the requirements below, a single course may be used only once.

For information regarding the [AP and IB examination](#) credit policies refer to the UCI General Catalogue.

MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER

I&C SCI 31 - Introduction to Programming (4.00)

--- And ---

I&C SCI 32 - Programming with Software Libraries (4.00)

--- And ---

I&C SCI 33 - Intermediate Programming (4.00)

- Please refer to additional important General Information section above

← **CS 138** - Programming with Python (3.00)

- Articulates with the first course in the series only

MATH 2A - Single-Variable Calculus (4.00)

← **MATH 150** - Calculus and Analytic Geometry I (5.00)

--- Or ---

MATH 150H - Calculus and Analytic Geometry I (Honors) (5.00)

MATH 2B - Single-Variable Calculus (4.00)

← **MATH 155** - Calculus and Analytic Geometry II (4.00)

--- Or ---

MATH 155H - Calculus and Analytical Geometry II (Honors) (4.00)

One additional approved transferable course for the major (an approved Math, Science, or CSE course):

- Please refer to additional important General Information section above

← No Course Articulated

ONE ADDITIONAL APPROVED TRANSFERABLE COURSE FOR THE MAJOR (MATH OR CS COURSE)

REFER TO TOP OF AGREEMENT

MATH 3A - Introduction to Linear Algebra (4.00)	←	MATH 270 - Linear Algebra (4.00)
--- Or ---		
		MATH 270H - Linear Algebra (Honors) (4.00)
--- Or ---		
I&C SCI 6N - Computational Linear Algebra (4.00)	←	No Course Articulated
I&C SCI 6B - Boolean Logic and Discrete Structures (4.00)	←	CS 226 - Discrete Structures (4.00)
--- Or ---		
		MATH 226 - Discrete Mathematics (4.00)
I&C SCI 6D - Discrete Mathematics for Computer Science (4.00)	←	CS 226 - Discrete Structures (4.00)
--- Or ---		
		MATH 226 - Discrete Mathematics (4.00)
I&C SCI 45C - Programming in C/C++ as a Second Language (4.00)	←	No Course Articulated
I&C SCI 46 - Data Structure Implementation and Analysis (4.00)	←	No Course Articulated
I&C SCI 51 - Introductory Computer Organization (6.00)	←	No Course Articulated
I&C SCI 53 - Principles in System Design (4.00)	←	No Course Articulated
IN4MATX 43 - Introduction to Software Engineering (4.00)	←	CS 210 - Software Engineering (3.00)
STATS 67 - Introduction to Probability and Statistics for Computer Science (4.00)	←	No Course Articulated
Two courses approved for General Education Category II except those related to computing/engineering, economics, or mathematics	←	No Course Articulated

END OF AGREEMENT

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: Cerritos College
2022-2023 General Catalog, Semester

Computer Science, B.S.

GENERAL INFORMATION

Admission to the Donald Bren School of Information and Computer Science is highly competitive. The most important selection criteria are completion of the required preparatory courses and academic performance. *This major does not participate in the TAG program.*

Required for admission:

Students must have a cumulative GPA of 3.0 and grade of B or higher in all required courses below:

- One year of computer programming courses* in a single object-language (Python, Java, or C++). Object-oriented programming language courses that do not directly articulate to I&C SCI 31-33 can be used to satisfy the admissions requirements. Introduction to computer science courses do not meet this requirement.
- Two semesters/two quarters of approved first-year Calculus
- One additional approved transferable course for the major (an approved math or CS course - see below)

Additional Approved Courses:

- One course in advanced data structures
- One course in machine organization and assembly language (both topics must be covered)
- One course in software engineering
- One course in discrete mathematics
- One course in Boolean algebra
- One course in linear algebra

***NOTE:** Additional computer science courses beyond the two required are strongly recommended, particularly those that align with the major of interest. Our first year of object-oriented programming is taught in Python. C++ and Java are used extensively in the curriculum; therefore, transfer students should plan to learn it by studying on their own or by completing related programming courses prior to their first quarter at UCI.

Additional courses beyond those required for admission must be taken to fulfill the lower-division degree requirements, as many are prerequisites for upper-division courses. For some transfer students, this may mean that it will take longer than two years to complete their degree.

Students should have I&C SCI 31-33 credit first in order to move further into the program here at UCI.

In fulfillment of the requirements below, a single course may be used only once.

For information regarding the [AP and IB examination](#) credit policies refer to the UCI General Catalogue.

MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER

I&C SCI 31 - Introduction to Programming (4.00)

--- And ---

I&C SCI 32 - Programming with Software Libraries (4.00)

--- And ---

I&C SCI 33 - Intermediate Programming (4.00)

- Please refer to additional important General Information section above

CIS 180 - Programming in C/C++ (3.50)

--- And ---

CIS 280X - Object-Oriented Programming in C++ (3.50)

MATH 2A - Single-Variable Calculus (4.00)

← **MATH 170** - Analytic Geometry and Calculus I (4.00)

MATH 2B - Single-Variable Calculus (4.00)

← **MATH 190** - Analytic Geometry and Calculus II (4.00)

One additional approved transferable course for the major (an approved Math, Science, or CSE course):

← No Course Articulated

- Please refer to additional important General Information section above

ONE ADDITIONAL APPROVED TRANSFERABLE COURSE FOR THE MAJOR (MATH OR CS COURSE)

REFER TO TOP OF AGREEMENT

MATH 3A - Introduction to Linear Algebra (4.00)

← **MATH 250** - Linear Algebra and Differential Equations (5.00)

--- Or ---

I&C SCI 6N - Computational Linear Algebra (4.00)

← No Course Articulated

I&C SCI 6B - Boolean Logic and Discrete Structures (4.00)	← CIS 185 - Discrete Structures (3.00)
I&C SCI 6D - Discrete Mathematics for Computer Science (4.00)	← No Course Articulated
I&C SCI 45C - Programming in C/C++ as a Second Language (4.00)	← No Course Articulated
I&C SCI 46 - Data Structure Implementation and Analysis (4.00)	← No Course Articulated
I&C SCI 51 - Introductory Computer Organization (6.00)	← No Course Articulated
I&C SCI 53 - Principles in System Design (4.00)	← No Course Articulated
IN4MATX 43 - Introduction to Software Engineering (4.00)	← No Course Articulated
STATS 67 - Introduction to Probability and Statistics for Computer Science (4.00)	← No Course Articulated
Two courses approved for General Education Category II except those related to computing/engineering, economics, or mathematics	← No Course Articulated

END OF AGREEMENT

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: Lake Tahoe Community College
2022-2023 General Catalog, Quarter

Computer Science, B.S.

GENERAL INFORMATION

Admission to the Donald Bren School of Information and Computer Science is highly competitive. The most important selection criteria are completion of the required preparatory courses and academic performance. *This major does not participate in the TAG program.*

Required for admission:

Students must have a cumulative GPA of 3.0 and grade of B or higher in all required courses below:

- One year of computer programming courses* in a single object-language (Python, Java, or C++). Object-oriented programming language courses that do not directly articulate to I&C SCI 31-33 can be used to satisfy the admissions requirements. Introduction to computer science courses do not meet this requirement.
- Two semesters/two quarters of approved first-year Calculus
- One additional approved transferable course for the major (an approved math or CS course - see below)

Additional Approved Courses:

- One course in advanced data structures
- One course in machine organization and assembly language (both topics must be covered)
- One course in software engineering
- One course in discrete mathematics
- One course in Boolean algebra
- One course in linear algebra

***NOTE:** Additional computer science courses beyond the two required are strongly recommended, particularly those that align with the major of interest. Our first year of object-oriented programming is taught in Python. C++ and Java are used extensively in the curriculum; therefore, transfer students should plan to learn it by studying on their own or by completing related programming courses prior to their first quarter at UCI.

Additional courses beyond those required for admission must be taken to fulfill the lower-division degree requirements, as many are prerequisites for upper-division courses. For some transfer students, this may mean that it will take longer than two years to complete their degree.

Students should have I&C SCI 31-33 credit first in order to move further into the program here at UCI.

In fulfillment of the requirements below, a single course may be used only once.

For information regarding the [AP and IB examination](#) credit policies refer to the UCI General Catalogue.

MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER

I&C SCI 31 - Introduction to Programming (4.00)

--- And ---

I&C SCI 32 - Programming with Software Libraries (4.00)

--- And ---

I&C SCI 33 - Intermediate Programming (4.00)

- Please refer to additional important General Information section above

CIS 120A - Computer Programming I (4.00)

--- And ---

CIS 120B - Computer Programming II (4.00)

--- And ---

CIS 120C - Computer Programming III (4.00)

MATH 2A - Single-Variable Calculus (4.00)

← MAT 105 - Calculus and Analytic Geometry (Part I) (5.00)

MATH 2B - Single-Variable Calculus (4.00)

← MAT 106 - Calculus and Analytic Geometry (Part II) (5.00)

One additional approved transferable course for the major (an approved Math, Science, or CSE course):

← No Course Articulated

- Please refer to additional important General Information section above

ONE ADDITIONAL APPROVED TRANSFERABLE COURSE FOR THE MAJOR (MATH OR CS COURSE)

REFER TO TOP OF AGREEMENT

MATH 3A - Introduction to Linear Algebra (4.00)

← MAT 203 - Linear Algebra (5.00)

--- Or ---

I&C SCI 6N - Computational Linear Algebra (4.00)

← No Course Articulated

I&C SCI 6B - Boolean Logic and Discrete Structures (4.00) ← No Course Articulated

I&C SCI 6D - Discrete Mathematics for Computer Science (4.00) ← No Course Articulated

I&C SCI 45C - Programming in C/C++ as a Second Language (4.00) ← No Course Articulated

I&C SCI 46 - Data Structure Implementation and Analysis (4.00) ← No Course Articulated

I&C SCI 51 - Introductory Computer Organization (6.00) ← No Course Articulated

I&C SCI 53 - Principles in System Design (4.00) ← No Course Articulated

IN4MATX 43 - Introduction to Software Engineering (4.00) ← No Course Articulated

STATS 67 - Introduction to Probability and Statistics for Computer Science (4.00) ← No Course Articulated

Two courses approved for General Education Category II except those related to computing/engineering, economics, or mathematics ← No Course Articulated

END OF AGREEMENT

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: Citrus College
2022-2023 General Catalog, Semester

Computer Science, B.S.

GENERAL INFORMATION

Admission to the Donald Bren School of Information and Computer Science is highly competitive. The most important selection criteria are completion of the required preparatory courses and academic performance. *This major does not participate in the TAG program.*

Required for admission:

Students must have a cumulative GPA of 3.0 and grade of B or higher in all required courses below:

- One year of computer programming courses* in a single object-language (Python, Java, or C++). Object-oriented programming language courses that do not directly articulate to I&C SCI 31-33 can be used to satisfy the admissions requirements. Introduction to computer science courses do not meet this requirement.
- Two semesters/two quarters of approved first-year Calculus
- One additional approved transferable course for the major (an approved math or CS course - see below)

Additional Approved Courses:

- One course in advanced data structures
- One course in machine organization and assembly language (both topics must be covered)
- One course in software engineering
- One course in discrete mathematics
- One course in Boolean algebra
- One course in linear algebra

***NOTE:** Additional computer science courses beyond the two required are strongly recommended, particularly those that align with the major of interest. Our first year of object-oriented programming is taught in Python. C++ and Java are used extensively in the curriculum; therefore, transfer students should plan to learn it by studying on their own or by completing related programming courses prior to their first quarter at UCI.

Additional courses beyond those required for admission must be taken to fulfill the lower-division degree requirements, as many are prerequisites for upper-division courses. For some transfer students, this may mean that it will take longer than two years to complete their degree.

Students should have I&C SCI 31-33 credit first in order to move further into the program here at UCI.

In fulfillment of the requirements below, a single course may be used only once.

For information regarding the [AP and IB examination](#) credit policies refer to the UCI General Catalogue.

MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER

I&C SCI 31 - Introduction to Programming (4.00)

--- And ---

I&C SCI 32 - Programming with Software Libraries (4.00)

--- And ---

I&C SCI 33 - Intermediate Programming (4.00)

- Please refer to additional important General Information section above

← No Course Articulated

MATH 2A - Single-Variable Calculus (4.00)

← **MATH 190** - Calculus with Analytic Geometry (5.00)

MATH 2B - Single-Variable Calculus (4.00)

← **MATH 191** - Calculus with Analytic Geometry II (5.00)

One additional approved transferable course for the major (an approved Math, Science, or CSE course):

- Please refer to additional important General Information section above

← No Course Articulated

ONE ADDITIONAL APPROVED TRANSFERABLE COURSE FOR THE MAJOR (MATH OR CS COURSE)

REFER TO TOP OF AGREEMENT

MATH 3A - Introduction to Linear Algebra (4.00)

← **MATH 212** - Introduction to Linear Algebra (4.00)

--- Or ---

I&C SCI 6N - Computational Linear Algebra (4.00)

← No Course Articulated

I&C SCI 6B - Boolean Logic and Discrete Structures (4.00) ← No Course Articulated

I&C SCI 6D - Discrete Mathematics for Computer Science (4.00) ← No Course Articulated

I&C SCI 45C - Programming in C/C++ as a Second Language (4.00) ← No Course Articulated

I&C SCI 46 - Data Structure Implementation and Analysis (4.00) ← No Course Articulated

I&C SCI 51 - Introductory Computer Organization (6.00) ← No Course Articulated

I&C SCI 53 - Principles in System Design (4.00) ← No Course Articulated

IN4MATX 43 - Introduction to Software Engineering (4.00) ← No Course Articulated

STATS 67 - Introduction to Probability and Statistics for Computer Science (4.00) ← No Course Articulated

Two courses approved for General Education Category II except those related to computing/engineering, economics, or mathematics ← No Course Articulated

END OF AGREEMENT

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: College of Marin
2022-2023 General Catalog, Semester

Computer Science, B.S.

GENERAL INFORMATION

Admission to the Donald Bren School of Information and Computer Science is highly competitive. The most important selection criteria are completion of the required preparatory courses and academic performance. *This major does not participate in the TAG program.*

Required for admission:

Students must have a cumulative GPA of 3.0 and grade of B or higher in all required courses below:

- One year of computer programming courses* in a single object-language (Python, Java, or C++). Object-oriented programming language courses that do not directly articulate to I&C SCI 31-33 can be used to satisfy the admissions requirements. Introduction to computer science courses do not meet this requirement.
- Two semesters/two quarters of approved first-year Calculus
- One additional approved transferable course for the major (an approved math or CS course - see below)

Additional Approved Courses:

- One course in advanced data structures
- One course in machine organization and assembly language (both topics must be covered)
- One course in software engineering
- One course in discrete mathematics
- One course in Boolean algebra
- One course in linear algebra

***NOTE:** Additional computer science courses beyond the two required are strongly recommended, particularly those that align with the major of interest. Our first year of object-oriented programming is taught in Python. C++ and Java are used extensively in the curriculum; therefore, transfer students should plan to learn it by studying on their own or by completing related programming courses prior to their first quarter at UCI.

Additional courses beyond those required for admission must be taken to fulfill the lower-division degree requirements, as many are prerequisites for upper-division courses. For some transfer students, this may mean that it will take longer than two years to complete their degree.

Students should have I&C SCI 31-33 credit first in order to move further into the program here at UCI.

In fulfillment of the requirements below, a single course may be used only once.

For information regarding the [AP and IB examination](#) credit policies refer to the UCI General Catalogue.

MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER

I&C SCI 31 - Introduction to Programming (4.00)

--- And ---

I&C SCI 32 - Programming with Software Libraries (4.00)

--- And ---

I&C SCI 33 - Intermediate Programming (4.00)

- Please refer to additional important General Information section above

COMP 135 - Introduction to Computer Programming Using Java (4.00)

--- And ---

COMP 232 - Advanced Programming in JAVA (4.00)

--- Or ---

COMP 130 - Introduction to Computer Programming Using C++ (4.00)

--- And ---

COMP 235 - Advanced Programming in C++ (4.00)

MATH 2A - Single-Variable Calculus (4.00)

← **MATH 123** - Analytic Geometry and Calculus I (5.00)

MATH 2B - Single-Variable Calculus (4.00)

← **MATH 124** - Analytic Geometry and Calculus II (5.00)

One additional approved transferable course for the major (an approved Math, Science, or CSE course):

← No Course Articulated

- Please refer to additional important General Information section above

ONE ADDITIONAL APPROVED TRANSFERABLE COURSE FOR THE MAJOR (MATH OR CS COURSE)

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

MATH 3A - Introduction to Linear Algebra (4.00)	← MATH 116 - Linear Algebra (4.00)
--- Or ---	
I&C SCI 6N - Computational Linear Algebra (4.00)	← No Course Articulated
I&C SCI 6B - Boolean Logic and Discrete Structures (4.00)	← No Course Articulated
I&C SCI 6D - Discrete Mathematics for Computer Science (4.00)	← MATH 117 - Discrete Mathematics (3.00) Same-As: COMP 117
--- Or ---	
	COMP 117 - Discrete Mathematics (3.00) Same-As: MATH 117
I&C SCI 45C - Programming in C/C++ as a Second Language (4.00)	← No Course Articulated
I&C SCI 46 - Data Structure Implementation and Analysis (4.00)	← No Course Articulated
I&C SCI 51 - Introductory Computer Organization (6.00)	← No Course Articulated
I&C SCI 53 - Principles in System Design (4.00)	← No Course Articulated
IN4MATX 43 - Introduction to Software Engineering (4.00)	← No Course Articulated
STATS 67 - Introduction to Probability and Statistics for Computer Science (4.00)	← No Course Articulated
Two courses approved for General Education Category II except those related to computing/engineering, economics, or mathematics	← No Course Articulated

END OF AGREEMENT

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: Butte College
2022-2023 General Catalog, Semester

Computer Science, B.S.

GENERAL INFORMATION

Admission to the Donald Bren School of Information and Computer Science is highly competitive. The most important selection criteria are completion of the required preparatory courses and academic performance. *This major does not participate in the TAG program.*

Required for admission:

Students must have a cumulative GPA of 3.0 and grade of B or higher in all required courses below:

- One year of computer programming courses* in a single object-language (Python, Java, or C++). Object-oriented programming language courses that do not directly articulate to I&C SCI 31-33 can be used to satisfy the admissions requirements. Introduction to computer science courses do not meet this requirement.
- Two semesters/two quarters of approved first-year Calculus
- One additional approved transferable course for the major (an approved math or CS course - see below)

Additional Approved Courses:

- One course in advanced data structures
- One course in machine organization and assembly language (both topics must be covered)
- One course in software engineering
- One course in discrete mathematics
- One course in Boolean algebra
- One course in linear algebra

***NOTE:** Additional computer science courses beyond the two required are strongly recommended, particularly those that align with the major of interest. Our first year of object-oriented programming is taught in Python. C++ and Java are used extensively in the curriculum; therefore, transfer students should plan to learn it by studying on their own or by completing related programming courses prior to their first quarter at UCI.

Additional courses beyond those required for admission must be taken to fulfill the lower-division degree requirements, as many are prerequisites for upper-division courses. For some transfer students, this may mean that it will take longer than two years to complete their degree.

Students should have I&C SCI 31-33 credit first in order to move further into the program here at UCI.

In fulfillment of the requirements below, a single course may be used only once.

For information regarding the [AP and IB examination](#) credit policies refer to the UCI General Catalogue.

MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER

I&C SCI 31 - Introduction to Programming (4.00)

--- And ---

I&C SCI 32 - Programming with Software Libraries (4.00)

--- And ---

I&C SCI 33 - Intermediate Programming (4.00)

- Please refer to additional important General Information section above

← No Course Articulated

MATH 2A - Single-Variable Calculus (4.00)

← **MATH 30** - Analytic Geometry and Calculus I (5.00)

MATH 2B - Single-Variable Calculus (4.00)

← **MATH 31** - Analytic Geometry and Calculus II (4.00)

One additional approved transferable course for the major (an approved Math, Science, or CSE course):

- Please refer to additional important General Information section above

← No Course Articulated

ONE ADDITIONAL APPROVED TRANSFERABLE COURSE FOR THE MAJOR (MATH OR CS COURSE)

REFER TO TOP OF AGREEMENT

MATH 3A - Introduction to Linear Algebra (4.00)

← **MATH 42** - Linear Algebra (3.00)

--- Or ---

I&C SCI 6N - Computational Linear Algebra (4.00)

← No Course Articulated

I&C SCI 6B - Boolean Logic and Discrete Structures (4.00) ← No Course Articulated

I&C SCI 6D - Discrete Mathematics for Computer Science (4.00) ← No Course Articulated

I&C SCI 45C - Programming in C/C++ as a Second Language (4.00) ← No Course Articulated

I&C SCI 46 - Data Structure Implementation and Analysis (4.00) ← No Course Articulated

I&C SCI 51 - Introductory Computer Organization (6.00) ← No Course Articulated

I&C SCI 53 - Principles in System Design (4.00) ← No Course Articulated

IN4MATX 43 - Introduction to Software Engineering (4.00) ← No Course Articulated

STATS 67 - Introduction to Probability and Statistics for Computer Science (4.00) ← No Course Articulated

Two courses approved for General Education Category II except those related to computing/engineering, economics, or mathematics ← No Course Articulated

END OF AGREEMENT

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: Oxnard College
2022-2023 General Catalog, Semester

Computer Science, B.S.

GENERAL INFORMATION

Admission to the Donald Bren School of Information and Computer Science is highly competitive. The most important selection criteria are completion of the required preparatory courses and academic performance. *This major does not participate in the TAG program.*

Required for admission:

Students must have a cumulative GPA of 3.0 and grade of B or higher in all required courses below:

- One year of computer programming courses* in a single object-language (Python, Java, or C++). Object-oriented programming language courses that do not directly articulate to I&C SCI 31-33 can be used to satisfy the admissions requirements. Introduction to computer science courses do not meet this requirement.
- Two semesters/two quarters of approved first-year Calculus
- One additional approved transferable course for the major (an approved math or CS course - see below)

Additional Approved Courses:

- One course in advanced data structures
- One course in machine organization and assembly language (both topics must be covered)
- One course in software engineering
- One course in discrete mathematics
- One course in Boolean algebra
- One course in linear algebra

***NOTE:** Additional computer science courses beyond the two required are strongly recommended, particularly those that align with the major of interest. Our first year of object-oriented programming is taught in Python. C++ and Java are used extensively in the curriculum; therefore, transfer students should plan to learn it by studying on their own or by completing related programming courses prior to their first quarter at UCI.

Additional courses beyond those required for admission must be taken to fulfill the lower-division degree requirements, as many are prerequisites for upper-division courses. For some transfer students, this may mean that it will take longer than two years to complete their degree.

Students should have I&C SCI 31-33 credit first in order to move further into the program here at UCI.

In fulfillment of the requirements below, a single course may be used only once.

For information regarding the [AP and IB examination](#) credit policies refer to the UCI General Catalogue.

MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER

I&C SCI 31 - Introduction to Programming (4.00)

--- And ---

I&C SCI 32 - Programming with Software Libraries (4.00)

--- And ---

I&C SCI 33 - Intermediate Programming (4.00)

- Please refer to additional important General Information section above

← No Course Articulated

MATH 2A - Single-Variable Calculus (4.00)

← **MATH R120** - Calculus with Analytic Geometry I (5.00)

MATH 2B - Single-Variable Calculus (4.00)

← **MATH R121** - Calculus with Analytic Geometry II (5.00)

One additional approved transferable course for the major (an approved Math, Science, or CSE course):

← No Course Articulated

- Please refer to additional important General Information section above

ONE ADDITIONAL APPROVED TRANSFERABLE COURSE FOR THE MAJOR (MATH OR CS COURSE)

REFER TO TOP OF AGREEMENT

MATH 3A - Introduction to Linear Algebra (4.00)

← **MATH R134** - Linear Algebra (3.00)

--- Or ---

I&C SCI 6N - Computational Linear Algebra (4.00)

← No Course Articulated

I&C SCI 6B - Boolean Logic and Discrete Structures (4.00) ← No Course Articulated

I&C SCI 6D - Discrete Mathematics for Computer Science (4.00) ← No Course Articulated

I&C SCI 45C - Programming in C/C++ as a Second Language (4.00) ← No Course Articulated

I&C SCI 46 - Data Structure Implementation and Analysis (4.00) ← No Course Articulated

I&C SCI 51 - Introductory Computer Organization (6.00) ← No Course Articulated

I&C SCI 53 - Principles in System Design (4.00) ← No Course Articulated

IN4MATX 43 - Introduction to Software Engineering (4.00) ← No Course Articulated

STATS 67 - Introduction to Probability and Statistics for Computer Science (4.00) ← No Course Articulated

Two courses approved for General Education Category II except those related to computing/engineering, economics, or mathematics ← No Course Articulated

END OF AGREEMENT

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: Cuyamaca College
2022-2023 General Catalog, Semester

Computer Science, B.S.

GENERAL INFORMATION

Admission to the Donald Bren School of Information and Computer Science is highly competitive. The most important selection criteria are completion of the required preparatory courses and academic performance. *This major does not participate in the TAG program.*

Required for admission:

Students must have a cumulative GPA of 3.0 and grade of B or higher in all required courses below:

- One year of computer programming courses* in a single object-language (Python, Java, or C++). Object-oriented programming language courses that do not directly articulate to I&C SCI 31-33 can be used to satisfy the admissions requirements. Introduction to computer science courses do not meet this requirement.
- Two semesters/two quarters of approved first-year Calculus
- One additional approved transferable course for the major (an approved math or CS course - see below)

Additional Approved Courses:

- One course in advanced data structures
- One course in machine organization and assembly language (both topics must be covered)
- One course in software engineering
- One course in discrete mathematics
- One course in Boolean algebra
- One course in linear algebra

***NOTE:** Additional computer science courses beyond the two required are strongly recommended, particularly those that align with the major of interest. Our first year of object-oriented programming is taught in Python. C++ and Java are used extensively in the curriculum; therefore, transfer students should plan to learn it by studying on their own or by completing related programming courses prior to their first quarter at UCI.

Additional courses beyond those required for admission must be taken to fulfill the lower-division degree requirements, as many are prerequisites for upper-division courses. For some transfer students, this may mean that it will take longer than two years to complete their degree.

Students should have I&C SCI 31-33 credit first in order to move further into the program here at UCI.

In fulfillment of the requirements below, a single course may be used only once.

For information regarding the [AP and IB examination](#) credit policies refer to the UCI General Catalogue.

MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER

I&C SCI 31 - Introduction to Programming (4.00)

--- And ---

I&C SCI 32 - Programming with Software Libraries (4.00)

--- And ---

I&C SCI 33 - Intermediate Programming (4.00)

- Please refer to additional important General Information section above

← No Course Articulated

MATH 2A - Single-Variable Calculus (4.00)

← **MATH 180** - Analytic Geometry and Calculus I (5.00)

MATH 2B - Single-Variable Calculus (4.00)

← **MATH 280** - Analytic Geometry and Calculus II (4.00)

One additional approved transferable course for the major (an approved Math, Science, or CSE course):

- Please refer to additional important General Information section above

← No Course Articulated

ONE ADDITIONAL APPROVED TRANSFERABLE COURSE FOR THE MAJOR (MATH OR CS COURSE)

REFER TO TOP OF AGREEMENT

MATH 3A - Introduction to Linear Algebra (4.00)

← **MATH 284** - Linear Algebra (3.00)

--- Or ---

I&C SCI 6N - Computational Linear Algebra (4.00)

← No Course Articulated

I&C SCI 6B - Boolean Logic and Discrete Structures (4.00)

← **CS 240** - Discrete Structures (3.00)

I&C SCI 6D - Discrete Mathematics for Computer Science (4.00)

←

MATH 160 - Elementary Statistics (4.00)

--- And ---

MATH 245 - Discrete Mathematics (3.00)

I&C SCI 45C - Programming in C/C++ as a Second Language (4.00)

← No Course Articulated

I&C SCI 46 - Data Structure Implementation and Analysis (4.00)

← No Course Articulated

I&C SCI 51 - Introductory Computer Organization (6.00)

← **CS 165** - Assembly Language and Machine Architecture (4.00)

I&C SCI 53 - Principles in System Design (4.00)

← No Course Articulated

IN4MATX 43 - Introduction to Software Engineering (4.00)

← No Course Articulated

STATS 67 - Introduction to Probability and Statistics for Computer Science (4.00)

← No Course Articulated

Two courses approved for General Education Category II except those related to computing/engineering, economics, or mathematics

END OF AGREEMENT

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: Ventura College
2022-2023 General Catalog, Semester

Computer Science, B.S.

GENERAL INFORMATION

Admission to the Donald Bren School of Information and Computer Science is highly competitive. The most important selection criteria are completion of the required preparatory courses and academic performance. *This major does not participate in the TAG program.*

Required for admission:

Students must have a cumulative GPA of 3.0 and grade of B or higher in all required courses below:

- One year of computer programming courses* in a single object-language (Python, Java, or C++). Object-oriented programming language courses that do not directly articulate to I&C SCI 31-33 can be used to satisfy the admissions requirements. Introduction to computer science courses do not meet this requirement.
- Two semesters/two quarters of approved first-year Calculus
- One additional approved transferable course for the major (an approved math or CS course - see below)

Additional Approved Courses:

- One course in advanced data structures
- One course in machine organization and assembly language (both topics must be covered)
- One course in software engineering
- One course in discrete mathematics
- One course in Boolean algebra
- One course in linear algebra

***NOTE:** Additional computer science courses beyond the two required are strongly recommended, particularly those that align with the major of interest. Our first year of object-oriented programming is taught in Python. C++ and Java are used extensively in the curriculum; therefore, transfer students should plan to learn it by studying on their own or by completing related programming courses prior to their first quarter at UCI.

Additional courses beyond those required for admission must be taken to fulfill the lower-division degree requirements, as many are prerequisites for upper-division courses. For some transfer students, this may mean that it will take longer than two years to complete their degree.

Students should have I&C SCI 31-33 credit first in order to move further into the program here at UCI.

In fulfillment of the requirements below, a single course may be used only once.

For information regarding the [AP and IB examination](#) credit policies refer to the UCI General Catalogue.

MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER

I&C SCI 31 - Introduction to Programming (4.00)

--- And ---

I&C SCI 32 - Programming with Software Libraries (4.00)

--- And ---

I&C SCI 33 - Intermediate Programming (4.00)

- Please refer to additional important General Information section above

CS V40 - Beginning Java (3.00)

--- And ---

CS V42 - Intermediate Java (3.00)

MATH 2A - Single-Variable Calculus (4.00)

← **MATH V21A** - Calculus with Analytic Geometry I (5.00)

MATH 2B - Single-Variable Calculus (4.00)

← **MATH V21B** - Calculus with Analytic Geometry II (5.00)

One additional approved transferable course for the major (an approved Math, Science, or CSE course):

← No Course Articulated

- Please refer to additional important General Information section above

ONE ADDITIONAL APPROVED TRANSFERABLE COURSE FOR THE MAJOR (MATH OR CS COURSE)

REFER TO TOP OF AGREEMENT

MATH 3A - Introduction to Linear Algebra (4.00)

← **MATH V22** - Introduction to Linear Algebra (3.00)

--- Or ---

I&C SCI 6N - Computational Linear Algebra (4.00)

← No Course Articulated

I&C SCI 6B - Boolean Logic and Discrete Structures (4.00)

← **CS V17** - Discrete Structures (3.00)
Same-As: MATH V52

I&C SCI 6D - Discrete Mathematics for Computer Science (4.00)

← **CS V17** - Discrete Structures (3.00)
Same-As: MATH V52

--- Or ---

MATH V52 - Discrete Structures (3.00)
Same-As: CS V17

I&C SCI 45C - Programming in C/C++ as a Second Language (4.00)

← No Course Articulated

I&C SCI 46 - Data Structure Implementation and Analysis (4.00)

← No Course Articulated

I&C SCI 51 - Introductory Computer Organization (6.00)

← **CS V19** - Computer Architecture and Organization (3.00)

I&C SCI 53 - Principles in System Design (4.00)

← No Course Articulated

IN4MATX 43 - Introduction to Software Engineering (4.00)

← No Course Articulated

STATS 67 - Introduction to Probability and Statistics for Computer Science (4.00)

← No Course Articulated

Two courses approved for General Education Category II except those related to computing/engineering, economics, or mathematics

← No Course Articulated

END OF AGREEMENT

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: College of the Sequoias
2022-2023 General Catalog, Semester

Computer Science, B.S.

GENERAL INFORMATION

Admission to the Donald Bren School of Information and Computer Science is highly competitive. The most important selection criteria are completion of the required preparatory courses and academic performance. *This major does not participate in the TAG program.*

Required for admission:

Students must have a cumulative GPA of 3.0 and grade of B or higher in all required courses below:

- One year of computer programming courses* in a single object-language (Python, Java, or C++). Object-oriented programming language courses that do not directly articulate to I&C SCI 31-33 can be used to satisfy the admissions requirements. Introduction to computer science courses do not meet this requirement.
- Two semesters/two quarters of approved first-year Calculus
- One additional approved transferable course for the major (an approved math or CS course - see below)

Additional Approved Courses:

- One course in advanced data structures
- One course in machine organization and assembly language (both topics must be covered)
- One course in software engineering
- One course in discrete mathematics
- One course in Boolean algebra
- One course in linear algebra

***NOTE:** Additional computer science courses beyond the two required are strongly recommended, particularly those that align with the major of interest. Our first year of object-oriented programming is taught in Python. C++ and Java are used extensively in the curriculum; therefore, transfer students should plan to learn it by studying on their own or by completing related programming courses prior to their first quarter at UCI.

Additional courses beyond those required for admission must be taken to fulfill the lower-division degree requirements, as many are prerequisites for upper-division courses. For some transfer students, this may mean that it will take longer than two years to complete their degree.

Students should have I&C SCI 31-33 credit first in order to move further into the program here at UCI.

In fulfillment of the requirements below, a single course may be used only once.

For information regarding the [AP and IB examination](#) credit policies refer to the UCI General Catalogue.

MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER

I&C SCI 31 - Introduction to Programming (4.00)

--- And ---

I&C SCI 32 - Programming with Software Libraries (4.00)

--- And ---

I&C SCI 33 - Intermediate Programming (4.00)

- Please refer to additional important General Information section above

CSCI 001 - Programming Concepts/Method 1 (4.00)

--- And ---

CSCI 002 - Programming Concepts/Method 2 (4.00)

MATH 2A - Single-Variable Calculus (4.00)

← **MATH 065** - Calculus 1 (4.00)

MATH 2B - Single-Variable Calculus (4.00)

← **MATH 066** - Calculus 2 (4.00)

One additional approved transferable course for the major (an approved Math, Science, or CSE course):

← No Course Articulated

- Please refer to additional important General Information section above

ONE ADDITIONAL APPROVED TRANSFERABLE COURSE FOR THE MAJOR (MATH OR CS COURSE)

REFER TO TOP OF AGREEMENT

MATH 3A - Introduction to Linear Algebra (4.00)

← **MATH 080** - Linear Algebra (4.00)

--- Or ---

I&C SCI 6N - Computational Linear Algebra (4.00)

← No Course Articulated

I&C SCI 6B - Boolean Logic and Discrete Structures (4.00) ← No Course Articulated

I&C SCI 6D - Discrete Mathematics for Computer Science (4.00) ← No Course Articulated

I&C SCI 45C - Programming in C/C++ as a Second Language (4.00) ← No Course Articulated

I&C SCI 46 - Data Structure Implementation and Analysis (4.00) ← No Course Articulated

I&C SCI 51 - Introductory Computer Organization (6.00) ← No Course Articulated

I&C SCI 53 - Principles in System Design (4.00) ← No Course Articulated

IN4MATX 43 - Introduction to Software Engineering (4.00) ← No Course Articulated

STATS 67 - Introduction to Probability and Statistics for Computer Science (4.00) ← No Course Articulated

Two courses approved for General Education Category II except those related to computing/engineering, economics, or mathematics ← No Course Articulated

END OF AGREEMENT

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: Riverside City College
2022-2023 General Catalog, Semester

Computer Science, B.S.

GENERAL INFORMATION

Admission to the Donald Bren School of Information and Computer Science is highly competitive. The most important selection criteria are completion of the required preparatory courses and academic performance. *This major does not participate in the TAG program.*

Required for admission:

Students must have a cumulative GPA of 3.0 and grade of B or higher in all required courses below:

- One year of computer programming courses* in a single object-language (Python, Java, or C++). Object-oriented programming language courses that do not directly articulate to I&C SCI 31-33 can be used to satisfy the admissions requirements. Introduction to computer science courses do not meet this requirement.
- Two semesters/two quarters of approved first-year Calculus
- One additional approved transferable course for the major (an approved math or CS course - see below)

Additional Approved Courses:

- One course in advanced data structures
- One course in machine organization and assembly language (both topics must be covered)
- One course in software engineering
- One course in discrete mathematics
- One course in Boolean algebra
- One course in linear algebra

***NOTE:** Additional computer science courses beyond the two required are strongly recommended, particularly those that align with the major of interest. Our first year of object-oriented programming is taught in Python. C++ and Java are used extensively in the curriculum; therefore, transfer students should plan to learn it by studying on their own or by completing related programming courses prior to their first quarter at UCI.

Additional courses beyond those required for admission must be taken to fulfill the lower-division degree requirements, as many are prerequisites for upper-division courses. For some transfer students, this may mean that it will take longer than two years to complete their degree.

Students should have I&C SCI 31-33 credit first in order to move further into the program here at UCI.

In fulfillment of the requirements below, a single course may be used only once.

For information regarding the [AP and IB examination](#) credit policies refer to the UCI General Catalogue.

MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER

I&C SCI 31 - Introduction to Programming (4.00)

--- And ---

I&C SCI 32 - Programming with Software Libraries (4.00)

--- And ---

I&C SCI 33 - Intermediate Programming (4.00)

- Please refer to additional important General Information section above

CIS 17A - Programming Concepts and Methodology II: C++ (3.00)

Same-As: CSC 17A

--- And ---

CIS 17B - C++ Programming: Advanced Objects (3.00)

Same-As: CSC 17B

--- Or ---

CIS 18A - JAVA Programming: Objects (3.00)

Same-As: CSC 18A

--- And ---

CIS 18B - Java Programming: Advanced Objects (3.00)

Same-As: CSC 18B

MATH 2A - Single-Variable Calculus (4.00)

← **MAT 1A** - Calculus I (4.00)

--- Or ---

MAT 1AH - Honors Calculus I (4.00)

MATH 2B - Single-Variable Calculus (4.00)

← **MAT 1B** - Calculus II (4.00)

One additional approved transferable course for the major (an approved Math, Science, or CSE course):

← No Course Articulated

- Please refer to additional important General Information section above

ONE ADDITIONAL APPROVED TRANSFERABLE COURSE FOR THE MAJOR (MATH OR CS COURSE)

REFER TO TOP OF AGREEMENT

MATH 3A - Introduction to Linear Algebra (4.00)	← MAT 3 - Linear Algebra (3.00)
--- Or ---	
I&C SCI 6N - Computational Linear Algebra (4.00)	← No Course Articulated
I&C SCI 6B - Boolean Logic and Discrete Structures (4.00)	← CIS 7 - Discrete Structures (3.00) Same-As: CSC 7
I&C SCI 6D - Discrete Mathematics for Computer Science (4.00)	← No Course Articulated
I&C SCI 45C - Programming in C/C++ as a Second Language (4.00)	← CIS 17C - C++ Programming: Data Structures (3.00) Same-As: CSC 17C
I&C SCI 46 - Data Structure Implementation and Analysis (4.00)	← No Course Articulated
I&C SCI 51 - Introductory Computer Organization (6.00)	← No Course Articulated
I&C SCI 53 - Principles in System Design (4.00)	← No Course Articulated
IN4MATX 43 - Introduction to Software Engineering (4.00)	← No Course Articulated
STATS 67 - Introduction to Probability and Statistics for Computer Science (4.00)	← No Course Articulated
Two courses approved for General Education Category II except those related to computing/engineering, economics, or mathematics	← No Course Articulated

END OF AGREEMENT

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: Feather River College
2022-2023 General Catalog, Semester

Computer Science, B.S.

GENERAL INFORMATION

Admission to the Donald Bren School of Information and Computer Science is highly competitive. The most important selection criteria are completion of the required preparatory courses and academic performance. *This major does not participate in the TAG program.*

Required for admission:

Students must have a cumulative GPA of 3.0 and grade of B or higher in all required courses below:

- One year of computer programming courses* in a single object-language (Python, Java, or C++). Object-oriented programming language courses that do not directly articulate to I&C SCI 31-33 can be used to satisfy the admissions requirements. Introduction to computer science courses do not meet this requirement.
- Two semesters/two quarters of approved first-year Calculus
- One additional approved transferable course for the major (an approved math or CS course - see below)

Additional Approved Courses:

- One course in advanced data structures
- One course in machine organization and assembly language (both topics must be covered)
- One course in software engineering
- One course in discrete mathematics
- One course in Boolean algebra
- One course in linear algebra

***NOTE:** Additional computer science courses beyond the two required are strongly recommended, particularly those that align with the major of interest. Our first year of object-oriented programming is taught in Python. C++ and Java are used extensively in the curriculum; therefore, transfer students should plan to learn it by studying on their own or by completing related programming courses prior to their first quarter at UCI.

Additional courses beyond those required for admission must be taken to fulfill the lower-division degree requirements, as many are prerequisites for upper-division courses. For some transfer students, this may mean that it will take longer than two years to complete their degree.

Students should have I&C SCI 31-33 credit first in order to move further into the program here at UCI.

In fulfillment of the requirements below, a single course may be used only once.

For information regarding the [AP and IB examination](#) credit policies refer to the UCI General Catalogue.

MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER

I&C SCI 31 - Introduction to Programming (4.00)

--- And ---

I&C SCI 32 - Programming with Software Libraries (4.00)

--- And ---

I&C SCI 33 - Intermediate Programming (4.00)

- Please refer to additional important General Information section above

← No Course Articulated

MATH 2A - Single-Variable Calculus (4.00)

← MATH 218 - Single Variable Calculus I - Late Transcendentals (4.00)

MATH 2B - Single-Variable Calculus (4.00)

← MATH 220 - Single Variable Calculus II - Late Transcendentals (4.00)

One additional approved transferable course for the major (an approved Math, Science, or CSE course):

- Please refer to additional important General Information section above

← No Course Articulated

ONE ADDITIONAL APPROVED TRANSFERABLE COURSE FOR THE MAJOR (MATH OR CS COURSE)

REFER TO TOP OF AGREEMENT

MATH 3A - Introduction to Linear Algebra (4.00)

← No Course Articulated

--- Or ---

I&C SCI 6N - Computational Linear Algebra (4.00)

← No Course Articulated

I&C SCI 6B - Boolean Logic and Discrete Structures (4.00) ← No Course Articulated

I&C SCI 6D - Discrete Mathematics for Computer Science (4.00) ← No Course Articulated

I&C SCI 45C - Programming in C/C++ as a Second Language (4.00) ← No Course Articulated

I&C SCI 46 - Data Structure Implementation and Analysis (4.00) ← No Course Articulated

I&C SCI 51 - Introductory Computer Organization (6.00) ← No Course Articulated

I&C SCI 53 - Principles in System Design (4.00) ← No Course Articulated

IN4MATX 43 - Introduction to Software Engineering (4.00) ← No Course Articulated

STATS 67 - Introduction to Probability and Statistics for Computer Science (4.00) ← No Course Articulated

Two courses approved for General Education Category II except those related to computing/engineering, economics, or mathematics ← No Course Articulated

END OF AGREEMENT

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: Santiago Canyon College
2022-2023 General Catalog, Semester

Computer Science, B.S.

GENERAL INFORMATION

Admission to the Donald Bren School of Information and Computer Science is highly competitive. The most important selection criteria are completion of the required preparatory courses and academic performance. *This major does not participate in the TAG program.*

Required for admission:

Students must have a cumulative GPA of 3.0 and grade of B or higher in all required courses below:

- One year of computer programming courses* in a single object-language (Python, Java, or C++). Object-oriented programming language courses that do not directly articulate to I&C SCI 31-33 can be used to satisfy the admissions requirements. Introduction to computer science courses do not meet this requirement.
- Two semesters/two quarters of approved first-year Calculus
- One additional approved transferable course for the major (an approved math or CS course - see below)

Additional Approved Courses:

- One course in advanced data structures
- One course in machine organization and assembly language (both topics must be covered)
- One course in software engineering
- One course in discrete mathematics
- One course in Boolean algebra
- One course in linear algebra

***NOTE:** Additional computer science courses beyond the two required are strongly recommended, particularly those that align with the major of interest. Our first year of object-oriented programming is taught in Python. C++ and Java are used extensively in the curriculum; therefore, transfer students should plan to learn it by studying on their own or by completing related programming courses prior to their first quarter at UCI.

Additional courses beyond those required for admission must be taken to fulfill the lower-division degree requirements, as many are prerequisites for upper-division courses. For some transfer students, this may mean that it will take longer than two years to complete their degree.

Students should have I&C SCI 31-33 credit first in order to move further into the program here at UCI.

In fulfillment of the requirements below, a single course may be used only once.

For information regarding the [AP and IB examination](#) credit policies refer to the UCI General Catalogue.

MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER

I&C SCI 31 - Introduction to Programming (4.00)

--- And ---

I&C SCI 32 - Programming with Software Libraries (4.00)

--- And ---

I&C SCI 33 - Intermediate Programming (4.00)

- Please refer to additional important General Information section above

CMPR 120 - Introduction to Programming (3.00)

--- And ---

CMPR 121 - Programming Concepts (3.00)

MATH 2A - Single-Variable Calculus (4.00)

← **MATH 180** - Single Variable Calculus I (4.00)

--- Or ---

MATH 180H - Honors Single Variable Calculus I (4.00)

MATH 2B - Single-Variable Calculus (4.00)

← **MATH 185** - Single Variable Calculus II (4.00)

One additional approved transferable course for the major (an approved Math, Science, or CSE course):

← No Course Articulated

- Please refer to additional important General Information section above

ONE ADDITIONAL APPROVED TRANSFERABLE COURSE FOR THE MAJOR (MATH OR CS COURSE)

REFER TO TOP OF AGREEMENT

MATH 3A - Introduction to Linear Algebra (4.00)

← **MATH 287** - Introduction to Linear Algebra and Differential Equations (5.00)

--- Or ---

MATH 290 - Linear Algebra (3.00)

--- Or ---

I&C SCI 6N - Computational Linear Algebra (4.00)

← No Course Articulated

I&C SCI 6B - Boolean Logic and Discrete Structures (4.00)

← **CMPR 149** - Discrete Structures for Computer Science (3.00)

I&C SCI 6D - Discrete Mathematics for Computer Science (4.00)

← **CMPR 149** - Discrete Structures for Computer Science (3.00)

I&C SCI 45C - Programming in C/C++ as a Second Language (4.00)

← **CMPR 131** - Data Structures Concepts (3.00)

I&C SCI 46 - Data Structure Implementation and Analysis (4.00)

← No Course Articulated

I&C SCI 51 - Introductory Computer Organization (6.00)

← **CMPR 154** - Computer Architecture and Organization (3.00)

I&C SCI 53 - Principles in System Design (4.00)

← No Course Articulated

IN4MATX 43 - Introduction to Software Engineering (4.00)

← No Course Articulated

STATS 67 - Introduction to Probability and Statistics for Computer Science (4.00)

← No Course Articulated

Two courses approved for General Education Category II except those related to computing/engineering, economics, or mathematics ← No Course Articulated

END OF AGREEMENT

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: Merced College
2022-2023 General Catalog, Semester

Computer Science, B.S.

GENERAL INFORMATION

Admission to the Donald Bren School of Information and Computer Science is highly competitive. The most important selection criteria are completion of the required preparatory courses and academic performance. *This major does not participate in the TAG program.*

Required for admission:

Students must have a cumulative GPA of 3.0 and grade of B or higher in all required courses below:

- One year of computer programming courses* in a single object-language (Python, Java, or C++). Object-oriented programming language courses that do not directly articulate to I&C SCI 31-33 can be used to satisfy the admissions requirements. Introduction to computer science courses do not meet this requirement.
- Two semesters/two quarters of approved first-year Calculus
- One additional approved transferable course for the major (an approved math or CS course - see below)

Additional Approved Courses:

- One course in advanced data structures
- One course in machine organization and assembly language (both topics must be covered)
- One course in software engineering
- One course in discrete mathematics
- One course in Boolean algebra
- One course in linear algebra

***NOTE:** Additional computer science courses beyond the two required are strongly recommended, particularly those that align with the major of interest. Our first year of object-oriented programming is taught in Python. C++ and Java are used extensively in the curriculum; therefore, transfer students should plan to learn it by studying on their own or by completing related programming courses prior to their first quarter at UCI.

Additional courses beyond those required for admission must be taken to fulfill the lower-division degree requirements, as many are prerequisites for upper-division courses. For some transfer students, this may mean that it will take longer than two years to complete their degree.

Students should have I&C SCI 31-33 credit first in order to move further into the program here at UCI.

In fulfillment of the requirements below, a single course may be used only once.

For information regarding the [AP and IB examination](#) credit policies refer to the UCI General Catalogue.

MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER

I&C SCI 31 - Introduction to Programming (4.00)

--- And ---

I&C SCI 32 - Programming with Software Libraries (4.00)

--- And ---

I&C SCI 33 - Intermediate Programming (4.00)

- Please refer to additional important General Information section above

ENGR -14 - C++ Programming (3.00)

Same-As: CPSC -14

--- And ---

CPSC -25 - Advanced C++ Programming (4.00)

--- Or ---

CTIS -04 - Programming with Python (3.00)

--- And ---

CTIS -14 - Advanced Python Programming (3.00)

- Articulates with the first two courses in the series only

MATH 2A - Single-Variable Calculus (4.00)

← **MATH -04A** - Calculus I (4.00)

MATH 2B - Single-Variable Calculus (4.00)

← **MATH -04B** - Calculus II (4.00)

One additional approved transferable course for the major (an approved Math, Science, or CSE course):

← No Course Articulated

- Please refer to additional important General Information section above

ONE ADDITIONAL APPROVED TRANSFERABLE COURSE FOR THE MAJOR (MATH OR CS COURSE)

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

MATH 3A - Introduction to Linear Algebra (4.00)	← MATH -08 - Linear Algebra (3.00)
--- Or ---	
I&C SCI 6N - Computational Linear Algebra (4.00)	← No Course Articulated
I&C SCI 6B - Boolean Logic and Discrete Structures (4.00)	← No Course Articulated
I&C SCI 6D - Discrete Mathematics for Computer Science (4.00)	← No Course Articulated
I&C SCI 45C - Programming in C/C++ as a Second Language (4.00)	←
ENGR -14 - C++ Programming (3.00) Same-As: CPSC -14	
--- And ---	
CPSC -25 - Advanced C++ Programming (4.00)	
I&C SCI 46 - Data Structure Implementation and Analysis (4.00)	← No Course Articulated
I&C SCI 51 - Introductory Computer Organization (6.00)	← No Course Articulated
I&C SCI 53 - Principles in System Design (4.00)	← No Course Articulated
IN4MATX 43 - Introduction to Software Engineering (4.00)	← No Course Articulated
STATS 67 - Introduction to Probability and Statistics for Computer Science (4.00)	← No Course Articulated
Two courses approved for General Education Category II except those related to computing/engineering, economics, or mathematics	← No Course Articulated

END OF AGREEMENT

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: Los Angeles Southwest College
2022-2023 General Catalog, Semester

Computer Science, B.S.

GENERAL INFORMATION

Admission to the Donald Bren School of Information and Computer Science is highly competitive. The most important selection criteria are completion of the required preparatory courses and academic performance. *This major does not participate in the TAG program.*

Required for admission:

Students must have a cumulative GPA of 3.0 and grade of B or higher in all required courses below:

- One year of computer programming courses* in a single object-language (Python, Java, or C++). Object-oriented programming language courses that do not directly articulate to I&C SCI 31-33 can be used to satisfy the admissions requirements. Introduction to computer science courses do not meet this requirement.
- Two semesters/two quarters of approved first-year Calculus
- One additional approved transferable course for the major (an approved math or CS course - see below)

Additional Approved Courses:

- One course in advanced data structures
- One course in machine organization and assembly language (both topics must be covered)
- One course in software engineering
- One course in discrete mathematics
- One course in Boolean algebra
- One course in linear algebra

***NOTE:** Additional computer science courses beyond the two required are strongly recommended, particularly those that align with the major of interest. Our first year of object-oriented programming is taught in Python. C++ and Java are used extensively in the curriculum; therefore, transfer students should plan to learn it by studying on their own or by completing related programming courses prior to their first quarter at UCI.

Additional courses beyond those required for admission must be taken to fulfill the lower-division degree requirements, as many are prerequisites for upper-division courses. For some transfer students, this may mean that it will take longer than two years to complete their degree.

Students should have I&C SCI 31-33 credit first in order to move further into the program here at UCI.

In fulfillment of the requirements below, a single course may be used only once.

For information regarding the [AP and IB examination](#) credit policies refer to the UCI General Catalogue.

MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER

I&C SCI 31 - Introduction to Programming (4.00)

--- And ---

I&C SCI 32 - Programming with Software Libraries (4.00)

--- And ---

I&C SCI 33 - Intermediate Programming (4.00)

- Please refer to additional important General Information section above

← No Course Articulated

MATH 2A - Single-Variable Calculus (4.00)

← **MATH 265** - Calculus with Analytic Geometry I (5.00)

MATH 2B - Single-Variable Calculus (4.00)

← **MATH 266** - Calculus with Analytic Geometry II (5.00)

One additional approved transferable course for the major (an approved Math, Science, or CSE course):

- Please refer to additional important General Information section above

← No Course Articulated

ONE ADDITIONAL APPROVED TRANSFERABLE COURSE FOR THE MAJOR (MATH OR CS COURSE)

REFER TO TOP OF AGREEMENT

MATH 3A - Introduction to Linear Algebra (4.00)

← **MATH 270** - Linear Algebra (3.00)

--- Or ---

I&C SCI 6N - Computational Linear Algebra (4.00)

← No Course Articulated

I&C SCI 6B - Boolean Logic and Discrete Structures (4.00) ← No Course Articulated

I&C SCI 6D - Discrete Mathematics for Computer Science (4.00) ← No Course Articulated

I&C SCI 45C - Programming in C/C++ as a Second Language (4.00) ← No Course Articulated

I&C SCI 46 - Data Structure Implementation and Analysis (4.00) ← No Course Articulated

I&C SCI 51 - Introductory Computer Organization (6.00) ← No Course Articulated

I&C SCI 53 - Principles in System Design (4.00) ← No Course Articulated

IN4MATX 43 - Introduction to Software Engineering (4.00) ← No Course Articulated

STATS 67 - Introduction to Probability and Statistics for Computer Science (4.00) ← No Course Articulated

Two courses approved for General Education Category II except those related to computing/engineering, economics, or mathematics ← No Course Articulated

END OF AGREEMENT

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: Orange Coast College
2022-2023 General Catalog, Semester

Computer Science, B.S.

GENERAL INFORMATION

Admission to the Donald Bren School of Information and Computer Science is highly competitive. The most important selection criteria are completion of the required preparatory courses and academic performance. *This major does not participate in the TAG program.*

Required for admission:

Students must have a cumulative GPA of 3.0 and grade of B or higher in all required courses below:

- One year of computer programming courses* in a single object-language (Python, Java, or C++). Object-oriented programming language courses that do not directly articulate to I&C SCI 31-33 can be used to satisfy the admissions requirements. Introduction to computer science courses do not meet this requirement.
- Two semesters/two quarters of approved first-year Calculus
- One additional approved transferable course for the major (an approved math or CS course - see below)

Additional Approved Courses:

- One course in advanced data structures
- One course in machine organization and assembly language (both topics must be covered)
- One course in software engineering
- One course in discrete mathematics
- One course in Boolean algebra
- One course in linear algebra

***NOTE:** Additional computer science courses beyond the two required are strongly recommended, particularly those that align with the major of interest. Our first year of object-oriented programming is taught in Python. C++ and Java are used extensively in the curriculum; therefore, transfer students should plan to learn it by studying on their own or by completing related programming courses prior to their first quarter at UCI.

Additional courses beyond those required for admission must be taken to fulfill the lower-division degree requirements, as many are prerequisites for upper-division courses. For some transfer students, this may mean that it will take longer than two years to complete their degree.

Students should have I&C SCI 31-33 credit first in order to move further into the program here at UCI.

In fulfillment of the requirements below, a single course may be used only once.

For information regarding the [AP and IB examination](#) credit policies refer to the UCI General Catalogue.

MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER

I&C SCI 31 - Introduction to Programming (4.00)

--- And ---

I&C SCI 32 - Programming with Software Libraries (4.00)

--- And ---

I&C SCI 33 - Intermediate Programming (4.00)

- Please refer to additional important General Information section above

CS A150 - C++ Programming Language 1 (4.00)

--- And ---

CS A250 - C++ Programming Language 2 (4.00)

I&C SCI 31 - Introduction to Programming (4.00)

--- And ---

I&C SCI 32 - Programming with Software Libraries (4.00)

- Please refer to additional important General Information section above

CS A131 - Python Programming 1 (4.00)

--- And ---

CS A231 - Python Programming II (4.00)

MATH 2A - Single-Variable Calculus (4.00)

MATH A180 - Calculus 1 (4.00)

--- Or ---

MATH A180H - Honors Calculus 1 (4.00)

--- Or ---

MATH A182H - Honors Calculus 1 and 2 (5.00)

MATH 2B - Single-Variable Calculus (4.00)

← **MATH A185** - Calculus 2 (4.00)

--- Or ---

MATH A185H - Honors Calculus 2 (4.00)

--- Or ---

MATH A182H - Honors Calculus 1 and 2 (5.00)

One additional approved transferable course for the major (an approved Math, Science, or CSE course):

- Please refer to additional important General Information section above

← No Course Articulated

ONE ADDITIONAL APPROVED TRANSFERABLE COURSE FOR THE MAJOR (MATH OR CS COURSE)

REFER TO TOP OF AGREEMENT

MATH 3A - Introduction to Linear Algebra (4.00)

← **MATH A235** - Applied Linear Algebra (3.00)

--- Or ---

MATH A285 - Introduction to Linear Algebra and Differential Equations (4.00)

--- Or ---

MATH A285H - Honors Introduction to Linear Algebra and Differential Equations (5.00)

--- Or ---

I&C SCI 6N - Computational Linear Algebra (4.00)

← No Course Articulated

I&C SCI 6B - Boolean Logic and Discrete Structures (4.00)

← **CS A257** - Boolean Algebra & Logic (3.00)

I&C SCI 6D - Discrete Mathematics for Computer Science (4.00)

← **CS A262** - Discrete Structures (3.00)

--- Or ---

MATH A230 - Introduction to Discrete Mathematics (5.00)

I&C SCI 45C - Programming in C/C++ as a Second Language (4.00)

← **CS A250** - C++ Programming Language 2 (4.00)

I&C SCI 46 - Data Structure Implementation and Analysis (4.00)

← **CS A200** - Data Structures (4.00)

I&C SCI 51 - Introductory Computer Organization (6.00)

← **CS A216** - Computer Architecture (4.00)

I&C SCI 53 - Principles in System Design (4.00)

← **CS A253** - Principles in System Design (4.00)

CS A253 - Principles in System Design (4.00)

IN4MATX 43 - Introduction to Software Engineering (4.00)

← **CS A220** - Software Engineering (4.00)

STATS 67 - Introduction to Probability and Statistics for Computer Science (4.00)

← **CS A263** - Probability and Statistics for Computer Science (4.00)

Two courses approved for General Education Category II except those related to computing/engineering, economics, or mathematics

← No Course Articulated

END OF AGREEMENT

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: East Los Angeles College
2022-2023 General Catalog, Semester

Computer Science, B.S.

GENERAL INFORMATION

Admission to the Donald Bren School of Information and Computer Science is highly competitive. The most important selection criteria are completion of the required preparatory courses and academic performance. *This major does not participate in the TAG program.*

Required for admission:

Students must have a cumulative GPA of 3.0 and grade of B or higher in all required courses below:

- One year of computer programming courses* in a single object-language (Python, Java, or C++). Object-oriented programming language courses that do not directly articulate to I&C SCI 31-33 can be used to satisfy the admissions requirements. Introduction to computer science courses do not meet this requirement.
- Two semesters/two quarters of approved first-year Calculus
- One additional approved transferable course for the major (an approved math or CS course - see below)

Additional Approved Courses:

- One course in advanced data structures
- One course in machine organization and assembly language (both topics must be covered)
- One course in software engineering
- One course in discrete mathematics
- One course in Boolean algebra
- One course in linear algebra

***NOTE:** Additional computer science courses beyond the two required are strongly recommended, particularly those that align with the major of interest. Our first year of object-oriented programming is taught in Python. C++ and Java are used extensively in the curriculum; therefore, transfer students should plan to learn it by studying on their own or by completing related programming courses prior to their first quarter at UCI.

Additional courses beyond those required for admission must be taken to fulfill the lower-division degree requirements, as many are prerequisites for upper-division courses. For some transfer students, this may mean that it will take longer than two years to complete their degree.

Students should have I&C SCI 31-33 credit first in order to move further into the program here at UCI.

In fulfillment of the requirements below, a single course may be used only once.

For information regarding the [AP and IB examination](#) credit policies refer to the UCI General Catalogue.

MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER

I&C SCI 31 - Introduction to Programming (4.00)

--- And ---

I&C SCI 32 - Programming with Software Libraries (4.00)

--- And ---

I&C SCI 33 - Intermediate Programming (4.00)

- Please refer to additional important General Information section above

MATH 173 - Object-Oriented Programming and Design (4.00)

--- And ---

MATH 273 - Introduction to Data Structures and Algorithms (4.00)

MATH 2A - Single-Variable Calculus (4.00)

← **MATH 261** - Calculus I (5.00)

MATH 2B - Single-Variable Calculus (4.00)

← **MATH 262** - Calculus II (5.00)

One additional approved transferable course for the major (an approved Math, Science, or CSE course):

← No Course Articulated

- Please refer to additional important General Information section above

ONE ADDITIONAL APPROVED TRANSFERABLE COURSE FOR THE MAJOR (MATH OR CS COURSE)

REFER TO TOP OF AGREEMENT

MATH 3A - Introduction to Linear Algebra (4.00)

← **MATH 270** - Linear Algebra (3.00)

--- Or ---

I&C SCI 6N - Computational Linear Algebra (4.00)

← No Course Articulated

I&C SCI 6B - Boolean Logic and Discrete Structures (4.00)	← MATH 272 - Methods of Discrete Mathematics (5.00)
I&C SCI 6D - Discrete Mathematics for Computer Science (4.00)	← MATH 272 - Methods of Discrete Mathematics (5.00)
I&C SCI 45C - Programming in C/C++ as a Second Language (4.00)	← No Course Articulated
I&C SCI 46 - Data Structure Implementation and Analysis (4.00)	← No Course Articulated
I&C SCI 51 - Introductory Computer Organization (6.00)	← No Course Articulated
I&C SCI 53 - Principles in System Design (4.00)	← No Course Articulated
IN4MATX 43 - Introduction to Software Engineering (4.00)	← No Course Articulated
STATS 67 - Introduction to Probability and Statistics for Computer Science (4.00)	← No Course Articulated
Two courses approved for General Education Category II except those related to computing/engineering, economics, or mathematics	← No Course Articulated

END OF AGREEMENT

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: Grossmont College
2022-2023 General Catalog, Semester

Computer Science, B.S.

GENERAL INFORMATION

Admission to the Donald Bren School of Information and Computer Science is highly competitive. The most important selection criteria are completion of the required preparatory courses and academic performance. *This major does not participate in the TAG program.*

Required for admission:

Students must have a cumulative GPA of 3.0 and grade of B or higher in all required courses below:

- One year of computer programming courses* in a single object-language (Python, Java, or C++). Object-oriented programming language courses that do not directly articulate to I&C SCI 31-33 can be used to satisfy the admissions requirements. Introduction to computer science courses do not meet this requirement.
- Two semesters/two quarters of approved first-year Calculus
- One additional approved transferable course for the major (an approved math or CS course - see below)

Additional Approved Courses:

- One course in advanced data structures
- One course in machine organization and assembly language (both topics must be covered)
- One course in software engineering
- One course in discrete mathematics
- One course in Boolean algebra
- One course in linear algebra

***NOTE:** Additional computer science courses beyond the two required are strongly recommended, particularly those that align with the major of interest. Our first year of object-oriented programming is taught in Python. C++ and Java are used extensively in the curriculum; therefore, transfer students should plan to learn it by studying on their own or by completing related programming courses prior to their first quarter at UCI.

Additional courses beyond those required for admission must be taken to fulfill the lower-division degree requirements, as many are prerequisites for upper-division courses. For some transfer students, this may mean that it will take longer than two years to complete their degree.

Students should have I&C SCI 31-33 credit first in order to move further into the program here at UCI.

In fulfillment of the requirements below, a single course may be used only once.

For information regarding the [AP and IB examination](#) credit policies refer to the UCI General Catalogue.

MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER

I&C SCI 31 - Introduction to Programming (4.00)

--- And ---

I&C SCI 32 - Programming with Software Libraries (4.00)

--- And ---

I&C SCI 33 - Intermediate Programming (4.00)

- Please refer to additional important General Information section above

CSIS 293 - Introduction to Java Programming (4.00)

--- And ---

CSIS 294 - Intermediate Java Programming and Fundamental Data Structures (4.00)

MATH 2A - Single-Variable Calculus (4.00)

← **MATH 180** - Analytic Geometry and Calculus I (5.00)

MATH 2B - Single-Variable Calculus (4.00)

← **MATH 280** - Analytic Geometry and Calculus II (4.00)

One additional approved transferable course for the major (an approved Math, Science, or CSE course):

← No Course Articulated

- Please refer to additional important General Information section above

ONE ADDITIONAL APPROVED TRANSFERABLE COURSE FOR THE MAJOR (MATH OR CS COURSE)

REFER TO TOP OF AGREEMENT

MATH 3A - Introduction to Linear Algebra (4.00)

← **MATH 284** - Linear Algebra (3.00)

--- Or ---

I&C SCI 6N - Computational Linear Algebra (4.00)	← No Course Articulated
I&C SCI 6B - Boolean Logic and Discrete Structures (4.00)	← CSIS 240 - Discrete Structures (3.00)
I&C SCI 6D - Discrete Mathematics for Computer Science (4.00)	←
	MATH 160 - Elementary Statistics (4.00) --- And --- MATH 245 - Discrete Math (3.00)
I&C SCI 45C - Programming in C/C++ as a Second Language (4.00)	←
	CSIS 296 - Introduction to C++ Programming (4.00) --- And --- CSIS 297 - Intermediate C++ Programming (4.00)
I&C SCI 46 - Data Structure Implementation and Analysis (4.00)	← No Course Articulated
I&C SCI 51 - Introductory Computer Organization (6.00)	← No Course Articulated
I&C SCI 53 - Principles in System Design (4.00)	← No Course Articulated
IN4MATX 43 - Introduction to Software Engineering (4.00)	← No Course Articulated
STATS 67 - Introduction to Probability and Statistics for Computer Science (4.00)	← No Course Articulated
Two courses approved for General Education Category II except those related to computing/engineering, economics, or mathematics	← No Course Articulated

END OF AGREEMENT

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: City College of San Francisco
2022-2023 General Catalog, Semester

Computer Science, B.S.

GENERAL INFORMATION

Admission to the Donald Bren School of Information and Computer Science is highly competitive. The most important selection criteria are completion of the required preparatory courses and academic performance. *This major does not participate in the TAG program.*

Required for admission:

Students must have a cumulative GPA of 3.0 and grade of B or higher in all required courses below:

- One year of computer programming courses* in a single object-language (Python, Java, or C++). Object-oriented programming language courses that do not directly articulate to I&C SCI 31-33 can be used to satisfy the admissions requirements. Introduction to computer science courses do not meet this requirement.
- Two semesters/two quarters of approved first-year Calculus
- One additional approved transferable course for the major (an approved math or CS course - see below)

Additional Approved Courses:

- One course in advanced data structures
- One course in machine organization and assembly language (both topics must be covered)
- One course in software engineering
- One course in discrete mathematics
- One course in Boolean algebra
- One course in linear algebra

***NOTE:** Additional computer science courses beyond the two required are strongly recommended, particularly those that align with the major of interest. Our first year of object-oriented programming is taught in Python. C++ and Java are used extensively in the curriculum; therefore, transfer students should plan to learn it by studying on their own or by completing related programming courses prior to their first quarter at UCI.

Additional courses beyond those required for admission must be taken to fulfill the lower-division degree requirements, as many are prerequisites for upper-division courses. For some transfer students, this may mean that it will take longer than two years to complete their degree.

Students should have I&C SCI 31-33 credit first in order to move further into the program here at UCI.

In fulfillment of the requirements below, a single course may be used only once.

For information regarding the [AP and IB examination](#) credit policies refer to the UCI General Catalogue.

MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER

I&C SCI 31 - Introduction to Programming (4.00)

--- And ---

I&C SCI 32 - Programming with Software Libraries (4.00)

--- And ---

I&C SCI 33 - Intermediate Programming (4.00)

- Please refer to additional important General Information section above

CS 131B - Programming Fundamentals: Python (4.00)

--- And ---

CS 231 - Advanced Python Programming (3.00)

MATH 2A - Single-Variable Calculus (4.00)

← **MATH 100A** - Short Calculus I (3.00)

--- Or ---

MATH 110A - Calculus I (5.00)

MATH 2B - Single-Variable Calculus (4.00)

← **MATH 100B** - Short Calculus II (3.00)

--- Or ---

MATH 110B - Calculus II (5.00)

One additional approved transferable course for the major (an approved Math, Science, or CSE course):

- Please refer to additional important General Information section above

← No Course Articulated

ONE ADDITIONAL APPROVED TRANSFERABLE COURSE FOR THE MAJOR (MATH OR CS COURSE)

REFER TO TOP OF AGREEMENT

MATH 3A - Introduction to Linear Algebra (4.00)

← **MATH 120** - Linear Algebra (3.00)

--- Or ---

MATH 130 - Linear Algebra and Differential Equations (5.00)

--- Or ---

I&C SCI 6N - Computational Linear Algebra (4.00)

← No Course Articulated

I&C SCI 6B - Boolean Logic and Discrete Structures (4.00)

← No Course Articulated

I&C SCI 6D - Discrete Mathematics for Computer Science (4.00)

← **MATH 115** - Discrete Mathematics (3.00)

I&C SCI 45C - Programming in C/C++ as a Second Language (4.00)

← No Course Articulated

I&C SCI 46 - Data Structure Implementation and Analysis (4.00)

← No Course Articulated

I&C SCI 51 - Introductory Computer Organization (6.00)

← No Course Articulated

I&C SCI 53 - Principles in System Design (4.00)

← No Course Articulated

IN4MATX 43 - Introduction to Software Engineering (4.00)

← No Course Articulated

STATS 67 - Introduction to Probability and Statistics for Computer Science (4.00)

← No Course Articulated

Two courses approved for General Education Category II except those related to computing/engineering, economics, or mathematics ← No Course Articulated

END OF AGREEMENT

Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: Diablo Valley College
2022-2023 General Catalog, Semester

Computer Science, B.S.

GENERAL INFORMATION

Admission to the Donald Bren School of Information and Computer Science is highly competitive. The most important selection criteria are completion of the required preparatory courses and academic performance. *This major does not participate in the TAG program.*

Required for admission:

Students must have a cumulative GPA of 3.0 and grade of B or higher in all required courses below:

- One year of computer programming courses* in a single object-language (Python, Java, or C++). Object-oriented programming language courses that do not directly articulate to I&C SCI 31-33 can be used to satisfy the admissions requirements. Introduction to computer science courses do not meet this requirement.
- Two semesters/two quarters of approved first-year Calculus
- One additional approved transferable course for the major (an approved math or CS course - see below)

Additional Approved Courses:

- One course in advanced data structures
- One course in machine organization and assembly language (both topics must be covered)
- One course in software engineering
- One course in discrete mathematics
- One course in Boolean algebra
- One course in linear algebra

***NOTE:** Additional computer science courses beyond the two required are strongly recommended, particularly those that align with the major of interest. Our first year of object-oriented programming is taught in Python. C++ and Java are used extensively in the curriculum; therefore, transfer students should plan to learn it by studying on their own or by completing related programming courses prior to their first quarter at UCI.

Additional courses beyond those required for admission must be taken to fulfill the lower-division degree requirements, as many are prerequisites for upper-division courses. For some transfer students, this may mean that it will take longer than two years to complete their degree.

Students should have I&C SCI 31-33 credit first in order to move further into the program here at UCI.

In fulfillment of the requirements below, a single course may be used only once.

For information regarding the [AP and IB examination](#) credit policies refer to the UCI General Catalogue.

MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER

I&C SCI 31 - Introduction to Programming (4.00)

--- And ---

I&C SCI 32 - Programming with Software Libraries (4.00)

--- And ---

I&C SCI 33 - Intermediate Programming (4.00)

- Please refer to additional important General Information section above

COMSC 110 - Introduction to Programming (4.00)

--- And ---

COMSC 165 - Advanced Programming with C and C++ (4.00)

--- And ---

COMSC 200 - Object Oriented Programming C++ (4.00)

--- And ---

COMSC 210 - Program Design and Data Structures (4.00)

MATH 2A - Single-Variable Calculus (4.00)

← **MATH 192** - Analytic Geometry and Calculus I (5.00)

MATH 2B - Single-Variable Calculus (4.00)

← **MATH 193** - Analytic Geometry and Calculus II (5.00)

One additional approved transferable course for the major (an approved Math, Science, or CSE course):

← No Course Articulated

- Please refer to additional important General Information section above

ONE ADDITIONAL APPROVED TRANSFERABLE COURSE FOR THE MAJOR (MATH OR CS COURSE)

REFER TO TOP OF AGREEMENT

MATH 3A - Introduction to Linear Algebra (4.00)	← MATH 194 - Linear Algebra (3.00)
--- Or ---	
I&C SCI 6N - Computational Linear Algebra (4.00)	← No Course Articulated
I&C SCI 6B - Boolean Logic and Discrete Structures (4.00)	← No Course Articulated
I&C SCI 6D - Discrete Mathematics for Computer Science (4.00)	← MATH 195 - Discrete Mathematics (4.00)
I&C SCI 45C - Programming in C/C++ as a Second Language (4.00)	←
COMSC 110 - Introduction to Programming (4.00)	
--- And ---	
COMSC 165 - Advanced Programming with C and C++ (4.00)	
--- And ---	
COMSC 200 - Object Oriented Programming C++ (4.00)	
--- And ---	
COMSC 210 - Program Design and Data Structures (4.00)	
I&C SCI 46 - Data Structure Implementation and Analysis (4.00)	← No Course Articulated
I&C SCI 51 - Introductory Computer Organization (6.00)	← COMSC 260 - Assembly Language Programming/Computer Organization (4.00)
I&C SCI 53 - Principles in System Design (4.00)	← No Course Articulated
IN4MATX 43 - Introduction to Software Engineering (4.00)	← No Course Articulated
STATS 67 - Introduction to Probability and Statistics for Computer Science (4.00)	← No Course Articulated
Two courses approved for General Education Category II except those related to computing/engineering, economics, or mathematics	← No Course Articulated

END OF AGREEMENT