

B.S. Dual Major Specimen #1A for Computer Science and Biology
For Division A students starting with both Computer Science and Biology / Chemistry
Revision of June 23, 2008

This degree program requires 139 SH of credit

Freshman year

A1	CS U200 Discrete Structures and CS U201 (Recitation)	4
Fall	CS U211 Fundamentals of Computer Science 1 and CS U212	5
	CS U221 CS/IS Overview 1 or BIO U100 College: An Introduction	1
	BIO U101 Principles of Biology 1 and BIO U102	5
	CHM U211 General Chemistry 1 and CHM 212, 213	5
A2	CS U213 Fundamentals of Computer Science 2 and CS U214	5
Spring	CS U222 CS/IS Overview 2 or BIO U106 Introduction to Experiential Education	1
	BIO U103 Principles of Biology 2 and BIO U104	5
	CHM U214 General Chemistry 2 and CHM 215, 216	5
	ENG U111 College Writing	4

Sophomore Year

A3	CS U370 Object-Oriented Design	4
Fall	PHL U215 Symbolic Logic [A&S Core II]	4
	CHM U311 Organic Chemistry 1 and CHM U312	5
	MTH U151 Calculus and Differential Equations for Biology 1	4
A4	CS U430 Database Design	4
Spring	BIO U301 Genetics and Molecular Biology and BIO U302	5
	CHM U313 Organic Chemistry 2 and CHM U314	5
	MTH U152 Calculus and Differential Equations for Biology 2	4

Middler Year

A5	CS U390 Theory of Computation	4
Spring	BIO Elective 1	4/5
	MTH U481 Probability and Statistics	4
	A&S Core	4
H1	A&S Core	4
Summer 1	General Elective 1	4

Junior Year

A6	CS U690 Algorithms and Data	4
Spring	BIO Elective 2	4/5
	ENG U302 Writing for Careers in Technical Professions	4
	SOC U528 Computers and Society [A&S Core V]	4
H2	A&S Core	4
Summer 1	General Elective 2	4

Senior Year

A7	CS Elective	4
Spring	BIO U701 Biology Capstone	4
	<i>Biology Integrative Course: See Requirements</i>	4 or 5
	General Elective 3	4

B.S. Dual Major Specimen #1B for Computer Science and Biology
For Division B students starting with both Computer Science and Biology / Chemistry
Revision of June 23, 2008

This degree program requires 139 SH of credit

Freshman year

A1	CS U200 Discrete Structures and CS U201 (Recitation)	4
Fall	CS U211 Fundamentals of Computer Science 1 and CS U212	5
	CS U221 CS/IS Overview 1 or BIO U100 College: An Introduction	1
	BIO U101 Principles of Biology 1 and BIO U102	5
	CHM U211 General Chemistry 1 and CHM 212, 213	5
A2	CS U213 Fundamentals of Computer Science 2 and CS U214	5
Spring	CS U222 CS/IS Overview 2 or BIO U106 Introduction to Experiential Education	1
	BIO U103 Principles of Biology 2 and BIO U104	5
	CHM U214 General Chemistry 2 and CHM 215, 216	5
	ENG U111 College Writing	4

Sophomore Year

A3	CS U370 Object-Oriented Design	4
Fall	PHL U215 Symbolic Logic [A&S Core II]	4
	CHM U311 Organic Chemistry 1 and CHM U312	5
	MTH U151 Calculus and Differential Equations for Biology 1	4

Middler Year

H1	CHM U313 Organic Chemistry 2 and CHM U314	5
Summer 2	General Elective 1	4
A4	CS U430 Database Design	4
Fall	BIO U301 Genetics and Molecular Biology and BIO U302	5
	MTH U152 Calculus and Differential Equations for Biology 2	4
	A&S Core	4

Junior Year

H2	A&S Core	4
Summer 2	General Elective 2	4
A5	CS U390 Theory of Computation	4
Fall	BIO Elective 1	4/5
	MTH U481 Probability and Statistics	4
	A&S Core	4

Senior Year

A6	CS U690 Algorithms and Data	4
Fall	BIO Elective 2	4/5
	ENG U302 Writing for Careers in Technical Professions	4
	SOC U528 Computers and Society [A&S Core V]	4
A7	CS Elective	4
Spring	BIO U701 Biology Capstone	4
	<i>Biology Integrative Course: See Requirements</i>	4 or 5
	General Elective 3	4

B.S. Dual Major Specimen #2A for Computer Science and Biology
For Division A students starting with Biology / Chemistry
Revision of June 23, 2008

This degree program requires 139 SH of credit

Freshman year

A1	BIO U101 Principles of Biology 1 and BIO U102	5
Fall	BIO U100 College: An Introduction	1
	CHM U211 General Chemistry 1 and CHM 212, 213	5
	MTH U151 Calculus and Differential Equations for Biology 1	4
	A&S Core	4
A2	BIO U103 Principles of Biology 2 and BIO U104	5
Spring	BIO U106 Introduction to Experiential Education	1
	CHM U214 General Chemistry 2 and CHM 215, 216	5
	MTH U152 Calculus and Differential Equations for Biology 2	4
	ENG U111 College Writing	4

Sophomore Year

A3	CS U200 Discrete Structures and CS U201 (Recitation)	4
Fall	CS U211 Fundamentals of Computer Science 1 and CS U212	5
	CHM U311 Organic Chemistry 1 and CHM U312	5
	General Elective 1	4
A4	CS U213 Fundamentals of Computer Science 2 and CS U214	5
Spring	PHL U215 Symbolic Logic [A&S Core II]	4
	BIO U301 Genetics and Molecular Biology and BIO U302	5
	CHM U313 Organic Chemistry 2 and CHM U314	5

Middler Year

A5	CS U370 Object-Oriented Design	4
Spring	CS U430 Database Design	4
	BIO Elective 1	4/5
	MTH U481 Probability and Statistics	4
H1	A&S Core	4
Summer 1	General Elective 2	4

Junior Year

A6	CS U390 Theory of Computation	4
Spring	BIO Elective 2	4/5
	ENG U302 Writing for Careers in Technical Professions	4
	SOC U528 Computers and Society [A&S Core V]	4
H2	A&S Core	4
Summer 1	General Elective 3	4

Senior Year

A7	CS U690 Algorithms and Data	4
Spring	CS Elective	4
	BIO U701 Biology Capstone	4
	<i>Biology Integrative Course: See Requirements</i>	4 or 5

**B.S. Dual Major Specimen #2B for Computer Science and Biology
For Division B students starting with Biology / Chemistry
Revision of June 23, 2008**

This degree program requires 139 SH of credit

Freshman year

A1	BIO U101 Principles of Biology 1 and BIO U102	5
Fall	BIO U100 College: An Introduction	1
	CHM U211 General Chemistry 1 and CHM 212, 213	5
	MTH U151 Calculus and Differential Equations for Biology 1	4
	A&S Core	4
A2	BIO U103 Principles of Biology 2 and BIO U104	5
Spring	BIO U106 Introduction to Experiential Education	1
	CHM U214 General Chemistry 2 and CHM 215, 216	5
	MTH U152 Calculus and Differential Equations for Biology 2	4
	ENG U111 College Writing	4

Sophomore Year

A3	CS U200 Discrete Structures and CS U201 (Recitation)	4
Fall	CS U211 Fundamentals of Computer Science 1 and CS U212	5
	CHM U311 Organic Chemistry 1 and CHM U312	5
	General Elective 1	4

Middler Year

H1	CHM U313 Organic Chemistry 2 and CHM U314	5
Summer 2	General Elective 2	4
A4	CS U213 Fundamentals of Computer Science 2 and CS U214	5
Fall	PHL U215 Symbolic Logic [A&S Core II]	4
	BIO U301 Genetics and Molecular Biology and BIO U302	5
	A&S Core	4

Junior Year

H2	A&S Core	4
Summer 2	General Elective 3	4
A5	CS U370 Object-Oriented Design	4
Fall	CS U430 Database Design	4
	BIO Elective 1	4/5
	MTH U481 Probability and Statistics	4

Senior Year

A6	CS U390 Theory of Computation	4
Fall	BIO Elective 2	4/5
	ENG U302 Writing for Careers in Technical Professions	4
	SOC U528 Computers and Society [A&S Core V]	4
A7	CS U690 Algorithms and Data	4
Spring	CS Elective	4
	BIO U701 Biology Capstone	4
	<i>Biology Integrative Course: See Requirements</i>	4 or 5

**B.S. Dual Major Specimen #3A for Computer Science and Biology
For Division A students starting with Computer Science
Revision of June 23, 2008**

This degree program requires 139 SH of credit

Freshman year

A1	CS U200 Discrete Structures and CS U201 (Recitation)	4
Fall	CS U211 Fundamentals of Computer Science 1 and CS U212	5
	CS U221 CS/IS Overview 1	1
	ENG U111 College Writing	4
	A&S Core	4
A2	CS U213 Fundamentals of Computer Science 2 and CS U214	5
Spring	CS U222 CS/IS Overview 2	1
	PHL U215 Symbolic Logic [A&S Core II]	4
	A&S Core	4
	General Elective 1	4

Sophomore Year

A3	CS U370 Object-Oriented Design	4
Fall	BIO U101 Principles of Biology 1 and BIO U102	5
	CHM U211 General Chemistry 1 and CHM 212, 213	5
	MTH U151 Calculus and Differential Equations for Biology 1	4
A4	CS U430 Database Design	4
Spring	BIO U103 Principles of Biology 2 and BIO U104	5
	CHM U214 General Chemistry 2 and CHM 215, 216	5
	MTH U152 Calculus and Differential Equations for Biology 2	4

Middler Year

A5	CS U390 Theory of Computation	4
Spring	BIO U301 Genetics and Molecular Biology and BIO U302	5
	BIO Elective 1	4/5
	CHM U311 Organic Chemistry 1 and CHM U312	5
H1	MTH U481 Probability and Statistics	4
Summer 1	General Elective 2	4

Junior Year

A6	CS U690 Algorithms and Data	4
Spring	BIO Elective 2	4/5
	CHM U313 Organic Chemistry 2 and CHM U314	5
	ENG U302 Writing for Careers in Technical Professions	4
H2	A&S Core	4
Summer 1	General Elective 3	4

Senior Year

A7	CS Elective	4
Spring	BIO U701 Biology Capstone	4
	<i>Biology Integrative Course: See Requirements</i>	4 or 5
	SOC U528 Computers and Society [A&S Core V]	4

B.S. Dual Major Specimen #3B for Computer Science and Biology
For Division B students starting with Computer Science
Revision of June 23, 2008

This degree program requires 139 SH of credit

Freshman year

A1	CS U200 Discrete Structures and CS U201 (Recitation)	4
Fall	CS U211 Fundamentals of Computer Science 1 and CS U212	5
	CS U221 CS/IS Overview 1	1
	ENG U111 College Writing	4
	A&S Core	4
A2	CS U213 Fundamentals of Computer Science 2 and CS U214	5
Spring	CS U222 CS/IS Overview 2	1
	PHL U215 Symbolic Logic [A&S Core II]	4
	A&S Core	4
	General Elective 1	4

Sophomore Year

A3	CS U370 Object-Oriented Design	4
Fall	BIO U101 Principles of Biology 1 and BIO U102	5
	CHM U211 General Chemistry 1 and CHM 212, 213	5
	MTH U151 Calculus and Differential Equations for Biology 1	4

Middler Year

H1	A&S Core	4
Summer 2	General Elective 2	4
A4	CS U430 Database Design	4
Fall	BIO U103 Principles of Biology 2 and BIO U104	5
	CHM U214 General Chemistry 2 and CHM 215, 216	5
	MTH U152 Calculus and Differential Equations for Biology 2	4

Junior Year

H2	MTH U481 Probability and Statistics	4
Summer 2	General Elective 3	4
A5	CS U390 Theory of Computation	4
Fall	BIO U301 Genetics and Molecular Biology and BIO U302	5
	BIO Elective 1	4/5
	CHM U311 Organic Chemistry 1 and CHM U312	5

Senior Year

A6	CS U690 Algorithms and Data	4
Fall	BIO Elective 2	4/5
	CHM U313 Organic Chemistry 2 and CHM U314	5
	ENG U302 Writing for Careers in Technical Professions	4
A7	CS Elective	4
Spring	BIO U701 Biology Capstone	4
	<i>Biology Integrative Course: See Requirements</i>	4 or 5
	SOC U528 Computers and Society [A&S Core V]	4