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## Computer Science

### Degree Pathway

An Associate of Science provides a general education degree designed for students planning to transfer to four-year colleges and universities and pursue, in general, majors in science (computer, natural, physical, and social sciences), mathematics, and business. Of the 60 total credits needed to complete this degree pathway, 34-35 credit hours make up the Systemwide General Education Framework. The Additional Pathway Electives are courses specifically chosen for this transfer pathway. For more information about transfer and Systemwide General Education (SGE) please visit <https://www.hutchcc.edu/transfer>. This is a suggested list of courses. Consult with an advisor for more information.

(T) are Systemwide Transfer Courses

(★) are recommended for this degree pathway.

Systemwide General Education Framework			
Course ID	Course Title	Credit Hours	Notes
<b>English Options (SGE) 010</b>		<b>6.00</b>	<b>6 credits required.</b>
EN101	English Composition IA T	3.00	Spring 2026, Summer 2026, Fall 2026 Prereq: HS GPA over 3.0, or Accu NG Writing Score 255+ & Accu NG Reading Score 255+, and ACT Reading Score of 18 or above, or ACT English Score of 18 or above.
EN102	English Composition II T	3.00	Spring 2026, Summer 2026, Fall 2026 Prereq: EN101 English Composition IA with a grade of C or higher, or EN101H English Comp IA with a grade of C or higher, or EN100 English Comp IB with a grade of C or higher.
<b>Computer Science-Communications Options-SH101 (SGE) 020</b>		<b>3.00</b>	<b>3 credits required.</b>
SH101	Public Speaking T	3.00	Spring 2026, Summer 2026, Fall 2026
<b>Computer Science-Mathematics Options-MA111 (SGE) 030</b>		<b>5.00</b>	<b>3 credits required.</b>
MA111	Analytical Geometry and Calculus I T	5.00	Spring 2026, Summer 2026, Fall 2026 Prereq: MA107 Plane Trigonometry with a grade of C or higher, or ACT Math Score of 25 to 36, or MA109 Pre-Calculus Math with a grade of C or higher.
<b>Computer Science-Natural &amp; Physical Science Lab Options-PY201 (SGE) 040</b>		<b>5.00</b>	<b>4-5 credits required including a lab.</b>
PY201	Engineering Physics I T	5.00	Fall 2026 Prereq: MA111 Analytical Geometry & Calculus I, or MA112H Honors Analytical Geometry & Calculus.
<b>Computer Science-Social &amp; Behavioral Sciences Options-EC101 (SGE) 050</b>		<b>3.00</b>	<b>6 credits required from two disciplines.</b>
EC101	Microeconomics T	3.00	Spring 2026, Summer 2026, Fall 2026
<b>Computer Science-Social &amp; Behavioral Sciences Options-PS100 or SO100 (SGE) 050</b>		<b>3.00</b>	<b>6 credits required from two disciplines.</b>
PS100	General Psychology T	3.00	Spring 2026, Summer 2026, Fall 2026
SO100	Fundamentals of Sociology T	3.00	Spring 2026, Summer 2026, Fall 2026
<b>Computer Science-Arts &amp; Humanities Options-PL103 (SGE) 060</b>		<b>3.00</b>	<b>6 credits required from two disciplines.</b>

PL103	Logic and Critical Thinking ▾	3.00	Spring 2026, Fall 2026
<b>Computer Science-Arts &amp; Humanities Options (SGE) 060</b>		<b>3.00</b>	<b>6 credits required from two disciplines.</b>
AR101	Art Appreciation ▾	3.00	Spring 2026, Summer 2026, Fall 2026
AR104	Art History: Paleolithic to Medieval ▾	3.00	Fall 2026
AR105	Art History: Renaissance to Modern ▾	3.00	Spring 2026
AR106	Art in the Elementary Classroom ▾	3.00	Spring 2026, Fall 2026
EN120	Children's Literature ▾	3.00	Spring 2026, Fall 2026
EN128	Introduction to Creative Writing ▾	3.00	Spring 2026, Fall 2026
EN201	Introduction to Literature ▾	3.00	Summer 2026, Fall 2026 Prereq: EN100 English Comp IB with a grade of C or higher, or EN101 English Composition IA with a grade of C or higher.
EN204	American Literature I ▾	3.00	Fall 2026 Prereq: EN101 English Composition IA with a grade of C or higher, or EN100 English Comp IB with a grade of C or higher.
EN205	American Literature II ▾	3.00	Spring 2026 Prereq: EN101 English Composition IA with a grade of C or higher, or EN100 English Comp IB with a grade of C or higher.
HI101	American History 1492-1865 ▾	3.00	Spring 2026, Summer 2026, Fall 2026
HI102	American History 1865-Present ▾	3.00	Spring 2026, Summer 2026, Fall 2026
HI103	World History to 1600 ▾	3.00	Spring 2026, Summer 2026, Fall 2026
HI104	World History Since 1600 ▾	3.00	Spring 2026, Summer 2026, Fall 2026
JL101	Introduction to Mass Communications ▾	3.00	Spring 2026, Summer 2026, Fall 2026
MU101	Music Appreciation ▾	3.00	Spring 2026, Summer 2026, Fall 2026
MU106	Music Theory I ▾	3.00	Fall 2026
MU107	Music Theory II ▾	3.00	Spring 2026 Prereq: MU106 Music Theory I.
MU201	Music in the Elementary Classroom ▾	3.00	Fall 2026
RE101	New Testament Literature ▾	3.00	Spring 2026, Fall 2026
RE102	Old Testament Literature ▾	3.00	Fall 2026
RE106	Introduction to World Religions ▾	3.00	Spring 2026
SH122	Voice and Diction ▾	3.00	
SH210	Interpersonal Communication ▾	3.00	Spring 2026, Summer 2026, Fall 2026
SP101	Elementary Spanish I ▾	5.00	Spring 2026, Summer 2026, Fall 2026
SP102	Elementary Spanish II ▾	5.00	Spring 2026, Fall 2026 Prereq: SP101 Elementary Spanish I.
SP105	Elementary Spanish III ▾	5.00	Prereq: SP102 Spanish II.
TH115	Theatre Appreciation ▾	3.00	Spring 2026, Fall 2026
TH122	Voice and Diction ▾	3.00	
<b>Computer Science-Institutional Options-MA113 (SGE) 070</b>		<b>5.00</b>	<b>6 credits required.</b>
MA113	Analytical Geometry and Calculus II ▾	5.00	Spring 2026, Summer 2026, Fall 2026 Prereq: MA111 with a grade of C or higher.
<b>Computer Science-Institutional Options (SGE) 070</b>		<b>1.00</b>	<b>6 credits required.</b>
AR101	Art Appreciation ▾	3.00	Spring 2026, Summer 2026, Fall 2026
AR104	Art History: Paleolithic to Medieval ▾	3.00	Fall 2026
AR105	Art History: Renaissance to Modern ▾	3.00	Spring 2026
AR106	Art in the Elementary Classroom ▾	3.00	Spring 2026, Fall 2026
AR110	Drawing I ▾	3.00	Fall 2026
AR122	2-D Design ▾	3.00	Fall 2026

BI101	General Biology <a href="#">▾</a>	4.00	Spring 2026, Summer 2026, Fall 2026
BI102	Ecology of Environmental Problems <a href="#">▾</a>	3.00	Spring 2026
BI103	Human Anatomy and Physiology <a href="#">▾</a>	6.00	Spring 2026, Summer 2026, Fall 2026 Prereq: BI100 or BI101 or BI104 or BI105 or BI112 w/Grade of C.
BI104	Biology I <a href="#">▾</a>	5.00	Spring 2026, Fall 2026 Prereq: CH101 General Chemistry, or CH105 Chemistry I with a C or Higher.
BI105	Biology II <a href="#">▾</a>	5.00	Spring 2026 Prereq: BI101 General Biology, or Departmental Consent, or BI104 Biology I.
BI107	Human Anatomy and Physiology I <a href="#">▾</a>	4.00	Spring 2026, Summer 2026, Fall 2026
BI108	Human Anatomy and Physiology II <a href="#">▾</a>	4.00	Spring 2026, Summer 2026, Fall 2026 Prereq: BI107 Human Anatomy and Physiology I.
BI112	General Microbiology <a href="#">▾</a>	4.00	Spring 2026, Summer 2026, Fall 2026 Prereq: (BI101, BI103, BI104, BI105) BI107 is not a valid prereq code.
BU101	Accounting I <a href="#">▾</a>	3.00	Spring 2026, Summer 2026, Fall 2026
BU102	Accounting II <a href="#">▾</a>	3.00	Spring 2026, Summer 2026, Fall 2026 Prereq: BU101 Accounting I with a grade of C or better, or BU101H Honors Accounting I with a Grade of C or Higher, or BA101 Accounting I with a grade of C or better.
BU105	Introduction to Business <a href="#">▾</a>	3.00	Spring 2026, Summer 2026, Fall 2026
BU107	Personal Finance <a href="#">▾</a>	3.00	Spring 2026, Summer 2026, Fall 2026
BU109	Business Communications <a href="#">▾</a>	3.00	Spring 2026, Summer 2026, Fall 2026
BU118	Introduction to Leadership <a href="#">▾</a>	3.00	Spring 2026, Fall 2026
BU201	Managerial Accounting <a href="#">▾</a>	3.00	Spring 2026, Summer 2026, Fall 2026 Prereq: BU102 with a C or higher or BA102 with a C or higher.
BU202	Marketing <a href="#">▾</a>	3.00	Spring 2026, Fall 2026
BU203	Management <a href="#">▾</a>	3.00	Spring 2026, Summer 2026, Fall 2026
BU205	Business Law I <a href="#">▾</a>	3.00	Spring 2026, Fall 2026
CC101	Introduction to Early Childhood Education <a href="#">▾</a>	3.00	Spring 2026, Fall 2026
CC105	Infant and Toddler Development <a href="#">▾</a>	3.00	Fall 2026
CH101	General Chemistry <a href="#">▾</a>	5.00	Spring 2026, Summer 2026, Fall 2026 Prereq: MA106 College Algebra, or MA117 Contemporary Math, or MA108 Elements of Statistics.
CH105	Chemistry I <a href="#">▾</a>	5.00	Spring 2026, Fall 2026 Prereq: ACT Math Score of 21 or higher, or MA105 or higher math, or Accuplacer NextGen QuantReason, Alg,Stats Score 263 or Above, or Accuplacer Math Score of 81+.
CH106	Chemistry II <a href="#">▾</a>	5.00	Spring 2026 Prereq: CH105 Chemistry I with a C or Higher.
CH108	Principles of Organic and Biochemistry <a href="#">▾</a>	5.00	Fall 2026 Prereq: CH105 Chemistry I, or Departmental Consent.
CH108L	Principles of Organic & Biochemistry Lab	0.00	Fall 2026 Prereq: CH105 Chemistry I, or Departmental Consent.
EC100	Macroeconomics <a href="#">▾</a>	3.00	Spring 2026, Summer 2026, Fall 2026
ED201	Introduction to Education <a href="#">▾</a>	3.00	Spring 2026, Fall 2026 Prereq: a GPA of 2.5 or higher, and PS100 General Psychology.
ED201L	Introduction to Education Practicum <a href="#">▾</a>	1.00	Spring 2026, Fall 2026 Prereq: a GPA of 2.5 or higher, and PS100 General Psychology.
ED205	Educating Exceptional Students <a href="#">▾</a>	3.00	Spring 2026, Fall 2026 Prereq: ED201 Introduction to Education with a grade of C or higher.
ED206	Technology for Teachers <a href="#">▾</a>	3.00	Spring 2026, Fall 2026
ED207	Elementary School PE & Health <a href="#">▾</a>	3.00	Spring 2026
EN120	Children's Literature <a href="#">▾</a>	3.00	Spring 2026, Fall 2026
EN128	Introduction to Creative Writing <a href="#">▾</a>	3.00	Spring 2026, Fall 2026
EN201	Introduction to Literature <a href="#">▾</a>	3.00	Summer 2026, Fall 2026 Prereq: EN100 English Comp IB with a grade of C or higher, or EN101 English Composition IA with a grade of C or higher.
EN204	American Literature I <a href="#">▾</a>	3.00	Fall 2026

			Prereq: EN101 English Composition IA with a grade of C or higher, or EN100 English Comp IB with a grade of C or higher.
EN205	American Literature II ▶	3.00	Spring 2026 Prereq: EN101 English Composition IA with a grade of C or higher, or EN100 English Comp IB with a grade of C or higher.
GE101	World Geography ▶	3.00	Spring 2026, Summer 2026, Fall 2026
GO100	American Government ▶	3.00	Spring 2026, Summer 2026, Fall 2026
GO101	State and Local Government ▶	3.00	
GO102	International Relations ▶	3.00	Spring 2026
GO110	Introduction to Political Science ▶	3.00	Fall 2026
GO132	Comparative Politics ▶	3.00	Fall 2026
HE202	Nutrition ▶	3.00	Spring 2026, Summer 2026, Fall 2026
HI101	American History 1492-1865 ▶	3.00	Spring 2026, Summer 2026, Fall 2026
HI102	American History 1865-Present ▶	3.00	Spring 2026, Summer 2026, Fall 2026
HI103	World History to 1600 ▶	3.00	Spring 2026, Summer 2026, Fall 2026
HI104	World History Since 1600 ▶	3.00	Spring 2026, Summer 2026, Fall 2026
HR105	Medical Terminology ▶	3.00	Spring 2026, Summer 2026, Fall 2026
IS104	Microcomputer Applications ▶	3.00	Spring 2026, Summer 2026, Fall 2026
JL101	Introduction to Mass Communications ▶	3.00	Spring 2026, Summer 2026, Fall 2026
LE101	Introduction to Criminal Justice ▶	3.00	Spring 2026, Fall 2026
LE205	Criminal Law ▶	3.00	Fall 2026
MA106	College Algebra ▶	3.00	Spring 2026, Summer 2026, Fall 2026 Prereq: HS GPA over 3.25, or Accuplacer NextGen QuantReason, Alg,Stats Score 263 or Above, or ACT Math Score of 22 or Higher.
MA107	Plane Trigonometry ▶	3.00	Spring 2026, Summer 2026, Fall 2026 Prereq: MA106 College Algebra with a grade of C or higher, or ACT Math Score of 23 to 36.
MA108	Elements of Statistics ▶	3.00	Spring 2026, Summer 2026, Fall 2026 Prereq: HS GPA over 3.0, or Accuplacer NG QuantReason, Alg, Stats Score 255 or Above, or ACT Math Score of 19 or Higher.
MA110	Calculus ▶	3.00	Spring 2026, Summer 2026, Fall 2026 Prereq: MA106 College Algebra with a grade of C or higher, or ACT Math Score of 23 to 36, or MA109 Pre-Calculus Math with a grade of C or higher.
MA117	Contemporary Math ▶	3.00	Spring 2026, Summer 2026, Fall 2026
MU101	Music Appreciation ▶	3.00	Spring 2026, Summer 2026, Fall 2026
MU106	Music Theory I ▶	3.00	Fall 2026
MU107	Music Theory II ▶	3.00	Spring 2026 Prereq: MU106 Music Theory I.
MU201	Music in the Elementary Classroom ▶	3.00	Fall 2026
PE105	Personal and Community Health ▶	3.00	Spring 2026, Summer 2026, Fall 2026
PE106	First Aid and CPR ▶	2.00	Spring 2026, Fall 2026
PE185	Exercise Physiology ▶	3.00	Spring 2026
PL101	Introduction to Philosophy ▶	3.00	Spring 2026, Summer 2026, Fall 2026
PL104	Ethics ▶	3.00	Spring 2026, Summer 2026, Fall 2026
PS100	General Psychology ▶	3.00	Spring 2026, Summer 2026, Fall 2026
PS102	Human Growth and Development ▶	3.00	Spring 2026, Summer 2026, Fall 2026 Prereq: PS100 General Psychology.
PY102	Weather and Climate	3.00	Spring 2026
PY103	Physical Geology ▶	3.00	Spring 2026, Summer 2026, Fall 2026
PY104L	Physical Geology Lab ▶	1.00	Spring 2026, Summer 2026, Fall 2026 Prereq: PY103 Physical Geology.
PY110	Physical Science ▶	5.00	Spring 2026, Fall 2026
PY112	General Physics I ▶	5.00	Fall 2026 Prereq: MA106 College Algebra or higher math.

PY113	General Physics II ▸	5.00	Spring 2026 Prereq: PY112 Gen Physics I.
RE101	New Testament Literature ▸	3.00	Spring 2026, Fall 2026
RE102	Old Testament Literature ▸	3.00	Fall 2026
RE106	Introduction to World Religions ▸	3.00	Spring 2026
SH122	Voice and Diction ▸	3.00	
SH210	Interpersonal Communication ▸	3.00	Spring 2026, Summer 2026, Fall 2026
SM180	Basic Sports Medicine ▸	3.00	Spring 2026, Fall 2026
SO100	Fundamentals of Sociology ▸	3.00	Spring 2026, Summer 2026, Fall 2026
SO101	Marriage and Family ▸	3.00	Spring 2026, Summer 2026, Fall 2026
SO106	Introduction to Women's Studies ▸	3.00	Fall 2026
SO111	Cultural Anthropology ▸	3.00	Spring 2026, Summer 2026, Fall 2026
SO113	Cultural Diversity ▸	3.00	Spring 2026, Fall 2026
SO122	Introduction to Social Work ▸	3.00	Spring 2026, Fall 2026
SO201	Social Problems ▸	3.00	Spring 2026 Prereq: SO100 Fundamentals of Sociology.
SP101	Elementary Spanish I ▸	5.00	Spring 2026, Summer 2026, Fall 2026
SP102	Elementary Spanish II ▸	5.00	Spring 2026, Fall 2026 Prereq: SP101 Elementary Spanish I.
SP105	Elementary Spanish III ▸	5.00	Prereq: SP102 Spanish II.
TH115	Theatre Appreciation ▸	3.00	Spring 2026, Fall 2026
TH122	Voice and Diction ▸	3.00	
<b>Additional Pathway Electives</b>			
<b>Course ID</b>	<b>Course Title</b>	<b>Credit Hours</b>	<b>Notes</b>
CS106	Computer Engineering	4.00	Spring 2026, Fall 2026
CS111	Visual Basic Programming ▸	3.00	Spring 2026, Summer 2026, Fall 2026
CS200	Problem Solving and Programming ▸	4.00	Spring 2026, Fall 2026 Prereq: MA106 College Algebra, or Departmental Consent, and CS111 Visual Basic Programming.
CS203	Discrete Structures	3.00	Spring 2026, Fall 2026 Prereq: MA106 College Algebra with a grade of C or higher.
CS206	Data Structures and Algorithms	3.00	Fall 2026 Prereq: CS200 Problem Solving and Programming.
MA206	Differential Equations ▸	3.00	Spring 2026 Prereq: MA113 with a grade of C or higher.
PY202	Engineering Physics II ▸	5.00	Spring 2026 Prereq: PY201 Eng Phys I with grade of C or better.
No additional pathway electives			

**Total Credits: 62.00**

\*A minimum of 60 hours is required to earn a HutchCC AA, AS, or AFA degree; however additional credit hours may be outlined on the transfer pathway to meet the program requirements for a 4-year institution.

\*\*34-35 credit hours fulfill the Systemwide General Education Core.

**Program Notes:**

For degree requirements for the Associate of Science, students must complete MA106 College Algebra or higher math course and one lab science. For transfer, it is recommended students complete MA111 Analytical Geometry and Calculus I, MA113 Analytical Geometry and Calculus II, PY112 General Physics I, and PY113 General Physics II. Although the SGE requires 4-5 credit hours of a lecture and lab course in the Natural Science area, a student must complete 9 credit hours of Natural Science & Mathematics courses (with at least 4 hours being a lecture and lab science course) to meet the HutchCC Associate of Science degree requirement.