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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
English Options (SGE) 010		6.00	6 credits required.
EN101	English Composition IA T	3.00	Summer 2026, Fall 2026, Spring 2027 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	Summer 2026, Fall 2026, Spring 2027 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.
Computer Science-Communications Options-SH101 (SGE) 020		3.00	3 credits required.
SH101	Public Speaking T	3.00	Summer 2026, Fall 2026, Spring 2027
Computer Science-Mathematics Options-MA111 (SGE) 030		5.00	3 credits required.
MA111	Analytical Geometry and Calculus I T	5.00	Summer 2026, Fall 2026, Spring 2027 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.
Computer Science-Natural & Physical Science Lab Options-PY201 (SGE) 040		5.00	4-5 credits required including a lab.
PY201	Engineering Physics I T	5.00	Fall 2026 Prereq: MA111 Analytical Geometry & Calculus I, or MA112H Honors Analytical Geometry & Calculus.
Computer Science-Social & Behavioral Sciences Options-EC101 (SGE) 050		3.00	6 credits required from two disciplines.
EC101	Microeconomics T	3.00	Summer 2026, Fall 2026, Spring 2027
Computer Science-Social & Behavioral Sciences Options-PS100 or SO100 (SGE) 050		3.00	6 credits required from two disciplines.
PS100	General Psychology T	3.00	Summer 2026, Fall 2026, Spring 2027
SO100	Fundamentals of Sociology T	3.00	Summer 2026, Fall 2026, Spring 2027
Computer Science-Arts & Humanities Options-PL103 (SGE) 060		3.00	6 credits required from two disciplines.

PL103	Logic and Critical Thinking ▾	3.00	Fall 2026, Spring 2027
Computer Science-Arts & Humanities Options (SGE) 060		3.00	6 credits required from two disciplines.
AR101	Art Appreciation ▾	3.00	Summer 2026, Fall 2026, Spring 2027
AR104	Art History: Paleolithic to Medieval ▾	3.00	Fall 2026
AR105	Art History: Renaissance to Modern ▾	3.00	Spring 2027
AR106	Art in the Elementary Classroom ▾	3.00	Fall 2026, Spring 2027
EN120	Children's Literature ▾	3.00	Fall 2026, Spring 2027
EN128	Introduction to Creative Writing ▾	3.00	Fall 2026, Spring 2027
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 2027 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	Summer 2026, Fall 2026, Spring 2027
HI102	American History 1865-Present ▾	3.00	Summer 2026, Fall 2026, Spring 2027
HI103	World History to 1600 ▾	3.00	Summer 2026, Fall 2026, Spring 2027
HI104	World History Since 1600 ▾	3.00	Summer 2026, Fall 2026, Spring 2027
JL101	Introduction to Mass Communications ▾	3.00	Summer 2026, Fall 2026, Spring 2027
MU101	Music Appreciation ▾	3.00	Summer 2026, Fall 2026, Spring 2027
MU106	Music Theory I ▾	3.00	Fall 2026
MU107	Music Theory II ▾	3.00	Spring 2027 Prereq: MU106 Music Theory I.
MU201	Music in the Elementary Classroom ▾	3.00	Fall 2026
RE101	New Testament Literature ▾	3.00	Fall 2026, Spring 2027
RE102	Old Testament Literature ▾	3.00	Fall 2026
RE106	Introduction to World Religions ▾	3.00	Spring 2027
SH122	Voice and Diction ▾	3.00	Spring 2027
SH210	Interpersonal Communication ▾	3.00	Summer 2026, Fall 2026, Spring 2027
SP101	Elementary Spanish I ▾	5.00	Summer 2026, Fall 2026, Spring 2027
SP102	Elementary Spanish II ▾	5.00	Fall 2026, Spring 2027 Prereq: SP101 Elementary Spanish I.
SP105	Elementary Spanish III ▾	5.00	Prereq: SP102 Spanish II.
TH115	Theatre Appreciation ▾	3.00	Fall 2026, Spring 2027
TH122	Voice and Diction ▾	3.00	Spring 2027
Computer Science-Institutional Options-MA113 (SGE) 070		5.00	6 credits required.
MA113	Analytical Geometry and Calculus II ▾	5.00	Summer 2026, Fall 2026, Spring 2027 Prereq: MA111 with a grade of C or higher.
Computer Science-Institutional Options (SGE) 070		1.00	6 credits required.
AR101	Art Appreciation ▾	3.00	Summer 2026, Fall 2026, Spring 2027
AR104	Art History: Paleolithic to Medieval ▾	3.00	Fall 2026
AR105	Art History: Renaissance to Modern ▾	3.00	Spring 2027
AR106	Art in the Elementary Classroom ▾	3.00	Fall 2026, Spring 2027
AR110	Drawing I ▾	3.00	Fall 2026
AR122	2-D Design ▾	3.00	Fall 2026

BI101	General Biology ▶	4.00	Summer 2026, Fall 2026, Spring 2027
BI102	Ecology of Environmental Problems ▶	3.00	Spring 2027
BI103	Human Anatomy and Physiology ▶	6.00	Summer 2026, Fall 2026, Spring 2027 Prereq: BI100 or BI101 or BI104 or BI105 or BI112 w/Grade of C.
BI104	Biology I ▶	5.00	Fall 2026, Spring 2027
BI105	Biology II ▶	5.00	Spring 2027 Prereq: BI101 General Biology, or Departmental Consent, or BI104 Biology I.
BI107	Human Anatomy and Physiology I ▶	4.00	Summer 2026, Fall 2026, Spring 2027
BI108	Human Anatomy and Physiology II ▶	4.00	Summer 2026, Fall 2026, Spring 2027 Prereq: BI107 Human Anatomy and Physiology I.
BI112	General Microbiology ▶	4.00	Summer 2026, Fall 2026, Spring 2027 Prereq: (BI101,BI103,BI104,BI105)BI107 is not a valid prereq code.
BU101	Accounting I ▶	3.00	Summer 2026, Fall 2026, Spring 2027
BU102	Accounting II ▶	3.00	Summer 2026, Fall 2026, Spring 2027 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 ▶	3.00	Summer 2026, Fall 2026, Spring 2027
BU107	Personal Finance ▶	3.00	Summer 2026, Fall 2026, Spring 2027
BU109	Business Communications ▶	3.00	Summer 2026, Fall 2026, Spring 2027
BU118	Introduction to Leadership ▶	3.00	Fall 2026, Spring 2027
BU201	Managerial Accounting ▶	3.00	Summer 2026, Fall 2026, Spring 2027 Prereq: BU102 with a C or higher or BA102 with a C or higher.
BU202	Marketing ▶	3.00	Fall 2026, Spring 2027
BU203	Management ▶	3.00	Summer 2026, Fall 2026, Spring 2027
BU205	Business Law I ▶	3.00	Fall 2026, Spring 2027
CC101	Introduction to Early Childhood Education ▶	3.00	Fall 2026, Spring 2027
CC105	Infant and Toddler Development ▶	3.00	Fall 2026
CH101	General Chemistry ▶	5.00	Summer 2026, Fall 2026, Spring 2027 Prereq: MA106 College Algebra, or MA117 Contemporary Math, or MA108 Elements of Statistics.
CH105	Chemistry I ▶	5.00	Fall 2026, Spring 2027 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 ▶	5.00	Spring 2027 Prereq: CH105 Chemistry I with a C or Higher.
CH108	Principles of Organic and Biochemistry ▶	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 ▶	3.00	Summer 2026, Fall 2026, Spring 2027
ED201	Introduction to Education ▶	3.00	Fall 2026, Spring 2027 Prereq: a GPA of 2.5 or higher, and PS100 General Psychology.
ED201L	Introduction to Education Practicum ▶	1.00	Fall 2026, Spring 2027 Prereq: a GPA of 2.5 or higher, and PS100 General Psychology.
ED205	Educating Exceptional Students ▶	3.00	Fall 2026, Spring 2027 Prereq: ED201 Introduction to Education with a grade of C or higher.
ED206	Technology for Teachers ▶	3.00	Fall 2026, Spring 2027
ED207	Elementary School PE & Health ▶	3.00	Spring 2027
EN120	Children's Literature ▶	3.00	Fall 2026, Spring 2027
EN128	Introduction to Creative Writing ▶	3.00	Fall 2026, Spring 2027
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 2027 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	Summer 2026, Fall 2026, Spring 2027
GO100	American Government ▾	3.00	Summer 2026, Fall 2026, Spring 2027
GO101	State and Local Government ▾	3.00	
GO102	International Relations ▾	3.00	Spring 2027
GO110	Introduction to Political Science ▾	3.00	Fall 2026
GO132	Comparative Politics ▾	3.00	Fall 2026, Spring 2027
HE202	Nutrition ▾	3.00	Summer 2026, Fall 2026, Spring 2027
HI101	American History 1492-1865 ▾	3.00	Summer 2026, Fall 2026, Spring 2027
HI102	American History 1865-Present ▾	3.00	Summer 2026, Fall 2026, Spring 2027
HI103	World History to 1600 ▾	3.00	Summer 2026, Fall 2026, Spring 2027
HI104	World History Since 1600 ▾	3.00	Summer 2026, Fall 2026, Spring 2027
HR105	Medical Terminology ▾	3.00	Summer 2026, Fall 2026, Spring 2027
IS104	Microcomputer Applications ▾	3.00	Summer 2026, Fall 2026, Spring 2027
JL101	Introduction to Mass Communications ▾	3.00	Summer 2026, Fall 2026, Spring 2027
LE101	Introduction to Criminal Justice ▾	3.00	Fall 2026, Spring 2027
LE205	Criminal Law ▾	3.00	Fall 2026
MA106	College Algebra ▾	3.00	Summer 2026, Fall 2026, Spring 2027 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	Summer 2026, Fall 2026, Spring 2027 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	Summer 2026, Fall 2026, Spring 2027 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	Summer 2026, Fall 2026, Spring 2027 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	Summer 2026, Fall 2026, Spring 2027 Prereq: HS GPA over 3.0, or Accuplacer NG QuantReason, Alg, Stats Score 255 or Above, or ACT Math Score of 19 or Higher.
MU101	Music Appreciation ▾	3.00	Summer 2026, Fall 2026, Spring 2027
MU106	Music Theory I ▾	3.00	Fall 2026
MU107	Music Theory II ▾	3.00	Spring 2027 Prereq: MU106 Music Theory I.
MU201	Music in the Elementary Classroom ▾	3.00	Fall 2026
PE105	Personal and Community Health ▾	3.00	Summer 2026, Fall 2026, Spring 2027
PE106	First Aid and CPR ▾	2.00	Fall 2026, Spring 2027
PE185	Exercise Physiology ▾	3.00	Spring 2027
PL101	Introduction to Philosophy ▾	3.00	Summer 2026, Fall 2026, Spring 2027
PL104	Ethics ▾	3.00	Summer 2026, Fall 2026, Spring 2027
PS100	General Psychology ▾	3.00	Summer 2026, Fall 2026, Spring 2027
PS102	Human Growth and Development ▾	3.00	Summer 2026, Fall 2026, Spring 2027 Prereq: PS100 General Psychology.
PY102	Weather and Climate	3.00	Spring 2027
PY103	Physical Geology ▾	3.00	Summer 2026, Fall 2026, Spring 2027
PY104L	Physical Geology Lab ▾	1.00	Summer 2026, Fall 2026, Spring 2027 Prereq: PY103 Physical Geology.
PY110	Physical Science ▾	5.00	Fall 2026, Spring 2027
PY112	General Physics I ▾	5.00	Fall 2026 Prereq: MA106 College Algebra or higher math.

PY113	General Physics II ▸	5.00	Spring 2027 Prereq: PY112 Gen Physics I.
RE101	New Testament Literature ▸	3.00	Fall 2026, Spring 2027
RE102	Old Testament Literature ▸	3.00	Fall 2026
RE106	Introduction to World Religions ▸	3.00	Spring 2027
SH122	Voice and Diction ▸	3.00	Spring 2027
SH210	Interpersonal Communication ▸	3.00	Summer 2026, Fall 2026, Spring 2027
SM180	Basic Sports Medicine ▸	3.00	Fall 2026, Spring 2027
SO100	Fundamentals of Sociology ▸	3.00	Summer 2026, Fall 2026, Spring 2027
SO101	Marriage and Family ▸	3.00	Summer 2026, Fall 2026, Spring 2027
SO106	Introduction to Women's Studies ▸	3.00	Fall 2026
SO111	Cultural Anthropology ▸	3.00	Summer 2026, Fall 2026, Spring 2027
SO113	Cultural Diversity ▸	3.00	Fall 2026, Spring 2027
SO122	Introduction to Social Work ▸	3.00	Fall 2026, Spring 2027
SO201	Social Problems ▸	3.00	Spring 2027 Prereq: SO100 Fundamentals of Sociology.
SP101	Elementary Spanish I ▸	5.00	Summer 2026, Fall 2026, Spring 2027
SP102	Elementary Spanish II ▸	5.00	Fall 2026, Spring 2027 Prereq: SP101 Elementary Spanish I.
SP105	Elementary Spanish III ▸	5.00	Prereq: SP102 Spanish II.
TH115	Theatre Appreciation ▸	3.00	Fall 2026, Spring 2027
TH122	Voice and Diction ▸	3.00	Spring 2027
Additional Pathway Electives			
Course ID	Course Title	Credit Hours	Notes
CS106	Computer Engineering ▸	4.00	Fall 2026, Spring 2027
CS111	Introduction to Programming ▸	3.00	Summer 2026, Fall 2026, Spring 2027
CS200	Problem Solving and Programming ▸	4.00	Fall 2026, Spring 2027 Prereq: MA106 College Algebra, or Departmental Consent, and CS111 Intro to Programming.
CS203	Discrete Structures ▸	3.00	Fall 2026, Spring 2027 Prereq: MA106 College Algebra with a grade of C or higher.
CS206	Data Structures and Algorithms ▸	3.00	Fall 2026, Spring 2027 Prereq: CS200 Problem Solving and Programming.
MA206	Differential Equations ▸	3.00	Spring 2027 Prereq: MA113 with a grade of C or higher.
PY202	Engineering Physics II ▸	5.00	Spring 2027 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.