

www.hutchcc.edu/request-info

## **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 <u>https://www.hutchcc.edu/transfer</u>. This is a suggested list of courses. Consult with an advisor for more information.

## (**Ъ**) are Systemwide Transfer Courses

(★ ) are recommended for this degree pathway.

	Systemwide General Education Framework			
Course ID	Course Title	Credit Hours	Notes	
	English Options (SGE) <sup>010</sup>	6.00	6 credits required.	
EN100	English Composition IB T	3.00	Fall, Spring, Summer Prereq: EN098 Intro to College Writing with a grade of C or higher, or Accuplacer Next Generation Writing Score of 240 to 254, or HS GPA over 2.25, or ACT English Score of 17 to 19.	
EN101	English Composition IA T	3.00	Fall, Spring, Summer 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	Fall, Spring, Summer 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 S	Computer Science-Communications Options-SH101 (SGE) <sup>020</sup>		3 credits required.	
SH101	Public Speaking T	3.00	Fall, Spring, Summer	
Computer	Computer Science-Mathematics Options-MA111 (SGE) <sup>030</sup>		3 credits required.	
MA111	Analytical Geometry and Calculus I T	5.00	Fall, Spring, Summer 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 S	Computer Science-Natural & Physical Science Lab Options-PY201 (SGE) <sup>040</sup>		4-5 credits required including a lab.	
PY201	Engineering Physics I T	5.00	Fall Prereq: MA111 Analytical Geometry & Calculus I, or MA112H Honors Analytical Geometry & Calculus.	
Computer Science-Social & Behavioral Sciences Options-EC101 (SGE) <sup>050</sup>		3.00	6 credits required from two disciplines.	
EC101	EC101 Microeconomics T		Fall, Spring, Summer	
Computer Science-Social & Bahavioral Sciences Options-PS100 or SO100 (SGE) <sup>050</sup>		3.00	6 credits required from two disciplines.	
PS100	General Psychology T	3.00	Fall, Spring, Summer	
SO100	Fundamentals of Sociology T	3.00	Fall, Spring, Summer	

Computer Science-Arts & Humanities Options- PL103 (SGE) <sup>060</sup>		3.00	6 credits required from two disciplines.
PL103	Logic and Critical Thinking T	3.00	Fall, Spring
Comput	er Science-Arts & Humanities Options (SGE) <sup>060</sup>	3.00	6 credits required from two disciplines.
AR101	Art Appreciation T	3.00	Fall, Spring, Summer
AR104	Art History: Paleolithic to Medieval T	3.00	Fall
AR105	Art History: Renaissance to Modern T	3.00	Spring
AR106	Art in the Elementary Classroom T	3.00	Fall, Spring
EN120	Children's Literature T	3.00	Fall, Spring
EN128	Introduction to Creative Writing T	3.00	Fall, Spring
EN201	Introduction to Literature T	3.00	Fall, Summer 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 T	3.00	Fall 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 T	3.00	Spring 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 T	3.00	Fall, Spring, Summer
HI102	American History 1865-Present T	3.00	Fall, Spring, Summer
HI103	World History to 1600 T	3.00	Fall, Spring, Summer
HI104	World History Since 1600 T	3.00	Fall, Spring, Summer
JL101	Introduction to Mass Communications T	3.00	Fall, Spring, Summer
MU101	Music Appreciation T	3.00	Fall, Spring, Summer
MU106	Music Theory I T	3.00	Fall
MU107	Music Theory II T	3.00	Spring Prereq: MU106 Music Theory I.
MU201	Music in the Elementary Classroom T	3.00	Fall
RE101	New Testament Literature T	3.00	Spring
RE102	Old Testament Literature T	3.00	Fall
RE106	Introduction to World Religions T	3.00	Spring
SH122	Voice and Diction T	3.00	Fall
SH210	Interpersonal Communication T	3.00	Fall, Spring, Summer
SP101	Elementary Spanish I ႃ	5.00	Fall, Spring, Summer
SP102	Elementary Spanish II T	5.00	Fall, Spring Prereq: SP101 Elementary Spanish I, or Departmental Consent, or SP104 Spanish II.
SP105	Elementary Spanish III T	5.00	Prereq: SP102 Spanish II.
TH115	Theatre Appreciation T	3.00	Fall, Spring, Summer
Compute	er Science-Institutional Options-MA113 (SGE) <sup>070</sup>	5.00	6 credits required.
MA113	Analytical Geometry and Calculus II T	5.00	Fall, Spring, Summer Prereq: MA111 with a grade of C or higher.
Computer	<sup>r</sup> Science-Institutional Options (SGE) <sup>070</sup>	1.00	6 credits required.
AR101	Art Appreciation T	3.00	Fall, Spring, Summer
AR104	Art History: Paleolithic to Medieval T	3.00	Fall
AR105	Art History: Renaissance to Modern T	3.00	Spring
AR106	Art in the Elementary Classroom T	3.00	Fall, Spring
AR110	Drawing I T	3.00	Fall

AR122	2-D Design T►		Fall
BI101	General Biology T		Fall, Spring, Summer
BI102	Ecology of Environmental Problems T	3.00	Spring
BI103	Human Anatomy and Physiology T	6.00	Fall, Spring, Summer Prereq: BI100 or BI101 or BI104 or BI105 or BI112 w/Grade of C.
BI104	Biology I T►	5.00	Fall, Spring Prereq: CH101 General Chemistry, or CH105 Chemistry I with a C or Higher.
BI105	Biology II T	5.00	Spring Prereq: Bl101 General Biology, or Departmental Consent, or Bl104 Biology I.
BI107	Human Anatomy and Physiology I T	4.00	Fall, Spring
BI108	Human Anatomy and Physiology II T	4.00	Fall, Spring Prereq: BI107 Human Anatomy and Physiology I.
BI112	General Microbiology T	4.00	Fall, Spring, Summer Prereq: (Bl101,Bl103,Bl104,Bl105)Bl107 is not a valid prereq code.
BU101	Accounting I T	3.00	Fall, Spring, Summer
BU102	Accounting II T	3.00	Fall, Spring, Summer 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 with a grade of C or better.
BU105	Introduction to Business T	3.00	Fall, Spring, Summer
BU107	Personal Finance <b></b>	3.00	Fall, Spring, Summer
BU109	Business Communications T	3.00	Fall, Spring, Summer
BU118	Introduction to Leadership T	3.00	Fall, Spring
BU201	Managerial Accounting T	3.00	Fall, Spring, Summer Prereq: BU102 with a C or higher or BA102 with a C or higher.
BU202	Marketing T	3.00	Fall, Spring
BU203	Management T	3.00	Fall, Spring, Summer
BU205	Business Law I T	3.00	Fall, Spring
CC101	Introduction to Early Childhood Education $ {f { m P}}$	3.00	Fall, Spring
CC105	Infant and Toddler Development T	3.00	
CH101	General Chemistry T	5.00	Fall, Spring, Summer Prereq: MA106 College Algebra, or MA117 Contemporary Math, or MA108 Elements of Statistics.
CH105	Chemistry l T	5.00	Fall, Spring 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 T	5.00	Spring Prereq: CH105 Chemistry I with a C or Higher.
CH108	Principles of Organic and Biochemistry T	5.00	Fall Prereq: CH105 Chemistry I, or Departmental Consent.
CH108L	Principles of Organic & Biochemistry Lab	0.00	Fall Prereq: CH105 Chemistry I, or Departmental Consent.
EC100	Macroeconomics T	3.00	Fall, Spring, Summer
ED201	Introduction to Education T	3.00	Fall, Spring Prereq: a GPA of 2.5 or higher, and PS100 General Psychology.
ED201L	Introduction to Education Practicum T	1.00	Fall, Spring Prereq: a GPA of 2.5 or higher, and PS100 General Psychology.
ED205	Educating Exceptional Students T	3.00	Fall, Spring Prereq: ED201 Introduction to Education with a grade of C or higher.
ED206	Technology for Teachers T	3.00	Fall, Spring
ED207	Elementary School PE & Health T	3.00	Spring
EN120	Children's Literature T	3.00	Fall, Spring
EN128	Introduction to Creative Writing T	3.00	Fall, Spring
EN201	Introduction to Literature T	3.00	Fall, Summer 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 T	3.00	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 TÞ	3.00	Spring 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 T	3.00	Fall, Spring, Summer
GO100	American Government <b></b>	3.00	Fall, Spring, Summer
GO101	State and Local Government T	3.00	
GO102	International Relations T	3.00	Spring
GO110	Introduction to Political Science T	3.00	Fall
GO132	Comparative Politics <b></b>	3.00	
HE202	Nutrition <b></b>	3.00	Fall, Spring, Summer
HI101	American History 1492-1865 T	3.00	Fall, Spring, Summer
HI102	American History 1865-Present T	3.00	Fall, Spring, Summer
HI103	World History to 1600 <b>™</b>	3.00	Fall, Spring, Summer
HI104	World History Since 1600 T	3.00	Fall, Spring, Summer
HR105	Medical Terminology T	3.00	Fall, Spring, Summer
IS104	Microcomputer Applications T	3.00	Fall, Spring, Summer
JL101	Introduction to Mass Communications $\mathbf{F}$	3.00	Fall, Spring, Summer
LE101	Introduction to Criminal Justice T	3.00	Fall, Spring
LE205	Criminal Law T	3.00	Fall
MA106	College Algebra T	3.00	Fall, Spring, Summer 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 T	3.00	Fall, Spring, Summer
MA108	Elements of Statistics T	3.00	Fall, Spring, Summer 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 T	3.00	Fall, Spring, Summer 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 T	3.00	Fall, Spring, Summer
MU101	Music Appreciation T	3.00	Fall, Spring, Summer
MU106	Music Theory I T	3.00	Fall
MU107	Music Theory II T	3.00	Spring Prereq: MU106 Music Theory I.
MU201	Music in the Elementary Classroom T	3.00	Fall
PE105	Personal and Community Health T	3.00	Fall, Spring, Summer
PE106	First Aid and CPR T	2.00	Fall, Spring
PE185	Exercise Physiology T	3.00	Spring
PL101	Introduction to Philosophy T	3.00	Fall, Spring, Summer
PL104	Ethics T	3.00	Fall, Spring, Summer
PS100	General Psychology T	3.00	Fall, Spring, Summer
PS102	Human Growth and Development $\mathbf{F}$	3.00	Fall, Spring, Summer Prereq: PS100 General Psychology.
PY102	Weather and Climate	3.00	Spring
PY103	Physical Geology T	3.00	Fall, Spring, Summer
PY104L	Physical Geology Lab T	1.00	Fall, Spring, Summer
PY110	Physical Science T	5.00	Fall, Spring
PY112	General Physics I T	5.00	Fall

PY113         General Physics II ™         500         Spring Prefere, PY112 Gen Physics I.           RE101         New Testament Literature ™         3.00         Spring           RE102         Old Testament Literature ™         3.00         Fall           RE104         Introduction to World Religions №         3.00         Spring           SH122         Vice and Diction ™         3.00         Fall, Spring, Summer           SH124         Vice and Diction ™         3.00         Fall, Spring, Summer           SM180         Baic Sports Medicine ™         3.00         Fall, Spring, Summer           SO100         Fundaments of Sociology ™         3.00         Fall, Spring, Summer           SO110         Marriage and Family №         3.00         Fall, Spring, Summer           SO101         Introduction to Women's Studies ™         3.00         Fall, Spring, Summer           SO111         Cultural Anthropology ▶         3.00         Fall, Spring         Summer           SO122         Introduction to Social Work ™         3.00         Fall         Spring         Summer           SO123         Social Problems ▶         3.00         Fall         Spring         Summer           SO141         Elementary Spanish I ™         5.00         Fall, Spring <th></th> <th> </th> <th></th> <th>Prereq: MA106 College Algebra or higher math.</th>				Prereq: MA106 College Algebra or higher math.
RE102       Old Testament Literature ▶       3.00       Fall         RE106       Introduction to World Religions ▶       3.00       Spring         SH122       Voice and Diction ▶       3.00       Fall         SH121       Voice and Diction ▶       3.00       Fall         SH120       Interpersonal Communication ▶       3.00       Fall       Spring         SH120       Enterpersonal Communication ▶       3.00       Fall       Spring         SM180       Basic Sports Medicine ▶       3.00       Fall, Spring, Summer         SO100       Fundamentals of Sociology ▶       3.00       Fall, Spring, Summer         SO101       Marriage and Family ▶       3.00       Fall, Spring, Summer         SO102       Introduction to Women's Studies ▶       3.00       Fall, Spring, Summer         SO111       Cultural Diversity ▶       3.00       Fall, Spring       Social Problems ₽         SO201       Social Problems ₽       3.00       Fall, Spring       Social Problems ₽         SP102       Elementary Spanish I ₽       5.00       Fall, Spring       Social Problems P         SP102       Elementary Spanish II ₽       5.00       Fall, Spring, Summer         SP102       Elementary Spanish II ₽       5.00	PY113	General Physics II T	5.00	Spring Prereq: PY112 Gen Physics I.
RE106     Introduction to World Religions μ     3.00     Spring       SH122     Voice and Diction μ     3.00     Fall       SH120     Interpersonal Communication μ     3.00     Fall, Spring, Summer       SM180     Basic Sports Medicine μ     3.00     Fall, Spring, Summer       SO100     Fundamentals of Sociology μ     3.00     Fall, Spring, Summer       SO101     Marriage and Family μ     3.00     Fall, Spring, Summer       SO110     Marriage and Family μ     3.00     Fall, Spring, Summer       SO111     Cutural Anthropology μ     3.00     Fall, Spring, Summer       SO112     Introduction to Women's Studies μ     3.00     Fall, Spring       SO111     Cutural Anthropology μ     3.00     Fall, Spring       SO122     Introduction to Social Work μ     3.00     Fall, Spring       SO121     Introduction to Social Work μ     3.00     Fall, Spring       SO201     Social Problems μ     3.00     Fall, Spring       SO112     Introduction to Social Work μ     3.00     Fall, Spring       SO122     Introduction to Social Work μ     3.00     Fall, Spring       SO201     Social Problems μ     5.00     Fall, Spring       SP102     Elementary Spanish II μ     5.00     Prereq: SP102 Spanish II.	RE101	New Testament Literature T	3.00	Spring
SH122       Voice and Diction T       3.00       Fall         SH120       Interpersonal Communication T       3.00       Fall, Spring, Summer         SM180       Basic Sports Medicine T       3.00       Fall, Spring, Summer         S0100       Fundamentals of Sociology T       3.00       Fall, Spring, Summer         S0101       Marriage and Family T       3.00       Fall, Spring, Summer         S0106       Introduction to Women's Studies T       3.00       Fall, Spring, Summer         S0111       Cultural Anthropology T       3.00       Fall, Spring       Summer         S0112       Cultural Nutroduction to Social Work T       3.00       Fall, Spring       Summer         S0121       Introduction to Social Work T       3.00       Fall, Spring, Summer         S0122       Introduction to Social Work T       3.00       Fall, Spring, Summer         S0122       Elementary Spanish T       5.00       Fall, Spring, Summer         S0122       Elementary Spanish T       5.00       Fall, Spring, Summer         S0122       Elementary Spanish I       5.00       Fall, Spring, Summer         S112       Elementary Spanish I       5.00       Preeq: SP102 Elementary Spanish I, or Departmental Consent, or SP103 Elementary Spanish II         S112	RE102	Old Testament Literature T	3.00	Fall
SH210     Interpersonal Communication γ     3.00     Fall, Spring, Summer       SM180     Basic Sports Medicine γ     3.00     Fall, Spring, Summer       S0100     Fundamentals of Sociology γ     3.00     Fall, Spring, Summer       S0101     Marriage and Family γ     3.00     Fall, Spring, Summer       S0106     Introduction to Women's Studies γ     3.00     Fall, Spring, Summer       S0111     Cultural Anthropology γ     3.00     Fall, Spring, Summer       S0122     Introduction to Social Work γ     3.00     Fall       S0122     Introduction to Social Work γ     3.00     Fall       S0121     Social Problems γ     3.00     Fall       S0122     Introduction to Social Work γ     3.00     Fall       S0123     Social Problems γ     3.00     Fall       S0104     Elementary Spanish I γ     S.00     Fall       S1125     Elementary Spanish II γ     S.00     Prereq: S010 Fundamentals of Sociology.       S1115     Theatre Appreciation γ     3.00     Fall, Spring, Summer       S1125     Elementary Spanish III γ     S.00     Prereq: S010 Fundamentals of Sociology.       S1115     Theatre Appreciation γ     3.00     Fall, Spring, Summer       S1115     Theatre Appreciation γ     3.00     Fall <tr< td=""><td>RE106</td><td>Introduction to World Religions T</td><td>3.00</td><td>Spring</td></tr<>	RE106	Introduction to World Religions T	3.00	Spring
SM180     Basic Sports Medicine ▶     3.00     Fall, Spring       S0100     Fundamentals of Sociology ▶     3.00     Fall, Spring, Summer       S0101     Marriage and Family ▶     3.00     Fall, Spring, Summer       S0106     Introduction to Women's Studies ▶     3.00     Fall, Spring, Summer       S0111     Cultural Anthropology ▶     3.00     Fall, Spring, Summer       S0112     Introduction to Social Work ▶     3.00     Fall, Spring, Summer       S0121     Introduction to Social Work ▶     3.00     Fall, Spring, Summer       S0122     Introduction to Social Work ▶     3.00     Fall, Spring, Summer       S0121     Social Problems ▶     5.00     Fall, Spring, Summer       S0122     Elementary Spanish I ▶     5.00     Fall, Spring, Summer       SP102     Elementary Spanish II ▶     5.00     Fall, Spring, Summer       SP102     Elementary Spanish II ▶     5.00     Fall, Spring, Summer       SP103     Elementary Spanish II ▶     5.00     Fall, Spring, Summer       SP104     Elementary Spanish II ▶     5.00     Fall, Spring, Summer       SP105     Elementary Spanish II ▶     5.00     Fall, Spring, Summer       Tht125     Theatre Appreciation ▶     3.00     Fall, Spring, Summer       Tht125     Course Title <td< td=""><td>SH122</td><td>Voice and Diction T</td><td>3.00</td><td>Fall</td></td<>	SH122	Voice and Diction T	3.00	Fall
S0100     Fundamentals of Sociology τ     3.00     Fall, Spring, Summer       S0101     Marriage and Family τ     3.00     Fall, Spring, Summer       S0106     Introduction to Women's Studies τ     3.00     Fall, Spring, Summer       S0111     Cultural Anthropology τ     3.00     Fall, Spring, Summer       S0122     Introduction to Social Work τ     3.00     Fall, Spring       S0121     Introduction to Social Work τ     3.00     Fall, Spring, Summer       S0201     Social Problems τ     3.00     Fall, Spring, Summer       S0201     Social Problems τ     3.00     Fall, Spring, Summer       S0102     Introduction to Social Work τ     3.00     Fall, Spring, Summer       S0103     Social Problems τ     3.00     Fall, Spring       S0104     Elementary Spanish I     5.00     Fall, Spring       SP105     Elementary Spanish II τ     5.00     Fall, Spring       SP104     Elementary Spanish II τ     3.00     Fall, Spring       S0105     Elementary Spanish II τ     3.00     Fall, Spring       S0104     Visce and Diction τ     3.00     Fall       S0105     Course Title     Credit Hours     Notes       CS106     Computer Engineering     4.00     Fall, Spring       CS200     Proble	SH210	Interpersonal Communication T	3.00	Fall, Spring, Summer
S0101       Marriage and Family μ       3.00       Fall, Spring, Summer         S0106       Introduction to Women's Studies μ       3.00       Fall, Summer         S0111       Cultural Anthropology μ       3.00       Fall, Spring, Summer         S0113       Cultural Diversity μ       3.00       Fall, Spring, Summer         S0122       Introduction to Social Work μ       3.00       Fall, Spring, Summer         S0201       Social Problems μ       3.00       Fall, Spring, Summer         S0102       Elementary Spanish I μ       5.00       Fall, Spring, Summer         SP101       Elementary Spanish I μ       5.00       Prereg: SP101 Elementary Spanish I, or Departmental Consent, or SP104 Spanish II.         SP102       Elementary Spanish III μ       5.00       Prereg: SP102 Spanish II.         SP103       Elementary Spanish III μ       5.00       Prereg: SP102 Spanish II.         SP104       Elementary Spanish III μ       5.00       Prereg: SP102 Spanish II.         TH122       Voice and Diction μ       3.00       Fall, Spring, Summer         TH122       Voice and Diction μ       3.00       Fall         Course ID       Course Title       Credit Hours       Notes         CS106       Computer Engineering       4.00       Fall, Sprin	SM180	Basic Sports Medicine T	3.00	Fall, Spring
S0106     Introduction to Women's Studies τ     3.00     Fall, Summer       S0111     Cultural Anthropology τ     3.00     Fall, Spring, Summer       S0112     Introduction to Social Work τ     3.00     Fall, Spring       S0121     Introduction to Social Work τ     3.00     Fall, Spring       S0201     Social Problems τ     3.00     Spring, Summer       S0201     Social Problems τ     3.00     Spring, Summer       SP102     Elementary Spanish I τ     5.00     Fall, Spring       SP103     Elementary Spanish II τ     5.00     Fall, Spring Elementary Spanish I, or Departmental Consent, or SP101 Elementary Spanish I, or Departmental Consent, or SP105 Spanish II.       SP105     Elementary Spanish II τ     5.00     Fall, Spring, Summer       SP105     Elementary Spanish II τ     3.00     Fall, Spring       SP105     Course Title     Credit Hours     Notes       Course ID     Course Title	SO100	Fundamentals of Sociology T	3.00	Fall, Spring, Summer
S0111       Cultural Anthropology μ       3.00       Fall, Spring, Summer         S0113       Cultural Diversity μ       3.00       Fall, Spring         S0122       Introduction to Social Work μ       3.00       Fall         S0201       Social Problems μ       3.00       Spring, Summer         S0201       Social Problems μ       3.00       Spring, Summer         S0201       Elementary Spanish Ι μ       5.00       Fall, Spring         SP102       Elementary Spanish II μ       5.00       Fall, Spring         SP105       Elementary Spanish III μ       5.00       Prereq: SP101 Elementary Spanish I, or Departmental Consent, or SP104 Spanish II.         TH115       Theatre Appreciation μ       3.00       Fall, Spring         TH12       Voice and Diction μ       3.00       Fall, Spring         Course ID       Course Title       Credit Hours       Notes         CS106       Computer Engineering       4.00       Fall, Spring       Social Basic Programming μ       3.00         CS203       Discrete Structures       3.00       Fall, Spring       Social Basic Programming       4.00         CS204       Discrete Structures and Algorithms       3.00       Fall, Spring Prerec; CS200 Problem Solving and Programming       4.00       Spring Prer	SO101	Marriage and Family T	3.00	Fall, Spring, Summer
S0113       Cultural Diversity τρ       3.00       Fall, Spring         S0122       Introduction to Social Work τρ       3.00       Fall         S0201       Social Problems τρ       3.00       Spring, Summer Prereq: S0100 Fundamentals of Sociology.         SP101       Elementary Spanish I τρ       5.00       Fall, Spring         SP102       Elementary Spanish II τρ       5.00       Fall, Spring         SP103       Elementary Spanish II τρ       5.00       Prereq: SP101 Elementary Spanish I, or Departmental Consent, or SP104 Spanish II.         SP105       Elementary Spanish II τρ       5.00       Prereq: SP102 Spanish II.         TH115       Theatre Appreciation τρ       3.00       Fall, Spring         TH122       Voice and Diction τρ       3.00       Fall         Ceredit Hours         Course Title       Credit Hours         Notes         CS106       Computer Engineering       4.00       Fall, Spring         CS200       Problem Solving and Programming τρ       4.00       Fall, Spring Prerec; MA106 College Algebra, or Departmental Consent, and CS111         CS203       Discrete Structures       3.00       Spring Prerec; CM20 College Algebra, or Departmental Consent, and CS111         CS204       Data Structures and Algorithms </td <td>SO106</td> <td>Introduction to Women's Studies T</td> <td>3.00</td> <td>Fall, Summer</td>	SO106	Introduction to Women's Studies T	3.00	Fall, Summer
S0122       Introduction to Social Work T       3.00       Fall         S0201       Social Problems T       3.00       Spring, Summer Prereq: S0100 Fundamentals of Sociology.         SP101       Elementary Spanish I T       5.00       Fall, Spring, Summer         SP102       Elementary Spanish I T       5.00       Fall, Spring Prereq: SP101 Elementary Spanish I, or Departmental Consent, or SP104 Spanish II.         SP105       Elementary Spanish II T       5.00       Prereq: SP102 Spanish II.         TH115       Theatre Appreciation T       3.00       Fall         TH122       Voice and Diction T       3.00       Fall         Course ID         Course Title       Credit Hours         Motes       Spring       Spring         Credit Hours         Notes         Course ID       Course Title       Credit Hours         Notes         Course ID       Course Title       Credit Hours         Notes         Course Title       Credit Hours         Notes         Spring         Course Title       Credit Hours         Notes	SO111	Cultural Anthropology T	3.00	Fall, Spring, Summer
SO201       Social Problems μ       3.00       Spring, Summer Prereq: SO100 Fundamentals of Sociology.         SP101       Elementary Spanish I μ       5.00       Fall, Spring, Prereq: SP101 Elementary Spanish I, or Departmental Consent, or SP104 Spanish II.         SP102       Elementary Spanish II μ       5.00       Fall, Spring, 	SO113	Cultural Diversity T	3.00	Fall, Spring
Sector       Sector Notations p       Sector       Prereq; S0100 Fundamentals of Sociology.         SP101       Elementary Spanish I Tr       5.00       Fall, Spring, Summer         SP102       Elementary Spanish II Tr       5.00       Fall, Spring, Summer         SP105       Elementary Spanish III Tr       5.00       Prereq; SP101 Elementary Spanish I, or Departmental Consent, or SP104 Spanish II.         TH115       Theatre Appreciation Tr       3.00       Fall, Spring, Summer         TH122       Voice and Diction Tr       3.00       Fall <b>Outset Title Credit</b> Hours         Hourse ID         Course ID         Course Title       Credit Hours <b>Credit Hours</b> Hourse Title         Notes         Course ID       Course Title       Additional Petrovers         Credit Hours         Sector Solution Tr         Solution Tr         Course ID       Course Title       Additional Petrovers         Credit Hours         Solution Tr         Solution Tr         Visual Basic Programming Tr       <	SO122	Introduction to Social Work T	3.00	Fall
SP102       Elementary Spanish II TP       5:00       Fall, Spring Prered: SP101 Elementary Spanish I, or Departmental Consent, or SP104 Spanish II.         SP105       Elementary Spanish III TP       5:00       Prered: SP102 Spanish II.         TH115       Theatre Appreciation TP       3:00       Fall, Spring, Summer         TH122       Voice and Diction TP       3:00       Fall         Additional Pathway Electives         Course ID       Course Title       Credit Hours         Credit Hours       Notes         Cs106       Computer Engineering       4:00         Fall, Spring       Summer       Summer         CS200       Problem Solving and Programming TP       3:00       Fall, Spring Prered: MA106 College Algebra, or Departmental Consent, and CS111         CS203       Discrete Structures       3:00       Fall, Spring Prered: MA106 College Algebra with a grade of C or higher.         CS204       Data Structures and Algorithms       3:00       Fall Prered: CS200 Problem Solving and Programming TP         MA206       Differential Equations TP       3:00       Fall Prered: MA113 with a grade of C or higher.	SO201	Social Problems T	3.00	Spring, Summer Prereq: SO100 Fundamentals of Sociology.
SP102       Elementary Spanish III Tr       5:00       Prereq: SP101 Elementary Spanish I, or Departmental Consent, or SP104 Spanish II.         SP105       Elementary Spanish III Tr       5:00       Prereq: SP102 Spanish II.         TH115       Theatre Appreciation Tr       3:00       Fall, Spring, Summer         TH122       Voice and Diction Tr       3:00       Fall         Course ID       Course Title       Credit Hours         Credit Hours         Spring         CS106       Computer Engineering       4:00       Fall, Spring         CS200       Problem Solving and Programming Tr       4:00       Fall, Spring         CS203       Discrete Structures       3:00       Spring         CS204       Data Structures and Algorithms       3:00       Fall         MA206       Differential Equations Tr       3:00       Fall         PY032       Expringe Physica II Tr       3:00       Fall         PY033       Differential Equations Tr       3:00       Spring	SP101	Elementary Spanish l T	5.00	Fall, Spring, Summer
TH115       Theatre Appreciation IP       3.00       Fall, Spring, Summer         TH122       Voice and Diction IP       3.00       Fall         Additional Pathway Electives         Course ID       Course Title       Credit Hours       Notes         CS106       Computer Engineering       4.00       Fall, Spring       Notes         CS111       Visual Basic Programming IP       3.00       Fall, Spring       CS200       Problem Solving and Programming IP       4.00       Fall, Spring         CS203       Discrete Structures       3.00       Spring       Spring         CS206       Data Structures and Algorithms       3.00       Fall       Spring         MA206       Differential Equations IP       5.00       Spring       Freeq: MA113 with a grade of C or higher.         M2009       Expring Environ IP       5.00       Spring       Freeq: CS200 Problem Solving and Programming.	SP102	Elementary Spanish II T	5.00	Fall, Spring Prereq: SP101 Elementary Spanish I, or Departmental Consent, or SP104 Spanish II.
TH122       Voice and Diction TP       3.00       Fall         Additional Pathway Electives         Course ID       Course Title       Credit Hours       Notes         C5106       Computer Engineering       4.00       Fall, Spring         C5111       Visual Basic Programming TP       3.00       Fall, Spring Prereq: MA106 College Algebra, or Departmental Consent, and CS111         C5200       Problem Solving and Programming TP       4.00       Fall, Spring Prereq: MA106 College Algebra, or Departmental Consent, and CS111         C5203       Discrete Structures       3.00       Spring Prereq: MA106 College Algebra with a grade of C or higher.         C5206       Data Structures and Algorithms       3.00       Fall, Spring Prereq: CS200 Problem Solving and Programming.         MA206       Differential Equations TP       3.00       Fall, Spring Prereq: MA113 with a grade of C or higher.         PV022       Expring Previous TP       3.00       Fall, Spring Prereq: MA113 with a grade of C or higher.	SP105	Elementary Spanish III T	5.00	Prereq: SP102 Spanish II.
Additional Pathway Electives         Course ID       Course Title       Credit Hours       Notes         CS106       Computer Engineering       4.00       Fall, Spring         CS111       Visual Basic Programming T       3.00       Fall, Spring, Summer         CS200       Problem Solving and Programming T       4.00       Fall, Spring Prereq: MA106 College Algebra, or Departmental Consent, and CS111 Visual Basic Programming.         CS203       Discrete Structures       3.00       Spring Prereq: MA106 College Algebra with a grade of C or higher.         CS206       Data Structures and Algorithms       3.00       Fall Prereq: CS200 Problem Solving and Programming.         MA206       Differential Equations T       3.00       Fall, Spring Prereq: MA113 with a grade of C or higher.	TH115	Theatre Appreciation <b></b>	3.00	Fall, Spring, Summer
Course IDCourse TitleCredit HoursNotesCS106Computer Engineering4.00Fall, SpringCS111Visual Basic Programming T3.00Fall, Spring, SummerCS200Problem Solving and Programming T4.00Fall, Spring Prereq: MA106 College Algebra, or Departmental Consent, and CS111CS203Discrete Structures3.00Spring Prereq: MA106 College Algebra with a grade of C or higher.CS206Data Structures and Algorithms3.00Fall Prereq: CS200 Problem Solving and Programming.MA206Differential Equations T3.00Fall Prereq: MA113 with a grade of C or higher.	TH122	Voice and Diction $\mathbf{T}$	3.00	Fall
Course IDCourse FittleHoursNotesCS106Computer Engineering4.00Fall, SpringCS111Visual Basic Programming T3.00Fall, Spring, SummerCS200Problem Solving and Programming T4.00Fall, Spring Prereq: MA106 College Algebra, or Departmental Consent, and CS111 Visual Basic Programming.CS203Discrete Structures3.00Spring Prereq: MA106 College Algebra with a grade of C or higher.CS206Data Structures and Algorithms3.00Fall Prereq: CS200 Problem Solving and Programming.MA206Differential Equations T3.00Fall, Spring Prereq: MA113 with a grade of C or higher.		Ad	ditional Pathv	vay Electives
CS111       Visual Basic Programming T       3.00       Fall, Spring, Summer         CS200       Problem Solving and Programming T       4.00       Fall, Spring Prereq: MA106 College Algebra, or Departmental Consent, and CS111 Visual Basic Programming.         CS203       Discrete Structures       3.00       Spring Prereq: MA106 College Algebra with a grade of C or higher.         CS206       Data Structures and Algorithms       3.00       Fall Prereq: CS200 Problem Solving and Programming.         MA206       Differential Equations T       3.00       Fall, Spring Prereq: MA113 with a grade of C or higher.         DV202       Engineering Physics III T       5.00       Spring	Course ID	Course Title		Notes
CS200       Problem Solving and Programming T       4.00       Fall, Spring Prereq: MA106 College Algebra, or Departmental Consent, and CS111 Visual Basic Programming.         CS203       Discrete Structures       3.00       Spring Prereq: MA106 College Algebra with a grade of C or higher.         CS206       Data Structures and Algorithms       3.00       Fall Prereq: CS200 Problem Solving and Programming.         MA206       Differential Equations T       3.00       Fall Prereq: MA113 with a grade of C or higher.	CS106	Computer Engineering	4.00	Fall, Spring
CS200       Problem Solving and Programming T       4.00       Prereq: MA106 College Algebra, or Departmental Consent, and CS111         CS203       Discrete Structures       3.00       Spring Prereq: MA106 College Algebra with a grade of C or higher.         CS206       Data Structures and Algorithms       3.00       Fall Prereq: CS200 Problem Solving and Programming.         MA206       Differential Equations T       3.00       Fall, Spring Prereq: MA113 with a grade of C or higher.         DV202       Engineering Physics III T       5.00       Spring	CS111	Visual Basic Programming T	3.00	Fall, Spring, Summer
CS205       Discrete Structures       Store       Prereq:       MA106 College Algebra with a grade of C or higher.         CS206       Data Structures and Algorithms       3.00       Fall Prereq: CS200 Problem Solving and Programming.         MA206       Differential Equations The structures and Algorithms       3.00       Fall, Spring Prereq: MA113 with a grade of C or higher.         DV202       Engineering Physics II The structures       5.00       Spring	CS200	Problem Solving and Programming T	4.00	Prereq: MA106 College Algebra, or Departmental Consent, and CS111
CS200     Data Structures and Agonthins     Stop       MA206     Differential Equations The     3.00       Fall, Spring Prereq: MA113 with a grade of C or higher.	CS203	Discrete Structures	3.00	Spring
Differential Equations F     Stop       Prereq: MA113 with a grade of C or higher.	CS206	Data Structures and Algorithms	3.00	Fall Prereq: CS200 Problem Solving and Programming.
PY202 Engineering Physics II T 5.00 Spring Prereq: PY201 Eng Phys I with grade of C or better.	MA206	Differential Equations T	3.00	Fall, Spring Prereq: MA113 with a grade of C or higher.
	PY202	Engineering Physics II T	5.00	Spring Prereq: PY201 Eng Phys I with grade of C or better.

## 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.