

## ASSOCIATE IN SCIENCE (AS) DEGREE



Name:	Advisor:	Date:
The Associate in Science degree is designed for students who plan to transfer to four-year colleges and universities. This degree fulfills general education requirements for majors in math, science, and engineering. The degree will transfer as a block to North Carolina public universities and other institutions which participate in the Comprehensive Articulation Agreement (CAA). For additional information about this degree and your transfer options, visit or call the Transfer Resource Center, Central High Room 100, (704) 330-6454.		

### 64 Credits (numbered 110 and above) required for degree

General Education Core Requirements (44 Credits)	Credits	Credits	Term
	Required	Completed	
<b>English Composition (6 Credits)</b>			
ENG 111	3		
ENG 112 or 113 or 114 (114 may not transfer to university)	3		
<b>Humanities and Fine Arts (9 Credits) must cover 3 different subject areas</b>			
COM 110 or 120 or 231	3		
Literature (ENG 231, 232, 241, 242, 251, 252)	3		
HUM/FA	3		
<b>Mathematical Studies (6 Credits)</b>			
MAT 171 or higher	3		
MAT or Quantitative	3		
<b>Natural Sciences (8 Credits) Two course sequence (BIO 111/112, CHM 151/152, PHY 151/152 or 251/252)</b>			
NS	4		
NS	4		
<b>Social and Behavioral (9 Credits) must cover 3 different subject areas (HIS plus ANT, ECO, GEO, POL, PSY, SOC)</b>			
HIS (111, 112, 131, 132)	3		
SB	3		
SB	3		
<b>Total</b>	<b>38</b>		

<b>Additional Mathematics &amp; Natural Sciences Core Requirements (6 Credits)</b>			
MAT/NS	3		
MAT/NS	3		
<b>Total</b>	<b>6</b>		

### Transfer Elective Requirements (20 Credits)

Electives should be selected based on your intended major. Consult the catalog of the four-year school where you plan to transfer for specific requirements. Electives must include 14 credits of math and science courses. Student must also complete one technology course: CIS 110, CIS 115, CSC 120, CSC 130, or CSC 134. The technology course can be applied either in mathematical studies above or in transfer electives below. The list of all transfer electives available at CPCC is in the AS section of the CPCC catalog.

Transfer Electives	Credits		Math / Natural Science Electives	Credits
Health/Physical Education:	<b>1</b>			
Technology or Transfer Elective:				
Transfer Elective:				
<b>Total Required</b>	<b>6</b>			
				<b>Total Required</b>
				<b>14</b>

## ASSOCIATE IN SCIENCE COURSE OPTIONS

### Humanities and Fine Arts

ART 111 Art Appreciation  
ART 114 Art History Survey I  
ART 115 Art History Survey II  
ART 116 Survey of American Art  
ART 117 Non-Western Art History  
COM 110 Introduction to Communication  
COM 120 Interpersonal Communication  
COM 231 Public Speaking  
DAN 110 Dance Appreciation  
DAN 211 Dance History I  
DAN 212 Dance History II  
DRA 111 Theatre Appreciation  
FRE 111 Elementary French I  
FRE 112 Elementary French II  
FRE 211 Intermediate French I  
FRE 212 Intermediate French II  
GER 111 Elementary German I  
GER 112 Elementary German II  
GER 211 Intermediate German I  
GER 212 Intermediate German II  
SPA 111 Elementary Spanish I  
SPA 112 Elementary Spanish II  
SPA 211 Intermediate Spanish I  
SPA 212 Intermediate Spanish II  
HUM 115 Critical Thinking  
HUM 130 Myth in Human Culture  
HUM 160 Introduction to Film  
HUM 211 Humanities I  
HUM 212 Humanities II  
HUM 220 Human Values and Meaning  
**ENG 231 American Literature I \***  
**ENG 232 American Literature II \***  
**ENG 241 British Literature I \***  
**ENG 242 British Literature II \***  
**ENG 251 Western World Literature I \***  
**ENG 252 Western World Literature II \***  
MUS 110 Music Appreciation  
MUS 112 Introduction to Jazz  
MUS 210 History of Rock Music  
MUS 213 Opera And Musical Theatre  
PHI 220 Western Philosophy I  
PHI 221 Western Philosophy II  
PHI 230 Introduction to Logic  
REL 110 World Religion  
REL 111 Eastern Religions  
REL 211 Introduction to Old Testament  
REL 212 Introduction to New Testament  
REL 221 Religion in America  
ASL 111 Elem American Sign Language 1  
ASL 112 Elem American Sign Language 2  
ASL 211 Intermediate Sign Language 1  
ASL 212 Intermediate Sign Language 2  
\* Meets Literature Requirement

### Mathematics

MAT 171 Pre-calculus Algebra  
MAT 172 Pre-calculus Trigonometry  
MAT 175 Pre-calculus  
MAT 263 Brief Calculus  
MAT 271 Calculus I  
MAT 272 Calculus II  
MAT 273 Calculus III

### Quantitative Options

CIS 110 Introduction to Computers  
CIS 115 Intro to Programming & Logic  
MAT 155 Statistical Analysis

### Natural Science Sequence

BIO 111 General Biology I &  
BIO 112 General Biology II  
CHM 151 General Chemistry I &  
CHM 152 General Chemistry II  
PHY 151 College Physics I &  
PHY 152 College Physics II  
PHY 251 General Physics I &  
PHY 252 General Physics II

### Social/Behavioral Sciences

ANT 210 General Anthropology  
ANT 220 Cultural Anthropology  
ANT 221 Comparative Cultures  
ECO 151 Survey of Economics  
ECO 251 Principles of Microeconomics  
ECO 252 Principles of Macroeconomics  
GEO 111 World Regional Geography  
HIS 111 World Civilizations I  
HIS 112 World Civilizations II  
HIS 131 American History I  
HIS 132 American History II  
POL 120 American Government  
POL 210 Comparative Government  
POL 220 International Relations  
PSY 150 General Psychology  
PSY 241 Developmental Psychology  
PSY 281 Abnormal Psychology  
SOC 210 Introduction to Sociology  
SOC 213 Sociology of the Family  
SOC 225 Social Diversity

### Math/Natural Science Core Courses

AST 111 Descriptive Astronomy  
AST 151 General Astronomy  
AST 152 General Astronomy II  
BIO 110 Principles of Biology  
BIO 111 General Biology I  
BIO 112 General Biology II  
BIO 120 Introductory Botany  
BIO 130 Introductory Zoology  
CHM 131 Introduction to Chemistry  
CHM 151 General Chemistry I  
CHM 152 General Chemistry II  
GEL 120 Physical Geology  
PHY 110 Conceptual Physics  
PHY 151 College Physics I  
PHY 152 College Physics II  
PHY 251 General Physics I  
PHY 252 General Physics II  
MAT 140 Survey of Math  
MAT 141 Mathematical Concepts  
MAT 161 College Algebra  
MAT 155 Statistical Analysis  
MAT 171 Pr Calc Algebra  
MAT 172 Pr Calc Trig  
MAT 175 Pre Calculus  
MAT 263 Brief Calculus  
MAT 271 Calculus I  
MAT 272 Calculus II  
MAT 273 Calculus III  
MAT 280 Linear Algebra  
MAT 285 Differential Equations  
CIS 110 Intro to Communications  
CIS 115 Intro to Programming and Logic

### Math/Natural Science Elective Courses

AST 111 Descriptive Astronomy  
BIO 112 General Biology II  
AST 251 Observational Astronomy  
BIO 110 Principles of Biology  
BIO 111 General Biology I  
BIO 112 General Biology II  
BIO 120 Introductory Botany  
BIO 130 Introductory Zoology  
BIO 143 Field Biology Minicourse  
BIO 145 Ecology  
BIO 155 Nutrition  
BIO 163 Basic Anatomy and Physiology  
BIO 168 Anatomy and Physiology I  
BIO 169 Anatomy and Physiology II  
BIO 175 General Microbiology  
BIO 235 Ornithology  
BIO 243 Marine Biology  
BIO 275 Microbiology  
CHM 115 Concepts in Chemistry  
CHM 130 General, Organic & Biochemistry  
CHM 131 Introduction to Chemistry  
CHM 132 Organic and Biochemistry  
CHM 151 General Chemistry I  
CHM 152 General Chemistry II  
CHM 251 Organic Chemistry I  
CHM 252 Organic Chemistry II  
EGR 150 Intro to Engineering  
EGR 210 Intro to Elect/Com Eng Lab  
EGR 211 Intro to Computer Org  
EGR 212 Logic System Design I  
ENG 213 Electric Circuits  
EGR 215 Network Theory I  
EGR 216 Logic and Networks Lab I  
EGR 218 Network Theory II  
EGR 219 Instru & Network Lab  
EGR 220 Engineering Statics  
EGR 225 Engineering Dynamics  
EGR 228 Intro to Solid Mechanics  
EGR 230 Engineering Materials  
GEO 131 Physical Geography I  
GEO 132 Physical Geography II  
GEL 113 Historical Geology  
GEL 120 Physical Geology  
GEL 220 Marine Geology  
PHS 110 Basic Physical Science  
PHS 140 Weather and Climate  
PHY 110 Conceptual Physics  
PHY 151 College Physics I  
PHY 152 College Physics II  
PHY 153 Modern Topics in Physics  
PHY 251 General Physics I  
PHY 252 General Physics II  
PHY 253 Modern Physics  
MAT 140 Survey of Math  
MAT 161 College Algebra  
MAT 167 Discrete Math  
MAT 171 Pr Calc Algebra  
MAT 172 Pr Calc Trig  
MAT 175 Pre Calculus  
MAT 263 Brief Calculus  
MAT 271 Calculus I  
MAT 272 Calculus II  
MAT 273 Calculus III  
MAT 280 Linear Algebra  
MAT 285 Differential Equations  
MAT 155 Statistical Analysis

### Health and Physical Education

HEA 110 Personal Health/Wellness  
HEA 112 First Aid and CPR  
PED Physical Education (any)