COMPUTER SCIENCE, ASSOCIATE IN ENGINEERING SCIENCE



College(s): DA, HW, TR, WR

Program Code: 0100

Sample Transfer Pathway

All plans can be modified to fit the needs of part-time students by adding more semesters.

Recommended electives may vary by transfer institution. Choose your courses with your College Advisor.

Institution-specific transfer guides and agreements can be found on CCC's transfer site (https://www.ccc.edu/services/Pages/Transfer-Guides.aspx).

Semester 1		Hours	
ENGLISH 101	Composition ¹	3	
MATH 207	Calculus & Analytic Geometry I ¹	5	
CHEM 201	General Chemistry I ¹	5	
Social and Behavioral Sciences course ^{1,2}			
	Hours	16	
Semester 2			
ENGLISH 102	Composition	3	
MATH 208	Calculus & Analytic Geometry II	5	
PHYSICS 235	Engineering Physics I: Mechanics & Wave Motion	5	
CHEM 203	General Chemistry II ³	4-5	
or BIOLOGY 115	or Human Biology		
	Hours	17-18	
Semester 3			
MATH 209	Calculus & Analytic Geometry III	5	
PHYSICS 236	Engineering Physics II: Electricity & Magnetism	5	
ENGR 190 or CIS 142	Computer Programming for Engineers or C++ Object Oriented Programming I	3	

Pathway Elective (p	p. 1) °	3
	Hours	16
Semester 4		
MATH 210	Differential Equations	3
Fine Arts or Humanities course ¹		3
CIS 242 or CIS 244	C++ Object Oriented Programming II ³ or Java Object Oriented Programming II	3
MATH 146	Discrete Mathematics ³	4
Pathway Elective (p. 1) ³		3
	Hours	16
	Total Hours	65-66

General Education course

Pathway Electives

Code	Title	Hours
BIOLOGY 115	Human Biology	4
CHEM 203	General Chemistry II	5
CIS 144	Java Object Oriented Programming I	3
CIS 242	C++ Object Oriented Programming II	3
CIS 244	Java Object Oriented Programming II	3
ENGR 111	Engineering Success Seminar	3
ENGR 215	Electrical Circuit Analysis	5
MATH 146	Discrete Mathematics	4
MATH 212	Linear Algebra	3
PHYSICS 215	Statics	3

² One course must satisfy the Human Diversity (HD) requirement

³ Pathway Elective (p. 1)