COMPUTER SCIENCE

Bachelor of Science Degree in DDEP-Computer Science

Credits: 122
CIP Code: 110701

Code	Title	Hours
Required Courses		
Select 57 credits [1]		57
Cognate Courses		
Select 18 credits [2]		18
Total Hours		**75**

[1] Includes transfer credits from partner institution. Please refer to Computer Science catalog entry for listing of major courses required.

[2] Please refer to Computer Science catalog entry for listing of cognate courses.

General Education Courses

Code	Title	Hours
Area A: Humanities/Fine Arts		
CHIS 211	History of the United States	3
or CHIS 212	History of the United States	
CPHI 105	Critical Thinking	3
or CREL 101/103	The Biblical Heritage	
Area B: Social/Behavioral Sciences		
CPSY 211	General Psychology	3
Area C: Natural Sciences/Mathematics/Statistics		
CMAT 111	Calculus I	4
CMAT 112	Calculus II	4
Area D: Communications		
CENG 105	College Composition I	3
CENG 106	College Composition II	3
CSTA 101	Fundamentals of Speech	3
Area E: Financial/Technological		
CCIS 253 & 253L	Intro. to Comp. Sim/Analysis and Intro. to Comp. Sim/Analy(Lab)	4
CECO 107	Introduction to Economics	3
Total Hours		**33**

Other University Requirements

Code	Title	Hours
CGED 100	First Year Seminar	1
CGED 101	1st-Year Seminar	1
Total Hours		**2**

Free Electives: 12 (includes transfer credits from partner institution)

Note: Free Electives should be chosen in consultation with the advisor, depending on the choice of minor or stackable credentials.

Dual Degree Engineering Program Plan of Study for Bachelor of Science Degree in DDEP-Computer Science

Course	Title	Hours
First Year		
First Semester		
CEGR 101 & 101L	Introduction to Engineering and Intro to Engineering Lab	3
CMAT 111	Calculus I	4
CENG 105	College Composition I (Area D)	3
CGED 100	First Year Seminar	1
CCIS 105 & 105L	Programming Principles I and Programming Principles I Lab	4
CCIS 101	Introduction to Computers	3
	Hours	**18**
Second Semester		
CENG 106	College Composition II	3
CGED 101	1st-Year Seminar	1
CMAT 112	Calculus II	4
CCIS 106	Programming Principles II	3
CCIS 106L	Programming Principles II Lab	1
CEGR 110 & 110L	Engineering Graphics and Engineering Graphics Lab	3
CCIS 121	Introduction to Computer Sys	3
	Hours	**18**
Second Year		
First Semester		
CMAT 211	Calculus III	4
CCHE 111 & 111L	Gen Chem 1 & Recitation and General Chemistry Lab	4
CPHY 121 & 121L	Physics I: Mechanics and Physics I: Mechanics Lab	4
CCIS 223	Data Structures	3
CCIS 223L	Data Structures Lab	1
	Hours	**16**
Second Semester		
CEGR 211	Engineering Statics	3
CMAT 212	Differential Equations	3
CMAT 214	Linear Algebra	3
CPHY 122 & 122L	Physics II: Elec & Magnetism and Physics II:Electricity&Mag.Lab	4
CCIS 227	Discrete Structures	3
	Hours	**16**
Third Year		
First Semester		
CPHI 262	Sci, Tech, & Human Values	3
CCIS 301	Advanced Programming	3
CCIS 321	Software Engineering	3
CCIS 374	Database Systems	3
CHIS 211	History of the United States	3
CPSY 211	General Psychology	3
	Hours	**18**

Second Semester

CMAT 321	Mathematical Prob & Stat I	3
CECO 107	Introduction to Economics	3
CCIS 329	Rich Internet Applications	3
Select one of the following:		3
CPHI 105	Critical Thinking	
CREL 101	The Biblical Heritage	
CREL 103	Afr Amer Religious Experiences	
CMAT 321	Mathematical Prob & Stat I	3
CSTA 101	Fundamentals of Speech	3
Departmental Service		0
	Hours	**18**

Fourth Year

First Semester

Courses to be Completed at Partner Institution 4th & 5th Year		
Additional hours needed to satisfy degree requirements can be taken (or transfer equivalent) at and transferred from partner institution beyond Junior Year		
ENGR XXX	Engineering Course	3
ENGR XXX	Engineering Course	3
ENGR XXX	Engineering Course	3
CCIS 371	Computer Algorithms (or transfer equivalent)	3
CCIS 372	Computer Architecture (or transfer equivalent)	3
	Hours	**15**

Second Semester

ENGR XXX	Engineering Course	3
ENGR XXX	Engineering Course	3
ENGR XXX	Engineering Course	3
ENGR XXX	Engineering Course	3
CCIS 375	Intro to Artificial Intel (or transfer equivalent)	3
	Hours	**15**

Fifth Year

First Semester

ENGR XXX	Engineering Course	3
ENGR XXX	Engineering Course	3
ENGR XXX	Engineering Course	3
CCIS 476	Programming Langs. & Compilers (or transfer equivalent)	3
CCIS 431	Cybersecurity I (or transfer equivalent)	3
	Hours	**15**

Second Semester

ENGR XXX	Engineering Course	3
ENGR XXX	Engineering Course	3
ENGR XXX	Engineering Course	3
CCIS 473	Intro to Operating Systems (or transfer equivalent)	3
CCIS 493	Senior Design Project (or transfer equivalent)	3
	Hours	**15**
	Total Hours	**164**