BACHELOR of SCIENCE in COMPUTER SCIENCE – SYSTEMS/SCIENTIFIC APPLICATIONS CONCENTRATION (#629) School of Engineering and Applied Sciences Ogden College of Science and Engineering Western Kentucky University
The suggested program of study shown below should be used in consultation with your advisor(s). Every student will finish with a unique plan of his/her own depending on the electives selected. To be admitted to the computer science major, students must complete CS 180, CS 290, and CS 331 with grades of C or better. In addition, all CS courses counting toward the CS program major must be completed with a grade of "C" or better. Computer Science electives may include from 0-3 hours of 200-level courses. Students must adhere to all University Policies as indicated in the WKU catalog section "Academic Information."

SAMPLE – Finish in Four Plan

FIRST YEAR			
Fall Semester		**Spring Semester**	
CS180: Computer Science 1	4	CS290: Computer Science II	4
World History (F-SB)	3	MATH136: Calculus I (F-QR)	4
ENG100: Freshman English (F-W1)	3	COMM 145: Public Speaking (F-OC)	3
World Language (if needed) or general elective	3	Arts & Humanities Elective (E-AH)	3
Free Elective	3		
TOTAL CREDIT HOURS	**16**	**TOTAL CREDIT HOURS**	**14**

SECOND YEAR			
Fall Semester		**Spring Semester**	
CS 331: Data Structures	3	CS351: Intro to Database Systems	3
STAT301: Prob/Applied Stats	3	CS 339: Discrete Structures	3
Literary Studies (F-AH)	3	CS325: Computer Organization and Architecture	3
Natural and Physical Science & Lab (E-NS, LS)	4	ENG307: Technical Writing	3
		Natural and Physical Science & Lab (E-NS)	4
TOTAL CREDIT HOURS	**13**	**TOTAL CREDIT HOURS**	**16**

THIRD YEAR				
Fall Semester		**Spring Semester**		
Math Elective	3	CS382: Programming Languages	3
CS396: Intermediate Software Project	3	General Elective	3
CS 360: Software Engineering	3	CS elective (CS 372 or CS 381 or CS 446)	3
CS elective (CS 443, CS 450, or CS 456)	3	Math Elective	3
ENG300: Writing in the Disciplines (F-W2)	3	Social & Behavioral Sciences (E-SB)	3
TOTAL CREDIT HOURS	**16**	**TOTAL CREDIT HOURS**	**15**

FOURTH YEAR				
Fall Semester		**Spring Semester**		
CS425: Operating Systems I	3	CS496: CS Project and Professional Practice	3
General Elective	3	CS elective (CS 445 or CS 446)	3
Connections Systems (K-SY)	3	General Elective	3
CS421: Data Structures and Algorithm Analysis	3	Connections Local to Global (K-LG)	3
CS Elective (CS 443 or CS 456)	3	Connections Social & Cultural (K-SC)	3
TOTAL CREDIT HOURS	**15**	**TOTAL CREDIT HOURS**	**15**

Total Credit Hours: 120

For more details and courses offered in the Colonnade General Education program visit the website.

World Language Requirement: Language Proficiency of novice-high before completing 60 credit hours is required (or completion of 2nd level of a language). Two credits (or equivalent) of a single world language in High School satisfies this WKU requirement.

For more Information: **School of Engineering & Applied Sciences**

Website: www.wku.edu/seas

Phone: 270-745-3251

Email: seas@wku.edu

Course Descriptions: http://www.wku.edu/undergraduatecatalog/