



**BACHELOR of SCIENCE in COMPUTER SCIENCE – SYSTEMS/SCIENTIFIC APPLICATIONS CONCENTRATION (#629)**  
 Department of Physics and Astronomy  
 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. Admission to the major is required to register for all 300 and 400 nursing classes. All upper-division nursing courses must be taken in sequence to meet NURS course prerequisite requirements.

**SAMPLE – Finish in Four Plan**

FIRST YEAR			
Fall Semester		Spring Semester	
CS180: Computer Science 1	4	CS221: 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		
<b>TOTAL CREDIT HOURS</b>	<b>16</b>	<b>TOTAL CREDIT HOURS</b>	<b>14</b>

SECOND YEAR			
Fall Semester		Spring Semester	
CS 360: Software Engineering	3	CS351: Intro to Database Systems	3
CS 339: Computer Science III	3	Math Elective	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	4
<b>TOTAL CREDIT HOURS</b>	<b>13</b>	<b>TOTAL CREDIT HOURS</b>	<b>16</b>

THIRD YEAR			
Fall Semester		Spring Semester	
STAT301: Prob/Applied Stats	3	CS382: Programming Languages	3
CS396: Intermediate Software Project	3	Natural and Physical Science (E-NS)	3
CS Elective (CS 443 or CS 456)	3	CS elective (CS 381 or CS 446)	3
Math Elective	3	General Elective	3
ENG300: Writing in the Disciplines (F-W2)	3	Social & Behavioral Sciences (E-SB)	3
<b>TOTAL CREDIT HOURS</b>	<b>16</b>	<b>TOTAL CREDIT HOURS</b>	<b>15</b>

FOURTH YEAR			
Fall Semester		Spring Semester	
CS425: Operating Systems I	3	CS496: CS Project and Professional Practice	3
CS elective (CS 443, CS 450, or CS 456)	3	CS elective (CS 445 or CS 446)	3
Connections Systems (K-SY)	3	Math/Science Elective	3
CS421: Data Structures and Algorithm Analysis	3	Connections Local to Global (K-LG)	3
General Elective	3	Connections Social & Cultural (K-SC)	3
<b>TOTAL CREDIT HOURS</b>	<b>15</b>	<b>TOTAL CREDIT HOURS</b>	<b>15</b>

**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](http://www.wku.edu/seas)

**Phone:** 270-745-3251

**Email:** [seas@wku.edu](mailto:seas@wku.edu)

**Course Descriptions:** <http://www.wku.edu/undergraduatecatalog/>