



**BACHELOR of SCIENCE in COMPUTER SCIENCE – SPECIALTY  
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         |
| Natural and Physical Science (E-NS) | 3         | MATH136: Calculus I (F-QR)                    | 4         |
| ENG100: Freshman English (F-W1)     | 3         | COMM 145: Public Speaking (F-OC)              | 3         |
| Social & Behavioral Sciences (E-SB) | 3         | Natural and Physical Science & Lab (E-NS, LS) | 4         |
| Free Elective                       | 2         |   |           |
| <b>TOTAL CREDIT HOURS</b>           | <b>15</b> | <b>TOTAL CREDIT HOURS</b>                     | <b>15</b> |

| SECOND YEAR                  |           |   |           |
|------------------------------|-----------|---|-----------|
| Fall Semester                |           | Spring Semester                               |           |
| CS Specialty (1)             | 3         | CS351: Intro to Database Systems              | 3         |
| CS 339: Computer Science III | 3         | STAT301: Prob/Applied Stats                   | 3         |
| Literary Studies (F-AH)      | 3         | CS325: Computer Organization and Architecture | 3         |
| CS 2xx Elective              | 3         | ENG307: Technical Writing                     | 3         |
| World History (F-SB)         | 3         | CS Specialty (2)                              | 3         |
| <b>TOTAL CREDIT HOURS</b>    | <b>15</b> | <b>TOTAL CREDIT HOURS</b>                     | <b>15</b> |

| THIRD YEAR                                |           |  |           |
|---|-----------|--|-----------|
| Fall Semester                             |           | Spring Semester                                |           |
| ENG300: Writing in the Disciplines (F-W2) | 3         | CS382: Programming Languages                   | 3         |
| CS396: Intermediate Software Project      | 3         | CS 381: Introduction to Computer Networks      | 3         |
| CS Specialty (3)                          | 3         | World Language (if needed) or general elective | 3         |
| CS 3xx Elective                           | 3         | Connections Social & Cultural (K-SC)           | 3         |
| CS 360: Software Engineering              | 3         | Arts & Humanities Elective (E-AH)              | 3         |
| <b>TOTAL CREDIT HOURS</b>                 | <b>15</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 443: Database Management Systems II        | 3         | CS 4xx Elective                             | 3         |
| Connections Systems (K-SY)                    | 3         | Specialty 3xx (5)                           | 3         |
| CS421: Data Structures and Algorithm Analysis | 3         | Connections Local to Global (K-LG)          | 3         |
| Specialty 3xx (4)                             | 3         | Specialty 3xx (6)                           | 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/>