



Computer Science Systems/Scientific Option
 Ogden College of Science and Engineering
 Western Kentucky University

Four-Year Academic Degree Path

Success Markers

| FIRST YEAR | FALL SEMESTER | | SPRING SEMESTER | |
|--|---------------------------|--|----------------------------|---|
| | CS 180 Computer Science I | 4 | CS 181 Computer Science II | 4 |
| HIST 101 World History I OR HIST 102 World History II (F-SB) | 3 | MATH 136 Calculus I | 4 | |
| PHIL 215 Colonnade Foundations (F-QR) | 3 | COMM 145 Fund of Public Speaking & Communications (F-OC) | 3 | |
| ENG 100 Intro to College Writing (F-W1) | 3 | Social & Behavioral Studies (E-SB) | 3 | |
| Free Elective | 1 | | | |
| | | | | |
| TOTAL CREDIT HOURS | 14 | TOTAL CREDIT HOURS | 14 | |

| SECOND YEAR | FALL SEMESTER | | SPRING SEMESTER | |
|---|-----------------------------|--|-----------------|---|
| | CS 360 Software Engineering | 3 | CS 251 | 3 |
| CS 280 Computer Science III | 3 | STAT 301 | 3 | |
| CS Elective ¹ | 3 | CS 325 Computer Organization & Architecture | 3 | |
| Natural and Physical Science & Lab ³ (E-NS, LS) | 4 | Natural and Physical Science & Lab ³ | 4 | |
| World Language, if needed, or General Elective | 3 | ENG 307 Technical Writing | 3 | |
| TOTAL CREDIT HOURS | 16 | TOTAL CREDIT HOURS | 16 | |

World Language Proficiency: All students entering in Fall 2014 or later must demonstrate proficiency in a world language at the Novice High level before completing 60 credit hours. Novice high is the ability to communicate in writing and speaking on familiar topics in simple sentences. To meet this requirement, students may take college language courses or take a proficiency test. For more information go to www.wku.edu/modernlanguages/placement/.

| THIRD YEAR | FALL SEMESTER | | SPRING SEMESTER | |
|--------------------------------------|--------------------------|--|---|---|
| | Arts & Humanities (E-AH) | 3 | Natural & Physical Science ⁴ (E-NS) | 3 |
| CS 396 Intermediate Software Project | 3 | Math Elective ² | 3 | |
| Math Elective ² | 3 | CS 382 | 3 | |
| CS Elective ¹ | 3 | ENG 200 Intro to Literature (F-AH) | 3 | |
| General Elective | 3 | Connections – Social & Cultural (F-SC) | 3 | |
| | | | | |
| TOTAL CREDIT HOURS | 15 | TOTAL CREDIT HOURS | 15 | |

| FOURTH YEAR | FALL SEMESTER | | SPRING SEMESTER | |
|---|--------------------------|---|--------------------------|---|
| | CS Elective ¹ | 3 | CS Elective ¹ | 3 |
| CS 425 Operating Systems I | 3 | Math/Science Elective ⁴ | 3 | |
| CS 380 Data Structures and Algorithm Analysis | 3 | ENG 300 Writing in the Disciplines (F-W2) | 3 | |
| Connections - Systems (K-SY) | 3 | CS 496 Senior Project & Professional Practice | 3 | |
| General Elective | 3 | Connections – Local to Global (K-LG) | 3 | |
| TOTAL CREDIT HOURS | 15 | TOTAL CREDIT HOURS | 15 | |

Total Credit Hours: 120

All CS courses must be completed with a grade of 'C' or better

1 – CS electives chosen from CS 370, 381, 443, 445, 446, 450, and 456

2 – Math electives chosen from MATH 127, 137, 305, 307, 331, 405, 406, 470, and 473

3 – Lab Science will satisfy Colonnade NS & SL, must be a 2 semester sequence designed for science or engineering majors

4 – Math/Science elective may be Math chosen from list in (2) above, or additional science class for science or engineering majors.

PLEASE NOTE: Prerequisites, Course Numbers, and Course Titles are subject to change.

Consult your advisor each semester.

Course Descriptions may be viewed at <http://www.wku.edu/catalog>

FOR ADDITIONAL INFORMATION, PLEASE CONTACT:

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| Department: | Computer Science |
| Phone: | 270-745-4642 |
| Website: | http://www.wku.edu/cs |
| Email: | cs@wku.edu |