

Curriculum Report: Computer Science

Overview

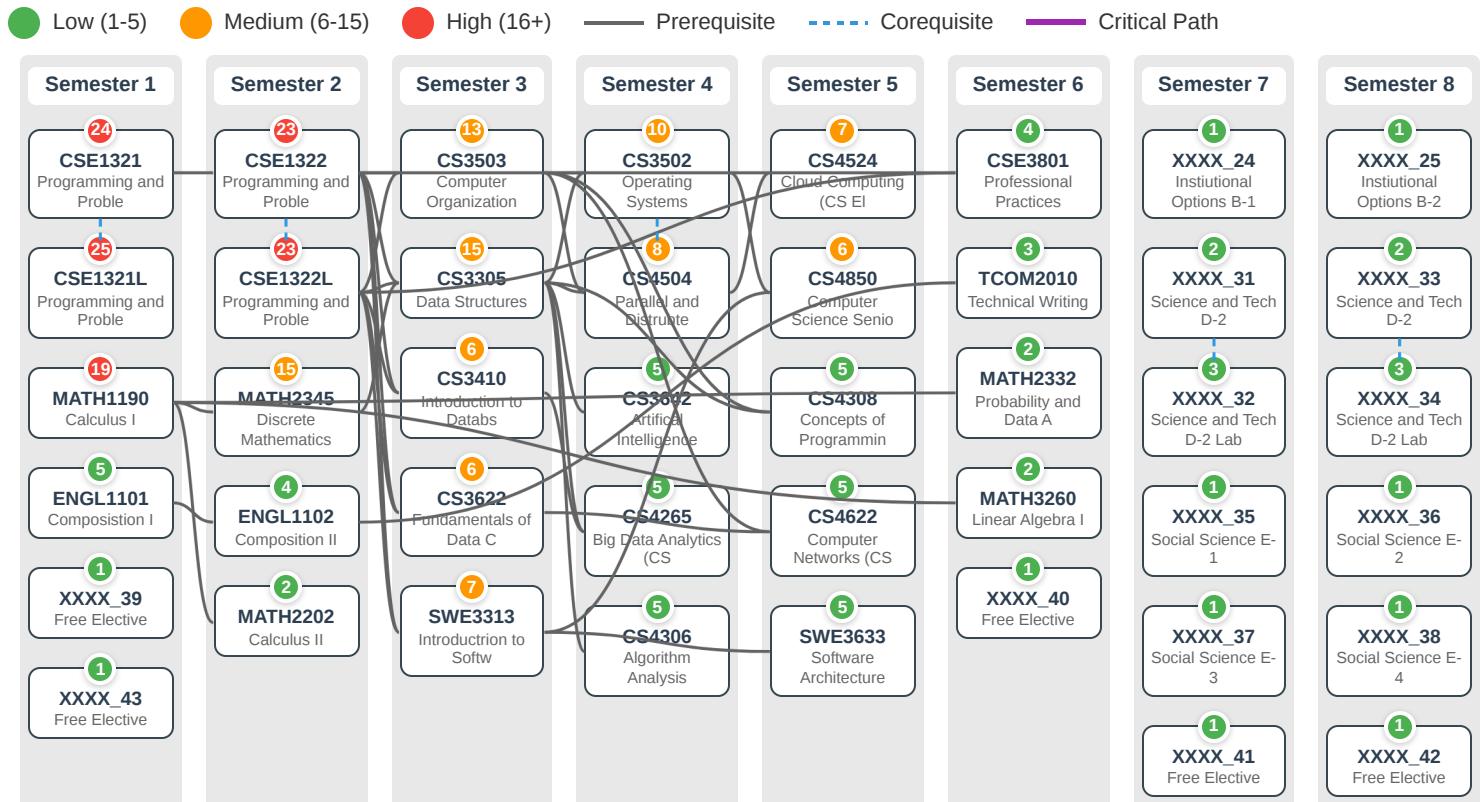
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|---|--------------------------------------|----------------------------|-------------------|
| INSTITUTION Kennesaw State University | DEGREE BS Computer Science | SYSTEM semster | YEARS 4 |
| CIP CODE 11.07 | TOTAL CREDITS 120.0 | TOTAL COURSES 43 | |

Complexity Metrics

| | | |
|--------------------------------|--------------------------------------|---|
| TOTAL COMPLEXITY 280 | LONGEST DELAY 7 CSE1321 | HIGHEST CENTRALITY 167 CSE1322 |
|--------------------------------|--------------------------------------|---|

Critical Path: (CSE1321+CSE1321L) → (CSE1322+CSE1322L) → CS3503 → (CS4504+CS3502) → CS4524

Curriculum Graph



Term Schedule

| Term | Courses | Credits |
|------|--|---------|
| 1 | CSE1321 Programming and Problem Solving I CSE1321L Programming and Problem Solving I Lab MATH1190 Calculus I ENGL1101 Composition I XXXX_39 Free Elective XXXX_43 Free Elective | 16.0 |
| 2 | CSE1322 Programming and Problem Solving II CSE1322L Programming and Problem Solving II Lab MATH2345 Discrete Mathematics ENGL1102 Composition II MATH2202 Calculus II | 14.0 |
| 3 | CS3503 Computer Organization and Architecture CS3305 Data Structures CS3410 Introduction to Database Systems CS3622 Fundamentals of Data Communication SWE3313 Introduction to Software Engineering | 15.0 |
| 4 | CS3502 Operating Systems CS4504 Parallel and Distributed Computing CS3642 Artificial Intelligence (CS Elective) CS4265 Big Data Analytics (CS Elective) CS4306 Algorithm Analysis | 15.0 |
| 5 | CS4524 Cloud Computing (CS Elective) CS4850 Computer Science Senior Project CS4308 Concepts of Programming Languages CS4622 Computer Networks (CS Elective) SWE3633 Software Architecture and Design (CS Elective) | 15.0 |
| 6 | CSE3801 Professional Practices and Ethics TCOM2010 Technical Writing MATH2332 Probability and Data Analysis MATH3260 Linear Algebra I XXXX_40 Free Elective | 14.0 |
| 7 | XXXX_24 Institutional Options B-1 XXXX_31 Science and Tech D-2 XXXX_32 Science and Tech D-2 Lab XXXX_35 Social Science E-1 XXXX_37 Social Science E-3 XXXX_41 Free Elective | 15.0 |
| 8 | XXXX_25 Institutional Options B-2 XXXX_33 Science and Tech D-2 XXXX_34 Science and Tech D-2 Lab XXXX_36 Social Science E-2 | 16.0 |

| Term | Courses | Credits |
|------|----------------------------|---------|
| | XXXX_38 Social Science E-4 | |
| | XXXX_42 Free Elective | |

Course Metrics

| Course | Name | Cr | Cpix | Blk | Dly | Ctr |
|----------|--|-----|------|-----|-----|-----|
| CSE1321L | Programming and Problem Solving I Lab | 1.0 | 25 | 18 | 7 | 0 |
| CSE1321 | Programming and Problem Solving I | 3.0 | 24 | 17 | 7 | 92 |
| CSE1322 | Programming and Problem Solving II | 3.0 | 23 | 16 | 7 | 167 |
| CSE1322L | Programming and Problem Solving II Lab | 1.0 | 23 | 17 | 6 | 0 |
| MATH1190 | Calculus I | 4.0 | 19 | 13 | 6 | 0 |
| MATH2345 | Discrete Mathematics | 3.0 | 15 | 9 | 6 | 32 |
| CS3305 | Data Structures | 3.0 | 15 | 8 | 7 | 128 |
| CS3503 | Computer Organization and Architecture | 3.0 | 13 | 6 | 7 | 72 |
| CS3502 | Operating Systems | 3.0 | 10 | 3 | 7 | 77 |
| CS4504 | Parallel and Distributed Computing | 3.0 | 8 | 1 | 7 | 77 |
| SWE3313 | Introduction to Software Engineering | 3.0 | 7 | 2 | 5 | 24 |
| CS4524 | Cloud Computing (CS Elective) | 3.0 | 7 | 0 | 7 | 0 |
| CS3410 | Introduction to Database Systems | 3.0 | 6 | 1 | 5 | 12 |
| CS3622 | Fundamentals of Data Communication | 3.0 | 6 | 1 | 5 | 12 |
| CS4850 | Computer Science Senior Project | 3.0 | 6 | 0 | 6 | 0 |
| ENGL1101 | Composition I | 3.0 | 5 | 2 | 3 | 0 |
| CS4306 | Algorithm Analysis | 3.0 | 5 | 0 | 5 | 0 |
| CS4308 | Concepts of Programming Languages | 3.0 | 5 | 0 | 5 | 0 |
| CS4265 | Big Data Analytics (CS Elective) | 3.0 | 5 | 0 | 5 | 0 |
| CS4622 | Computer Networks (CS Elective) | 3.0 | 5 | 0 | 5 | 0 |
| CS3642 | Artificial Intelligence (CS Elective) | 3.0 | 5 | 0 | 5 | 0 |
| SWE3633 | Software Architecture and Design (CS Elective) | 3.0 | 5 | 0 | 5 | 0 |
| ENGL1102 | Composition II | 3.0 | 4 | 1 | 3 | 3 |
| CSE3801 | Professional Practices and Ethics | 2.0 | 4 | 0 | 4 | 0 |
| TCOM2010 | Technical Writing | 3.0 | 3 | 0 | 3 | 0 |
| XXXX_32 | Science and Tech D-2 Lab | 1.0 | 3 | 1 | 2 | 0 |
| XXXX_34 | Science and Tech D-2 Lab | 1.0 | 3 | 1 | 2 | 0 |
| MATH2202 | Calculus II | 4.0 | 2 | 0 | 2 | 0 |
| MATH2332 | Probability and Data Analysis | 3.0 | 2 | 0 | 2 | 0 |
| MATH3260 | Linear Algebra I | 3.0 | 2 | 0 | 2 | 0 |
| XXXX_31 | Science and Tech D-2 | 3.0 | 2 | 0 | 2 | 0 |
| XXXX_33 | Science and Tech D-2 | 3.0 | 2 | 0 | 2 | 0 |
| XXXX_24 | Institutional Options B-1 | 2.0 | 1 | 0 | 1 | 0 |

| Course | Name | Cr | Cplx | Blk | Dly | Ctr |
|---------|---------------------------|-----|------|-----|-----|-----|
| XXXX_25 | Institutional Options B-2 | 3.0 | 1 | 0 | 1 | 0 |
| XXXX_35 | Social Science E-1 | 3.0 | 1 | 0 | 1 | 0 |
| XXXX_36 | Social Science E-2 | 3.0 | 1 | 0 | 1 | 0 |
| XXXX_37 | Social Science E-3 | 3.0 | 1 | 0 | 1 | 0 |
| XXXX_38 | Social Science E-4 | 3.0 | 1 | 0 | 1 | 0 |
| XXXX_39 | Free Elective | 3.0 | 1 | 0 | 1 | 0 |
| XXXX_40 | Free Elective | 3.0 | 1 | 0 | 1 | 0 |
| XXXX_41 | Free Elective | 3.0 | 1 | 0 | 1 | 0 |
| XXXX_42 | Free Elective | 3.0 | 1 | 0 | 1 | 0 |
| XXXX_43 | Free Elective | 2.0 | 1 | 0 | 1 | 0 |

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