



Undergraduate Program Name: Bachelor of Science in Software Engineering

Graduate Program Name: Master of Science in Computer Science

KENNESAW STATE UNIVERSITY

Course Pairs: Pick **ONE (1)** course from this table.

| Double Owl Scholars will NOT take <u>one</u> of the following Undergrad required courses: | In their place, they will take the paired course below from the Master's in SWE: |
|---|--|
| CS 3502 | CS 6025 |
| CSE 3153 | CS 6070 |

Course Pairs: Take **BOTH** required courses in this table.

| Double Owl Scholars will replace the following Undergrad course: | In their place, they will take the paired course below from the Master's in SWE: |
|--|--|
| Upper Division Elective I | CS 6045 |
| Upper Division Elective II | CS 6041 |

| Year 1 - Fall (credits) | Credits | Year 1 - Spring (credits) | Credits |
|---|-----------|---|-----------|
| ENGL 1101 | 3 | ENGL 1102 | 3 |
| ECON 1000 | 2 | CHEM 1211/L OR PHYS 2211/L OR BIOL 1107/L | 4 |
| MATH 1119 | 4 | CSE 1322/L | 4 |
| CSE 1321/L | 4 | MATH 2202 | 4 |
| ART/DANC/MUSI/TPS 1107 | 3 | | |
| TOTAL SEMESTER CREDITS | 16 | TOTAL SEMESTER CREDITS | 15 |
| Year 2 - Fall (credits) | Credits | Year 2 - Spring (credits) | Credits |
| SWE 3313 | 3 | CS 3503 | 3 |
| ONE FROM B2 | 3 | CS 3305 | 3 |
| CSE 2300 OR MATH 2345 | 3 | MATH 2332 | 3 |
| CHEM 1212/L OR PHYS 2212/L OR BIOL 1108/L | 4 | HIST 2111/2 | 3 |
| POLS 1101 | 3 | ENGL 2000-LEVEL | 3 |
| TOTAL SEMESTER CREDITS | 16 | TOTAL SEMESTER CREDITS | 15 |
| Year 3 - Fall (credits) | Credits | Year 3 - Spring (credits) | Credits |
| SWE 3623 | 3 | SWE 3643 | 3 |
| SWE 4324 | 3 | Replace CS 3502 with CS 6025* | 3 |
| Replace CSE 3153 with CS 6070* | 3 | SWE 3633 | 3 |
| MATH/ SCIENCE/L 1 | 4 | CSE 3801 | 2 |
| | | MATH/SCIENCE/L 2 | 4 |
| TOTAL SEMESTER CREDITS | 12 | TOTAL SEMESTER CREDITS | 15 |
| Year 4 - Fall (credits) | Credits | Year 4 - Spring (credits) | Credits |
| Replace SWE Elective I with CS 6045 | 3 | SWE 4724 | 4 |
| SWE 4713 | 3 | Replace SWE Elective II with CS 6041 | 3 |
| SWE 4663 | 3 | HIST 1100/1111/1112 | 3 |
| One from E4 | 3 | Free electives | 5 |
| TCOM 2010 | 3 | | |

| TOTAL SEMESTER CREDITS | 15 | TOTAL SEMESTER CREDITS | 15 |
|--|----------------|--|----------------|
| Year 5 - Fall (credits) | Credits | Year 5 - Spring (credits) | Credits |
| MS CS Elective I CS 7267 Machine Learning (AI) CS 7050 Data Warehousing and Mining (DS) CS 7530 Advanced Cryptography (CNS) | 3 | MS CS Elective III CS 7347 Natural Language Processing (AI) CS 7253 Graph Algorithms (DS) CS 7545 AI for Security and Privacy (CNS) | 3 |
| MS CS Elective II CS 7375 Artificial Intelligence (AI) CS 7265 Big Data Analytics (DS) CS 7535 Software and OS security (CNS) | 3 | MS CS Elective IV CS 7367 Machine Vision (AI) CS 7172 Parallel and Distributed Computing (DS) CS 7540 Network Security (CNS) | 3 |
| CS 7998:Research in Computer Science | 3 | CS 7999:Thesis | 3 |
| CS 7999:Thesis | 3 | | |
| TOTAL SEMESTER CREDITS | 12 | TOTAL SEMESTER CREDITS | 9 |

* Students will pick one of two options.

PROGRAM TOTAL: BS SWE 120 + MS CS 30 – 9 hours from Double Owl = 141